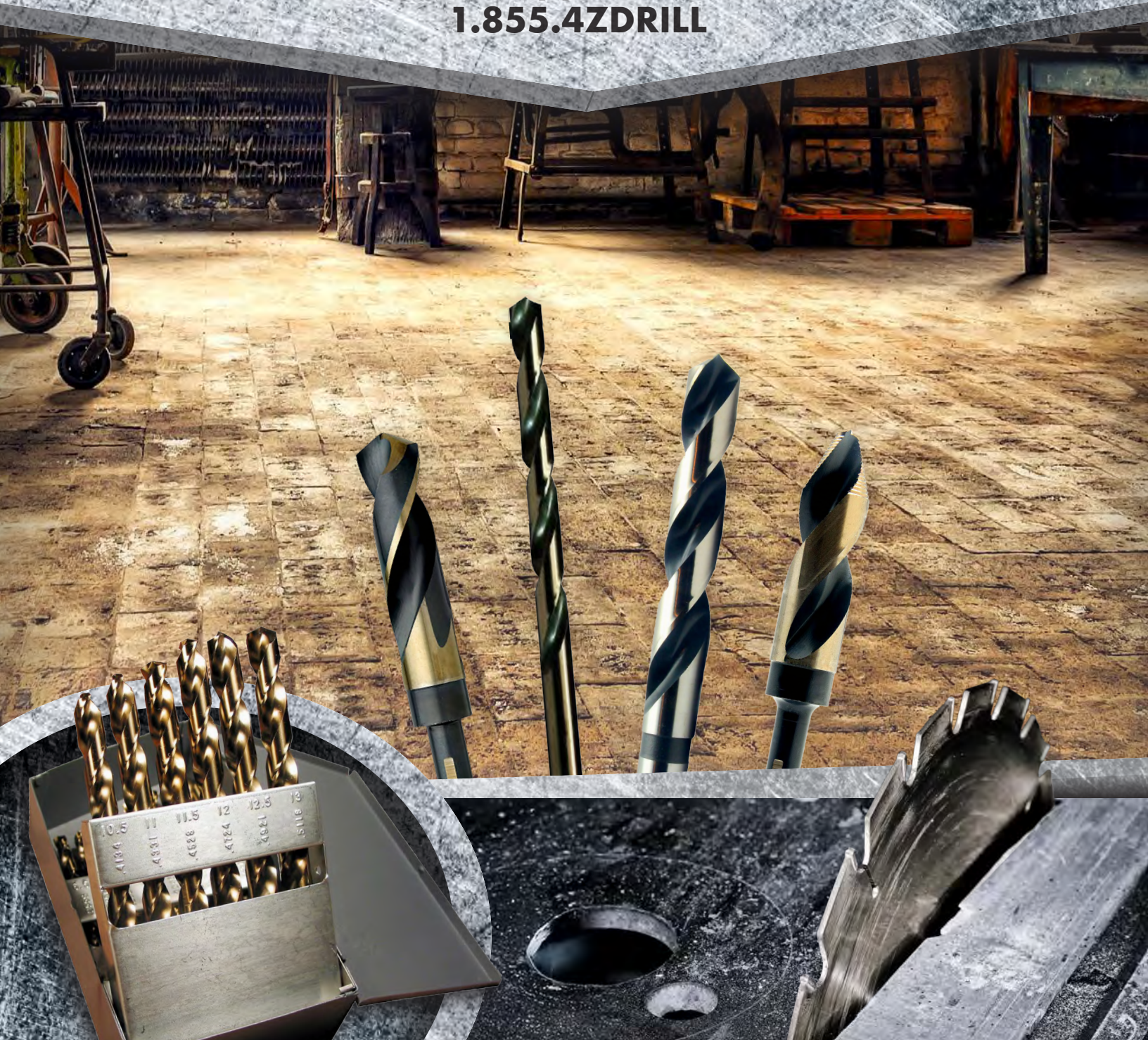


Z-Drill

2025 CATALOG

Industrial Supplies Wholesale

1.855.4ZDRILL



Dear Customer,

I am happy to present to you our 2025 Catalog! Inside its covers you will find some new products, and a fresh and updated look and experience. This is the culmination of many, many hours of work by the competent team at Zimmerman Design & Photography.

Firstly, I wish to thank all of you for your patience and forbearance with us these past few years, while waiting for a new catalog. Many of you inquired multiple times about the status of it, and most likely you heard about the same thing every time you inquired. I am sorry. There were various technological and logistical things that were slowing down the process substantially. But we are hopeful that we can launch another, expanded catalog late this year.

Most of the pricing has been successfully updated for this catalog. While most prices have increased from the last catalog, the end mill lineup is one that actually decreased. Interestingly, HTC Tool & Cutter Mfg (the end mill mfr) is one manufacturer that has not had a single price increase in the 12 – 13 years we have done business with them.

The one product line where the pricing may not be quite current on all items is the Hypertherm OEM consumables. This is due in part to sourcing/vendor issues, which we are actively working to resolve. Hopefully by the time the next catalog is launched we will have a concrete resolution. Please feel free to contact us if you have any pricing questions especially for that particular line. Be aware also that due to constantly changing market conditions, a few of the other prices may also be inaccurate by the time this catalog gets into your hands. This is almost unavoidable in today's world, and I want to remind you that the most current, accurate pricing can be obtained any time by contacting us.

Update 02-04-25: As of today, February 4, 2025, the Trump Administration is implementing an additional 10% tariff on imports from China. The promised 25% tariff on imports from Canada and Mexico are delayed until March, as negotiations are ongoing. Canada, in response to the tariffs levied against them, has retaliated with a 25% tariff on select US imports into their country. However, as of last evening this has also been delayed for at least 30 days. China has just implemented a tariff on certain US imports into their country, set to go into effect on February 10. Suffice it to say, that while most of the pricing in the catalog is currently correct, by the time you receive this catalog there could already be some significant market impacts. Feel free to reach out to us to check prices via phone, fax, or email!

As always, we ask that you use our catalog item numbers when ordering, to better facilitate order processing. Use of any other item numbers may result in delayed or cancelled order processes. Also, bear in mind that this catalog does represent nearly our entire product offering. If you can't find what you want in our catalog, feel free to ask us if we can source it for you.

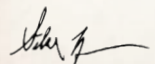
September of last year brought on the addition of Noah Strickland to the team. He has been a tremendous blessing to the company, and is responsible for the shipping and receiving departments. He has also done some extensive system programming/updating. Some of you may be privileged to have him take your order next time you call in.

We have also invested significantly in equipment/technology additions and upgrades, which is enabling us to serve our customers more speedily and efficiently than ever before.

A few more newsy items over the past year include:

- 1) A distributorship with Streamlight. Please note, that though we list very few Streamlight products (in the back of the catalog), we have access to the entire lineup.
- 2) We now stock the new Vortex Point drill bit line from Norseman. Check it out on pages 8 & 17!
- 3) The launch of our eBay store in January of this year. This store will largely be operated from Montana, by my brother-in-law, Elson. As of this writing, we are almost ready for the product listing process, and working through a large amount of logistical and technological things. We hope to start operating in a smallish way later this month (February) and grow into it. This will have no negative impact on our existing accounts.

Thank-you for your business, and we look forward to serving you in 2025 and beyond, if the Lord tarries!



Silas Zimmerman

TERMS & CONDITIONS

Accounts & Pricing Information: Pricing subject to Change without Notice! The pricing contained herein is Commercial Account pricing. Because of this, if you have a Retail or a Reseller account with us, these prices will not be applicable to you. Some of this pricing will also not be applicable to you if your account currently has price deviations in place for any product or product lines. Currently, we only offer literature with Commercial Account pricing.

Are you interested in opening a new account? Check out the options below! Please note, we will not establish a Commercial or Reseller account without a qualifying opening order.

- **Commercial Account:** For an individual or a business entity to qualify for a Commercial Account, we require a **\$350.00 minimum opening order, and \$1000.00 in annual spend** with us. After the opening order, there are no minimum order requirements. This account may qualify for an open or a 'charge' account after the initial order. Pre-payment will typically be required for the first order, though certain exceptions may apply. If these terms cannot reasonably be expected to be satisfied, the account will be established as a Retail Account.
- **Retail Account:** There are no order minimums or annual spend requirements for a Retail Account. These accounts are typically not open accounts, but payment generally gets processed at the time of order, when applicable or available.
- **Reseller Account:** This account is for businesses that engage in some level or form of resale. There are several types of resale accounts available. Whether you qualify for a Reseller Account, or what type, depends on your business type or category, and how you typically market your product. But regardless of the reseller account type, there is a **\$350.00 minimum opening order requirement, and \$2000.00 in annual spend** required for these accounts. After the opening order, there are no minimum order requirements. This account may qualify for an open or a 'charge' account after the initial order. Pre-payment will typically be required for the first order, though certain exceptions may apply. The Free Freight threshold for most reseller accounts is also higher than it is for Commercial Accounts.

General Freight Policy: We ship primarily via UPS, FED EX, and USPS for small parcels. We ship via R+L Carriers and Estes Express Lines for LTL (less-than-truckload, palletized) shipments. The Free Freight threshold for Retail and Commercial accounts is \$1500.00, within the contiguous US; while the threshold for Reseller accounts is \$1750.00 or \$2000.00, dependent upon type. Alaskan, Hawaiian, and international customers will be invoiced actual freight costs. All orders are shipped FOB Destination. Orders qualifying for free freight will be shipped Freight Prepaid, and orders less than the free freight threshold will be shipped Freight Prepaid & added, with a \$5.00 minimum shipping charge. Typically, back-orders are sent out freight free.

Note: These thresholds do not apply to DIRECT SHIP bolt & fastener orders.

Fasteners Freight Policy: Free Freight thresholds for DIRECT SHIP bolt and fastener orders vary by state. To qualify for free freight, a fastener order must consist of full carton quantities only, for all sizes, and may not contain any other catalog items (exceptions may apply).

Fuel Surcharges: A lot of you have seen Fuel Surcharges added onto your invoices, typically the last line item on the invoice. We continue to monitor the shipping/freight situation, and remain hopeful that those charges can be removed entirely. We are cautious, though, about making hasty moves that we will all regret later. At this time, it is hard to say if we will see our way clear to drop them this year or not. Stay tuned!

Damage Claims: Do not sign upon receiving a shipment without checking for damage! Doing so may result in you being held fully liable for the damaged product (you bear the loss), and relieving both Z-Drill and the Carrier of needing to take any further action or assuming any further responsibility. If there is any visible damage to the shipment, have the delivery person clearly make a note of it on the delivery ticket or on their device, BEFORE you sign off on it.

- **Small parcel damage:** You are required to keep the box, the packaging, AND the product, in the condition you received it, until the Carrier has indicated whether they need to inspect it or not. This will often mean keeping it until we let you know that all parties are done with it.
- **LTl shipment damage:** Good pictures of the damage sent to us are extremely helpful. A lot of you may not have the means to submit pictures to us – we understand and respect that. In some cases, the driver may be willing to take a few and send them to us. If that ever needs to happen, we ask that you then call us asap, to ‘claim’ and validate those pictures. Please don’t just assume that somehow we will know what they are about – we won’t! The email address to send all damage claims/pictures to is *customer.service@zdrill.net*.

Once we have processed your damage claim, we will advise you of what steps we will take to make things right.

Returns: No returns will be accepted without authorization from Z-Drill. If there is product that we authorize a return on, it must be returned in its original form, and in salable condition. Unauthorized returns will not be acknowledged!

Sales Tax: As a result of Economic Nexus laws in most states, there are multiple states where Z-Drill is required to collect and remit all applicable sales tax. We are required by law to collect and remit sales tax in the following states, as of this writing: IL, KY, MO, OH, WI, and PA. There will likely be more added to this list later this year. Whenever we add a new state, we send out the applicable paperwork to be filled out and returned to us. This allows you to claim and have on file a sales tax exemption with Z-Drill, if you qualify for one.

Payment Information: We offer several different ways to pay invoices.

- 1) By mailing a check,
 - 2) via credit card on file, and
 - 3) Through our online payment portal.
- **Check Terms:** 1% 10, Net 30 Days from date of invoice. Please note: we use the payment postmark to validate or disallow discounts, NOT the date the check was written. If you are taking advantage of the discount terms, please plan to mail the check for sure by day 10, to avoid the disappointment and hassle of us invalidating a discount that you took.
 - **Credit Card Terms:** Payment is due immediately upon order shipment. We will not charge your card until then, and then only for what ships. I.e. back-orders will get charged later, whenever they ship. We accept Visa, Mastercard, Discover, and American Express card payments. The 1% 10 discount terms given to open, or ‘charge’ accounts do not apply to credit card accounts. *Effective immediately, the 3% premium we have been charging for credit card payments will decrease to 1%.*
 - **Online Payment Portal:** This is an option that not many of you will be able to take advantage of. Essentially, you log in to your account on the Koble Payments Portal. You can then view your account invoices and Sales Orders, and pay any invoices you want to, by credit card. If you have any questions, or encounter any issues while trying to use this option, please call us at (855) 493-7455. We will be happy to assist you!

A finance charge of 2% per month, \$4.00 minimum, will apply to past due accounts. We may also place your account on a credit hold, if we deem it necessary.

Catalog Information: There is a pdf version of this catalog available upon request. It is emailable to most of you with standard email access, but we will not email it to those with an email to fax service, such as ibyfax.com. We can also send a copy on a USB flash drive (we provide the device). Also, some of you are asking for multiple catalog copies. The initial mailing provides only one copy per mailing address. If your company would benefit from having another copy or two, please contact us!

A final note about Sales Orders vs. Invoices: DO NOT send payment for a Sales Order (it says ‘Sales Order’ on top), unless we specifically request you to do so. This includes Sales Orders that are visible on the Payment Portal. The ONLY document that requires payment is an Invoice (it says ‘Invoice’ on top). Payment for Sales Orders, and even payments that include both legitimate, payable Invoices and Sales Orders, will be returned. This can result in lost discounts and finance charges.

Our all time most popular drill bit line!



MAGNUM™ Bully Premium Drill Bits – Jobber Length

- Precision ground flats on the shank (3/16” and larger) give positive chuck grip and help eliminate slippage
- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured from special Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Out-performs cobalt drill bits in materials such as work-hardening grades of stainless steel

JOBBER LENGTH – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	DIA	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
092010	1/16	1-7/8	7/8	Round	12	\$0.75	\$0.71	\$0.68	\$0.64
092020	5/64	2	1	Round	12	0.78	0.74	0.70	0.67
092030	3/32	2-1/4	1-1/4	Round	12	0.79	0.75	0.71	0.68
092040	7/64	2-5/8	1-1/2	Round	12	0.85	0.80	0.76	0.73
092050	1/8	2-3/4	1-5/8	Round	12	0.96	0.91	0.86	0.82
092060	9/64	2-7/8	1-3/4	Round	12	1.01	0.96	0.91	0.87
092070	5/32	3-1/8	2	Round	12	1.08	1.03	0.98	0.93
092080	11/64	3-1/4	2-1/8	Round	12	1.14	1.08	1.03	0.98
092090	3/16	3-1/2	2-5/16	3-Flatted	12	1.54	1.46	1.39	1.32
092100	13/64	3-5/8	2-7/16	3-Flatted	12	1.71	1.62	1.54	1.46
092110	7/32	3-3/4	2-1/2	3-Flatted	12	1.76	1.67	1.59	1.51
092120	15/64	3-7/8	2-5/8	3-Flatted	12	1.86	1.76	1.68	1.60
092130	1/4	4	2-3/4	3-Flatted	12	2.04	1.93	1.84	1.75
092140	17/64	4-1/8	2-7/8	3-Flatted	12	2.44	2.32	2.20	2.10
092150	9/32	4-1/4	2-15/16	3-Flatted	12	2.61	2.47	2.35	2.24

JOBBER LENGTH – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	DIA	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
092160	19/64	4-3/8	3-1/16	3-Flatted	6	\$2.94	\$2.79	\$2.65	\$2.52
092170	5/16	4-1/2	3-3/16	3-Flatted	6	3.13	2.96	2.81	2.68
092180	21/64	4-5/8	3-5/16	3-Flatted	6	3.31	3.13	2.98	2.83
092190	11/32	4-3/4	3-7/16	3-Flatted	6	3.89	3.68	3.50	3.33
092200	23/64	4-7/8	3-1/2	3-Flatted	6	4.15	3.93	3.74	3.56
092210	3/8	5	3-5/8	3-Flatted	6	3.56	4.26	4.05	3.86
092220	25/64	5-1/8	3-3/4	3-Flatted	6	4.92	4.66	4.43	4.21
092230	13/32	5-1/4	3-7/8	3-Flatted	6	5.18	4.91	4.66	4.44
092240	27/64	5-3/8	3-15/16	3-Flatted	6	5.42	5.13	4.88	4.64
092250	7/16	5-1/2	4-1/16	3-Flatted	6	6.08	5.76	5.48	5.21
092260	29/64	5-5/8	4-3/16	3-Flatted	6	6.69	6.34	6.03	5.74
092270	15/32	5-3/4	4-5/16	3-Flatted	6	7.13	6.75	6.41	6.11
092280	31/64	5-7/8	4-3/8	3-Flatted	6	7.32	6.93	6.59	6.27
092290	1/2	6	4-1/2	3-Flatted	6	7.54	7.14	6.79	6.46

The professional, attractive way to sell drill bits!

AQF-300 Magnum™ Bully Premium 300 Piece Countertop Drill Bit Display

- Comes fully stocked with 300 drill bits, in all 29 sizes from 1/16 – 1/2”.
- Display case has a durable, Plexi-glass, lockable lid.
- Individual bins clearly marked for their respective sizes.
- Same drill bits as our extremely popular line listed above.



ITEM NO.	DESCRIPTION	1	2	3	4
391100	300-pc stocked display	\$578.25	\$558.53	\$540.12	\$522.88
391103	Empty cabinet only	126.46	122.15	118.12	114.35

Size	Included Qty
1/16	24
5/64	12
3/32	24
7/64	18
1/8	48
9/64	18
5/32	18
11/64	12
3/16	24
13/64	6
7/32	12
15/64	6
1/4	24
17/64	6
9/32	6
19/64	2
5/16	6
21/64	2
11/32	3
23/64	2
3/8	6
25/64	2
13/32	2
27/64	2
7/16	3
29/64	2
15/32	2
31/64	2
1/2	6

Our all time most popular drill bit line!

MAGNUM™ Bully Premium Drill Bits – Jobber Length

- Precision ground flats on the shank (3/16" and larger) give positive chuck grip and help eliminate slippage
- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured from special Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Out-performs cobalt drill bits in materials such as work-hardening grades of stainless steel



AQF-29P, 29 Piece Drill Bit Set

- Includes sizes 1/16 – 1/2" x 64th increments
- Unbreakable, weather-proof, canister keeps bits from harm
- Features pocket clip and screw-on cap with rubber washer
- Excellent “grab-and-go” set for use on the jobsite, on the farm, in the shop, or at home.



AQF-29PO, 29 Piece Drill Bit Set

- Includes sizes 1/16 – 1/2" x 64th increments
- Unbreakable, weather-proof, canister keeps bits from harm
- Features pocket clip and screw-on cap with rubber washer
- Excellent “grab-and-go” set for use on the job-site, on the farm, in the shop, or at home.
- Blaze orange canister stands out in semi-dark conditions



AQF-29, 29 Piece Drill Bit Set

- Includes sizes 1/16 – 1/2" x 64th increments
- Black metal index conveniently marked with the diameter decimal equivalents, as well as common tap diameters and their corresponding drill bit sizes
- The set to have sitting at the drill press or on the work bench

29 PIECE DRILL BIT SETS			PRICE PER SET (can mix or match)				
ITEM NO.	DESCRIPTION	CASE QTY	1	6	12	24	48
093010	AQF-29P, Black Canister	12	\$86.62	\$82.29	\$78.37	\$74.81	\$71.55
093060	AQF-29PO, Orange Canister	12	86.62	82.29	78.37	74.81	71.55
092960	AQF-29, Metal Index	14	84.14	79.94	76.13	72.67	69.51

Mix & Match

You may combine any of the sets on this page to obtain quantity pricing!

Our all time most popular drill bit line!

MAGNUM™ Bully Premium Drill Bits – Jobber Length (continued)



AQF-29R, 29 Piece Drill Bit Set

- Includes sizes 1/16 – 1/2" x 64th increments
- 3/8" reduced shank on sizes above 3/8" to allow usage in standard 3/8" drill chucks
- Black metal index conveniently marked with the diameter decimal equivalents, as well as common tap diameters and their corresponding drill bit sizes
- The set to have sitting at the drill press or on the work bench.



AQF-21, 21 Piece Drill Bit Set

- Includes sizes 1/16 – 3/8" x 64th increments
- A nice set for those who only have a 3/8" drill, or simply don't need the larger drill bits
- Black metal index conveniently marked with the diameter decimal equivalents
- A good handyman / homeowner's set



AQF-15, 15 Piece Drill Bit Set

- Includes sizes 1/16 – 1/2" x 32nd increments
- Black metal index conveniently marked with the diameter decimal equivalents
- The set for those who don't want all the “in-between” 64th sizes, and yet have a full size range



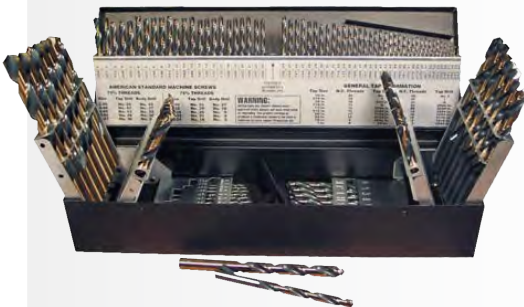
AQF-13, 13 Piece Drill Bit Set

- Includes sizes 1/16 – 1/4" x 64th increments
- A handy set to have around the house, or as ‘spares’ to keep the big sets stocked
- Black metal index conveniently marked with the diameter decimal equivalents

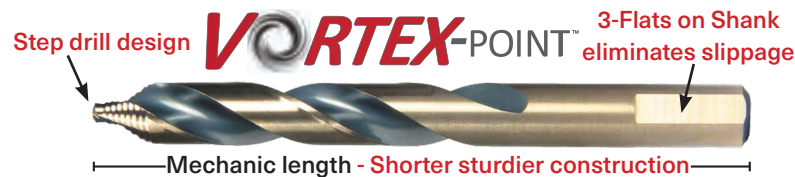
JOBBER LENGTH DRILL BIT SETS		PRICE PER SET			
ITEM NO.	DESCRIPTION	1	6	12	24
093110	29 Piece, 1/16 – 1/2 x 64ths, 3/8" shank	\$93.08	\$88.43	\$84.21	\$80.39
092860	21 Piece, 1/16 – 3/8" x 64th, Metal Index	52.13	49.38	46.91	44.68
092910	15 Piece, 1/16 – 1/2" x 32nd, Metal Index	93.08	88.43	84.21	80.39
092810	13 Piece, 1/16 – 1/4" x 64th, Metal Index	21.40	20.28	19.26	18.35

115 Piece set available, with the 29 fractional sizes from 1/16 to 1/2", all 26 letter sizes, and all 60 wire sizes – round shank only.

See Page 12



NEW!



Type 175-VT Mechanic Length, 3-Flat on Shank

- Unique tip geometry reduces heat generation & cutting tool wear increasing tool life.
- Easily enlarges existing holes without damaging the point.
- Split-point design gives accurate starting and its self-centering eliminating the need for the use of a center punch.
- Ideal for Hard steel, Sheet metal, Brass and Acrylics.

VORTEX-POINT DRILL BITS						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	DIA	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
094510	1/16	1-7/8	7/8	Round	6	\$0.92	\$0.87	\$0.83	\$0.83
094520	5/64	2	1	Round	6	0.96	0.91	0.86	0.82
094530	3/32	2-1/4	1-1/4	Round	6	0.97	0.92	0.88	0.83
094540	7/64	2-3/8	1-5/16	Round	6	3.24	3.07	2.91	2.77
094550	1/8	2-1/2	1-7/16	Round	6	3.44	3.26	3.10	2.95
094560	9/64	2-5/8	1-9/16	Round	6	3.46	3.28	3.11	2.96
094570	5/32	2-3/4	1-11/16	Round	6	3.54	3.36	3.19	3.04
094580	11/64	2-7/8	1-13/16	Round	6	3.60	3.41	3.24	3.08
094590	3/16	3	1-7/8	3-Flatted	6	4.03	3.82	3.63	3.45
094600	13/64	3-1/8	1-15/16	3-Flatted	6	4.22	4.00	3.80	3.62
094610	7/32	3-1/4	2	3-Flatted	6	4.28	4.05	3.85	3.67
094620	15/64	3-3/8	2-1/16	3-Flatted	6	4.43	4.20	3.99	3.80
094630	1/4	3-1/2	2	3-Flatted	6	4.71	4.46	4.24	4.04
094640	17/64	3-5/8	2-1/8	3-Flatted	6	5.28	5.28	4.75	4.52
094650	9/32	3-3/4	2-1/4	3-Flatted	6	5.46	5.17	4.91	4.68
						3	15	30	60
094660	19/64	3-7/8	2-3/8	3-Flatted	3	5.82	5.51	5.24	4.99
094670	5/16	4	2-1/2	3-Flatted	3	6.00	5.68	5.40	5.14
094680	21/64	4-1/16	2-9/16	3-Flatted	3	6.25	5.92	5.63	5.36
094690	11/32	4-1/8	2-5/8	3-Flatted	3	7.32	6.93	6.59	6.27
094700	23/64	4-3/16	2-11/16	3-Flatted	3	7.86	7.86	7.08	6.74
094710	3/8	4-1/4	2-11/16	3-Flatted	3	8.13	7.70	7.31	6.96
094720	25/64	4-5/16	2-3/4	3-Flatted	3	8.93	8.46	8.04	7.65
094730	13/32	4-3/8	2-13/16	3-Flatted	3	9.15	8.67	8.24	7.85
094740	27/64	4-7/16	2-7/8	3-Flatted	3	9.86	9.34	8.88	8.45
094750	7/16	4-1/2	2-15/16	3-Flatted	3	10.18	9.64	9.16	8.73
094760	29/64	4-5/8	3	3-Flatted	3	11.13	10.54	10.01	9.54
094770	15/32	4-3/4	3-1/8	3-Flatted	3	11.67	11.05	10.50	10.00
094780	31/64	4-7/8	3-1/4	3-Flatted	3	12.24	11.59	11.01	10.49
094790	1/2	5	3-3/8	3-Flatted	3	12.44	12.44	11.20	10.67

Unique tip geometry reduces heat generation!

Split-point design gives accurate starting!



Our all time most popular drill bit line!

AQF-96 Magnum™ 96 Piece 3-Drawer Stocking Cabinet (drill bits included)

- Comes fully stocked with 96 drill bits, in all 29 sizes from 1/16 – 1/2" (see table at right).
- All steel cabinet has each bin clearly marked with the correct drill size.
- Same drill bits as our extremely popular line listed on the previous pages.



Size	Included Qty
1/16	6
5/64	3
3/32	6
7/64	3
1/8	6
9/64	3
5/32	6
11/64	6
3/16	6
13/64	3
7/32	6
15/64	3
1/4	6
17/64	2
9/32	3
19/64	1
5/16	3
21/64	2
11/32	3
23/64	2
3/8	2
25/64	2
13/32	2
27/64	2
7/16	2
29/64	2
15/32	2
31/64	1
1/2	2

ITEM NO.	DESCRIPTION	1	2	3	4
391180	96-pc stocked cabinet	\$248.92	\$240.43	\$232.51	\$225.09

3-Drawer Stocking Cabinet (drill bits not included)

- Individual bins for the 29 sizes from 1/16" - 1/2" x 1/64th increments
- Each bin clearly marked with the correct drill size



ITEM NO.	DESCRIPTION	1	2	3	4
391120	Cabinet for 1/16 – 1/2 x 64ths	\$115.82	\$110.03	\$104.79	\$100.02

Drill Bit Gauges

- Economical gauge made from prime steel and finished.



ITEM NO.	DESCRIPTION	1	5	10	20
391600	1/16 – 1/2 x 64ths	\$10.49	\$9.93	\$9.44	\$8.99
391603	LARGE: 1/2 – 1" x 64ths	28.99	27.46	26.09	24.85
391606	WIRE: #1 to #60	12.03	11.39	10.83	10.31

Empty Drill Bit Indexes

- For our popular Magnum® drill bit line.
- Keep your bits organized!



ITEM NO.	DESCRIPTION	1	3	6	12
391260	29SP Fractional, Black Metal	\$13.16	\$12.49	\$11.89	\$11.34
391263	29PO Fractional, Blaze Orange	14.84	14.09	13.41	13.41
391266	29P Fractional, Black U-Dex	14.84	14.09	13.41	12.79

Our all time most popular drill bit line!

JOBBER LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
389601	1/16	1-7/8	7/8	Round	12	\$0.92	\$0.87	\$0.83	\$0.79
389602	5/64	2	1	Round	12	0.96	0.91	0.86	0.82
389603	3/32	2-1/4	1-1/4	Round	12	0.97	0.92	0.88	0.83
389604	7/64	2-5/8	1-1/2	Round	12	0.83	0.99	0.94	0.89
389605	1/8	2-3/4	1-5/8	Round	12	0.89	1.12	1.06	1.01
389606	9/64	2-7/8	1-3/4	Round	12	1.25	1.18	1.13	1.07
389607	5/32	3-1/8	2	Round	12	1.33	1.26	1.20	1.14
389608	11/64	3-1/4	2-1/8	Round	12	1.39	1.32	1.25	1.19
389609	3/16	3-1/2	2-5/16	Round	12	1.65	1.57	1.49	1.42
389610	13/64	3-5/8	2-7/16	Round	12	1.82	1.72	1.64	1.56
389611	7/32	3-3/4	2-1/2	Round	12	1.88	1.78	1.69	1.61
389612	15/64	3-7/8	2-5/8	Round	12	2.00	1.89	1.80	1.71
389613	1/4	4	2-3/4	Round	12	2.19	2.08	1.98	1.88
389614	17/64	4-1/8	2-7/8	Round	12	2.51	2.38	2.27	2.16
389615	9/32	4-1/4	2-15/16	Round	12	2.81	2.66	2.53	2.40

JOBBER LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
389616	19/64	4-3/8	3-1/16	Round	6	\$3.15	\$2.99	\$2.84	2.70
389617	5/16	4-1/2	3-3/16	Round	6	3.35	3.17	3.01	2.87
389618	21/64	4-5/8	3-5/16	Round	6	3.57	3.38	3.21	3.06
389619	11/32	4-3/4	3-7/16	Round	6	4.22	4.00	3.80	3.62
389620	23/64	4-7/8	3-1/2	Round	6	4.49	4.25	4.04	3.85
389621	3/8	5	3-5/8	Round	6	4.89	4.63	4.40	4.19
389622	25/64	5-1/8	3-3/4	Round	6	5.35	5.07	4.81	4.58
389623	13/32	5-1/4	3-7/8	Round	6	5.64	5.34	5.08	4.83
389624	27/64	5-3/8	3-15/16	Round	6	5.90	5.59	5.31	5.06
389625	7/16	5-1/2	4-1/16	Round	6	6.36	6.04	5.75	5.48
389626	29/64	5-5/8	4-3/16	Round	6	7.33	6.95	6.60	6.29
389627	15/32	5-3/4	4-5/16	Round	6	7.48	7.10	6.76	6.45
389628	31/64	5-7/8	4-3/8	Round	6	8.01	7.59	7.21	6.87
389629	1/2	6	4-1/2	Round	6	8.24	7.80	7.41	7.06



MAGNUM™ Super Premium Drill Bits – Jobber Length – Round Shank

- Same as our top-selling jobber length bits on pages 3-6, but without the three flats on shank.
- Work well in milling machines where a collet is involved.

Note: Not 3-flatted. See pages 3-6 for our popular 3-flatted jobber length bits.

JOBBER LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	1	5	10	20
389630	33/64	6-5/8	4-13/16	Round	1	\$16.33	\$15.47	\$14.70	\$14.00
389631	17/32	6-5/8	4-13/16	Round	1	16.41	15.58	14.83	14.15
389632	35/64	6-5/8	4-13/16	Round	1	17.76	16.86	16.05	15.31
389633	9/16	6-5/8	4-13/16	Round	1	18.61	17.67	16.82	16.05
389634	37/64	6-5/8	4-13/16	Round	1	18.65	17.71	16.86	16.08
389635	19/32	7-1/8	5-3/16	Round	1	19.17	18.20	17.33	16.53
389636	39/64	7-1/8	5-3/16	Round	1	21.05	19.99	19.02	18.15
389637	5/8	7-1/8	5-3/16	Round	1	21.43	20.30	19.29	18.37
389638	41/64	7-1/8	5-3/16	Round	1	23.44	22.21	22.21	20.10
389639	21/32	7-1/8	5-3/16	Round	1	21.56	20.47	19.48	18.59
389640	43/64	7-5/8	5-5/8	Round	1	23.52	22.33	21.25	20.28
389641	11/16	7-5/8	5-5/8	Round	1	23.35	22.12	21.01	20.01
389642	45/64	7-5/8	5-5/8	Round	1	24.93	23.67	22.53	21.49
389643	23/32	7-5/8	5-5/8	Round	1	23.73	22.53	21.45	20.46
389644	47/64	7-5/8	5-5/8	Round	1	25.99	24.67	23.48	22.40
389645	3/4	7-3/8	5-5/8	Round	1	24.72	23.47	22.34	21.31

Jobber Length Round Shank Fractional Sets

- 13 Piece includes sizes 1/16 – 1/4” x 64th increments
- 21 Piece includes sizes 1/16 – 3/8” x 64th increments
- 15 Piece includes sizes 1/16 – 1/2” x 32nd increments
- 29 Piece includes sizes 1/16 – 1/2” x 64th increments (available in three different cases)

ITEM NO.	DESCRIPTION	1 set	6	12	24	48
389675	13 Piece, Black Metal Index	\$21.93	\$20.82	\$20.82	\$18.91	
389678	21 Piece, Black Metal Index	55.41	52.61	50.07	47.77	
389681	15 Piece, Black Metal Index	60.31	57.25	54.49	51.99	
389684	29 Piece, Black Metal Index	108.33	102.91	98.01	93.56	
389687	29 Piece, Black Canister	111.82	106.23	101.17	96.57	92.37
389690	29 Piece, Orange Canister	111.82	106.23	101.17	96.57	

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Jobber Length – Wire Sizes

- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured from special Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Out-performs cobalt drill bits in materials such as work-hardening grades of stainless steel
- Round shank well suited for use in collets



JOBBER LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
389001	1	3-7/8	2-5/8	Round	12	\$2.54	\$2.41	\$2.29	\$2.18
389002	2	3-7/8	2-5/8	Round	12	2.54	2.41	2.29	2.18
389003	3	3-3/4	2-1/2	Round	12	2.35	2.22	2.11	2.01
389004	4	3-3/4	2-1/2	Round	12	2.35	2.22	2.11	2.01
389005	5	3-3/4	2-1/2	Round	12	2.35	2.22	2.11	2.01
389006	6	3-3/4	2-1/2	Round	12	2.35	2.22	2.11	2.01
389007	7	3-5/8	2-7/16	Round	12	2.07	1.96	1.86	1.77
389008	8	3-5/8	2-7/16	Round	12	2.07	1.96	1.86	1.77
389009	9	3-5/8	2-7/16	Round	12	2.07	1.96	1.86	1.77
389010	10	3-5/8	2-7/16	Round	12	2.03	1.92	1.83	1.74
389011	11	3-1/2	2-5/16	Round	12	1.88	1.78	1.69	1.61
389012	12	3-1/2	2-5/16	Round	12	1.88	1.78	1.69	1.61
389013	13	3-1/2	2-5/16	Round	12	1.81	1.71	1.63	1.55
389014	14	3-3/8	2-3/16	Round	12	1.81	1.71	1.63	1.55
389015	15	3-3/8	2-3/16	Round	12	1.81	1.71	1.63	1.55
389016	16	3-3/8	2-3/16	Round	12	1.81	1.71	1.63	1.55
389017	17	3-3/8	2-3/16	Round	12	1.81	1.71	1.63	1.55
389018	18	3-1/4	2-1/8	Round	12	1.57	1.49	1.41	1.35
389019	19	3-1/4	2-1/8	Round	12	1.57	1.49	1.41	1.35
389020	20	3-1/4	2-1/8	Round	12	1.57	1.49	1.41	1.35
389021	21	3-1/4	2-1/8	Round	12	1.43	1.36	1.29	1.23
389022	22	3-1/8	2	Round	12	1.43	1.43	1.29	1.23
389023	23	3-1/8	2	Round	12	1.23	1.34	1.28	1.21
389024	24	3-1/8	2	Round	12	1.42	1.34	1.28	1.21
389025	25	3	1-7/8	Round	12	1.38	1.30	1.24	1.18
389026	26	3	1-7/8	Round	12	1.38	1.30	1.24	1.18
389027	27	3	1-7/8	Round	12	1.38	1.30	1.24	1.18
389028	28	2-7/8	1-3/4	Round	12	1.22	1.16	1.10	1.05
389029	29	2-7/8	1-3/4	Round	12	1.22	1.16	1.10	1.05
389030	30	2-3/4	1-5/8	Round	12	1.22	1.16	1.10	1.05

JOBBER LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
389031	31	2-3/4	1-5/8	Round	12	\$1.22	\$1.16	\$1.10	\$1.05
389032	32	2-3/4	1-5/8	Round	12	1.22	1.16	1.10	1.05
389033	33	2-5/8	1-1/2	Round	12	1.22	1.16	1.10	1.05
389034	34	2-5/8	1-1/2	Round	12	1.22	1.16	1.10	1.05
389035	35	2-5/8	1-1/2	Round	12	1.22	1.16	1.10	1.05
389036	36	2-1/2	1-7/16	Round	12	1.22	1.16	1.10	1.05
389037	37	2-1/2	1-7/16	Round	12	1.22	1.16	1.10	1.05
389038	38	2-1/2	1-7/16	Round	12	1.22	1.16	1.10	1.05
389039	39	2-3/8	1-3/8	Round	12	1.22	1.16	1.10	1.05
389040	40	2-3/8	1-3/8	Round	12	1.22	1.16	1.10	1.05
389041	41	2-3/8	1-3/8	Round	12	1.22	1.16	1.10	1.05
389042	42	2-1/4	1-1/4	Round	12	1.22	1.16	1.10	1.05
389043	43	2-1/4	1-1/4	Round	12	1.22	1.16	1.10	1.05
389044	44	2-1/8	1-1/8	Round	12	1.22	1.16	1.10	1.05
389045	45	2-1/8	1-1/8	Round	12	1.22	1.16	1.10	1.05
389046	46	2-1/8	1-1/8	Round	12	1.22	1.16	1.10	1.05
389047	47	2	1	Round	12	1.22	1.16	1.10	1.05
389048	48	2	1	Round	12	1.22	1.16	1.10	1.05
389049	49	2	1	Round	12	1.22	1.16	1.10	1.05
389050	50	2	1	Round	12	1.22	1.16	1.10	1.05
389051	51	2	1	Round	12	1.22	1.16	1.10	1.05
389052	52	1-7/8	7/8	Round	12	1.22	1.16	1.10	1.05
389053	53	1-7/8	7/8	Round	12	1.22	1.16	1.10	1.05
389054	54	1-7/8	7/8	Round	12	1.22	1.16	1.10	1.05
389055	55	1-7/8	7/8	Round	12	1.22	1.16	1.10	1.05
389056	56	1-3/4	¾	Round	12	1.22	1.16	1.10	1.05
389057	57	1-3/4	¾	Round	12	1.22	1.16	1.10	1.05
389058	58	1-5/8	11/16	Round	12	1.22	1.16	1.10	1.05
389059	59	1-5/8	11/16	Round	12	1.22	1.16	1.10	1.05
389060	60	1-5/8	11/16	Round	12	1.22	1.16	1.10	1.05

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Jobber Length –
Wire & Letter Sizes (continued)

JOBBER LENGTH DRILL BITS – LETTER						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
389074	A	3-7/8	2-5/8	Round	12	\$2.74	\$2.59	\$2.46	\$2.35
389075	B	4	2-3/4	Round	12	2.74	2.59	2.46	2.35
389076	C	4	2-3/4	Round	12	2.74	2.59	2.46	2.35
389077	D	4	2-3/4	Round	12	2.67	2.53	2.40	2.29
389078	E	4	2-3/4	Round	12	2.19	2.08	1.98	1.88
389079	F	4-1/8	2-7/8	Round	12	2.94	2.79	2.65	2.52
389080	G	4-1/8	2-7/8	Round	12	3.19	3.03	2.88	2.74
389081	H	4-1/8	2-7/8	Round	12	3.28	3.11	2.95	2.81
389082	I	4-1/8	2-7/8	Round	12	3.28	3.11	2.95	2.81
389083	J	4-1/8	2-7/8	Round	12	3.44	3.26	3.10	2.95
389084	K	4-1/4	2-15/16	Round	12	3.85	3.64	3.46	3.30
389085	L	4-1/4	2-15/16	Round	12	3.74	3.54	3.36	3.20
						6	30	60	120
389086	M	4-3/8	3-1/16	Round	6	4.08	3.87	3.68	3.50
389087	N	4-3/8	3-1/16	Round	6	4.08	3.87	3.68	3.50
389088	O	4-1/2	3-3/16	Round	6	4.08	3.87	3.68	3.50
389089	P	4-5/8	3-5/16	Round	6	4.58	4.34	4.13	3.93
389090	Q	4-3/4	3-7/16	Round	6	4.69	4.45	4.23	4.02
389091	R	4-3/4	3-7/16	Round	6	4.90	4.64	4.41	4.20
389092	S	4-7/8	3-1/2	Round	6	5.31	5.03	4.78	4.55
389093	T	4-7/8	3-1/2	Round	6	5.96	5.64	5.36	5.11
389094	U	5	3-5/8	Round	6	5.96	5.64	5.36	5.11
389095	V	5	3-5/8	Round	6	6.08	5.76	5.48	5.21
389096	W	5-1/8	3-3/4	Round	6	6.36	6.03	5.73	5.45
389097	X	5-1/8	3-3/4	Round	6	7.57	7.17	6.81	6.49
389098	Y	5-1/4	3-7/8	Round	6	8.89	8.42	8.00	7.62
389099	Z	5-1/4	3-7/8	Round	6	9.10	8.62	8.19	7.80

SP-26, 26 Piece Drill Bit Set

- Includes letter sizes A - Z
- Black metal index conveniently marked with the diameter decimal equivalents
- Part of the popular MAGNUM™ family



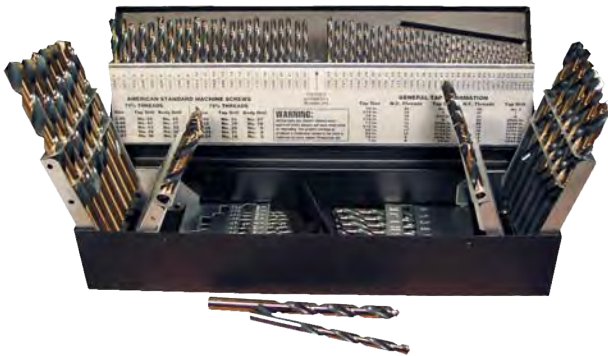
SP-60, 60 Piece Drill Bit Set

- Includes wire sizes #1 - 60
- Black metal index conveniently marked with the diameter decimal equivalents, as well as tap sizes and the corresponding drill bits
- Part of the popular MAGNUM™ family



SP-115, 115 Piece Drill Bit Set

- All drills have a round shank, great for use in collets etc.
- Includes fractional sizes 1/16 – 1/2”, letter sizes A – Z, and wire sizes 1 - 60
- Black metal index conveniently marked with the diameter decimal equivalents, as well as tap sizes and the corresponding drill bits
- Part of the popular MAGNUM™ family



ITEM NO.	DESCRIPTION	1 set	3	6	12
389065	26 Piece, A – Z, Black Metal	\$119.38	\$113.18	\$107.59	\$102.53
389066	60 Piece, #1 – 60, Black Metal	93.11	88.21	83.80	79.81
		1 set	2	4	6
389067	115 Piece, A – Z, #1 – 60	311.99	296.77	282.97	270.39

ULTRA LUBE™

- Super-concentrated, no-run formula
- Clings to vertical surfaces for continuous lubrication
- This fluid will extend tool life and yield a super machined finish



* See page 104

72-SP Magnum™
72-Piece Stocking Unit,
Letter Sizes

- 3-drawer unit comes fully stocked with 72 drill bits: 3 each of sizes A-T, and 2 each of sizes U-Z.
- All steel cabinet has each bin clearly marked with the correct drill size.



ITEM	DESCRIPTION	1	2	3	4
389150	72-pc. stocked cabinet	\$306.70	\$292.10	\$278.82	\$266.70

249-SP Magnum™
249-Piece Stocking
Unit, Wire Sizes

- 5-drawer unit comes fully stocked with 249 drill bits: 3 each of sizes 1-22, 4 each of sizes 23-29, and 5 each of sizes 30-60.
- All steel cabinet has each bin clearly marked with the correct drill size.



ITEM	DESCRIPTION	1	2	3	4
389160	249-pc. stocked cabinet	\$349.88	\$333.21	\$318.07	\$304.24

Drill Stands

- These drill stands can be hung on a wall, used on a bench, or mounted on a press.
- USA made.



#391310



#391313 for
S & D drills from 1/2” to 1”

ITEM	DESCRIPTION	1	3	6	12
391310	Stand for 1/16” - 1/2” x 64ths	\$10.27	\$9.75	\$9.28	\$8.85
391313	Stand for 1/2” - 1” x 64ths	67.18	63.64	60.46	57.58

Drawer-Mount Drill Organizer

- For fractional drills 1/16 to 1/2” by 64ths.
- Can be mounted underneath a work bench, desk, shelf, inside a cabinet, or just about anywhere.
- Security built-in cam lock and two keys.
- Heavy-duty ball bearing drawer slides.
- Each space clearly marked for the proper drill.
- Decimal equivalent shown under each size.
- Overall dimensions 26-1/8” W x 12-1/2” D x 4-1/2” H.



ITEM	DESCRIPTION	1	2	3	4
391225	Organizer for fractional sizes	\$235.09	\$227.08	\$219.59	\$212.59

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – S & D Type, 1/2” Shank, 3-Flats

- One piece solid construction
- Precision ground flats on the shank give positive chuck grip and help eliminate slippage
- 135° split point (118° on sizes over 1”) for fast penetration and accurate starting without a center punch
- Manufactured from special Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Recommended for use in work-hardening grades of stainless steel
- Feature a 1/2”-reduced shank for use in a standard 1/2” drill chuck



TYPE S & D DRILL BITS						PRICE EACH			
ITEM NO.	SIZE	OAL (INS)	SHANK DIAM	SHANK TYPE	PKG QTY	1	5	10	20
093410	3/32	6	1/2	3-Flatted	1	\$20.11	\$19.05	\$18.10	\$17.24
093420	1/16	6	1/2	3-Flatted	1	19.15	18.14	17.24	16.42
093430	3/64	6	1/2	3-Flatted	1	20.97	19.87	18.88	17.98
093440	9/16	6	1/2	3-Flatted	1	19.76	18.72	17.79	16.94
093450	3/8	6	1/2	3-Flatted	1	22.97	21.76	20.68	19.69
093460	1/2	6	1/2	3-Flatted	1	21.86	20.71	19.68	18.74
093470	5/8	6	1/2	3-Flatted	1	23.15	21.93	20.84	19.85
093480	3/4	6	1/2	3-Flatted	1	22.04	20.88	19.84	18.89
093490	7/8	6	1/2	3-Flatted	1	24.92	23.61	22.43	21.36
093500	1	6	1/2	3-Flatted	1	23.74	22.49	21.36	20.35
093510	1-1/16	6	1/2	3-Flatted	1	25.89	24.53	23.30	22.19
093520	1-1/8	6	1/2	3-Flatted	1	24.65	23.36	22.19	21.13
093530	1-1/4	6	1/2	3-Flatted	1	27.24	25.80	24.51	23.35
093540	1-1/2	6	1/2	3-Flatted	1	25.93	24.57	23.34	22.23
093550	1-5/8	6	1/2	3-Flatted	1	28.21	26.72	25.39	24.18
093560	1-3/4	6	1/2	3-Flatted	1	26.86	25.45	24.18	23.02
093570	1-7/8	6	1/2	3-Flatted	1	30.57	28.96	27.51	26.20
093580	2	6	1/2	3-Flatted	1	29.08	27.55	26.18	24.93
093590	2-1/8	6	1/2	3-Flatted	1	31.11	29.47	28.00	26.67
093600	2-1/4	6	1/2	3-Flatted	1	29.64	28.08	26.68	25.40
093610	2-3/8	6	1/2	3-Flatted	1	32.90	31.17	29.61	28.20
093620	2-1/2	6	1/2	3-Flatted	1	28.20	29.70	28.21	26.87

TYPE S & D DRILL BITS						PRICE EACH			
ITEM NO.	SIZE	OAL (INS)	SHANK DIAM	SHANK TYPE	PKG QTY	1	5	10	20
093630	5/16	6	1/2	3-Flatted	1	\$33.65	\$31.88	\$30.29	\$28.85
093640	3/8	6	1/2	3-Flatted	1	32.06	30.37	28.85	27.48
093650	1/2	6	1/2	3-Flatted	1	35.71	33.83	32.14	30.61
093660	5/8	6	1/2	3-Flatted	1	34.00	32.21	30.60	29.14
093670	3/4	6	1/2	3-Flatted	1	37.58	35.61	33.83	32.21
093680	7/8	6	1/2	3-Flatted	1	35.79	33.91	32.21	30.68
093690	1	6	1/2	3-Flatted	1	40.53	38.39	36.48	34.74
093700	1-1/16	6	1/2	3-Flatted	1	38.60	36.57	34.74	33.08
093710	1-1/8	6	1/2	3-Flatted	1	43.76	41.46	39.39	37.51
093720	1-1/4	6	1/2	3-Flatted	1	41.68	39.49	37.51	35.73
						1	3	6	12
093730	1-1/8	6	1/2	3-Flatted	1	59.81	56.66	53.83	51.26
093740	1-1/4	6	1/2	3-Flatted	1	54.78	51.89	49.30	46.95
093750	1-1/2	6	1/2	3-Flatted	1	66.08	62.61	59.48	56.64
093760	1-5/8	6	1/2	3-Flatted	1	59.92	56.76	53.93	51.36
093770	1-3/4	6	1/2	3-Flatted	1	62.42	59.13	56.18	53.50
093780	1-7/8	6	1/2	3-Flatted	1	63.79	60.43	57.41	54.68
093790	2	6	1/2	3-Flatted	1	80.93	76.67	72.84	69.37
093800	2-1/8	6	1/2	3-Flatted	1	69.37	66.58	63.25	60.24
093810	2-1/4	6	1/2	3-Flatted	1	97.85	92.70	88.06	83.87
093820	2-3/8	6	1/2	3-Flatted	1	99.50	94.26	89.55	85.29
093830	2-1/2	6	1/2	3-Flatted	1	109.62	103.92	98.79	94.14
093840	2-5/8	6	1/2	3-Flatted	1	112.36	106.52	101.26	96.49

3/4” Reduced Shank, Round Shank

- 3/4”-reduced shank, but not 3-flatted, for drilling with Bridgeport style or other production machines with 3/4” chucks



TYPE S & D DRILL BITS						PRICE EACH			
ITEM NO.	SIZE	OAL (INS)	SHANK DIAM	SHANK TYPE	PKG QTY	1	5	10	20
094010	13/16	5-1/2	3/4	Round	1	\$29.64	\$28.08	\$26.68	\$25.40
094020	7/8	5-1/2	3/4	Round	1	32.06	30.37	28.85	27.48
094030	15/16	5-1/2	3/4	Round	1	35.79	33.91	32.21	30.68
094040	1	5-1/2	3/4	Round	1	41.68	39.49	37.51	35.73
						1	3	6	12
094050	1-1/8	5-27/32	3/4	Round	1	59.92	56.76	53.93	51.36
094060	1-1/4	5-7/8	3/4	Round	1	70.28	66.58	66.58	60.24
094070	1-3/8	5-29/32	3/4	Round	1	99.50	94.26	89.55	85.29
094080	1-1/2	5-15/16	3/4	Round	1	112.36	106.52	101.26	96.49

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bit Sets – S & D Type, 1/2” Shank, 3-Flats

- Precision ground flats on the shank give positive chuck grip and help eliminate slippage
- 135° split point (118° on sizes over 1”) for fast penetration and accurate starting without a center punch
- Manufactured from special Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Recommended for use in work-hardening grades of stainless steel
- Feature a 1/2”-reduced shank for use in a standard 1/2” drill chuck
- One piece solid construction



S & D 4SP, 4 Piece Drill Bit Set

- Includes sizes 9/16, 5/8, 3/4, & 1”
- 1/2” reduced shank allows usage in standard 1/2” drill chucks
- Convenient bit storage in a heavy duty, plastic index
- The set for those who want only the most common sizes above 1/2”



S & D 8SP, 8 Piece Drill Bit Set

- Includes sizes 9/16 – 1” in 1/16th increments
- 1/2” reduced shank allows usage in standard 1/2” drill chucks
- Convenient bit storage in a sturdy metal index
- The most popular S & D drill bit set



S & D 33SP, 33 Piece Drill Bit Set

- Includes sizes 1/2” – 1” in 1/64th increments
- 1/2” reduced shank allows usage in standard 1/2” drill chucks
- Metal drill stand

TYPE S & D DRILL BIT SETS		PRICE PER SET				
ITEM NO.	DESCRIPTION	1	2	5	10	20
093870	4 Piece, Black Plastic Case	\$105.40	\$99.92	\$94.99	\$90.52	\$86.45
093880	8 Piece, Black Metal Index	244.63	232.98	222.39	212.72	
		1	2	3	4	
093890	33 Piece, Metal Drill Stand	879.75	838.35	805.20	774.57	

S & D 8SPA Magnum™ Super
Premium 8 Piece Counter-Top
Drill Bit Display

- Comes stocked with a set of 8 bits; 1 each of: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, & 1”
- Accommodates up to three bits of each size
- Display case has a durable, Plexi-glass, lockable lid
- Individual holes clearly marked for their respective sizes
- Same drill bits as our extremely popular line listed on the previous pages



ITEM NO.	DESCRIPTION	1	2	3	4
391110	8-pc stocked display	\$335.21	\$323.78	\$313.11	\$303.12
391220	Empty display case	\$216.06	205.77	196.42	187.88

S & D 13-SP Magnum™ Super
Premium 13 Piece Stocking Unit

(bits included)

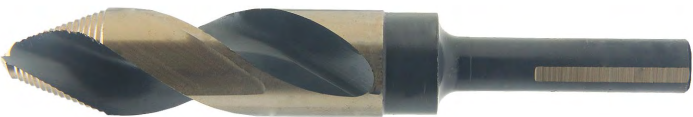
- Closed drawer all-steel stocking unit
- Comes fully stocked with 13 Magnum Super Premium drill bits
- 1/2” Reduced, 3-flatted shanks



ITEM NO.	DESCRIPTION	1	2	3	4
391130	13-pc stocked cabinet	\$453.58	\$431.19	\$410.89	\$392.43

Size	Included Qty
9/16	3
5/8	3
11/16	1
3/4	2
13/16	1
7/8	1
15/16	1
1"	1

Our all time most popular drill bit line!



VORTEX-POINT™

S & D Type, 1/2” Shank Silver
Deming 135° Split point, 3-Flats
on Shank

- Unique tip geometry reduces heat generation & cutting tool wear increasing tool life.
- Easily enlarges existing holes without damaging the point.
- Stay sharp up to 4X longer compared to conventional and other specialty tip design.
- Recommended for Cast Iron, Brass, Sheet Metal, Plastic, Mild Steel, Copper, Hardened Steel.

TYPE S & D DRILL BITS						PRICE EACH			
ITEM NO.	SIZE	OAL (INS)	SHANK DIAM	SHANK TYPE	PKG QTY	1	5	10	20
095040	9/16	6	1/2	3-Flatted	1	\$24.79	\$23.49	\$22.31	\$21.25
095080	5/8	6	1/2	3-Flatted	1	26.18	24.80	23.56	22.44
095120	11/16	6	1/2	3-Flatted	1	27.78	26.32	25.00	23.81
095160	3/4	6	1/2	3-Flatted	1	29.17	27.63	26.25	25.00
095200	13/16	6	1/2	3-Flatted	1	31.40	29.75	28.26	26.92
095240	7/8	6	1/2	3-Flatted	1	35.92	34.03	32.33	30.79
095280	15/16	6	1/2	3-Flatted	1	35.46	33.59	31.91	30.39
095320	1"	6	1/2	3-Flatted	1	38.79	36.75	34.91	33.25



TYPE S & D DRILL BIT SETS			PRICE PER SET				
ITEM NO.	SIZE	DESCRIPTION	1	2	5	10	20
095450	9/16 - 1"	4 Piece, Black Plastic Case	\$123.03	\$116.64	\$110.88	\$105.66	\$100.91
095460	9/16 - 1"	8 Piece, Black Metal Index	247.61	235.82	225.10	215.32	

S & D Drill Bit Extension

- Includes an Allen Wrench
- For use with all S & D Type drills with 1/2” shank



ITEM NO.	BORE/SHANK	EXT LENGTH	OAL (INS)	1	3	6	12
834296	1/2	6"	7-1/2	\$37.15	\$35.20	\$33.44	\$31.85

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Jobber Length
METRIC

- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured to NAS 907B specification from Premium Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Will out-perform cobalt drill bits in materials such as work-hardening grades of stainless steel
- Withstands substantially higher drilling temperatures while maintaining sharpness



TYPE S & D DRILL BITS						PRICE EACH			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	10	30	60	120
253010	0.70	1-1/4	25/64	Round	10	\$2.42	\$2.29	\$2.18	\$2.07
253020	0.80	1-3/8	1/2	Round	10	1.71	1.62	1.54	1.46
253030	0.85	1-1/2	5/8	Round	10	1.61	1.53	1.45	1.38
253040	0.90	1-1/2	5/8	Round	10	1.24	1.17	1.11	1.06
253050	0.95	1-1/2	5/8	Round	10	1.24	1.17	1.11	1.06
253060	0.98	1-1/2	5/8	Round	10	1.24	1.17	1.11	1.06
253070	1.00	1-5/8	11/16	Round	10	1.15	1.09	1.04	0.99
253080	1.05	1-5/8	11/16	Round	10	1.15	1.09	1.04	0.99
253090	1.10	1-3/4	3/4	Round	10	1.15	1.09	1.04	0.99
253100	1.15	1-3/4	3/4	Round	10	1.15	1.09	1.04	0.99
253110	1.18	1-3/4	3/4	Round	10	1.15	1.09	1.04	0.99
253120	1.20	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253130	1.25	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253140	1.30	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253150	1.35	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253160	1.40	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253170	1.45	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253180	1.50	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253190	1.55	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253200	1.60	1-7/8	7/8	Round	10	1.15	1.09	1.04	0.99
253210	1.65	2	1	Round	10	1.15	1.09	1.04	0.99
253220	1.70	2	1	Round	10	1.15	1.09	1.04	0.99
253230	1.75	2	1	Round	10	1.15	1.09	1.04	0.99
253240	1.80	2	1	Round	10	1.15	1.09	1.04	0.99
253250	1.90	2	1	Round	10	1.15	1.09	1.04	0.99
253260	2.00	2	1	Round	10	1.01	0.96	0.91	0.87
253270	2.05	2-1/8	1-5/32	Round	10	1.10	1.04	0.99	0.94
253280	2.10	2-1/8	1-5/32	Round	10	1.10	1.04	0.99	0.94
253290	2.20	2-1/4	1-1/4	Round	10	1.10	1.04	0.99	0.94
253300	2.30	2-1/4	1-1/4	Round	10	1.10	1.04	0.99	0.94
253310	2.40	2-23/64	1-3/8	Round	10	1.10	1.04	0.99	0.94
253320	2.50	2-23/64	1-3/8	Round	10	1.10	1.04	0.99	0.94
253330	2.60	2-1/2	1-29/64	Round	10	1.10	1.04	0.99	0.94
253340	2.70	2-1/2	1-15/32	Round	10	1.10	1.04	0.99	0.94
253350	2.80	2-5/8	1-1/2	Round	10	1.10	1.04	0.99	0.94
253360	2.90	2-3/4	1-5/8	Round	10	1.01	0.96	0.91	0.87
253370	3.00	2-3/4	1-5/8	Round	10	1.01	0.96	0.91	0.87
253380	3.10	2-3/4	1-5/8	Round	10	1.13	1.07	1.01	0.96
253390	3.20	2-3/4	1-5/8	Round	10	1.18	1.12	1.06	1.01
253400	3.30	2-7/8	1-3/4	Round	10	1.18	1.12	1.06	1.01
253410	3.40	2-7/8	1-3/4	Round	10	1.18	1.12	1.06	1.01
253420	3.50	2-7/8	1-3/4	Round	10	1.22	1.16	1.10	1.05
253430	3.60	3	1-7/8	Round	10	1.22	1.16	1.10	1.05
253440	3.70	3	1-7/8	Round	10	1.22	1.16	1.10	1.05

TYPE S & D DRILL BITS						PRICE EACH			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	10	30	60	120
253450	3.80	3	1-7/8	Round	10	\$1.25	\$1.18	\$1.13	\$1.07
253460	3.90	3-1/8	2	Round	10	1.25	1.18	1.13	1.13
253470	4.00	3-1/4	2-1/8	Round	10	1.26	1.20	1.14	1.08
253480	4.10	3-1/4	2-1/8	Round	10	1.33	1.26	1.20	1.14
253490	4.20	3-1/4	2-1/8	Round	10	1.35	1.28	1.21	1.15
253500	4.30	3-1/4	2-1/8	Round	10	1.35	1.28	1.21	1.21
253510	4.40	3-3/8	2-13/64	Round	10	1.49	1.41	1.34	1.27
253520	4.50	3-3/8	2-13/64	Round	10	1.57	1.49	1.41	1.35
253530	4.60	3-3/8	2-13/64	Round	10	1.60	1.51	1.44	1.37
253540	4.70	3-1/2	2-21/64	Round	10	1.65	1.57	1.49	1.42
253550	4.80	3-1/2	2-21/64	Round	10	1.71	1.62	1.54	1.46
253560	4.90	3-5/8	2-7/16	Round	10	1.76	1.67	1.59	1.51
253570	5.00	3-5/8	2-7/16	Round	10	1.76	1.67	1.59	1.51
253580	5.10	3-5/8	2-7/16	Round	10	1.81	1.71	1.63	1.55
253590	5.20	3-3/4	2-1/2	Round	10	1.86	1.76	1.68	1.60
253600	5.30	3-3/4	2-1/2	Round	10	1.89	1.79	1.70	1.62
253610	5.40	3-3/4	2-1/2	Round	10	1.93	1.83	1.74	1.65
253620	5.50	3-3/4	2-1/2	Round	10	1.89	1.79	1.70	1.62
253630	5.60	3-7/8	2-5/8	Round	10	2.10	1.99	1.89	1.80
253640	5.70	3-7/8	2-5/8	Round	10	2.10	1.99	1.89	1.80
253650	5.80	3-7/8	2-5/8	Round	10	2.13	2.01	1.91	1.82
253660	5.90	3-7/8	2-5/8	Round	10	2.11	2.00	1.90	1.81
253670	6.00	4	2-3/4	Round	10	2.11	2.00	1.90	1.81
253680	6.10	4	2-3/4	Round	10	2.17	2.05	1.95	1.86
253690	6.20	4	2-3/4	Round	10	2.33	2.21	2.10	2.00
253700	6.30	4	2-3/4	Round	10	2.33	2.21	2.10	2.00
253710	6.40	4-1/8	2-7/8	Round	10	2.54	2.41	2.29	2.18
253720	6.50	4-1/8	2-7/8	Round	10	2.50	2.37	2.25	2.14
253730	6.60	4-1/8	2-7/8	Round	10	2.58	2.45	2.33	2.21
253740	6.70	4-1/8	2-7/8	Round	10	2.54	2.41	2.29	2.18
253750	6.80	4-1/8	2-7/8	Round	10	2.72	2.58	2.45	2.33
253760	6.90	4-1/8	2-7/8	Round	10	2.76	2.62	2.49	2.37
253770	7.00	4-1/8	2-7/8	Round	10	2.72	2.58	2.45	2.33
253780	7.10	4-1/4	2-61/64	Round	10	3.04	2.88	2.74	2.61
253790	7.20	4-1/4	2-61/64	Round	10	3.08	2.92	2.78	2.64
253800	7.30	4-1/4	2-61/64	Round	10	3.15	2.99	2.84	2.70
253810	7.40	4-3/8	3	Round	10	3.21	3.04	2.89	2.75
						5	15	30	60
253820	7.50	4-3/8	3	Round	5	3.18	3.01	2.86	2.73
253830	7.60	4-3/8	3	Round	5	3.38	3.20	3.04	2.89
253840	7.70	4-1/2	3-3/16	Round	5	3.49	3.30	3.14	2.99
253850	7.80	4-1/2	3-3/16	Round	5	3.49	3.30	3.14	2.99
253860	7.90	4-1/2	3-3/16	Round	5	3.54	3.36	3.19	3.04
253870	8.00	4-1/2	3-3/16	Round	5	3.64	3.45	3.28	3.12

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Jobber Length
METRIC (continued)

METRIC DRILL BITS – JOBBER LENGTH – ROUND SHANK						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	5	15	30	60
253880	8.10	4-9/16	3-5/16	Round	5	\$3.93	\$3.72	\$3.54	\$3.37
253890	8.20	4-9/16	3-5/16	Round	5	3.93	3.72	3.54	3.37
253900	8.30	4-9/16	3-5/16	Round	5	4.00	3.79	3.60	3.43
253910	8.40	4-3/4	3-27/64	Round	5	4.00	3.79	3.60	3.43
253920	8.50	4-3/4	3-27/64	Round	5	4.13	3.91	3.71	3.54
253930	8.60	4-3/4	3-27/64	Round	5	4.04	3.83	3.64	3.46
253940	8.70	4-3/4	3-27/64	Round	5	4.29	4.07	3.86	3.68
253950	8.80	4-7/8	3-1/2	Round	5	4.43	4.20	3.99	3.80
253960	8.90	4-7/8	3-1/2	Round	5	4.68	4.43	4.21	4.01
253970	9.00	4-7/8	3-1/2	Round	5	4.68	4.43	4.21	4.01
253980	9.10	4-7/8	3-1/2	Round	5	5.10	4.83	4.59	4.37
253990	9.20	5	3-5/8	Round	5	5.10	4.83	4.59	4.37
254000	9.30	5	3-5/8	Round	5	5.10	4.83	4.59	4.37
254010	9.40	5	3-5/8	Round	5	5.10	4.83	4.59	4.37
254020	9.50	5	3-5/8	Round	5	4.94	4.68	4.45	4.24
254030	9.60	5-1/8	3-3/4	Round	5	5.33	5.05	4.80	4.57
254040	9.70	5-1/8	3-3/4	Round	5	5.33	5.05	4.80	4.57
254050	9.80	5-1/8	3-3/4	Round	5	5.56	5.26	5.00	4.76
254060	9.90	5-1/8	3-3/4	Round	5	5.56	5.26	5.00	4.76
254070	10.00	5-1/8	3-3/4	Round	5	5.67	5.37	5.10	4.86
254080	10.10	5-1/8	3-3/4	Round	5	5.69	5.39	5.13	4.88
254090	10.20	5-15/64	3-7/8	Round	5	6.08	5.76	5.48	5.21
254100	10.30	5-15/64	3-7/8	Round	5	6.56	6.21	5.90	5.62
254110	10.40	5-15/64	3-7/8	Round	5	6.56	6.21	5.90	5.62
254120	10.50	5-15/64	3-7/8	Round	5	6.56	6.21	5.90	5.62

METRIC DRILL BITS – JOBBER LENGTH – ROUND SHANK						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	5	15	30	60
254130	10.60	5-15/64	3-7/8	Round	5	\$6.58	\$6.24	\$5.93	\$5.64
254140	10.70	5-1/4	3-5/8	Round	5	6.72	6.37	6.05	5.76
254150	10.80	5-1/2	4-1/16	Round	5	6.83	6.47	6.15	5.86
254160	10.90	5-1/2	4-1/16	Round	5	6.96	6.59	6.26	5.96
254170	11.00	5-1/2	4-1/16	Round	5	6.94	6.58	6.25	5.95
254180	11.10	5-1/2	4-1/16	Round	5	7.00	6.63	6.30	6.00
254190	11.20	5-5/8	4-7/32	Round	5	7.11	6.74	6.40	6.10
254200	11.30	5-5/8	4-7/32	Round	5	8.31	7.87	7.48	7.12
254210	11.40	5-5/8	4-7/32	Round	5	7.31	6.92	6.58	6.26
254220	11.50	5-5/8	4-7/32	Round	5	7.51	7.12	6.76	6.44
254230	11.60	5-5/8	4-7/32	Round	5	7.40	7.01	6.66	6.35
254240	11.70	5-3/4	4-11/32	Round	5	7.63	7.22	6.86	6.54
254250	11.80	5-3/4	4-11/32	Round	5	7.63	7.22	6.86	6.54
254260	11.90	5-3/4	4-11/32	Round	5	7.83	7.42	7.05	6.71
254270	12.00	5-7/8	4-3/8	Round	5	7.89	7.47	7.10	6.76
254280	12.10	5-7/8	4-3/8	Round	5	7.63	7.22	6.86	6.54
254290	12.20	5-7/8	4-3/8	Round	5	7.63	7.22	6.86	6.54
254300	12.30	5-7/8	4-3/8	Round	5	8.15	7.72	7.34	6.99
254310	12.40	5-7/8	4-3/8	Round	5	8.15	7.72	7.34	6.99
254320	12.50	6	4-1/2	Round	5	8.36	7.92	7.53	7.17
254330	12.60	6	4-1/2	Round	5	8.32	7.88	7.49	7.13
254340	12.70	6	4-1/2	Round	5	8.51	8.07	7.66	7.30
254350	12.80	6	4-1/2	Round	5	8.68	8.22	7.81	7.44
254360	12.90	6	4-1/2	Round	5	8.83	8.37	7.95	7.57
254370	13.00	6	4-1/2	Round	5	9.58	9.08	8.63	8.21

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bit Sets – Jobber Length **METRIC**

- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured to NAS 907B specification from Premium Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Out-performs cobalt drill bits in materials such as work-hardening grades of stainless steel
- Withstands substantially higher drilling temperatures while maintaining sharpness



* Metal index
may be black

SP-13M, 13 Piece **METRIC** Drill Bit Set

- Includes metric sizes 1.0 – 7.0mm x .5mm increments
- Metal index conveniently marked with the diameter decimal equivalents
- Part of the popular MAGNUM™ family

SP-25M, 25 Piece **METRIC** Drill Bit Set

- Includes metric sizes 1.0 – 13.0mm x .5mm increments
- Black metal index conveniently marked with the diameter decimal equivalents
- Part of the popular MAGNUM™ family

SP-41M, 41 Piece **METRIC** Drill Bit Set

- Includes metric sizes 6.0 – 10.0mm x .1mm increments
- Metal index conveniently marked with the diameter decimal equivalents
- Part of the popular MAGNUM™ family

METRIC MAGNUM™ DRILL BIT SETS		PRICE PER SET			
ITEM NO.	DESCRIPTION	1	3	6	12
254410	SP-11M, Sizes 1.0 – 6.0mm x .5mm	\$21.13	\$20.01	\$19.01	\$18.11
254420	SP-13M, Sizes 1.0 – 7.0mm x .5mm	31.89	30.21	28.70	27.33
254430	SP-19M, Sizes 1.0 – 10.0mm x .5mm	57.74	54.70	51.96	49.49
254440	SP-25M, Sizes 1.0 – 13.0mm x .5mm	104.08	98.68	93.80	89.39
254450	SP-41M, Sizes 6.0 – 10.0mm x .1mm	191.38	181.44	172.48	164.36
254460	SP-118M, Sizes 1.0 – 2.05mm x .05mm, 2.10 – 10.0mm x .1mm, + 10.2, 10.5, 10.8, 11.0, 11.2, 11.5, 11.8, 12.0, 12.2, 12.5, 12.8, & 13.0	404.06	384.23	366.26	349.89

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Jobber Length **LEFT-HAND**



LF-8, 8 Piece Left-Hand Drill Bit Set

- Includes LH drill bit sizes 1/16 – 1/2" x 16th increments
- Black metal index conveniently marked with the diameter decimal equivalents
- A popular farm shop or DIY set!

LF-12, 12 Piece Left-Hand Drill Bit Set

- Includes LH drill bit sizes 1/16 – 5/16" x 32nd increments, + 3/8, 7/16, & 1/2"
- Black metal index conveniently marked with the diameter decimal equivalents

LF-13, 13 Piece Left-Hand Drill Bit Set

- Don't need all those large, expensive sizes? This is the set for you!
- Includes LH drill bit sizes 1/16 – 1/4" x 64th increments
- Black metal index conveniently marked with the diameter decimal equivalents

LF-15, 15 Piece Left-Hand Drill Bit Set

- Includes LH drill bit sizes 1/16 – 1/2" x 32nd increments
- Black metal index conveniently marked with the diameter decimal equivalents

* A good mechanic's set!

LF-17, 17 Piece Left-Hand Drill Bit Set

- Includes LH drill bit sizes 1/16 – 1/4" x 64th increments & 5/16 - 1/2" x 16th increments
- Black metal index conveniently marked with the diameter decimal equivalents

* Pricing on next page

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits –
Jobber Length **LEFT-HAND** (continued)

* **Set Pricing for this page and previous page**

LEFT-HAND MAGNUM™ DRILL BIT SETS		PRICE PER SET			
ITEM NO.	DESCRIPTION	1	3	6	12
924331	LF-13, Sizes 1/16 – 1/4" x 64ths	\$67.44	\$63.89	\$60.70	\$57.81
924332	LF-8, Sizes 1/16 - 1/2" x 16ths	118.47	112.31	106.77	101.74
924333	LF-12, 1/16 – 5/16 x 32nds + 3/8, 7/16, & 1/2"	138.49	131.30	124.81	118.94
		1	2	4	6
924334	LF-17, 1/16 – 1/4 x 64ths + 5/16 – 1/2" x 16ths	159.25	150.97	143.52	136.76
924335	LF-15, 1/16" - 1/2" x 32nds	198.49	188.44	179.36	171.11
924336	LF-29, 1/16" - 1/2" x 1/64ths, Metal Index	364.59	346.36	329.87	314.88
924337	LF-29P, 1/16" - 1/2" x 1/64ths – Ultra-Dex	366.05	347.75	331.19	316.14

LF-29, 29 Piece Left-Hand Drill Bit Set
(not pictured)

- The ultimate set for the person who wants to be fully equipped for every emergency!
- Includes LH drill bit sizes 1/16 – 1/2" x 64th increments
- Black metal index conveniently marked with the diameter decimal equivalents

LF-29P, 29 Piece Left-Hand Drill Bit Set
(not pictured)

- The ultimate set for the person who wants to be fully equipped for every emergency!
- Includes LH drill bit sizes 1/16 – 1/2" x 64th increments
- Unbreakable, weather-proof, canister keeps bits from harm. Features pocket clip and screw-on cap with rubber washer.

MAGNUM™ Super Premium Drill Bits – Jobber Length **LEFT-HAND**

- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured from Premium Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Precision ground point, flutes, body, clearance and drill diameter for the ultimate in accuracy and performance
- Ideal for removing broken studs



* **These drill bits are available CARDED as well.**

LEFT HAND MAGNUM™ DRILL BITS – JOBBER LENGTH						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	SHANK DIA	SHANK TYPE	PKG QTY	6	18	36	54
924300	1/16	1-7/8	7/8	Round	6	\$4.00	\$3.79	\$3.60	\$3.43
924301	5/64	2	1	Round	6	4.00	3.79	3.60	3.43
924302	3/32	2-1/4	1-1/4	Round	6	4.00	3.79	3.60	3.43
924303	7/64	2-5/8	1-1/2	Round	6	4.00	3.79	3.60	3.43
924304	1/8	2-3/4	1-5/8	Round	6	4.00	3.79	3.60	3.43
924305	9/64	2-7/8	1-3/4	Round	6	4.00	3.79	3.60	3.43
924306	5/32	3-1/8	2	Round	6	4.65	4.41	4.19	3.99
924307	11/64	3-1/4	2-1/8	Round	6	5.36	5.08	4.83	4.60
924308	3/16	3-1/2	2-5/16	Round	6	5.60	5.30	5.04	4.80
924309	13/64	3-5/8	2-7/16	Round	6	6.26	5.93	5.64	5.37
924310	7/32	3-3/4	2-1/2	Round	6	6.69	6.34	6.03	5.74
924311	15/64	3-7/8	2-5/8	Round	6	7.15	6.78	6.44	6.13
924312	1/4	4	2-3/4	Round	6	7.74	7.33	6.96	6.63
924313	17/64	4-1/8	2-7/8	Round	6	8.22	7.79	7.40	7.05
924314	9/32	4-1/4	2-15/16	Round	6	9.83	9.32	8.85	8.43

LEFT HAND MAGNUM™ DRILL BITS – JOBBER LENGTH						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	SHANK DIA	SHANK TYPE	PKG QTY	3	9	18	27
924315	19/64	4-3/8	3-1/16	Round	3	\$11.17	\$10.58	\$10.05	\$9.57
924316	5/16	4-1/2	3-3/16	Round	3	11.74	11.12	10.56	10.06
924317	21/64	4-5/8	3-5/16	Round	3	12.71	12.04	11.44	10.89
924318	11/32	4-3/4	3-7/16	Round	3	14.90	14.12	13.41	12.77
924319	23/64	4-7/8	3-1/2	Round	3	16.74	15.86	15.06	14.35
924320	3/8	5	3-5/8	Round	3	18.24	17.28	16.41	15.63
924321	25/64	5-1/8	3-3/4	Round	3	19.71	18.67	17.74	16.89
924322	13/32	5-1/4	3-7/8	Round	3	21.10	19.99	18.99	18.08
924323	27/64	5-3/8	3-15/16	Round	3	22.31	21.13	20.08	19.12
924324	7/16	5-1/2	4-1/16	Round	3	23.88	22.62	21.49	20.46
924325	29/64	5-5/8	4-3/16	Round	3	26.69	25.29	24.03	22.88
924326	15/32	5-3/4	4-5/16	Round	3	27.01	25.59	24.31	23.15
924327	31/64	5-7/8	4-3/8	Round	3	29.74	28.17	26.76	25.49
924328	1/2	6	4-1/2	Round	3	30.36	28.76	27.33	26.02



General Purpose Drill Bits – Jobber Length – Fractional

- Widely used in general purpose applications
- Designed for a wide range of operating conditions and materials
- Bright finish
- 118° point

GENERAL PURPOSE – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	DIA (INS)	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
151201	1/64	3/4	3/16	Round	12	\$3.29	\$3.12	\$2.96	
151202	1/32	1-3/8	1/2	Round	12	2.03	1.92	1.83	
151203	3/64	1-3/4	3/4	Round	12	0.80	0.76	0.72	
151204	1/16	1-7/8	7/8	Round	12	0.65	0.62	0.59	0.56
151205	5/64	2	1	Round	12	0.65	0.62	0.59	0.56
151206	3/32	2-1/4	1-1/4	Round	12	0.65	0.62	0.59	0.56
151207	7/64	2-5/8	1-1/2	Round	12	0.67	0.63	0.60	0.57
151208	1/8	2-3/4	1-5/8	Round	12	0.72	0.68	0.65	0.62
151209	9/64	2-7/8	1-3/4	Round	12	0.80	0.76	0.72	0.69
151210	5/32	3-1/8	2	Round	12	0.84	0.80	0.76	0.72
151211	11/64	3-1/4	2-1/8	Round	12	0.92	0.87	0.83	0.79
151212	3/16	3-1/2	2-5/16	Round	12	1.05	1.00	0.95	0.91
151213	13/64	3-5/8	2-7/16	Round	12	1.22	1.16	1.10	1.05
151214	7/32	3-3/4	2-1/2	Round	12	1.28	1.22	1.16	1.10
151215	15/64	3-7/8	2-5/8	Round	12	1.39	1.32	1.25	1.20
151216	1/4	4	2-3/4	Round	12	1.56	1.48	1.41	1.34
151217	17/64	4-1/8	2-7/8	Round	12	2.01	1.91	1.81	1.73
151218	9/32	4-1/4	2-15/16	Round	12	2.15	2.04	1.94	1.85
						6	30	60	120
151219	19/64	4-3/8	3-1/16	Round	6	2.35	2.23	2.12	2.02
151220	5/16	4-1/2	3-3/16	Round	6	2.41	2.29	2.18	2.08
151221	21/64	4-5/8	3-5/16	Round	6	2.76	2.62	2.49	2.37
151222	11/32	4-3/4	3-7/16	Round	6	3.08	2.92	2.78	2.66
151223	23/64	4-7/8	3-1/2	Round	6	3.40	3.23	3.07	2.93

GENERAL PURPOSE – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	DIA (INS)	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
151224	3/8	5	3-5/8	Round	6	\$3.49	\$3.32	\$3.16	\$3.01
151225	25/64	5-1/8	3-3/4	Round	6	4.07	3.86	3.66	3.49
151226	13/32	5-1/4	3-7/8	Round	6	4.00	3.80	3.61	3.45
151227	27/64	5-3/8	3-15/16	Round	6	4.43	4.20	4.00	3.82
151228	7/16	5-1/2	4-1/16	Round	6	4.75	4.51	4.29	4.09
151229	29/64	5-5/8	4-3/16	Round	6	5.52	5.24	4.99	4.76
151230	15/32	5-3/4	4-5/16	Round	6	5.60	5.32	5.06	4.83
151231	31/64	5-7/8	4-3/8	Round	6	5.84	5.54	5.28	5.03
151232	1/2	6	4-1/2	Round	6	6.17	5.84	5.55	5.29
						1	5	10	20
151233	33/64	6-5/8	4-13/16	Round	1	12.55	11.91	11.34	10.82
151234	17/32	6-5/8	4-13/16	Round	1	13.13	12.47	11.87	11.32
151235	35/64	6-5/8	4-13/16	Round	1	14.20	13.48	12.83	12.24
151236	9/16	6-5/8	4-13/16	Round	1	14.88	14.13	13.45	12.83
151237	37/64	6-5/8	4-13/16	Round	1	14.92	14.16	13.48	12.86
151238	19/32	7-1/8	5-3/16	Round	1	15.31	14.53	13.83	13.20
151239	39/64	7-1/8	5-3/16	Round	1	16.83	15.97	15.20	14.51
151240	5/8	7-1/8	5-3/16	Round	1	16.43	15.59	14.84	14.16
151241	41/64	7-1/8	5-3/16	Round	1	17.40	16.52	15.72	15.00
151242	21/32	7-1/8	5-3/16	Round	1	17.37	16.49	15.70	14.98
151243	43/64	7-5/8	5-5/8	Round	1	20.43	19.39	18.46	17.61
151244	11/16	7-5/8	5-5/8	Round	1	19.96	18.95	18.04	17.21
151248	3/4	7-5/8	5-5/8	Round	1	22.44	21.26	20.20	19.24

* **Note: These are not the MAGNUM series**

General Purpose Drill Bits – Jobber Length – Letter Sizes

JOBBER LENGTH DRILL BITS – LETTER						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
151451	A	3-7/8	2-5/8"	Round	12	\$1.56	\$1.48	\$1.41	\$1.34
151452	B	4	2-3/4	Round	12	1.56	1.48	1.41	1.34
151453	C	4	2-3/4	Round	12	1.52	1.44	1.37	1.31
151454	D	4	2-3/4	Round	12	1.52	1.44	1.37	1.31
151455	E	4	2-3/4	Round	12	1.31	1.48	1.41	1.34
151456	F	4-1/8	2-7/8	Round	12	1.84	1.75	1.66	1.59
151457	G	4-1/8	2-7/8	Round	12	1.97	1.87	1.78	1.70
151458	H	4-1/8	2-7/8	Round	12	2.01	1.91	1.82	1.74
151459	I	4-1/8	2-7/8	Round	12	2.01	1.91	1.82	1.74
151460	J	4-1/8	2-7/8	Round	12	2.27	2.15	2.05	1.95
151461	K	4-1/4	2-15/16	Round	12	2.27	2.15	2.15	1.95
151462	L	4-1/4	2-15/16	Round	12	2.52	2.39	2.28	2.17

JOBBER LENGTH DRILL BITS – LETTER						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
151463	M	4-3/8	3-1/16	Round	6	\$2.65	\$2.52	\$2.40	\$2.29
151464	N	4-3/8	3-1/16	Round	6	2.65	2.65	2.40	2.29
151465	O	4-1/2	3-3/16	Round	6	2.67	2.53	2.41	2.30
151466	P	4-5/8	3-5/16	Round	6	2.91	2.76	2.63	2.51
151467	Q	4-3/4	3-7/16	Round	6	2.97	2.82	2.69	2.56
151468	R	4-3/4	3-7/16	Round	6	3.11	2.95	2.81	2.68
151469	S	4-7/8	3-1/2	Round	6	3.57	3.39	3.23	3.08
151470	T	4-7/8	3-1/2	Round	6	3.57	3.39	3.23	3.08
151471	U	5	3-5/8	Round	6	3.61	3.43	3.27	3.11
151472	V	5	3-5/8	Round	6	3.67	3.48	3.31	3.16
151473	W	5-1/8	3-3/4	Round	6	4.07	3.86	3.67	3.5



General Purpose Drill Bits – Jobber Length – Wire Sizes

GENERAL PURPOSE – WIRE SIZES						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
151275	1	3-7/8	2-5/8	Round	12	\$1.58	\$1.50	\$1.43	\$1.36
151276	2	3-7/8	2-5/8	Round	12	1.58	1.50	1.43	1.36
151277	3	3-3/4	2-1/2	Round	12	1.52	1.44	1.37	1.31
151278	4	3-3/4	2-1/2	Round	12	1.58	1.50	1.43	1.36
151279	5	3-3/4	2-1/2	Round	12	1.58	1.50	1.43	1.36
151280	6	3-3/4	2-1/2	Round	12	1.52	1.44	1.37	1.31
151281	7	3-5/8	2-7/16	Round	12	1.31	1.06	1.01	0.97
151282	8	3-5/8	2-7/16	Round	12	1.12	1.06	1.01	0.97
151283	9	3-5/8	2-7/16	Round	12	1.29	1.22	1.16	1.11
151284	10	3-5/8	2-7/16	Round	12	1.24	1.18	1.12	1.07
151285	11	3-1/2	2-5/16	Round	12	1.24	1.18	1.12	1.07
151286	12	3-1/2	2-5/16	Round	12	1.24	1.18	1.12	1.07
151287	13	3-1/2	2-5/16	Round	12	1.09	1.04	0.99	0.94
151288	14	3-3/8	2-3/16	Round	12	1.09	1.04	0.99	0.94
151289	15	3-3/8	2-3/16	Round	12	1.09	1.04	0.99	0.94
151290	16	3-3/8	2-3/16	Round	12	1.09	1.04	0.99	0.94
151291	17	3-3/8	2-3/16	Round	12	1.09	1.04	0.99	0.94
151292	18	3-1/4	2-1/8	Round	12	0.97	0.92	0.88	0.84
151293	19	3-1/4	2-1/8	Round	12	0.97	0.92	0.88	0.84
151294	20	3-1/4	2-1/8	Round	12	0.97	0.92	0.88	0.84
151295	21	3-1/4	2-1/8	Round	12	0.88	0.84	0.80	0.76
151296	22	3-1/8	2	Round	12	0.88	0.84	0.80	0.76
151297	23	3-1/8	2	Round	12	0.88	0.84	0.80	0.76
151298	24	3-1/8	2	Round	12	0.88	0.84	0.80	0.76
151299	25	3	1-7/8	Round	12	0.80	0.76	0.72	0.69
151300	26	3	1-7/8	Round	12	0.80	0.76	0.72	0.69
151301	27	3	1-7/8	Round	12	0.80	0.76	0.72	0.69
151302	28	2-7/8	1-3/4	Round	12	0.80	0.76	0.72	0.69
151303	29	2-7/8	1-3/4	Round	12	0.80	0.76	0.72	0.69
151304	30	2-3/4	1-5/8	Round	12	0.80	0.76	0.72	0.69
151305	31	2-3/4	1-5/8	Round	12	0.75	0.71	0.67	0.64
151306	32	2-3/4	1-5/8	Round	12	0.75	0.71	0.67	0.64
151307	33	2-5/8	1-1/2	Round	12	0.75	0.71	0.67	0.64
151308	34	2-5/8	1-1/2	Round	12	0.75	0.71	0.67	0.64
151309	35	2-5/8	1-1/2	Round	12	0.72	0.68	0.65	0.62
151310	36	2-1/2	1-7/16	Round	12	0.72	0.68	0.65	0.62
151311	37	2-1/2	1-7/16	Round	12	0.72	0.68	0.65	0.62
151312	38	2-1/2	1-7/16	Round	12	0.72	0.68	0.65	0.62
151313	39	2-3/8	1-3/8	Round	12	0.72	0.68	0.65	0.62
151314	40	2-3/8	1-3/8	Round	12	0.72	0.68	0.65	0.62
151315	41	2-3/8	1-3/8	Round	12	0.72	0.68	0.65	0.62
151316	42	2-1/4	1-1/4	Round	12	0.73	0.70	0.66	0.63
151317	43	2-1/4	1-1/4	Round	12	0.73	0.70	0.66	0.63
151318	44	2-1/8	1-1/8	Round	12	0.73	0.70	0.66	0.63
151319	45	2-1/8	1-1/8	Round	12	0.73	0.70	0.66	0.63
151320	46	2-1/8	1-1/8	Round	12	0.73	0.70	0.66	0.63
151321	47	2	1	Round	12	0.73	0.70	0.66	0.63
151322	48	2	1	Round	12	0.73	0.70	0.66	0.63
151323	49	2	1	Round	12	0.73	0.70	0.66	0.63

* **Note: These are not the MAGNUM series**

JOBBER LENGTH DRILL BITS – LETTER						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
151324	50	2	1	Round	12	\$0.73	\$0.70	\$0.66	\$0.63
151325	51	2	1	Round	12	0.73	0.70	0.66	0.63
151326	52	1-7/8	7/8	Round	12	0.73	0.70	0.66	0.63
151327	53	1-7/8	7/8	Round	12	0.80	0.76	0.72	0.69
151328	54	1-7/8	7/8	Round	12	0.80	0.76	0.72	0.69
151329	55	1-7/8	7/8	Round	12	0.80	0.76	0.72	0.69
151330	56	1-3/4	3/4	Round	12	0.80	0.76	0.72	0.69
151331	57	1-3/4	3/4	Round	12	0.81	0.77	0.73	0.70
151332	58	1-5/8	11/16	Round	12	0.81	0.77	0.73	0.70
151333	59	1-5/8	11/16	Round	12	0.81	0.77	0.73	0.70
151334	60	1-5/8	11/16	Round	12	0.81	0.77	0.73	0.70
151335	61	1-5/8	11/16	Round	12	1.04	0.99	0.94	0.90
151338	62	1-1/2	5/8	Round	12	1.04	0.99	0.94	0.90
151341	63	1-1/2	5/8	Round	12	1.04	0.99	0.94	0.90
151344	64	1-1/2	5/8	Round	12	1.04	0.99	0.94	0.90
151347	65	1-1/2	5/8	Round	12	1.04	0.99	0.94	0.90
151350	66	1-3/8	1/2	Round	12	1.95	1.85	1.76	1.68
151353	67	1-3/8	1/2	Round	12	1.95	1.85	1.76	1.68
151356	68	1-3/8	1/2	Round	12	1.95	1.85	1.76	1.68
151359	69	1-3/8	1/2	Round	12	2.25	2.14	2.04	1.94
151362	70	1-1/4	3/8	Round	12	2.25	2.14	2.04	1.94
151365	71	1-1/4	3/8	Round	12	2.68	2.54	2.42	2.31
151368	72	1-1/8	5/16	Round	12	2.68	2.54	2.42	2.31
151371	73	1-1/8	5/16	Round	12	2.68	2.54	2.42	2.31
151374	74	1	1/4	Round	12	1.68	1.59	1.52	1.45
151377	75	1	1/4	Round	12	2.68	2.54	2.42	2.31
151380	76	7/8	3/16	Round	12	1.68	1.59	1.52	1.45
151383	77	7/8	3/16	Round	12	2.68	2.54	2.42	2.31
151386	78	7/8	3/16	Round	12	2.68	2.54	2.42	2.31
151389	79	3/4	1/8	Round	12	3.16	3.00	2.86	2.72
151392	80	3/4	1/8	Round	12	3.16	3.16	2.86	2.72
151395	81	3/4	1/8	Round	12	4.53	4.30	4.10	3.91
151398	82	3/4	1/8	Round	12	4.53	4.30	4.10	3.91
151401	83	3/4	1/8	Round	12	4.96	4.71	4.48	4.28
151404	84	3/4	3/32	Round	12	4.96	4.71	4.48	4.28
151407	85	3/4	3/32	Round	12	4.96	4.71	4.48	4.28
151410	86	3/4	3/32	Round	12	5.28	5.01	4.77	4.55
151413	87	3/4	3/32	Round	12	5.28	5.01	4.77	4.55
151416	88	3/4	5/64	Round	12	6.72	6.38	6.07	5.79
151419	89	3/4	5/64	Round	12	6.72	6.38	6.07	5.79
151422	90	3/4	5/64	Round	12	6.72	6.38	6.07	5.79
151425	91	3/4	5/64	Round	12	6.72	6.38	6.07	5.79
151428	92	3/4	1/16	Round	12	6.72	6.38	6.07	5.79
151431	93	3/4	1/16	Round	12	6.72	6.38	6.07	5.79
151434	94	3/4	1/16	Round	12	8.28	7.86	7.48	7.14
151437	95	3/4	1/16	Round	12	8.28	7.86	7.48	7.14
151440	96	3/4	1/16	Round	12	9.23	8.76	8.34	7.95
151443	97	3/4	1/16	Round	12	15.37	14.59	13.89	13.25

General Purpose Drill Bits – Jobber Length – Sets

- Widely used in general purpose applications
- Designed for a wide range of operating conditions and materials
- Bright finish
- 118° point

* **Note: These are not the MAGNUM series**



J-13



J-26

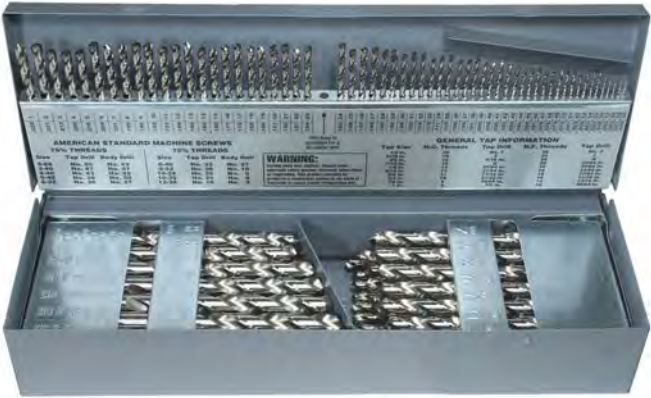


J-29



J-60

- J-10, 10 piece set includes fractional sizes 1/16 – 5/32" x 64th increments, plus 3/16, 7/32, and 1/4"
- J-11, 11 piece set includes fractional sizes 1/16 – 3/8" x 32nds
- J-13, 13 piece set includes fractional sizes 1/16 – 1/4" x 64ths
- J-15, 15 piece set includes fractional sizes 1/16 – 1/2" x 32nds
- J-20, 20 piece set includes wire sizes #61 – #80
- J-21, 21 piece set includes fractional sizes 1/16 – 3/8" x 64ths
- J-26, 26 piece set includes letter sizes A – Z
- J-29, 29 piece set includes fractional sizes 1/16 – 1/2" x 64ths
- J-60, 60 piece set includes wire sizes #1 – #60
- J-115, 115 piece set includes fractional sizes 1/16 – 1/2", letter sizes A – Z, and wire sizes 1 - 60



J-115

ITEM NO.	DESCRIPTION	1	6	12	24
151481	J-10, 10 Pc Set, Metal Index	\$11.28	\$10.71	\$10.19	\$9.72
151483	J-11, 11 Pc Set, Metal Index	23.03	21.86	20.81	19.85
151485	J-13, 13 Pc Set, Metal Index	15.96	15.15	14.42	13.76
151487	J-15, 15 Pc Set, Metal Index	44.17	41.94	39.92	38.08
151489	J-20, 20 Pc Set, Metal Index	43.53	41.33	39.34	37.53
151491	J-21, 21 Pc Set, Metal Index	39.27	37.28	35.48	33.85
151493	J-26, 26 Pc Set, Metal Index	81.24	77.13	73.41	70.03
151495	J-29, 29 Pc Set, Metal Index	81.83	77.68	73.94	70.54
151497	J-60, 60 Pc Set, Metal Index	57.88	54.95	52.30	49.90
		1	2	4	6
151499	J-115, 115 Pc Set, Metal Index	233.57	222.04	211.59	202.08

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Screw Machine Length

*** NOTE: SCREW MACHINE length.**

- Heavy-duty construction, will not flex as easily
- 135° split point for fast penetration and accurate starting without a center punch
- Manufactured from special Hi-Molybdenum tool steel
- Black & gold finish for maximum lubricity
- Recommended for work hardening grades of stainless steel and other hard metal drilling applications
- Round shank well suited for use in collets



SCREW MACHINE LENGTH DRILL BITS – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
877001	1/16	1-5/8	5/8	Round	12	\$0.92	\$0.87	\$0.83	\$0.79
877002	5/64	1-11/16	11/16	Round	12	0.96	0.91	0.86	0.82
877003	3/32	1-3/4	3/4	Round	12	0.97	0.92	0.88	0.83
877004	7/64	1-13/16	13/16	Round	12	1.04	0.99	0.94	0.89
877005	1/8	1-7/8	7/8	Round	12	1.10	1.04	0.99	0.94
877006	9/64	1-15/16	15/16	Round	12	1.13	1.07	1.01	0.96
877007	5/32	2-1/16	1	Round	12	1.24	1.17	1.11	1.06
877008	11/64	2-1/8	1-1/16	Round	12	1.38	1.30	1.24	1.18
877009	3/16	2-3/16	1-1/8	Round	12	1.43	1.36	1.29	1.23
877010	13/64	2-1/4	1-3/16	Round	12	1.53	1.45	1.38	1.31
877011	7/32	2-3/8	1-1/4	Round	12	1.81	1.71	1.63	1.55
877012	15/64	2-7/16	1-5/16	Round	12	1.82	1.72	1.64	1.56
877013	1/4	2-1/2	1-3/8	Round	12	1.94	1.84	1.75	1.67
877014	17/64	2-5/8	1-7/16	Round	12	2.25	2.13	2.03	1.93
877015	9/32	2-11/16	1-1/2	Round	12	2.44	2.32	2.20	2.10
						6	30	60	120
877016	19/64	2-3/4	1-9/16	Round	6	2.60	2.46	2.46	2.23
877017	5/16	2-13/16	1-5/8	Round	6	2.85	2.70	2.56	2.44
877018	21/64	2-15/16	1-11/16	Round	6	3.07	2.91	2.76	2.63
877019	11/32	3	1-11/16	Round	6	3.46	3.28	3.11	2.96
877020	23/64	3-1/16	1-3/4	Round	6	4.03	3.82	3.63	3.45
877021	3/8	3-1/8	1-13/16	Round	6	4.24	4.01	3.81	3.63
877022	25/64	3-1/4	1-7/8	Round	6	4.76	4.51	4.29	4.08
877023	13/32	3-5/16	1-15/16	Round	6	5.04	4.78	4.54	4.32

SCREW MACHINE LENGTH DRILL BITS – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
877024	27/64	3-3/8	2	Round	6	\$5.46	\$5.17	\$4.91	\$4.68
877025	7/16	3-7/16	2-1/16	Round	6	5.60	5.30	5.04	4.80
877026	29/64	3-9/16	2-1/8	Round	6	6.63	6.28	5.96	5.68
877027	15/32	3-5/8	2-1/8	Round	6	7.03	6.66	6.33	6.02
877028	31/64	3-11/16	2-3/16	Round	6	7.24	6.86	6.51	6.20
877029	1/2	3-3/4	2-1/4	Round	6	7.24	6.86	6.51	6.20
						1	5	10	20
877051	33/64	3-7/8	2-3/8	Round	1	16.53	15.66	14.88	14.17
877052	17/32	3-7/8	2-3/8	Round	1	17.28	16.37	15.55	14.81
877053	35/64	4	2-1/2	Round	1	18.01	17.07	16.21	15.44
877054	9/16	4	2-1/2	Round	1	18.01	17.07	16.21	15.44
877055	37/64	4-1/8	2-5/8	Round	1	20.63	19.54	18.56	17.68
877056	19/32	4-1/8	2-5/8	Round	1	20.63	19.54	18.56	17.68
877057	39/64	4-1/4	2-3/4	Round	1	20.67	19.58	18.60	17.71
877058	5/8	4-1/4	2-3/4	Round	1	20.82	19.72	18.74	17.85
877059	41/64	4-1/2	2-7/8	Round	1	23.85	22.59	21.46	20.44
877060	21/32	4-1/2	2-7/8	Round	1	26.50	25.11	23.85	22.71
877061	43/64	4-1/2	2-7/8	Round	1	23.85	22.59	21.46	20.44
877062	11/16	4-1/2	2-7/8	Round	1	26.50	25.11	23.85	22.71
877063	45/64	4-3/4	3	Round	1	28.68	27.17	25.81	24.58
877064	23/32	4-3/4	3	Round	1	28.68	27.17	25.81	24.58
877065	47/64	5	3-1/8	Round	1	30.89	29.26	27.80	26.48
877066	3/4	5	3-1/8	Round	1	30.33	28.74	27.30	26.00

*Need larger diameter sizes? See page 28 for up to 2 1/2”!

SCREW MACHINE LENGTH DRILL BITS – LETTER						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
877101	A	2-7/16	1-5/16	Round	12	\$2.18	\$2.07	\$1.96	\$1.87
877102	B	2-1/2	1-3/8	Round	12	2.18	2.07	1.96	1.87
877103	C	2-1/2	1-3/8	Round	12	2.18	2.07	1.96	1.87
877104	D	2-1/2	1-3/8	Round	12	2.18	2.07	1.96	1.87
877105	E	2-1/2	1-3/8	Round	12	1.94	1.84	1.75	1.67
877106	F	2-5/8	1-7/16	Round	12	2.39	2.26	2.15	2.05
877107	G	2-5/8	1-7/16	Round	12	2.53	2.39	2.28	2.17
877108	H	2-11/16	1-1/2	Round	12	2.53	2.39	2.28	2.17
877109	I	2-11/16	1-1/2	Round	12	2.53	2.39	2.28	2.17
877110	J	2-11/16	1-1/2	Round	12	2.71	2.57	2.44	2.32
877111	K	2-11/16	1-1/2	Round	12	2.92	2.76	2.63	2.50
877112	L	2-3/4	1-9/16	Round	12	2.92	2.76	2.63	2.50

SCREW MACHINE LENGTH DRILL BITS – LETTER						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	6	30	60	120
877113	M	2-3/4	1-9/16	Round	6	\$3.21	\$3.04	\$2.89	\$2.75
877114	N	2-13/16	1-5/8	Round	6	3.21	3.04	3.04	2.75
877115	O	2-15/16	1-11/16	Round	6	3.21	3.04	2.89	2.75
877116	P	2-15/16	1-11/16	Round	6	3.54	3.36	3.19	3.04
877117	Q	3	1-11/16	Round	6	3.54	3.36	3.19	3.04
877118	R	3	1-11/16	Round	6	3.54	3.36	3.19	3.04
877119	S	3-1/16	1-3/4	Round	6	4.07	3.86	3.66	3.49
877120	T	3-1/16	1-3/4	Round	6	4.78	4.53	4.30	4.10
877121	U	3-1/8	1-13/16	Round	6	4.78	4.53	4.30	4.10
877122	V	3-1/4	1-7/8	Round	6	5.13	4.86	4.61	4.39
877123	W	3-1/4	1-7/8	Round	6	5.33	5.05	4.80	4.57
877124	X	3-5/16	1-15/16	Round	6	6.25	5.92	5.63	5.36
877125	Y	3-5/16	1-15/16	Round	6	7.42	7.03	6.68	6.36
877126	Z	3-3/8	2	Round	6	7.42	7.03	6.68	6.36

Our all time most popular drill bit line!

MAGNUM™ Super Premium Drill Bits – Screw Machine Length (continued)



SCREW MACHINE LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
877151	1	2-7/16	1-5/16	Round	12	\$2.11	\$2.00	\$1.90	\$1.81
877152	2	2-7/16	1-5/16	Round	12	2.11	2.00	1.90	1.81
877153	3	2-3/8	1-1/4	Round	12	1.93	1.83	1.74	1.65
877154	4	2-3/8	1-1/4	Round	12	1.93	1.83	1.74	1.65
877155	5	2-3/8	1-1/4	Round	12	1.93	1.83	1.74	1.65
877156	6	2-3/8	1-1/4	Round	12	1.93	1.83	1.74	1.65
877157	7	2-1/4	1-3/16	Round	12	1.72	1.63	1.55	1.48
877158	8	2-1/4	1-3/16	Round	12	1.72	1.63	1.55	1.48
877159	9	2-1/4	1-3/16	Round	12	1.72	1.63	1.55	1.48
877160	10	2-1/4	1-3/16	Round	12	1.72	1.63	1.55	1.48
877161	11	2-1/4	1-3/16	Round	12	1.72	1.63	1.55	1.48
877162	12	2-1/4	1-3/16	Round	12	1.72	1.63	1.55	1.48
877163	13	2-3/16	1-1/8	Round	12	1.60	1.51	1.44	1.37
877164	14	2-3/16	1-1/8	Round	12	1.60	1.51	1.44	1.37
877165	15	2-3/16	1-1/8	Round	12	1.60	1.51	1.44	1.37
877166	16	2-3/16	1-1/8	Round	12	1.60	1.51	1.44	1.37
877167	17	2-3/16	1-1/8	Round	12	1.60	1.51	1.44	1.37
877168	18	2-1/8	1-1/16	Round	12	1.43	1.36	1.29	1.23
877169	19	2-1/8	1-1/16	Round	12	1.43	1.36	1.29	1.23
877170	20	2-1/8	1-1/16	Round	12	1.43	1.36	1.29	1.23
877171	21	2-1/8	1-1/16	Round	12	1.38	1.30	1.24	1.18
877172	22	2-1/8	1-1/16	Round	12	1.38	1.30	1.24	1.18
877173	23	2-1/16	1	Round	12	1.38	1.30	1.24	1.18
877174	24	2-1/16	1	Round	12	1.38	1.30	1.24	1.18
877175	25	2-1/16	1	Round	12	1.32	1.25	1.19	1.13
877176	26	2-1/16	1	Round	12	1.32	1.25	1.19	1.13
877177	27	2-1/16	1	Round	12	1.32	1.25	1.19	1.13
877178	28	1-15/16	15/16	Round	12	1.17	1.11	1.05	1.00
877179	29	1-15/16	15/16	Round	12	1.17	1.11	1.05	1.00
877180	30	1-15/16	15/16	Round	12	1.17	1.11	1.05	1.00

SCREW MACHINE LENGTH DRILL BITS – WIRE						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	12	60	120	240
877181	31	1-7/8	7/8	Round	12	\$1.13	\$1.07	\$1.01	\$0.96
877182	32	1-7/8	7/8	Round	12	1.13	1.07	1.01	0.96
877183	33	1-7/8	7/8	Round	12	1.13	1.07	1.01	0.96
877184	34	1-7/8	7/8	Round	12	1.13	1.07	1.01	0.96
877185	35	1-7/8	7/8	Round	12	1.13	1.07	1.01	0.96
877186	36	1-13/16	13/16	Round	12	1.13	1.07	1.01	0.96
877187	37	1-13/16	13/16	Round	12	1.13	1.07	1.01	0.96
877188	38	1-13/16	13/16	Round	12	1.13	1.07	1.01	0.96
877189	39	1-13/16	13/16	Round	12	1.13	1.07	1.01	0.96
877190	40	1-13/16	13/16	Round	12	1.13	1.07	1.01	0.96
877191	41	1-13/16	13/16	Round	12	1.13	1.07	1.01	0.96



Our all time most popular drill bit line!

High Speed Steel Screw Machine Drill Bits

- For use in screw machine setups where spindle clearance is limited
- Popular in the automotive and construction industries
- The short flute and overall length provide maximum rigidity
- 118° point on all sizes
- Bright Finish

SCREW MACHINE LENGTH DRILL BITS – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE (INS)	OAL (INS)	FLUTE LENGTH	SHANK DIA (IN)	PKG QTY	1	3	6	12
600149	49/64	5-1/8	3-1/4	49/64	1	\$28.44	\$26.86	\$25.45	\$24.18
600150	25/32	5-1/8	3-1/4	25/32	1	27.43	25.90	24.54	23.31
600151	51/64	5-1/4	3-3/8	51/64	1	29.94	28.28	26.79	25.45
600152	13/16	5-1/4	3-3/8	13/16	1	28.87	27.26	25.83	24.54
600153	53/64	5-3/8	3-1/2	53/64	1	31.71	29.94	28.37	26.95
600154	27/32	5-3/8	3-1/2	27/32	1	30.56	28.86	27.34	27.34
600155	55/64	5-1/2	3-1/2	55/64	1	32.84	31.01	29.38	27.91
600156	7/8	5-1/2	3-1/2	7/8	1	31.66	29.90	28.33	26.91
600157	57/64	5-5/8	3-5/8	57/64	1	34.09	32.19	30.50	28.98
600158	29/32	5-5/8	3-5/8	29/32	1	32.88	31.06	29.42	27.95
600159	59/64	5-3/4	3-3/4	59/64	1	37.57	35.49	33.62	31.94
600160	15/16	5-3/4	3-3/4	15/16	1	36.24	34.22	32.42	30.80
600161	61/64	5-7/8	3-7/8	61/64	1	40.87	38.60	36.57	34.74
600162	31/32	5-7/8	3-7/8	31/32	1	34.74	37.22	35.26	33.50
600163	63/64	6	4	63/64	1	42.41	40.06	37.95	36.05
600164	1"	6	4	1	1	40.89	38.62	36.59	34.76
						1	2	4	6
600165	1-1/64	6-1/4	4	1	1	69.88	66.00	62.53	59.40
600166	1-1/32	6-1/4	4	1	1	69.88	66.00	62.53	59.40
600167	1-3/64	6-1/4	4	1	1	76.00	71.78	68.00	64.60
600168	1-1/16	6-1/4	4	1	1	51.01	48.18	45.64	43.36
600169	1-5/64	6-3/8	4	1	1	84.44	79.75	75.55	71.78
600170	1-3/32	6-3/8	4	1	1	84.44	79.75	75.55	71.78
600171	1-7/64	6-3/8	4	1	1	86.19	81.40	77.12	73.26
600172	1-1/8	6-3/8	4	1	1	57.79	54.58	51.71	49.13
600173	1-9/64	6-5/8	4	1	1	87.94	83.06	78.68	74.75
600174	1-5/32	6-5/8	4-1/4	1	1	93.06	87.89	83.26	79.10
600175	1-11/64	6-5/8	4-1/4	1	1	95.74	90.42	85.66	81.38
600176	1-3/16	6-5/8	4-1/4	1	1	66.97	63.25	59.92	56.93
600177	1-13/64	6-3/4	4-3/8	1	1	102.91	97.19	92.08	87.48
600178	1-7/32	6-3/4	4-3/8	1	1	102.91	97.19	92.08	87.48
600179	1-15/64	6-3/4	4-3/8	1	1	107.74	101.75	96.39	91.58
600180	1-1/4	6-3/4	4-3/8	1	1	73.31	69.24	65.59	62.31
600181	1-17/64	7	4-3/8	1-1/4	1	115.45	109.12	103.45	98.35
600182	1-9/32	7	4-3/8	1-1/4	1	115.45	109.12	103.45	98.35
600183	1-19/64	7	4-3/8	1-1/4	1	123.39	116.63	110.57	105.11
600184	1-5/16	7	4-3/8	1-1/4	1	104.82	99.00	93.79	89.10
600185	1-21/64	7-1/8	4-1/2	1-1/4	1	137.74	130.19	123.43	117.33
600186	1-11/32	7-1/8	4-1/2	1-1/4	1	141.54	133.78	126.83	120.57
600187	1-23/64	7-1/8	4-1/2	1-1/4	1	146.35	138.33	131.14	124.67
600188	1-3/8	7-1/8	4-1/2	1-1/4	1	109.59	103.59	98.21	93.36
600189	1-25/64	7-3/8	4-3/4	1-1/4	1	151.51	143.21	135.77	129.06

SCREW MACHINE LENGTH DRILL BITS – FRACTIONAL						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK DIA	PKG QTY	1	2	4	6
600190	1-13/32	7-3/8	4-3/4	1-1/4	1	\$151.51	\$143.21	\$135.77	\$129.06
600191	1-27/64	7-3/8	4-3/4	1-1/4	1	212.35	200.71	190.29	180.89
600192	1-7/16	7-3/8	4-3/4	1-1/4	1	118.10	111.63	105.83	100.60
600193	1-29/64	7-1/2	4-7/8	1-1/4	1	157.25	148.63	140.91	133.95
600194	1-15/32	7-1/2	4-7/8	1-1/4	1	157.25	148.63	140.91	133.95
600195	1-31/64	7-1/2	4-7/8	1-1/4	1	160.70	151.89	144.00	136.89
600196	1-1/2	7-1/2	4-7/8	1-1/4	1	121.96	115.27	109.29	103.89
						1	2	3	4
600197	1-17/32	7-3/4	4-7/8	1-1/2	1	166.43	157.32	149.14	141.78
600198	1-9/16	7-3/4	4-7/8	1-1/2	1	137.74	130.19	123.43	117.33
600199	1-19/32	7-3/4	4-7/8	1-1/2	1	209.88	198.38	188.08	178.79
600200	1-5/8	7-3/4	4-7/8	1-1/2	1	155.25	146.74	139.12	132.25
600201	1-21/32	8	5-1/8	1-1/2	1	220.63	208.70	198.00	188.34
600202	1-11/16	8	5-1/8	1-1/2	1	178.26	168.49	159.74	151.85
600203	1-23/32	8	5-1/8	1-1/2	1	231.94	219.41	208.15	198.00
600204	1-3/4	8	5-1/8	1-1/2	1	183.65	173.59	164.57	156.44
600205	1-25/32	8-1/4	5-3/8	1-1/2	1	248.91	235.46	223.38	212.49
600206	1-13/16	8-1/4	5-3/8	1-1/2	1	200.87	189.86	180.00	171.11
600207	1-27/32	8-1/4	5-3/8	1-1/2	1	268.81	254.28	241.24	229.48
600208	1-7/8	8-1/4	5-3/8	1-1/2	1	206.90	195.56	185.40	176.25
600209	1-29/32	8-1/2	5-5/8	1-1/2	1	271.83	257.14	243.95	232.05
600210	1-15/16	8-1/2	5-5/8	1-1/2	1	217.80	206.03	195.46	185.93
600211	1-31/32	8-1/2	5-5/8	1-1/2	1	277.20	262.22	248.77	236.63
600212	2"	8-1/2	5-5/8	1-1/2	1	226.00	213.78	202.82	192.93
600213	2-1/16	8-1/2	5-5/8	1-1/2	1	271.54	256.86	243.69	231.80
600214	2-1/8	8-1/2	5-5/8	1-1/2	1	280.03	264.89	251.31	239.05
600215	2-3/16	8-1/2	5-5/8	1-1/2	1	298.70	282.55	268.06	268.06
600216	2-1/4	8-1/2	5-5/8	1-1/2	1	322.46	305.03	289.38	275.27
600217	2-5/16	8-1/2	5-5/8	1-1/2	1	345.09	326.43	309.69	294.59
600218	2-3/8	8-1/2	5-5/8	1-1/2	1	350.17	331.24	314.26	298.93
600219	2-7/16	8-1/2	5-5/8	1-1/2	1	424.29	401.35	380.77	362.20
600220	2-1/2	8-1/2	5-5/8	1-1/2	1	429.79	408.03	388.36	370.51

Hex Shank – 1/4” Quick Release Drill Bits

- Mechanic length with a quick release shank
- Made from special Hi-Molybdenum tool steel
- Feature a 135° split point for fast penetration and accurate starting without a center punch
- Body and clearance are gold treated for maximum lubricity
- Specially designed for hand held drills and impact tools
- Recommended for use in work-hardening grades of stainless steel and other hard metal drilling applications.



Quick Release Hex Shank



345021 QR Adapter

HEX SHANK – 1/4” QUICK RELEASE DRILL BITS						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK DIA	PKG QTY	6	18	36	72
345001	1/16	2-5/8	7/8	N/A	6	\$3.39	\$3.21	\$3.05	\$2.90
345002	3/32	3-1/4	1-1/4	N/A	6	3.39	3.21	3.05	2.90
345003	1/8	3-1/2	1-7/16	N/A	6	3.11	2.95	2.80	2.67
345004	5/32	3-1/2	1-11/16	N/A	6	3.47	3.29	3.13	2.98
345005	3/16	3/3/4	1-7/8	N/A	6	3.90	3.70	3.51	3.35
345006	7/32	4	2	N/A	6	4.94	4.68	4.45	4.24
345007	1/4	4-1/4	2	N/A	6	5.31	5.03	4.78	4.55
345008	9/32	3-13/16	2-1/4	N/A	6	5.13	4.86	4.61	4.39
						3	9	18	36
345009	5/16	4	2-1/2	N/A	3	5.28	5.00	4.75	4.52
345010	11/32	4-7/32	2-5/8	N/A	3	5.61	5.32	5.05	4.81
345011	3/8	4-1/4	2-11/16	N/A	3	6.07	5.75	5.46	5.20
345012	13/32	4-1/2	2-13/16	N/A	3	7.01	6.64	6.31	6.01
345013	7/16	4-1/2	2-15/16	N/A	3	8.21	7.78	7.39	7.04
345014	15/32	4-7/8	3-1/8	N/A	3	8.71	8.25	7.84	7.46
345015	1/2	5	3-3/8	N/A	3	9.71	9.20	8.74	8.32
						1	5	10	20
345021	QUICK RELEASE ADAPTER				1	11.24	10.64	10.11	9.63

QUICK RELEASE DRILL BITS – CARDED						PRICE PER CARD			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK DIA	PKG QTY	1	5	10	20
345031	1/16	2-5/8	7/8	N/A	2	\$6.78	\$6.42	\$6.10	\$5.81
345032	3/32	3-1/4	1-1/4	N/A	2	6.76	6.41	6.09	5.80
345033	1/8	3-1/2	1-7/16	N/A	2	6.53	6.18	5.88	5.60
345034	5/32	3-1/2	1-11/16	N/A	2	6.92	6.55	6.23	5.93
345035	3/16	3/3/4	1-7/8	N/A	2	7.79	7.38	7.01	6.68
345036	7/32	4	2	N/A	1	5.17	4.89	4.65	4.43
345037	1/4	4-1/4	2	N/A	1	5.54	5.25	4.99	4.75
345038	9/32	3-13/16	2-1/4	N/A	1	5.36	5.08	4.83	4.60
345039	5/16	4	2-1/2	N/A	1	5.51	5.22	4.96	4.73
345040	11/32	4-7/32	2-5/8	N/A	1	5.61	5.32	5.05	4.81
345041	3/8	4-1/4	2-11/16	N/A	1	6.35	6.01	5.71	5.44
345042	13/32	4-1/2	2-13/16	N/A	1	7.00	6.63	6.30	6.00
345043	7/16	4-1/2	2-15/16	N/A	1	8.58	8.13	7.73	7.36
345044	15/32	4-7/8	3-1/8	N/A	1	8.69	8.24	7.83	7.45
345045	1/2	5	3-3/8	N/A	1	10.15	9.62	9.14	8.70
						1	5	10	20
345051	QUICK RELEASE ADAPTER – CARDED				1	11.19	10.61	10.08	9.60

Our all time most popular drill bit line!

Hex Shank – 1/4” Quick Release Drill Bit Sets

- Mechanic length with a quick release shank
- Made from special Hi-Molybdenum tool steel
- Feature a 135° split point for fast penetration and accurate starting without a center punch
- Body and clearance are gold treated for maximum lubricity
- Specially designed for hand held drills and impact tools
- Recommended for use in work-hardening grades of stainless steel and other hard metal drilling applications.



QR-7A, 7 Piece Set

- Includes sizes: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, & 1/4"
- Conveniently contained in a nylon, soft-pouch index
- Part of the popular MAGNUM™ family

QR-7B, 7 Piece Set

- Includes sizes: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, & 1/2"
- Conveniently contained in a nylon, soft-pouch index
- Part of the popular MAGNUM™ family

QR-12, 12 Piece Set

- Includes sizes: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, ¼, 5/16, 3/8, 7/16, & 1/2" + Quick Release Adapter
- Conveniently contained in a hard-case index
- Part of the popular MAGNUM™ family

QR-16, 16 Piece Set

- Includes sizes: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, ¼, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, & 1/2" + Quick Release Adapter
- Conveniently contained in a nylon, soft-pouch index
- Part of the popular MAGNUM™ family

LEFT-HAND MAGNUM™DRILL BIT SETS		PRICE PER SET			
ITEM NO.	DESCRIPTION	1	3	6	12
345052	QR 7A-AG Quick Release Set	\$36.39	\$34.47	\$32.75	\$31.19
345053	QR 7B-AG Quick Release Set	50.47	47.82	45.43	43.26
345054	QR 12-AG Quick Release Set	82.14	77.82	73.93	70.40
345055	QR 16-AG Quick Release Set	108.61	102.89	97.75	93.10

Our all time most popular drill bit line!

MAGNUM™ Super Premium Xtra-Length Drill Bits

- Feature a heavy-duty 135° split point, round shank
- Black & Gold surface finish for maximum lubricity
- Gyroidal Torsion flute and wide land construction yield exceptional performance in deep hole drilling applications
- Recommended for work-hardening grades of stainless steel and other hard metal drilling applications
- Will drill 12 or more diameters deep without drill removal to clear chips. Feed rates may be twice that of standard drills.



EXTRA-LENGTH – 6"						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	3	9	18	36
392001	1/8	6	4	Round	3	\$7.03	\$6.66	\$6.33	\$6.02
392002	#29	6	4	Round	3	7.12	6.76	6.43	6.14
392003	9/64	6	4	Round	3	7.12	6.76	6.43	6.14
392004	5/32	6	4	Round	3	7.56	7.16	6.80	6.48
392005	11/64	6	4	Round	3	7.97	7.55	7.18	6.83
392006	3/16	6	4	Round	3	6.83	7.29	6.93	6.60
392007	#10	6	4	Round	3	7.51	7.13	6.78	6.47
392008	13/64	6	4	Round	3	8.04	7.62	7.24	6.89
392009	7/32	6	4	Round	3	8.28	7.84	7.45	7.10
392010	#1	6	4	Round	3	8.99	8.53	8.12	7.75
392011	15/64	6	4	Round	3	8.99	8.53	8.12	7.75
392012	1/4	6	4	Round	3	8.61	8.16	7.75	7.38
392013	F	6	4	Round	3	8.48	8.05	7.66	7.31
392014	9/32	6	4	Round	3	7.31	8.20	7.81	7.45
392015	5/16	6	4	Round	3	8.60	8.16	7.77	7.41
392016	11/32	6	4	Round	3	9.95	9.44	8.99	8.57
						1	3	6	12
392017	3/8	6	4	Round	1	11.49	10.91	10.39	9.91
392018	13/32	6	4	Round	1	12.09	11.48	10.93	10.43
392019	7/16	6	4	Round	1	12.96	12.30	11.71	11.17
392020	1/2	6	4	Round	1	13.44	12.76	12.14	11.59

EXTRA-LENGTH – 9" & 12"						PRICE EACH (SOLD IN PKG QTY)			
ITEM NO.	SIZE	OAL (INS)	FLUTE LENGTH	SHANK TYPE	PKG QTY	3	9	18	36
392051	1/8	9	6	Round	3	\$11.80	\$11.20	\$10.66	\$10.17
392052	9/64	9	6	Round	3	12.49	11.86	11.29	10.77
392053	5/32	9	6	Round	3	12.72	12.05	11.45	10.90
392054	11/64	9	6	Round	3	13.15	12.48	11.88	11.33
392055	3/16	9	6	Round	3	12.88	12.23	11.64	11.10
392056	13/64	9	6	Round	3	14.55	13.81	13.14	12.54
392057	7/32	9	6	Round	3	14.25	13.53	12.88	12.29
392058	15/64	9	6	Round	3	15.07	14.30	13.61	12.99
392059	1/4	9	6	Round	3	15.40	14.59	13.86	13.20
392060	9/32	9	6	Round	3	16.28	15.46	14.71	14.71
392061	5/16	9	6	Round	3	16.33	15.51	14.76	14.08
392062	11/32	9	6	Round	3	17.71	16.81	16.00	15.26
						1	3	6	12
392063	3/8	9	6	Round	1	19.22	18.21	17.30	16.48
392064	7/16	9	6	Round	1	25.88	24.57	23.39	22.31
392065	1/2	9	6	Round	1	29.96	28.38	26.96	25.68
ITEM NO.	SIZE	OAL	FLUTE L	SHANK	PK	3	9	18	36
392101	1/8	12	9	Round	3	15.31	14.50	13.78	13.12
392102	9/64	12	9	Round	3	15.32	14.54	13.84	13.21
392103	5/32	12	9	Round	3	15.05	14.29	14.29	12.98
392104	11/64	12	9	Round	3	16.25	15.43	14.69	14.01
392105	3/16	12	9	Round	3	16.65	15.78	14.99	14.27
392106	13/64	12	9	Round	3	18.45	17.52	16.67	15.91
392107	7/32	12	9	Round	3	18.93	17.93	17.04	16.23
392108	15/64	12	9	Round	3	22.15	21.03	20.01	19.09
392109	1/4	12	9	Round	3	22.76	21.57	20.49	19.51
392110	9/32	12	9	Round	3	22.65	21.51	20.47	19.53
392111	5/16	12	9	Round	3	24.50	23.21	22.05	21.00
392112	11/32	12	9	Round	3	24.85	23.59	22.46	21.43
						1	3	6	12
392113	3/8	12	9	Round	1	27.06	25.63	24.35	23.19
392114	7/16	12	9	Round	1	35.04	33.27	31.66	30.21
392115	1/2	12	9	Round	1	41.63	39.43	37.46	35.68

Solid Carbide Drills
Jobber Length, Uncoated



ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15 / 20
366003	1/16	1-1/2	3/4	\$5.50	\$5.18	\$4.90	\$4.64
366004	5/64	1-3/4	7/8	5.82	5.48	5.18	4.91
366005	3/32	2	1	6.59	6.21	5.87	5.56
366006	7/64	2-1/4	1-1/4	7.24	6.82	6.44	6.11
366007	1/8	2-1/4	1-1/4	7.44	7.01	6.62	6.28
366008	9/64	2-1/2	1-3/8	8.92	8.40	7.94	7.53
366009	5/32	2-1/2	1-3/8	7.72	7.28	6.88	6.52
366010	11/64	2-3/4	1-5/8	10.98	10.35	9.78	9.27
366011	3/16	2-3/4	1-5/8	9.17	8.64	8.16	7.74
366012	13/64	3	1-3/4	13.38	12.61	11.92	11.30
366013	7/32	3	1-3/4	13.65	12.86	12.15	11.52
366014	15/64	3-1/4	2	16.28	15.34	14.50	13.75
366015	1/4	3-1/4	2	16.10	15.17	14.33	13.59
366016	17/64	3-1/2	2-1/8	17.32	16.31	15.42	14.62
366017	9/32	3-1/2	2-1/8	16.65	15.68	14.82	14.05
366018	19/64	3-3/4	2-3/8	20.49	19.30	19.30	17.30
366019	5/16	3-3/4	2-3/8	21.58	20.33	19.22	18.22
366020	21/64	4	2-1/2	22.62	21.30	20.14	19.09
366021	11/32	4	2-1/2	26.49	24.96	23.59	22.36
366022	23/64	4-1/4	2-3/4	28.84	27.17	25.68	24.34
366023	3/8	4-1/4	2-3/4	28.86	27.19	25.70	25.70
366024	25/64	4-1/2	2-7/8	35.66	33.59	31.75	30.10
366025	13/32	4-1/2	2-7/8	39.67	37.37	35.33	33.49
366026	27/64	4-1/2	2-7/8	43.37	40.85	40.85	36.61
366027	7/16	4-1/2	2-7/8	46.98	44.26	41.84	39.66
366028	29/64	4-3/4	3	50.99	48.03	45.40	43.04
366029	15/32	4-3/4	3	54.87	51.69	48.85	46.32
366030	31/64	4-3/4	3	56.55	53.27	50.35	47.74
366031	1/2	4-3/4	3	58.41	55.03	52.01	52.01
				1	3	6	9
366035	9/16	5	3-1/4	107.50	101.27	95.72	90.75
366039	5/8	6	4-1/4	124.09	117.00	110.68	105.00
366047	3/4	6	4-1/4	179.47	169.22	160.07	151.86

ITEM NO.	WIRE SIZE	OAL INCH-ES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15 / 20
366189	1	3	1-3/4	\$18.87	\$17.77	\$16.80	\$15.93
366188	2	3	1-3/4	16.87	15.90	15.02	14.24
366187	3	3	1-3/4	16.19	15.25	14.42	13.67
366186	4	3	1-3/4	15.45	14.56	13.76	13.04
366185	5	3	1-3/4	15.45	14.56	13.76	13.04
366184	6	3	1-3/4	15.25	14.37	13.58	12.87
366183	7	3	1-3/4	10.49	9.88	9.34	8.86
366182	8	3	1-3/4	14.71	13.86	13.10	12.42
366181	9	3	1-3/4	14.71	13.86	13.10	12.42
366180	10	2-3/4	1-5/8	13.83	13.03	12.31	11.67
366179	11	2-3/4	1-5/8	13.61	12.82	12.12	11.49
366178	12	2-3/4	1-5/8	13.38	13.38	13.38	11.30
366177	13	2-3/4	1-5/8	13.07	12.31	11.64	11.03
366176	14	2-3/4	1-5/8	12.92	12.17	11.51	10.91
366175	15	2-3/4	1-5/8	12.92	12.17	11.51	10.91
366174	16	2-3/4	1-5/8	12.63	11.90	11.24	10.66
366173	17	2-3/4	1-5/8	12.28	11.57	10.93	10.36
366172	18	2-3/4	1-5/8	11.69	11.01	10.41	9.86
366171	19	2-3/4	1-5/8	11.69	11.01	10.41	9.86
366170	20	2-1/2	1-3/8	11.22	10.57	9.99	9.48
366169	21	2-1/2	1-3/8	11.22	10.57	9.99	9.48
366168	22	2-1/2	1-3/8	11.00	10.37	9.80	9.29
366167	23	2-1/2	1-3/8	10.56	9.95	9.40	8.91
366166	24	2-1/2	1-3/8	10.34	9.74	9.21	8.73
366165	25	2-1/2	1-3/8	10.34	9.74	9.21	8.73
366164	26	2-1/2	1-3/8	10.34	9.74	9.21	8.73
366163	27	2-1/2	1-3/8	9.66	9.10	8.60	8.15
366162	28	2-1/2	1-3/8	9.66	9.10	8.60	8.15
366161	29	2-1/2	1-3/8	9.66	9.10	8.60	8.15
366160	30	2-1/4	1-1/4	8.92	8.40	7.94	7.53
366159	31	2-1/4	1-1/4	8.55	8.05	7.61	7.22
366158	32	2-1/4	1-1/4	8.47	7.98	7.55	7.15
366157	33	2-1/4	1-1/4	8.33	7.84	7.41	7.03
366156	34	2-1/4	1-1/4	8.33	7.84	7.41	7.03
366155	35	2-1/4	1-1/4	8.03	7.57	7.15	6.78
366154	36	2-1/4	1-1/4	7.96	7.50	7.08	6.72
366153	37	2-1/4	1-1/4	7.96	7.50	7.08	6.72
366152	38	2-1/4	1-1/4	7.96	7.50	7.08	6.72
366151	39	2-1/4	1-1/4	7.66	7.22	6.82	6.47
366150	40	2	1	7.51	7.08	6.69	6.34
366149	41	2	1	7.37	6.94	6.56	6.22
366148	42	2	1	7.27	6.85	6.48	6.14
366147	43	2	1	7.13	6.71	6.35	6.02
366146	44	2	1	7.13	6.71	6.35	6.02
366145	45	1-3/4	7/8	6.83	6.43	6.08	5.77
366144	46	1-3/4	7/8	6.68	6.30	5.95	5.64
366143	47	1-3/4	7/8	6.68	6.30	5.95	5.64
366142	48	1-3/4	7/8	6.68	6.30	5.95	5.64
366141	49	1-3/4	7/8	6.48	6.10	5.77	5.47
366140	50	1-3/4	7/8	6.37	6.00	5.67	5.38
366139	51	1-1/2	3/4	6.31	5.95	5.62	5.33
366138	52	1-1/2	3/4	6.33	5.97	5.64	5.35
366137	53	1-1/2	3/4	6.33	5.97	5.64	5.35
366136	54	1-1/2	3/4	6.33	5.97	5.64	5.35
366135	55	1-1/2	3/4	6.33	5.97	5.64	5.35
366134	56	1-1/2	3/4	6.48	6.10	5.77	5.47
366133	57	1-1/2	3/4	6.78	6.38	6.03	5.72
366132	58	1-1/2	3/4	6.78	6.38	6.03	5.72
366131	59	1-1/2	3/4	6.78	6.38	6.03	5.72
366130	60	1-1/2	3/4	6.78	6.38	6.03	5.72

Solid Carbide Drills Jobber Length, Uncoated (continued)



LETTER SIZES

ITEM NO.	LETTER SIZE	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
366100	A	3-1/4	2	\$20.51	\$19.32	\$18.26	\$17.31
366101	B	3-1/4	2	21.10	19.88	18.79	17.81
366102	C	3-1/4	2	21.23	20.00	18.90	17.92
366103	D	3-1/4	2	17.92	20.52	19.40	18.39
366104	E	3-1/4	2	19.70	18.56	17.54	16.63
366105	F	3-1/4	2	23.04	21.70	20.52	19.45
366106	G	3-1/2	2-1/8	19.45	22.49	21.25	20.15
366107	H	3-1/2	2-1/8	24.04	22.64	21.40	20.29
366108	I	3-1/2	2-1/8	24.44	23.03	21.76	20.63
366109	J	3-1/2	2-1/8	25.11	23.65	22.36	21.19
366110	K	3-1/2	2-1/8	21.19	23.95	22.64	21.46
366111	L	3-1/2	2-1/8	26.46	24.92	23.56	22.33
366112	M	3-3/4	2-3/8	27.43	25.84	24.43	23.16

ITEM NO.	LETTER SIZE	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
366113	N	3-3/4	2-3/8	\$29.06	\$27.37	\$25.87	\$24.53
366114	O	3-3/4	2-3/8	30.76	28.97	27.39	25.96
366115	P	3-3/4	2-3/8	31.81	29.97	28.32	26.85
366116	Q	4	2-1/2	33.88	31.91	30.16	28.60
366117	R	4	2-1/2	34.86	32.83	31.04	29.42
366118	S	4	2-1/2	37.16	35.01	33.09	31.37
366119	T	4-1/4	2-3/4	38.49	36.26	34.27	32.49
366120	U	4-1/4	2-3/4	40.43	38.09	36.00	34.13
366121	V	4-1/4	2-3/4	43.70	41.17	38.91	36.89
366122	W	4-1/2	2-7/8	45.91	43.25	40.88	38.76
366123	X	4-1/2	2-7/8	50.09	47.18	44.60	42.28
366124	Y	4-1/2	2-7/8	51.82	48.82	46.14	43.75
366125	Z	4-1/2	2-7/8	64.28	60.56	57.24	54.26



HSS Taper Shank Drill Bits

- Tapered Shank drills are made to fit tapered holders
- High speed steel, 118 degree point, black oxide flutes and clearance
- Precision ground flutes, clearance, and points
- Morse Taper Shank numbers are listed below. For special requirements or non-standard Morse Taper shank sizes, refer to pages 34-35.
- Adapters also available to change to a different size Morse Taper Shank – see page 37.

ITEM NO.	SIZE	OAL INCH-ES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	5	10	20
408104	1/16	4-5/8	1-1/4	1	\$14.56	\$13.75	\$13.03	\$12.38
408105	5/64	4-3/4	1-3/8	1	13.35	12.61	11.95	11.35
408106	3/32	4-3/4	1-3/8	1	13.35	12.61	11.95	11.35
408107	7/64	4-7/8	1-5/8	1	13.35	12.61	11.95	11.35
408108	1/8	5-1/8	1-7/8	1	12.47	11.78	11.16	10.60
408109	9/64	5-3/8	2-1/8	1	11.44	10.81	10.24	9.73

ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	5	10	20
408110	5/32	5-3/8	2-1/8	1	\$11.44	\$10.81	\$10.24	\$9.73
408111	11/64	5-3/4	2-1/2	1	9.73	11.78	11.16	10.60
408112	3/16	5-3/4	2-1/2	1	12.47	11.78	11.16	10.60
408113	13/64	6	2-3/4	1	12.47	11.78	11.16	10.60
408114	7/32	6	2-3/4	1	10.63	10.04	9.51	9.04
408115	15/64	6-1/8	2-7/8	1	12.47	11.78	11.16	10.60



HSS Taper Shank Drill Bits (continued)



ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	5	10	20
408116	1/4	6-1/8	2-7/8	1	\$12.47	\$11.78	\$11.16	\$10.60
408117	17/64	6-1/4	3	1	12.85	12.14	11.50	10.93
408118	9/32	6-1/4	3	1	11.75	11.10	10.51	9.99
408119	19/64	6-3/8	3-1/8	1	12.85	12.14	11.50	10.93
408120	5/16	6-3/8	3-1/8	1	11.85	11.19	10.61	10.08
408121	21/64	6-1/2	3-1/4	1	17.13	16.18	15.33	14.56
408122	11/32	6-1/2	3-1/4	1	17.13	16.18	15.33	14.56
408123	23/64	6-3/4	3-1/2	1	17.13	16.18	15.33	14.56
408124	3/8	6-3/4	3-1/2	1	17.13	16.18	15.33	14.56
408125	25/64	7	3-5/8	1	18.10	17.10	16.20	15.39
408126	13/32	7	3-5/8	1	18.21	17.19	16.29	15.48
408127	27/64	7-1/4	3-7/8	1	18.74	17.69	16.76	15.93
408128	7/16	7-1/4	3-7/8	1	17.06	16.11	15.26	14.50
408129	29/64	7-1/2	4-1/8	1	14.50	20.89	19.79	18.80
408130	15/32	7-1/2	4-1/8	1	22.12	20.89	19.79	18.80
408131	31/64	8-1/4	4-3/8	2	22.12	22.12	19.79	18.80
408132	1/2	8-1/4	4-3/8	2	19.69	18.60	17.62	16.74
408133	33/64	8-1/2	4-5/8	2	22.71	21.44	20.32	19.30
408134	17/32	8-1/2	4-5/8	2	22.71	21.44	20.32	19.30
408135	35/64	8-3/4	4-7/8	2	24.34	22.07	21.78	20.69
408136	9/16	8-3/4	4-7/8	2	22.70	21.44	20.31	19.30
408137	37/64	8-3/4	4-7/8	2	26.00	24.56	23.26	22.10
408138	19/32	8-3/4	4-7/8	2	25.53	24.11	22.84	21.70
408139	39/64	8-3/4	4-7/8	2	25.53	24.11	22.84	21.70
408140	5/8	8-3/4	4-7/8	2	25.53	24.11	22.84	21.70
408141	41/64	9	5-1/8	2	28.13	26.57	25.17	23.91
408142	21/32	9	5-1/8	2	28.13	26.57	25.17	23.91
408143	43/64	9-1/4	5-3/8	2	30.19	28.51	27.01	25.66
408144	11/16	9-1/4	5-3/8	2	28.47	26.89	26.89	24.20
408145	45/64	9-1/2	5-5/8	2	31.44	29.69	28.13	26.73
408146	23/32	9-1/2	5-5/8	2	31.44	29.69	28.13	26.73
408147	47/64	9-3/4	5-7/8	2	33.38	31.53	29.87	28.38
408148	3/4	9-3/4	5-7/8	2	31.79	30.03	28.45	27.03
408149	49/64	9-7/8	6	2	40.13	37.90	35.91	34.11
408150	25/32	9-7/8	6	2	41.69	39.38	37.30	35.44
408151	51/64	10-3/4	6-1/8	3	43.96	41.51	39.33	37.36
408152	13/16	10-3/4	6-1/8	3	42.65	40.28	38.16	36.25
408153	53/64	10-3/4	6-1/8	3	47.40	44.76	42.41	40.29
408154	27/32	10-3/4	6-1/8	3	47.40	44.76	42.41	40.29
408155	55/64	10-3/4	6-1/8	3	49.28	46.54	44.09	41.89
408156	7/8	10-3/4	6-1/8	3	46.41	43.83	41.53	39.45
408157	57/64	10-3/4	6-1/8	3	50.50	47.69	45.18	42.93
408158	29/32	10-3/4	6-1/8	3	49.91	47.14	44.66	42.43
408159	59/64	10-3/4	6-1/8	3	51.34	48.49	45.93	43.64
408160	15/16	10-3/4	6-1/8	3	51.34	48.49	45.93	43.64
408161	61/64	11	6-3/8	3	55.28	52.21	49.46	46.99
408162	31/32	11	6-3/8	3	55.28	52.21	49.46	46.99
408163	63/64	11	6-3/8	3	56.46	53.32	50.51	47.99
408164	1"	11	6-3/8	3	51.82	48.94	46.37	44.05

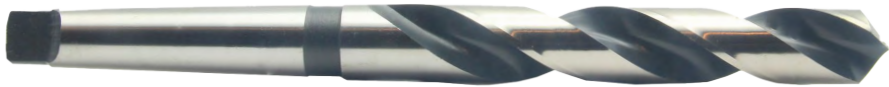
ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	3	6	12
408165	1-1/64	11-1/8	6-1/2	3	\$60.91	\$57.53	\$54.50	\$51.78
408166	1-1/32	11-1/8	6-1/2	3	63.10	59.60	56.46	53.64
408167	1-3/64	11-1/4	6-5/8	3	68.35	64.56	61.16	58.10
408168	1-1/16	11-1/4	6-5/8	3	64.41	60.83	57.63	54.75
408169	1-5/64	12-1/2	6-7/8	4	73.82	69.72	66.05	62.75
408170	1-3/32	12-1/2	6-7/8	4	73.82	69.72	66.05	62.75
408171	1-7/64	12-3/4	7-1/8	4	76.75	72.49	68.67	65.24
408172	1-1/8	12-3/4	7-1/8	4	75.38	71.19	67.45	64.08
408173	1-9/64	12-7/8	7-1/4	4	81.35	76.83	72.79	69.15
408174	1-5/32	12-7/8	7-1/4	4	81.35	76.83	72.79	69.15
408175	1-11/64	13	7-3/8	4	82.26	77.69	77.69	69.93
408176	1-3/16	13	7-3/8	4	82.26	77.69	73.61	69.93
408177	1-13/64	13-1/8	7-1/2	4	88.03	83.14	78.76	74.83
408178	1-7/32	13-1/8	7-1/2	4	88.03	83.14	78.76	74.83
408179	1-15/64	13-1/2	7-7/8	4	96.01	90.68	85.91	81.61
408180	1-1/4	13-1/2	7-7/8	4	93.09	87.92	83.29	79.13
408181	1-17/64	14-1/8	8-1/2	4	109.09	103.11	97.75	92.93
408182	1-9/32	14-1/8	8-1/2	4	111.91	105.78	100.29	95.33
408183	1-19/64	14-1/4	8-5/8	4	116.14	109.78	104.08	98.94
408184	1-5/16	14-1/4	8-5/8	4	111.91	105.78	100.29	95.33
408185	1-21/64	14-3/8	8-3/4	4	120.07	113.49	107.60	102.28
408186	1-11/32	14-3/8	8-3/4	4	120.07	113.49	107.60	102.28
408187	1-23/64	14-1/2	8-7/8	4	122.68	115.96	109.94	104.51
408188	1-3/8	14-1/2	8-7/8	4	122.68	115.96	109.94	104.51
408189	1-25/64	14-5/8	9"	4	126.06	119.15	112.96	107.38
408190	1-13/32	14-5/8	9"	4	126.06	119.15	112.96	107.38
408191	1-27/64	14-3/4	9-1/8	4	130.54	130.54	130.54	111.20
408192	1-7/16	14-3/4	9-1/8	4	130.54	123.38	116.97	111.20
408193	1-29/64	14-7/8	9-1/4	4	136.72	129.23	122.52	116.47
408194	1-15/32	14-7/8	9-1/4	4	129.23	122.52	116.47	140.90
408195	1-31/64	15	9-3/8	4	140.90	133.18	126.26	120.02
408196	1-1/2	15	9-3/8	4	140.90	133.18	126.26	120.02
					1	2	3	4
408197	1-33/64	16-3/8	9-3/8	5	225.33	213.15	202.22	192.35
408198	1-17/32	16-3/8	9-3/8	5	181.36	171.42	162.52	154.49
408199	1-35/64	16-5/8	9-5/8	5	236.97	224.16	212.67	202.29
408200	1-9/16	16-5/8	9-5/8	5	181.36	171.42	162.52	154.49
408201	1-37/64	16-7/8	9-7/8	5	236.97	236.97	212.67	202.29
408202	1-19/32	16-7/8	9-7/8	5	181.36	171.42	162.52	154.49
408203	1-39/64	17	10	5	243.26	230.11	218.31	207.66
408204	1-5/8	17	10	5	186.52	176.30	167.14	158.89
408205	1-41/64	17-1/8	10-1/8	5	254.74	240.97	228.62	217.46
408206	1-21/32	17-1/8	10-1/8	5	198.00	187.15	177.43	168.67
408207	1-43/64	17-1/8	10-1/8	5	277.34	262.35	248.90	236.76
408208	1-11/16	17-1/8	10-1/8	5	294.26	278.35	264.08	264.08
408209	1-45/64	17-1/8	10-1/8	5	277.34	277.34	248.90	236.76
408210	1-23/32	17-1/8	10-1/8	5	215.22	203.42	192.86	183.33
408211	1-47/64	17-1/8	10-1/8	5	288.86	273.24	259.23	246.59
408212	1-3/4	17-1/8	10-1/8	5	215.22	203.42	192.86	183.33
408213	1-49/64	17-1/8	10-1/8	5	294.60	278.68	264.38	251.49



HSS Taper Shank Drill Bits (continued)



ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	2	3	4
408214	1-25/32	17-1/8	10-1/8	5	\$223.46	\$211.38	\$200.54	\$190.76
408215	1-51/64	17-1/8	10-1/8	5	302.94	286.57	271.87	258.61
408216	1-13/16	17-1/8	10-1/8	5	237.14	224.32	212.82	202.44
408217	1-53/64	17-1/8	10-1/8	5	319.97	302.68	287.15	273.15
408218	1-27/32	17-1/8	10-1/8	5	237.14	224.32	212.82	202.44
408219	1-55/64	17-3/8	10-3/8	5	331.17	313.27	297.21	282.71
408220	1-7/8	17-3/8	10-3/8	5	237.14	224.32	212.82	202.44
408221	1-57/64	17-3/8	10-3/8	5	333.77	315.73	299.54	284.93
408222	1-29/32	17-3/8	10-3/8	5	246.09	232.78	220.85	210.07
408223	1-59/64	17-3/8	10-3/8	5	347.73	328.93	312.06	296.84
408224	1-15/16	17-3/8	10-3/8	5	254.57	240.81	228.46	217.32
408225	1-61/64	17-3/8	10-3/8	5	373.64	353.45	335.32	335.32
408226	1-31/32	17-3/8	10-3/8	5	263.63	249.38	236.59	225.05
408227	1-63/64	17-3/8	10-3/8	5	390.44	369.34	350.40	333.30
408228	2"	17-3/8	10-3/8	5	263.63	249.38	236.59	225.05
408229	2-1/64	17-3/8	10-3/8	5	414.59	393.59	374.63	357.40
408230	2-1/32	17-3/8	10-3/8	5	417.61	395.04	374.78	356.50
408231	2-3/64	17-3/8	10-1/4	5	418.57	397.38	378.23	360.84
408232	2-1/16	17-3/8	10-1/4	5	393.74	372.46	353.36	336.12
408234	2-3/32	17-3/8	10-1/4	5	418.57	397.38	378.23	360.84
408236	2-1/8	17-3/8	10-1/4	5	401.74	380.03	360.54	342.95
408238	2-5/32	17-3/8	10-1/4	5	427.68	406.03	386.46	368.69
408240	2-3/16	17-3/8	10-1/4	5	412.11	389.84	369.85	351.80
408242	2-7/32	17-3/8	10-1/8	5	427.68	406.03	386.46	368.69
408244	2-1/4	17-3/8	10-1/8	5	423.91	401.00	380.44	361.88
408245	2-17/64	17-3/8	10-1/8	5	470.24	446.43	424.92	405.38
408246	2-9/32	17-3/8	10-1/8	5	470.24	446.43	424.92	405.38
408247	2-19/64	17-3/8	10-1/8	5	488.00	463.29	440.96	420.69
408248	2-5/16	17-3/8	10-1/8	5	449.04	426.30	405.76	387.10
408249	2-21/64	17-3/8	10-1/8	5	554.47	526.39	501.02	477.99
408250	2-11/32	17-3/8	10-1/8	5	554.47	526.39	501.02	477.99
408252	2-3/8	17-3/8	10-1/8	5	486.19	461.57	439.33	419.13
408253	2-25/64	18-3/4	11-1/4	5	581.12	551.70	525.11	500.97
408254	2-13/32	18-3/4	11-1/4	5	500.97	551.70	525.11	500.97
408256	2-7/16	18-3/4	11-1/4	5	522.92	496.44	472.52	450.79
408257	2-29/64	18-3/4	11-1/4	5	588.49	558.70	531.77	507.32
408258	2-15/32	18-3/4	11-1/4	5	581.12	551.70	525.11	500.97
408260	2-1/2	18-3/4	11-1/4	5	522.92	496.44	472.52	450.79
408262	2-17/32	19-1/2	11-7/8	5	648.45	615.62	585.95	559.01
408264	2-9/16	19-1/2	11-7/8	5	623.36	591.80	563.28	537.38
408265	2-37/64	19-1/2	11-7/8	5	657.43	626.12	597.66	571.67
408266	2-19/32	19-1/2	11-7/8	5	643.55	612.90	585.05	559.61
408268	2-5/8	19-1/2	11-7/8	5	623.44	591.87	563.35	537.45
408270	2-21/32	20-3/8	12-3/4	5	787.74	750.23	716.13	684.99
408272	2-11/16	20-3/8	12-3/4	5	643.55	612.90	585.05	559.61
408274	2-23/32	20-3/8	12-3/4	5	704.14	670.61	640.13	612.29
408276	2-3/4	20-3/8	12-3/4	5	668.25	636.43	607.50	581.09
408278	2-25/32	21-1/8	13-3/8	5	785.86	748.44	714.42	683.36
408279	2-51/64	21-1/8	13-3/8	5	885.00	842.86	804.55	769.57
408280	2-13/16	21-1/8	13-3/8	5	704.14	670.61	640.13	612.29



HSS Taper Shank Drill Bits (continued)

Shank larger than standard

ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	5	10	20
408621	21/64	7-3/8	3-1/2	2	\$25.63	\$24.21	\$22.93	\$21.79
408623	23/64	7-3/8	3-1/2	2	25.63	24.21	22.93	21.79
408624	3/8	7-3/8	3-1/2	2	22.71	21.44	20.32	19.30
408625	25/64	7-1/2	3-5/8	2	23.47	22.17	21.00	19.95
408626	13/32	7-1/2	3-5/8	2	23.47	22.17	21.00	19.95
408627	27/64	7-3/4	3-7/8	2	24.24	22.89	21.68	20.60
408628	7/16	7-3/4	3-7/8	2	22.21	20.97	19.87	18.88
408629	29/64	8	4-1/8	2	29.06	27.44	26.00	24.70
408630	15/32	8	4-1/8	2	29.06	27.44	26.00	24.70
408634	17/32	8-1/2	4-5/8	3	29.06	27.44	26.00	24.70
408638	19/32	9-3/4	5-1/8	3	29.06	27.44	26.00	24.70

ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	5	10	20
408641	41/64	9-3/4	5-1/8	3	\$38.49	\$36.35	\$34.43	\$32.71
408642	21/32	9-3/4	5-1/8	3	38.49	36.35	34.43	32.71
408643	43/64	10	5-3/8	3	41.31	39.01	36.96	35.11
408644	11/16	10	5-3/8	3	40.44	38.19	36.18	34.38
408645	45/64	10-1/4	5-5/8	3	44.71	42.22	40.00	38.00
408646	23/32	10-1/4	5-5/8	3	44.71	42.22	40.00	38.00
408647	47/64	10-1/2	5-7/8	3	48.38	45.69	43.29	41.13
408648	3/4	10-1/2	5-7/8	3	45.41	42.89	40.63	38.60
408649	49/64	10-5/8	6	3	53.79	50.81	48.13	45.73
408650	25/32	10-5/8	6	3	54.54	51.51	48.80	46.36
408664	1"	12"	6-3/8	4	72.74	68.69	65.08	61.83
					1	3	6	12
408666	1-1/32	12-1/8	6-1/2	4	81.99	77.43	73.36	69.69
408667	1-3/64	12-1/8	6-1/2	4	88.82	83.89	79.47	75.50
408668	1-1/16	12-1/4	6-5/8	4	85.66	80.90	76.64	72.81

Shank smaller than standard

ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	5	10	20
409131	31/64	7-3/4	4-3/8	1	\$23.09	\$21.81	\$20.66	\$19.63
409132	1/2	7-3/4	4-3/8	1	18.47	17.44	16.53	15.70
409133	33/64	8	4-5/8	1	25.32	23.92	22.66	21.53
409134	17/32	8	4-5/8	1	25.32	23.92	22.66	21.53
409135	35/64	8-1/4	4-7/8	1	27.06	25.56	24.21	23.00
409136	9/16	8-1/4	4-7/8	1	25.38	23.97	22.71	21.58
409137	37/64	8-1/4	4-7/8	1	28.69	27.10	25.67	24.39
409138	19/32	8-1/4	4-7/8	1	37.85	35.75	33.87	32.18
409139	39/64	8-1/4	4-7/8	1	42.35	40.00	37.89	36.00
409140	5/8	8-1/4	4-7/8	1	42.35	40.00	37.89	36.00
409142	21/32	8-1/2	5-1/8	1	38.15	36.03	34.13	32.43
409151	51/64	10	6-1/8	2	54.06	51.06	48.37	45.95
409152	13/16	10	6-1/8	2	50.06	47.28	44.79	42.55
409153	53/64	10	6-1/8	2	57.94	54.72	51.84	49.25
409154	27/32	10	6-1/8	2	57.94	54.72	51.84	49.25
409155	55/64	10	6-1/8	2	61.15	57.75	54.71	51.98
409156	7/8	10	6-1/8	2	61.15	57.75	54.71	51.98
409157	57/64	10	6-1/8	2	65.53	61.89	58.63	55.70
409158	29/32	10	6-1/8	2	65.53	61.89	58.63	55.70
409164	1"	10-1/8	6-1/4	2	71.04	67.10	63.57	60.39
					1	3	6	12
409169	1-5/64	11-1/2	6-7/8	3	96.09	90.75	85.97	81.68
409170	1-3/32	11-1/2	6-7/8	3	96.09	90.75	85.97	81.68
409171	1-7/64	11-3/4	7-1/8	3	99.00	93.50	88.58	84.15
409172	1-1/8	11-3/4	7-1/8	3	98.44	92.97	88.08	83.68
409173	1-9/64	11-7/8	7-1/4	3	110.06	103.94	98.47	93.55
409174	1-5/32	11-7/8	7-1/4	3	110.06	103.94	98.47	93.55
409175	1-11/64	12	7-3/8	3	107.15	101.19	95.87	91.08
409176	1-3/16	12	7-3/8	3	107.15	101.19	95.87	91.08

ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	3	6	12
409176	1-3/16	12	7-3/8	3	\$107.15	\$101.19	\$95.87	\$91.08
409177	1-13/64	12-1/8	7-1/2	3	119.84	113.27	107.39	102.09
409178	1-7/32	12-1/8	7-1/2	3	119.84	113.27	107.39	102.09
409179	1-15/64	12-1/2	7-7/8	3	119.84	113.27	107.39	102.09
409180	1-1/4	12-1/2	7-7/8	3	114.20	114.20	102.34	97.28
409182	1-9/32	13-1/8	8-1/2	3	152.09	143.75	136.29	129.56
409184	1-5/16	13-1/4	8-5/8	3	158.12	149.45	141.69	134.69
409186	1-11/32	13-3/8	8-3/4	3	160.93	152.11	144.21	137.09
409188	1-3/8	13-1/2	8-7/8	3	169.71	160.41	152.08	144.57
409189	1-25/64	13-5/8	9	3	191.30	180.82	171.43	162.96
409190	1-13/32	13-5/8	9	3	162.96	167.38	158.69	150.85
409192	1-7/16	13-3/4	9-1/8	3	177.09	167.38	158.69	150.85
409194	1-15/32	13-7/8	9-1/4	3	193.06	182.48	173.00	164.46
409196	1-1/2	14	9-3/8	3	193.06	182.48	173.00	164.46
					1	2	3	4
409197	1-33/64	15	9-3/8	4	225.33	213.15	202.22	192.35
409198	1-17/32	15	9-3/8	4	208.33	196.92	186.69	177.47
409199	1-35/64	15-1/4	9-5/8	4	236.97	224.16	212.67	202.29
409200	1-9/16	15-1/4	9-5/8	4	208.33	196.92	186.69	177.47
409201	1-37/64	15-1/2	9-7/8	4	236.97	224.16	212.67	202.29
409202	1-19/32	15-1/2	9-7/8	4	210.42	198.89	188.56	179.25
409203	1-39/64	15-5/8	10	4	243.26	230.11	218.31	207.66
409204	1-5/8	15-5/8	10	4	214.44	202.85	192.45	183.06
409205	1-41/64	15-3/4	10-1/8	4	254.74	240.97	228.62	217.46
409206	1-21/32	15-3/4	10-1/8	4	232.29	219.73	208.46	198.29
409207	1-43/64	15-3/4	10-1/8	4	277.34	262.35	248.90	236.76
409208	1-11/16	15-3/4	10-1/8	4	235.69	222.95	211.51	201.20
409209	1-45/64	15-3/4	10-1/8	4	277.34	262.35	248.90	236.76
409210	1-23/32	15-3/4	10-1/8	4	259.87	259.87	233.22	221.84
409211	1-47/64	16-1/4	10-3/8	4	288.86	273.24	259.23	246.59
409212	1-3/4	16-1/4	10-3/8	4	263.06	248.84	236.08	224.56
409213	1-49/64	16-1/4	10-3/8	4	294.60	278.68	264.38	251.49



Shank smaller than standard

ITEM NO.	SIZE	OAL INCHES	FLUTE LENGTH	MORSE TAPER SHANK	PRICE EACH			
					1	2	3	4
409214	1-25/32	16-1/4	10-3/8	4	\$265.31	\$250.97	\$238.10	\$226.49
409215	1-51/64	16-1/4	10-3/8	4	302.94	286.57	286.57	258.61
409216	1-13/16	16-1/4	10-3/8	4	281.73	266.50	252.83	240.50
409217	1-53/64	16-1/4	10-3/8	4	319.97	302.68	287.15	273.15
409218	1-27/32	16-1/4	10-3/8	4	299.86	283.65	269.10	255.98
409219	1-55/64	16-1/2	10-1/2	4	331.17	313.27	297.21	282.71
409220	1-7/8	16-1/2	10-1/2	4	299.86	283.65	269.10	255.98
409221	1-57/64	16-1/2	10-1/2	4	333.77	315.73	299.54	284.93
409222	1-29/32	16-1/2	10-1/2	4	308.57	291.89	276.92	263.41
409223	1-59/64	16-5/8	10-5/8	4	347.73	328.93	312.06	296.84
409224	1-15/16	16-5/8	10-5/8	4	327.83	310.11	294.21	279.85
409225	1-61/64	16-5/8	10-5/8	4	373.64	353.45	335.32	318.96
409226	1-31/32	16-5/8	10-5/8	4	382.99	362.28	343.71	326.94
409227	1-63/64	16-5/8	10-5/8	4	390.44	369.34	350.40	333.30
409228	2"	16-5/8	10-5/8	4	321.14	303.78	288.21	274.15
409229	2-1/64	16-5/8	10-5/8	4	440.00	417.72	397.59	379.31
409230	2-1/32	16-1/4	10-3/8	4	417.61	417.61	374.78	356.50
409232	2-1/16	16-1/4	10-1/4	4	417.61	395.04	374.78	356.50
409233	2-5/64	16-1/4	10-1/4	4	472.00	448.10	426.51	406.90
409234	2-3/32	16-1/4	10-1/4	4	418.57	397.38	378.23	360.84
409236	2-1/8	16-1/4	10-1/4	4	418.57	397.38	378.23	360.84
409237	2-9/64	16-1/4	10-1/4	4	544.00	516.46	491.57	468.97
409238	2-5/32	16-1/4	10-1/4	4	427.68	406.03	386.46	368.69
409239	2-11/64	16-1/4	10-1/4	4	576.00	546.84	520.48	496.55
409240	2-3/16	16-1/4	10-1/4	4	427.68	406.03	386.46	368.69
409242	2-7/32	16-1/8	10-1/8	4	427.68	406.03	386.46	368.69
409243	2-15/64	16-1/8	10-1/8	4	592.00	562.03	534.94	510.34
409244	2-1/4	16-1/8	10-1/8	4	427.68	406.03	386.46	368.69
409246	2-9/32	16-1/8	10-1/8	4	470.24	446.43	424.92	405.38
409248	2-5/16	16-1/8	10-1/8	4	470.24	446.43	424.92	405.38
409250	2-11/32	16-1/8	10-1/8	4	554.47	526.39	501.02	477.99
409252	2-3/8	16-1/8	10-1/8	4	554.47	526.39	501.02	477.99
409254	2-13/32	17-1/4	11-1/4	4	581.12	551.70	525.11	500.97
409256	2-7/16	17-1/4	11-1/4	4	581.12	551.70	525.11	500.97
409258	2-15/32	17-1/4	11-1/4	4	581.12	551.70	525.11	500.97
409259	2-31/64	17-1/4	11-1/4	4	637.50	607.14	579.55	554.35
409260	2-1/2	17-1/4	11-1/4	4	581.12	551.70	525.11	500.97
409268	2-5/8	18	11-7/8	4	623.36	591.80	563.28	537.38
409276	2-3/4	19-1/8	12-3/4	4	688.14	655.37	625.58	598.38
409296	3-1/16	22	14-1/4	5	1,074.65	1,023.48	976.95	934.48
409300	3-1/8	22	14-1/4	5	1,138.50	1,084.29	1,035.00	990.00
409304	3-3/16	22	14-1/4	5	1,225.63	1,167.26	1,114.20	1,065.76
409308	3-1/4	23	15-1/4	5	1,225.63	1,167.26	1,114.20	1,065.76
409312	3-5/16	23	15-1/4	5	1,322.01	1,275.35	1,231.88	1,191.26
409316	3-3/8	23	15-1/4	5	1,413.52	1,363.64	1,317.15	1,273.73
409320	3-7/16	23	15-1/4	5	1,778.38	1,715.61	1,657.13	1,602.49
409324	3-1/2	24	16-1/4	5	1,778.38	1,715.61	1,657.13	1,602.49
409332	3-5/8	24	16-1/4	5	1,842.37	1,777.34	1,716.75	1,660.15
409340	3-3/4	24	16-1/4	5	2,257.68	2,178.00	2,103.75	2,034.40
409348	3-7/8	24	16-1/4	5	2,602.98	2,511.11	2,425.50	2,345.54
409356	4"	24-1/4	16-1/2	5	2,844.44	2,744.05	2,650.50	2,563.12

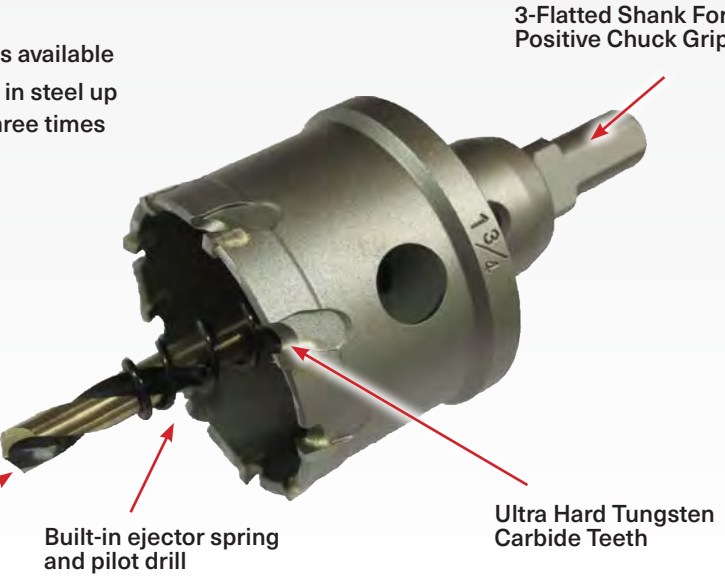
MAGNUM™ Carbide-Tipped Holecutters

Hole Cutters

The extremely popular line of MAGNUM™ Carbide Tipped Holecutters is available in diameters ranging from 9/16" to 5" and is the tool of choice for holes in steel up to 1" thick, as well as for larger diameter holes. These holecutters cut three times faster than bi-metal hole saws, and they perform very well in mild steel as well as stainless steel. They feature 3-flatted shanks for keyless chucks, and a built-in pilot drill and ejector spring that provides quick, smooth discharge of metal slug for greater productivity. Produces over-lapping and interrupted holes easily.

* Sizes up to 2-15/16" (2-5/8" in the 3/16" cutting depth) have a 3/8" shank. Larger sizes have a 1/2" shank. **

1" CUT DEPTH					
ITEM NO.	DIA (INS)	PRICE EACH			
		1	4	8	12
834300	9/16	\$39.50	\$37.42	\$35.55	\$33.86
834303	5/8	39.50	37.42	35.55	33.86
834306	11/16	39.50	37.42	35.55	33.86
834309	3/4	41.10	38.93	36.99	35.23
834312	13/16	39.45	37.46	35.65	34.01
834315	7/8	41.10	38.93	36.99	35.23
834318	15/16	41.10	38.93	36.99	35.23
834321	1"	41.10	38.93	36.99	35.23
834324	1-1/16	44.28	41.95	39.85	37.95
834327	1-1/8	44.28	41.95	39.85	37.95
834330	1-3/16	52.50	49.74	47.25	45.00
834333	1-1/4	52.50	49.74	47.25	45.00
834336	1-5/16	52.50	49.74	47.25	45.00
834339	1-3/8	52.50	49.74	47.25	45.00
834342	1-7/16	55.67	52.74	50.10	47.71
834345	1-1/2	55.67	52.74	50.10	47.71
		1	3	6	12
834348	1-9/16	55.67	52.74	50.10	47.71
834351	1-5/8	62.11	58.84	55.90	53.24
834354	1-11/16	59.63	56.61	53.88	51.40
834357	1-3/4	62.11	58.84	55.90	53.24
834360	1-13/16	53.24	58.84	55.90	53.24
834363	1-7/8	62.11	58.84	55.90	53.24
834366	1-15/16	62.11	58.84	55.90	53.24
834369	2"	72.94	69.11	65.65	62.52
834372	2-1/16	72.94	69.11	65.65	62.52
834375	2-1/8	92.51	87.82	83.59	79.75
834378	2-3/16	95.53	90.70	86.33	82.36
834381	2-1/4	99.51	94.28	89.56	85.30
834384	2-5/16	99.51	94.28	89.56	85.30
834387	2-3/8	99.51	94.28	89.56	85.30



3/16" CUT DEPTH					
ITEM NO.	DIA (INS)	PRICE EACH			
		1	4	8	12
834100	9/16	\$28.09	\$26.67	\$25.39	\$24.22
834103	5/8	27.87	26.46	25.18	24.02
834106	11/16	27.87	26.46	25.18	24.02
834109	3/4	29.03	27.50	26.13	24.88
834112	13/16	27.87	26.46	25.18	24.02
834115	7/8	29.28	27.80	26.46	25.24
834118	15/16	29.28	27.80	26.46	25.24
834121	1"	32.68	30.96	29.41	28.01
834124	1-1/16	33.72	31.95	30.35	28.90
834127	1-1/8	36.54	34.62	32.89	31.32
834130	1-3/16	35.08	33.30	31.70	30.24
834133	1-1/4	35.07	33.22	31.56	30.06
834136	1-5/16	35.55	33.75	32.12	30.64
834139	1-3/8	39.54	37.46	35.59	33.89
834142	1-7/16	41.23	39.14	37.25	35.54
834145	1-1/2	42.94	40.68	38.65	36.81
		1	3	6	12
834148	1-9/16	42.94	40.68	38.65	36.81
834151	1-5/8	44.75	42.48	40.43	38.57
834154	1-11/16	44.75	42.48	40.43	38.57
834157	1-3/4	44.75	42.48	40.43	38.57
834160	1-13/16	46.25	43.91	41.80	39.87
834163	1-7/8	48.18	45.64	43.36	41.30
834166	1-15/16	46.25	43.91	41.80	39.87
834169	2"	57.56	54.53	51.80	49.33
834172	2-1/16	57.56	54.53	51.80	49.33
834175	2-1/8	57.56	54.53	51.80	49.33
834178	2-3/16	69.56	66.04	62.86	59.97
834181	2-1/4	72.46	68.64	65.21	62.11
834184	2-5/16	69.56	66.04	62.86	59.97
834187	2-3/8	79.19	75.03	71.28	67.88

Carbide-Tipped Holecutters (continued)

1" CUT DEPTH					
ITEM NO.	DIA (INS)	PRICE EACH			
		1	3	6	12
834390	2-7/16	\$95.53	\$90.70	\$86.33	\$82.36
834393	2-1/2	99.51	94.28	89.56	85.30
		1	2	4	6
834396	2-9/16	99.51	94.28	89.56	85.30
834399	2-5/8	107.28	101.63	96.55	91.95
834402	2-11/16	107.28	101.63	96.55	91.95
834405	2-3/4	105.81	100.31	95.36	90.87
834408	2-13/16	107.28	101.63	96.55	91.95
834411	2-7/8	107.28	101.63	96.55	91.95
834414	2-15/16	107.28	101.63	96.55	91.95
834417	3"	121.08	114.79	109.12	103.99
		1	2	3	4
834420	3-1/4	121.08	114.79	109.12	103.99
834423	3-1/2	126.23	119.68	113.77	108.41
834426	3-3/4	149.47	141.70	134.70	128.36
834429	4"	156.51	148.38	141.05	134.41
834432	4-1/4	156.51	148.38	141.05	134.41
834435	4-1/2	165.27	156.69	148.95	141.94
834438	4-3/4	158.75	150.81	143.63	137.10
	5"	*Not available at this time*			

3/16" CUT DEPTH					
ITEM NO.	DIA (INS)	PRICE EACH			
		1	3	6	12
834190	2-7/16	\$76.03	\$72.18	\$68.70	\$65.54
834193	2-1/2	79.19	75.03	71.28	67.88
		1	2	4	6
834196	2-9/16	83.97	79.55	75.58	71.98
834199	2-5/8	80.61	76.53	72.84	69.49
834202	2-11/16	80.61	76.53	72.84	69.49
834205	2-3/4	83.37	79.15	75.34	71.87
834208	2-13/16	89.68	85.14	81.04	77.31
834211	2-7/8	89.68	85.14	81.04	77.31
834214	2-15/16	89.68	85.14	81.04	77.31
834217	3"	93.42	88.50	84.08	80.07
		1	2	3	4
834220	3-1/4	117.85	111.73	106.21	101.21
834223	3-1/2	113.20	107.54	102.42	97.76
834226	3-3/4	141.45	134.10	127.48	121.48
834229	4"	147.18	139.83	133.17	127.11
834232	4-1/4	147.18	139.83	133.17	127.11
834235	4-1/2	161.76	153.68	146.36	139.70
834238	4-3/4	161.76	153.68	146.36	139.70
834241	5"	177.96	169.06	161.01	153.69

MAGNUM™ Carbide-Tipped Holecutter Sets

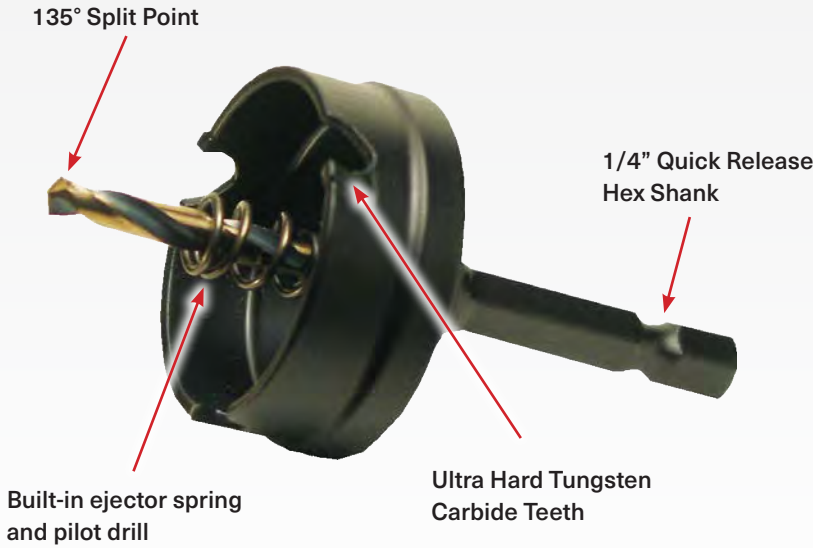


ITEM NO.	SET DESCRIPTION	CUT DEPTH	PRICE EACH			
			1	2	4	6
834460	4 Piece Holecutter Set, Sizes: 5/8, 3/4, 7/8, & 1"	1"	\$166.84	\$158.17	\$150.36	\$143.28
834463	4 Piece Holecutter Set, Sizes: 11/16, 13/16, 15/16, & 1-1/16"	1"	167.66	159.06	151.30	144.27
834466	5 Piece Holecutter Set, Sizes: 7/8, 1-1/8, 1-3/8, 1-3/4, & 2"	1"	268.12	254.54	242.28	231.14
834275	4 Piece Holecutter Set, Sizes: 5/8, 3/4, 7/8, & 1"	3/16"	120.86	114.81	109.35	104.38
834278	4 Piece Holecutter Set, Sizes: 11/16, 13/16, 15/16, & 1-1/16"	3/16"	121.87	115.78	110.26	105.25
834281	5 Piece Holecutter Set, Sizes: 7/8, 1-1/8, 1-3/8, 1-3/4, & 2"	3/16"	208.43	197.87	188.34	179.68

MAGNUM™ Carbide-Tipped
Holecutters— Quick Release

Quick Release MAGNUM Carbide-Tipped Hole-cutters offer all the same features as the Hole- cutters listed on the previous pages, with an additional feature: a 1/4” Quick Release Hex Shank. This allows for use in tools such as impact drivers or small hand held drills.

- Sizes range from 5/8” - 1-3/8”, with a cut-depth of 3/16”.
- Please note: this series uses different springs, screws, and pilot drills, than the cutters listed on previous pages.



QUICK RELEASE HOLECUTTERS				PRICE EACH			
ITEM NO.	DIA	CUT DEPTH	SHANK	1	4	8	12
834701	5/8	3/16	1/4" QR Hex	\$28.20	\$26.77	\$25.48	\$24.31
834702	11/16	3/16	1/4" QR Hex	28.20	26.77	25.48	24.31
834703	3/4	3/16	1/4" QR Hex	29.38	27.83	26.44	25.18
834704	13/16	3/16	1/4" QR Hex	28.20	26.77	25.48	24.31
834705	7/8	3/16	1/4" QR Hex	29.63	28.13	26.77	25.54
834706	15/16	3/16	1/4" QR Hex	29.63	28.13	26.77	25.54
834707	1"	3/16	1/4" QR Hex	31.69	30.09	28.64	27.32
834708	1-1/16	3/16	1/4" QR Hex	32.72	31.06	29.57	28.21
834709	1-1/8	3/16	1/4" QR Hex	35.43	33.63	32.01	30.54
834710	1-3/16	3/16	1/4" QR Hex	35.43	33.63	32.01	30.54
834711	1-1/4	3/16	1/4" QR Hex	34.01	32.29	30.73	29.32
834712	1-5/16	3/16	1/4" QR Hex	35.88	34.06	32.42	30.93
834713	1-3/8	3/16	1/4" QR Hex	38.29	36.35	34.60	33.01
				1	5	10	20
834721	Pilot Drill, 1/Pack			2.45	2.33	2.22	2.11
834722	Set Screw, 1/Pack			0.01	0.01	0.01	0.01
834723	Ejector Spring, 1/Pack			0.03	0.03	0.02	0.02

Carbide-Tipped Holecutter Extension

- Includes an Allen Wrench
- For 3/16" and 1" Standard Carbide-Tipped Holecutters Only



ITEM NO.	BORE/SHANK	EXT LENGTH	OAL (INS)	1	3	6	12
834290	3/8	5"	6-1/4	\$34.72	\$32.89	\$31.25	\$29.76
834293	1/2	5"	6-1/4	35.67	33.86	32.23	30.75

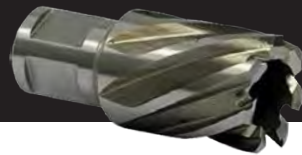
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1" CUT DEPTH				PRICE EACH			
ITEM NO.	DIA (INS)	SHANK	COATING	1	4	8	12
405000	7/16	3/4"	N/A	\$35.54	\$33.57	\$31.80	\$30.21
405001	1/2	3/4"	N/A	35.54	33.57	31.80	30.21
405002	9/16	3/4"	N/A	38.72	36.57	34.64	32.91
405003	5/8	3/4"	N/A	43.47	41.06	38.89	36.95
405004	11/16	3/4"	N/A	44.43	41.96	39.75	37.76
405005	3/4	3/4"	N/A	47.93	45.26	42.88	40.74
405006	13/16	3/4"	N/A	50.72	47.90	45.38	43.11
405007	7/8	3/4"	N/A	54.59	51.56	48.84	46.40
405008	15/16	3/4"	N/A	59.47	56.17	53.21	50.55
405009	1"	3/4"	N/A	63.41	59.89	56.74	53.90
405010	1-1/16	3/4"	N/A	65.06	61.44	58.21	55.30
405011	1-1/8	3/4"	N/A	74.90	70.74	67.01	63.66
405012	1-3/16	3/4"	N/A	78.51	74.15	70.25	66.74
405013	1-1/4	3/4"	N/A	81.25	76.74	72.70	69.06
405014	1-5/16	3/4"	N/A	85.69	80.93	76.67	72.84
405015	1-3/8	3/4"	N/A	109.81	103.71	98.25	93.34
405016	1-7/16	3/4"	N/A	122.41	115.70	109.69	104.27
405017	1-1/2	3/4"	N/A	127.61	120.62	114.35	108.70
				1	2	4	8
405018	1-9/16	3/4"	N/A	143.87	135.99	128.92	122.56
405019	1-5/8	3/4"	N/A	148.87	140.71	133.40	126.81
405020	1-11/16	3/4"	N/A	157.62	148.99	141.25	134.27
405021	1-3/4	3/4"	N/A	167.64	158.45	150.22	142.80
405022	1-13/16	3/4"	N/A	173.90	164.37	155.83	148.14
405023	1-7/8	3/4"	N/A	182.65	172.64	163.68	155.59
405024	1-15/16	3/4"	N/A	195.16	184.47	174.88	166.25
405025	2"	3/4"	N/A	199.55	188.62	178.82	169.99
				1	2	3	4
405026	2-1/16	3/4"	N/A	258.14	244.19	231.67	220.37

1" CUT DEPTH				PRICE EACH			
ITEM NO.	DIA	SHANK	COATING	1	2	3	4
405027	2-1/8	3/4"	N/A	\$275.76	\$260.85	\$247.47	\$235.40
405028	2-3/16	3/4"	N/A	284.57	269.19	255.38	242.93
405029	2-1/4	3/4"	N/A	286.80	271.30	257.38	244.83
405030	2-5/16	1-1/4	N/A	295.84	279.85	265.50	252.55
405031	2-3/8	1-1/4	N/A	302.30	285.96	271.29	258.06
405032	2-7/16	1-1/4	N/A	308.76	292.07	277.09	263.57
405033	2-1/2	1-1/4	N/A	316.51	299.41	284.05	270.20
405034	2-9/16	1-1/4	N/A	322.97	305.51	289.85	275.71
405035	2-5/8	1-1/4	N/A	348.94	330.08	313.15	297.88
405036	2-11/16	1-1/4	N/A	352.57	333.51	316.41	300.98
405037	2-3/4	1-1/4	N/A	372.06	351.95	333.90	317.61
405038	2-13/16	1-1/4	N/A	392.14	370.95	351.92	334.76
405039	2-7/8	1-1/4	N/A	396.07	374.66	355.45	338.11
405040	2-15/16	1-1/4	N/A	401.89	380.16	360.67	343.07
405041	3"	1-1/4	N/A	405.97	384.03	364.33	346.56
405042	3-1/16	1-1/4	N/A	247.70	234.31	222.29	211.45
405043	3-1/8	1-1/4	N/A	250.96	237.39	225.22	214.23
405044	3-3/16	1-1/4	N/A	257.23	243.32	230.85	219.59
405045	3-1/4	1-1/4	N/A	263.59	249.34	236.55	225.01
405046	3-5/16	1-1/4	N/A	266.77	252.35	239.41	227.73
405047	3-3/8	1-1/4	N/A	273.10	258.34	245.09	233.13
405049	3-1/2	1-1/4	N/A	282.66	267.38	253.67	241.29
405050	3-9/16	1-1/4	N/A	289.01	273.39	259.37	246.72
405051	3-5/8	1-1/4	N/A	292.17	276.38	262.21	249.41
405053	3-3/4	1-1/4	N/A	301.69	285.38	270.74	257.54
405054	3-13/16	1-1/4	N/A	307.94	291.30	276.36	262.88
405055	3-7/8	1-1/4	N/A	311.23	294.41	279.31	265.68
405056	3-15/16	1-1/4	N/A	317.59	300.42	285.01	271.11
405057	4"	1-1/4	N/A	323.93	306.42	290.71	276.52

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2" CUT DEPTH			PRICE EACH			
ITEM NO.	DIA	SHANK	1	4	8	12
405100	7/16"	3/4"	\$49.19	\$46.46	\$44.01	\$41.81
405101	1/2"	3/4"	49.19	46.46	44.01	41.81
405102	9/16	3/4"	54.53	51.50	48.79	46.35
405103	5/8	3/4"	58.40	55.15	52.25	49.64
405104	11/16	3/4"	65.82	62.17	58.89	55.95
405105	3/4"	3/4"	71.09	67.14	63.61	60.43
405106	13/16	3/4"	76.10	71.88	68.09	64.69
405107	7/8	3/4"	81.25	76.74	72.70	69.06
405108	15/16	3/4"	88.24	83.33	78.95	75.00
405109	1"	3/4"	95.21	89.92	85.18	80.93
			1	4	8	12
405110	1-1/16	3/4"	98.90	93.40	88.49	84.06
405111	1-1/8	3/4"	112.99	106.71	101.09	96.04
405112	1-3/16	3/4"	116.79	110.31	104.50	99.28
405113	1-1/4	3/4"	120.10	113.52	107.62	102.31
405114	1-5/16	3/4"	124.48	117.66	111.55	106.04
405115	1-3/8	3/4"	132.61	125.34	118.83	112.96
405116	1-7/16	3/4"	148.87	140.71	133.40	126.81
405117	1-1/2	3/4"	160.13	151.36	143.49	136.41
405118	1-9/16	3/4"	178.90	169.10	160.31	152.40
405119	1-5/8	3/4"	192.65	182.10	172.64	164.11
405120	1-11/16	3/4"	198.91	188.01	178.25	169.44
405121	1-3/4	3/4"	211.42	199.84	189.45	180.10
405122	1-13/16"	3/4"	220.17	208.11	197.30	187.56
405123	1-7/8	3/4"	233.07	220.47	209.17	198.96
405124	1-15/16	3/4"	245.40	232.14	220.23	209.49
405125	2"	3/4"	257.73	243.80	231.29	220.01
			1	2	3	4
405126	2-1/16	3/4"	289.39	273.74	259.71	247.04
405127	2-1/8	3/4"	300.73	284.47	269.88	256.72
405128	2-3/16	3/4"	317.97	300.78	285.36	271.44
405129	2-1/4	3/4"	326.51	308.86	293.03	278.73
405130	2-5/16	1-1/4"	331.54	313.62	297.54	283.02
405131	2-3/8	1-1/4"	336.24	318.07	301.76	287.04
405132	2-7/16	1-1/4"	349.27	330.39	313.45	298.16
405133	2-1/2	1-1/4"	365.60	345.84	328.10	312.10
405134	2-9/16	1-1/4"	388.27	367.28	348.45	331.45
405135	2-5/8	1-1/4"	395.90	374.50	355.29	337.96
405136	2-11/16	1-1/4"	403.91	382.08	362.49	344.80
405137	2-3/4	1-1/4"	403.91	382.08	362.49	344.80
405138	2-13/16	1-1/4"	422.01	400.65	381.34	363.80
405139	2-7/8	1-1/4"	428.59	406.89	387.28	369.47
405140	2-15/16	1-1/4"	442.75	420.33	400.07	381.68
405141	3"	1-1/4"	448.16	425.47	404.96	386.34

2" CUT DEPTH			PRICE EACH			
ITEM NO.	DIA	SHANK	1	2	4	6
405142	3-1/16"	1-1/4"	\$275.34	\$260.46	\$247.10	\$235.05
405143	3-1/8	1-1/4"	278.87	263.80	250.27	238.06
405144	3-3/16	1-1/4"	266.87	253.35	241.14	230.06
405145	3-1/4	1-1/4"	273.47	259.62	247.11	235.75
405146	3-5/16	1-1/4"	276.76	262.75	250.08	238.59
405147	3-3/8	1-1/4"	293.24	278.39	264.98	252.79
405149	3-1/2	1-1/4"	296.76	281.73	268.16	255.83
405150	3-9/16"	1-1/4"	299.83	284.65	270.93	258.47
405151	3-5/8	1-1/4"	303.13	287.78	273.92	261.32
405153	3-3/4	1-1/4"	313.00	297.15	282.83	269.83
405154	3-13/16	1-1/4"	332.90	315.38	299.61	285.35
405155	3-7/8	1-1/4"	336.19	318.50	302.58	288.17
405156	3-15/16	1-1/4"	343.46	325.38	309.11	294.39
405157	4"	1-1/4"	350.06	331.63	315.05	300.05

ROTACUTTER Straight Shank Extension Adapters

- For use in drill press.
- Adapts cutters with 3/4" Weldon shanks for use in shop machines where magnetic base machines are not necessary.



• #370203



• #370209

ITEM NO.	ADAPTER SHANK	CUTTER SHANK	OAL	PRICE EACH			
				1	2	4	6
370200	1/2"	3/4"	2-1/8"	\$125.79	\$118.81	\$112.55	\$106.92
370203	3/4"	3/4"	2"	111.82	105.61	100.05	95.05
370206	3/4"	3/4"	3"	120.12	113.44	107.47	102.10
370209	3/4"	3/4"	12"	137.59	129.94	123.11	116.95
				1	2	3	4
370212	MT-2	3/4"	2"	143.45	135.59	128.55	122.20

NORSEMAN/CTD
DRILL & TOOL
America's Finest High-Speed Steel Cutting Tools™



MAGNUM™ Car Reamers – Standard Flute

- Car reamers are designed for the reaming of structural steel plates commonly found in truck frames, rail cars, bridges, and pressure vessels.
- Used to enlarge existing holes.
- Constructed with left-hand spiral and right-hand cut, which eliminates the tendency of the reamer to hog into the hole.
- Special Hi-tungsten tool steel, gold surface treated body and clearance for maximum lubricity.
- Three flats on shank for positive chuck grip.

ITEM NO.	DIA INCHES	POINT DIA	MIN. START-ING HOLE	OAL INCHES	SHANK	PKG QTY	PRICE EACH			
							1	4	8	12
395201	3/8"	0.244	9/32	4-5/8"	3/8" 3-Flat	1	\$38.17	\$36.16	\$34.35	\$32.71
395204	1/2	0.291	5/16	5-7/8	1/2" 3-Flat	1	45.53	43.13	40.98	39.02
395207	9/16	0.291	5/16	5-7/8	1/2" 3-Flat	1	48.38	45.83	43.54	41.46
395210	5/8	0.323	11/32	6-3/8	1/2" 3-Flat	1	52.79	50.01	47.51	45.25
395213	11/16	0.385	13/32	6-3/8	1/2" 3-Flat	1	58.65	55.57	52.79	50.27
395216	3/4	0.416	7/16	6-7/8	1/2" 3-Flat	1	70.39	66.68	63.35	60.33
							1	3	6	9
395219	13/16	0.478	1/2	6-7/8	1/2" 3-Flat	1	71.61	67.84	64.45	61.38
395222	7/8	0.51	17/32	6-7/8	1/2" 3-Flat	1	78.92	74.76	71.03	67.64
395225	15/16	0.595	19/32	6-7/8	1/2" 3-Flat	1	75.76	71.92	68.46	65.31
395228	1"	0.604	5/8	6-7/8	1/2" 3-Flat	1	93.58	88.66	84.23	80.21
							1	2	4	6
395231	1-1/16	0.635	21/32	6-7/8	1/2" 3-Flat	1	103.86	98.47	93.60	89.20
395234	1-1/8	0.67	11/16	6-7/8	1/2" 3-Flat	1	113.03	107.16	101.86	97.07
395237	1-3/16	0.71	3/4	6-7/8	1/2" 3-Flat	1	121.03	114.74	109.07	103.94
395240	1-1/4	0.729	3/4	6-7/8	1/2" 3-Flat	1	144.71	137.19	130.42	124.28
395243	1-5/16	0.785	13/16	6-7/8	3/4" 3-Flat	1	145.49	138.21	131.63	125.65
395246	1-3/8	0.82	7/8	6-7/8	3/4" 3-Flat	1	155.39	147.63	140.60	134.20
395249	1-7/16	0.86	29/32	6-7/8	3/4" 3-Flat	1	166.29	157.98	150.45	143.61
395252	1-1/2	0.9	15/16	6-7/8	3/4" 3-Flat	1	191.85	181.88	172.90	164.76



Car Reamers – Standard Flute

- Car reamers are designed for the reaming of structural steel plates commonly found in truck frames, rail cars, bridges, and pressure vessels.
- Used to enlarge existing holes.
- Constructed with left-hand spiral and right-hand cut, which eliminates the tendency of the reamer to hog into the hole.
- Special Hi-tungsten tool steel, gold surface treated body and clearance for maximum lubricity.
- Three flats on shank for positive chuck grip.



ITEM NO.	DIA INCHES	OAL INCHES	SHANK	PRICE EACH			
				1	2	4	6
395154	1-5/16		1/2"	202.05	191.82	182.58	174.18
395157	1-3/8		1/2"	233.95	222.10	211.40	201.68
395160	1-7/16		1/2"	236.40	224.43	213.61	203.79
395163	1-1/2		1/2"	254.28	241.56	230.06	219.60



MAGNUM™ Car Reamers – Fast Spiral

- Similar to the car reamer series on the previous page in purpose and application.
- The fast spiral type is more aggressive than the standard flute on the previous page.
- It will also fit the needs of users who prefer a stop collar.

ITEM NO.	DIA INCHES	POINT DIA	MIN STARTING HOLE	OAL INCHES	SHANK	PKG QTY	PRICE EACH			
							1	4	8	12
395101	5/16"	0.182	3/16	4-5/8	5/16" 3-Flat	1	\$41.78	\$39.58	\$37.60	\$35.81
395104	3/8	0.244	1/4	5-7/8	3/8" 3-Flat	1	42.14	39.92	37.93	36.12
395107	7/16	0.26	9/32	5-7/8	7/16" 3-Flat	1	52.07	49.33	46.86	44.63
395110	1/2	0.291	5/16	5-7/8	1/2" 3-Flat	1	50.21	47.57	45.19	43.04
395113	9/16	0.291	5/16	5-7/8	1/2" 3-Flat	1	53.61	50.79	48.25	45.95
395116	5/8	0.323	11/32	6-3/8	1/2" 3-Flat	1	58.13	55.07	52.31	49.82
395119	0.652	0.385	13/32	6-3/8	1/2" 3-Flat	1	64.68	61.28	58.21	55.44
395122	11/16	0.385	13/32	6-3/8	1/2" 3-Flat	1	64.68	61.28	58.21	55.44
395125	3/4	0.416	7/16	6-7/8	1/2" 3-Flat	1	77.69	73.61	69.93	66.60
							1	3	6	9
395128	0.776	0.416	7/16	6-7/8	1/2" 3-Flat	1	78.92	74.76	71.03	67.64
395131	13/16	0.478	1/2	6-7/8	1/2" 3-Flat	1	78.92	74.76	71.03	67.64
395134	7/8	0.51	17/32	6-7/8	1/2" 3-Flat	1	87.24	82.64	78.51	74.77
395137	15/16	0.595	19/32	6-7/8	1/2" 3-Flat	1	87.24	82.64	78.51	74.77
395140	1"	0.604	5/8	6-7/8	1/2" 3-Flat	1	102.99	97.57	92.69	88.27
							1	2	4	6
395143	1-1/16	0.635	21/32	6-7/8	1/2" 3-Flat	1	96.80	91.90	87.47	83.45
395146	1-1/8	0.67	11/16	6-7/8	1/2" 3-Flat	1	147.29	139.93	133.26	127.20
395149	1-3/16	0.71	3/4	6-7/8	1/2" 3-Flat	1	150.12	142.61	135.82	129.65
395152	1-1/4	0.729	3/4	6-7/8	1/2" 3-Flat	1	159.48	151.19	143.73	136.96
395155	1-5/16	0.785	13/16	6-7/8	3/4" 3-Flat	1	159.66	151.68	144.45	137.89
395158	1-3/8	0.82	7/8	6-7/8	3/4" 3-Flat	1	168.32	159.90	152.29	145.36
395161	1-7/16	0.86	29/32	6-7/8	3/4" 3-Flat	1	179.38	170.41	162.30	154.92
395164	1-1/2	0.9	15/16	6-7/8	3/4" 3-Flat	1	198.13	188.23	179.26	171.11



Car Reamers – Fast Spiral

- Similar to the car reamer series on the previous page in purpose and application.
- The fast spiral type is more aggressive than the standard flute on the previous page.
- It will also fit the needs of users who prefer a stop collar.



ITEM NO.	DIA INCHES	OAL INCHES	SHANK	PRICE EACH			
				1	2	4	6
395242	1-5/16		1/2"	\$196.49	\$185.73	\$176.08	\$167.38
395245	1-3/8		1/2"	213.91	203.08	193.29	184.40
395248	1-7/16		1/2"	219.23	208.13	198.10	188.99
395251	1-1/2		1/2"	247.83	235.44	224.23	214.03



MAGNUM™ Car Reamer Set – Standard Flute

- 4-piece set with sizes 3/8", 1/2", 5/8", and 3/4".
- Sturdy plastic case.



ITEM NO.	DESCRIPTION	1 set	3	6	12
395281	4 pc. reamer set	\$191.29	\$181.35	\$172.40	\$164.28

MAGNUM™ Car Reamer Display – Standard Flute

- Lexan Cover - lockable counter-top display. Includes one each of sizes 3/8, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, and 1".



ITEM NO.	DESCRIPTION	1	2
395284	8 pc. reamer display	\$547.86	\$529.18



MAGNUM™ Car Reamer Sets – Fast Spiral

- #395190: Sizes 5/16", 3/8", 7/16", and 1/2".
- #395192: Sizes 3/8", 1/2", 5/8", and 3/4".



ITEM NO.	DESCRIPTION	1 set	3	6	12
395190	4 pc. set 5/16" to 1/2" FAST SPIRAL	\$189.08	\$179.63	\$171.07	\$163.30
395192	4 pc. set 3/8" to 3/4" FAST SPIRAL	200.06	190.19	181.24	173.09

MAGNUM™ Car Reamer Display – Fast Spiral

- Lexan Cover - lockable counter-top display.
- Includes one each of sizes 3/8, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, & 1" in fast spiral type. (Display case shown empty.)



ITEM NO.	DESCRIPTION	1	2
395194	8 pc. reamer display FAST SPIRAL	\$588.22	\$568.17

HSS Step Reamers

- Accurately starts, enlarges and deburrs in holes in material up to 1/2" thick.
- 90° notch point starts holes easily.
- Each reamer has five hole enlargement steps.
- 3/8" three-flatted shank.
- Made in the USA.



- **GOLD OXIDE** – low temperature stress relief enhances lubricity, reduces friction and increases toughness.



ITEM NO.	DESCRIPTION	1	5	10	20
395400	5 hole sizes: 5/16 to 9/16	\$24.26	\$22.99	\$21.84	\$20.80
395403	5 hole sizes: 9/16 to 13/16	29.79	28.22	26.81	25.54
395406	5 hole sizes: 13/16 to 1-1/16	38.22	36.21	34.40	32.76
		1 set	3	6	12
395409	Gold oxide 3-pc set	95.49	90.46	85.94	81.85

- **ZIRCONIUM NITRIDE COATING** – excellent for aluminum, magnesium, titanium alloys and increased lubricity.



ITEM NO.	DESCRIPTION	1	5	10	20
395412	5 hole sizes: 5/16 to 9/16	\$29.52	\$28.03	\$26.67	\$25.45
395415	5 hole sizes: 9/16 to 13/16	36.40	34.56	32.89	31.38
395418	5 hole sizes: 13/16 to 1-1/16	49.53	47.03	44.76	42.70
		1 set	3	6	12
395421	Zirconium nitride 3-pc set	121.47	115.16	109.47	104.32



MAGNUM™ Hole Hog™ Core Drills

- Made from the same high-quality steel as our popular Magnum drill bit line.
- Designed exclusively for enlarging existing holes.
- Four-flute design eliminates the catching and hogging-in experienced with standard drills when breaking through thinner materials such as truck frames.
- These core drills may replace tapered reamers in many applications.
- 1/2” shank with three flats.
- Flute length on all sizes: 1-7/8”.

ITEM NO.	SIZE INCHES	OAL INCHES	MIN STARTING HOLE	PRICE EACH			
				1	5	10	20
395700	3/8	4-5/16	1/4	\$21.27	\$20.19	\$19.22	\$18.33
395703	1/2	4-5/16	5/16	28.96	27.43	26.06	24.82
395706	9/16	4-5/16	3/8	35.56	33.76	32.13	30.66
395709	5/8	4-5/16	25/64	41.32	39.14	37.19	35.42
395712	11/16	4-5/16	7/16	44.33	42.09	40.06	38.22
395715	3/4	4-5/16	15/32	48.32	45.87	43.66	41.66



Core Drills

- Designed exclusively for enlarging existing holes.
- Four-flute design eliminates the catching and hogging-in experienced with standard drills when breaking through thinner materials such as truck frames.
- These core drills may replace tapered reamers in many applications. Four-flute design.
- 1/2” shank with three flats.
- Flute length on all sizes: 2”.

MAGNUM™ Hole Hog™ Core Drill Sets

- The Hole Hog™ core drill sets include the corresponding size drill bit for each core drill.
- For drilling large diameter holes (diameter more than twice the thickness of the material), you would drill a hole with the pilot drill, followed by the core drill.
- Convenient metal index.

6-Piece Set (#395750)

includes:

- Sizes 3/8, 1/2, & 5/8.
- Drill sizes 1/4, 5/16, & 25/64.

6-Piece Set (#395753)

includes:

- Sizes 1/2, 5/8 & 3/4.
- Drill sizes 5/16, 25/64, & 15/32.

8-Piece Set (#395756)

includes:

- Sizes 3/8, 1/2, 5/8, & 3/4.
- Drill sizes 1/4, 5/16, 25/64, & 15/32.



ITEM NO.	DESCRIPTION	1 set	3	6	12
395750	6 piece set – 3/8 to 5/8	\$94.36	\$89.58	\$85.27	\$81.34
395753	6 piece set – 1/2 to 3/4	119.88	113.65	108.04	102.95
395756	8 piece set – 3/8 to 3/4	136.39	129.48	123.24	117.57



ITEM NO.	SIZE INCHES	OAL INCHES	PRICE EACH			
			1	5	10	20
395503	9/16	4”	\$34.41	\$32.50	\$30.79	\$29.25
395509	5/8	4”	43.24	40.83	38.68	36.75
395512	11/16	4”	52.06	49.17	46.58	44.25
395515	23/32	4”	57.35	54.17	51.32	48.75
			1	3	6	12
395521	13/16	4”	68.82	65.00	61.58	58.50
395524	7/8	4”	72.35	68.33	64.74	61.50
395527	15/16	4”	78.53	74.17	70.26	66.75
395530	1”	4”	85.59	80.83	76.58	72.75
			1	2	4	6
395533	1-1/16	4”	88.24	83.33	78.95	75.00
395536	1-1/8	4”	96.18	90.83	86.05	81.75
395539	1-3/16	4”	98.82	93.33	88.42	84.00
395542	1-1/4	4”	101.47	95.83	90.79	86.25
395554	1-1/2	4”	200.00	189.04	179.22	170.37

Combined Drill & Countersink

- Style: plain.
- Drill ends are of equal diameter.
- Included angle: 60 degrees.



Combined Drill & Countersink – Long Length 60°

- 60 degree countersink angle fits all standard centers.
- Used for centering work ends, where the work piece is to be revolved on machine centers.
- Made in the USA.



ITEM NO.	SIZE	DIA OF BODY	DRILL DIAMETER	OAL INCHES	PKG QTY	UOM: 1EA x PKG QUANTITY			
						1	5	10	20
153050	1x3	1/8	3/64	3	1	\$8.71	\$8.27	\$7.87	\$7.51
153052	1x4	1/8	3/64	4	1	9.08	8.62	8.20	7.83
153054	1x5	1/8	3/64	5	1	12.61	11.97	11.40	10.87
153056	1x6	1/8	3/64	6	1	17.32	16.44	15.65	14.93
153058	2x3	3/16	5/64	3	1	8.80	8.35	7.95	7.59
153060	2x4	3/16	5/64	4	1	10.43	9.90	9.42	8.99
153062	2x5	3/16	5/64	5	1	13.35	12.67	12.06	11.51
153064	2x6	3/16	5/64	6	1	17.36	16.48	15.69	14.97
153066	3x3	1/4	7/64	3	1	9.63	9.14	8.70	8.30
153068	3x4	1/4	7/64	4	1	10.99	10.43	9.93	9.47
153070	3x5	1/4	7/64	5	1	14.45	13.72	13.06	12.46
153072	3x6	1/4	7/64	6	1	16.73	15.89	15.12	14.43
153074	4x4	5/16	1/8	4	1	12.19	11.57	11.01	10.51
153076	4x5	5/16	1/8	5	1	15.55	14.76	14.05	13.40
153078	4x6	5/16	1/8	6	1	17.97	17.06	16.24	15.49
153080	4-1/2x4	3/8	9/64	4	1	13.68	12.99	12.36	11.79
153082	4-1/2x5	3/8	9/64	5	1	16.17	15.35	14.61	13.94
153084	4-1/2x6	3/8	9/64	6	1	19.51	18.52	17.63	16.82
153086	5x4	7/16	3/16	4	1	16.65	15.78	14.99	14.27
153088	5x5	7/16	3/16	5	1	18.51	17.57	16.72	15.95
153090	5x6	7/16	3/16	6	1	20.76	19.71	18.76	17.90
153092	6x5	1/2	7/32	5	1	19.88	18.87	17.96	17.14
153094	6x6	1/2	7/32	6	1	24.04	22.82	21.72	20.72
153096	7x6	5/8	1/4	6	1	44.79	42.52	40.47	38.61
153098	8x6	3/4	5/16	6	1	48.36	45.91	43.70	41.69

Chatter Proof™ Countersinks

- High performance flute-less countersinks.
- Special Hi-Molybdenum tool steel, gold surface treated for maximum lubricity.
- Free cutting for ease of use.
- Designed for fast stock removal.
- Chatter proof for a micro smooth finish.
- Recommended for smooth finishes on metal, plastic, and wood applications.
- Made in the USA.

• 82° Piloted Countersink



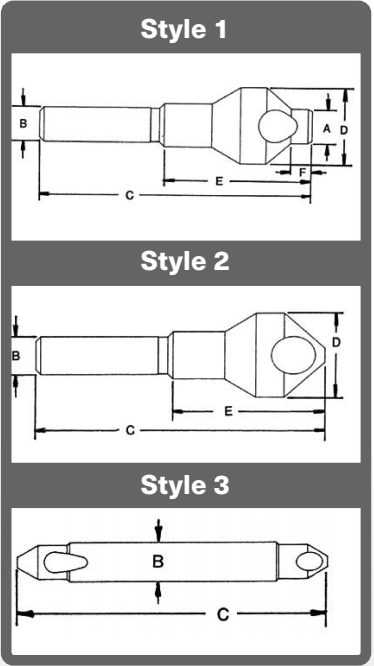
ITEM NO.	SIZE	STYLE	SCREW SIZE	(A)	(B) SHANK DIA	(C) OVERALL LENGTH	(D)	(E)	(F)	PRICE EACH			
										1	3	6	12
153160	CS1/4	1	1/4"	1/4"	3/8"	2"	33/64"	1"	5/32	\$15.07	\$14.28	\$13.56	\$12.92
153163	CS1/4A	1	1/4	17/64	3/8	2	33/64	1	5/32	15.07	14.28	13.56	12.92
153166	CS5/16	1	5/16	5/16	3/8	2-3/16	41/64	1-3/16	5/32	18.01	17.07	16.21	15.44
153169	CS5/16A	1	5/16	21/64	3/8	2-3/16	41/64	1-3/16	5/32	17.29	16.42	15.63	14.91
153172	CS3/8	1	3/8	3/8	1/2	2-5/8	49/64	1-3/8	5/32	23.92	22.66	21.53	20.50
153175	CS3/8A	1	3/8	25/64	1/2	2-5/8	49/64	1-3/8	5/32	22.96	21.80	20.75	19.79
153178	CS7/16	1	7/16	7/16	1/2	2-3/4	53/64	1-1/2	7/32	28.59	27.14	25.83	24.64
153181	CS7/16A	1	7/16	29/64	1/2	2-3/4	53/64	1-1/2	7/32	28.59	27.14	25.83	24.64
153184	CS1/2	1	1/2	1/2	1/2	2-13/16	15/16	1-9/16	1/4	29.71	28.20	26.84	25.61
153187	CS1/2A	1	1/2	33/64	1/2	2-13/16	15/16	1-9/16	1/4	29.71	28.20	26.84	25.61

• 82° Pilotless Countersink



ITEM NO.	SIZE	STYLE	DIAMETER OF CUT		SCREW SIZE	(B) SHANK DIAMETER	(C) OVERALL LENGTH	(D)	(E)	PRICE EACH			
			MIN	MAX						1	3	6	12
153100	CS073	3	5/64"	15/64"	---	1/4"	1-3/4"	---	---	\$10.40	\$9.86	\$9.36	\$8.92
153103	CS3/16	2	3/16	17/32	---	1/4	1-15/16	9/16	1"	13.01	12.33	11.71	11.15
153106	CS307	2	5/16	25/32	---	1/2	2-5/8	13/16	1-3/8	22.57	21.38	20.31	19.35
153109	CS307A	2	5/16	25/32	---	1/4	2-1/16	13/16	1-1/4	22.57	21.38	20.31	19.35
153112	CS431	2	7/16	7/8	---	1/2	2-13/16	1-1/8	1-9/16	38.42	36.39	34.58	32.93
153115	CS1/2B	2	1/2	1-15/32	---	1/2	3-1/2	1-1/2	2-1/8	87.61	83.00	78.85	75.10
153118	CS5S	2	1/8	17/64	No. 4	1/4	1-1/2	17/64	5/8	7.20	6.84	6.51	6.21
153121	CS6S	2	1/8	19/64	No. 6	1/4	1-1/2	19/64	5/8	7.59	7.20	6.86	6.54
153124	CS8S	2	1/8	11/32	No. 8	1/4	1-5/8	11/32	3/4	8.09	7.68	7.31	6.98
153127	CS10S	2	9/64	25/64	No. 10	1/4	1-5/8	25/64	3/4	9.88	9.36	8.89	8.46
153140	1		5/32"	13/32"		1/4"	1-7/8"			9.04	8.54	8.09	7.69
153142	4		9/16	1-1/16		1/2				33.25	31.40	29.75	28.26
										1	2	4	6
153144	6		3/4	1-3/4		5/8				\$109.68	\$103.58	\$98.13	\$93.23
153146	7		1	2		5/8				132.35	125.10	118.60	112.74
153148	8		1-1/4	2-1/2		3/4				146.83	138.78	131.57	125.07

Technical diagram for body styles.



90° Deburring Tool



ITEM NO.	SIZE	STYLE	DIAMETER OF CUT		(B) SHANK DIAMETER	(C) OVERALL LENGTH	(D)	(E)	PRICE EACH			
			MIN	MAX					1	3	6	12
153250	DB1/64	3	1/64"	11/64"	3/16"	1-1/2"	---	---	\$15.96	\$15.15	\$14.42	\$13.76
153253	DB1/16	3	1/16	11/64	3/16	1-1/2	---	---	8.36	7.94	7.55	7.21
153256	DB1/8	3	1/8	15/64	1/4	1-3/4	---	---	8.80	8.35	7.95	7.59
153259	DB5/32	2	5/32	13/32	1/4	1-11/16	7/16	13/16	9.95	9.44	8.99	8.57
153262	DB3/16	2	3/16	17/32	1/4	1-7/8	9/16	1	12.82	12.14	11.54	10.99
153265	DB5/16	2	5/16	25/32	1/2	2-19/32	13/16	1-3/8	22.28	21.11	20.05	19.10
153268	DB5/16C	2	5/16	25/32	1/4	2-1/32	13/16	1-5/32	21.39	20.30	19.33	18.44
153271	DB9/16	2	9/16	1-3/32	1/2	2-13/16	1-1/8	1-9/16	38.03	36.03	34.23	32.60
153274	DB1/2	2	1/2	1-15/32	1/2	3-1/2	1-1/2	2-1/8	83.13	78.92	75.12	71.67

• STYLE refers to technical diagram on preceding page.

9-Piece Piloted & Pilotless Countersink Set

Includes:

- 82° Piloted: CS1/4, CS5/16, CS3/8, CS7/16, CS1/2
- 82° Pilot-less: CS5S, CS6S, CS8S, CS10S.



ITEM NO.	DESCRIPTION	1 set	3	6	12
153248	9 Piece Set, 82°	\$153.04	\$145.39	\$138.46	\$132.17

6-Piece 90° Deburring Tool Set

- Includes DB1/16, DB1/8, DB5/32, DB3/16, DB5/16, & DB9/16



ITEM NO.	DESCRIPTION	1 set	3	6	12
153295	6 Piece Set	\$106.76	\$101.35	\$96.47	\$92.03

4-Piece Pilot-less Countersink Sets



#153156



#153159

ITEM NO.	DESCRIPTION	1 set	3	6	12
153156	CS5S, CS6S, CS8S, CS10S	\$41.72	\$39.61	\$37.70	\$35.97
153159	CS6S, CS8S, CS10S, CS3/16	48.99	46.41	44.09	41.99



Hard Steel Drills

- Hard steel drills are carbide-tipped*, straight flute.
- Designed specifically for drilling hardened ferrous materials in the range of 45 to 65 Rockwell C.
- Used for drilling broken studs, springs, bolts, die sections, broken easy-outs, extra tough or exotic metals, and brake drums.

* Sizes 1/16" to 5/32" are solid carbide

ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	4	8	12
850010	1/16	1-5/8	5/8"	\$15.09	\$14.25	\$13.50	\$12.83
850020	5/64	1-11/16	11/64	15.09	14.25	13.50	12.83
850030	3/32	1-3/4	3/4	17.07	16.13	15.28	14.51
850040	7/64	1-13/16	13/16	17.07	16.13	15.28	14.51
850050	1/8	1-7/8	7/8	17.07	16.13	15.28	14.51
850060	9/64	1-15/16	15/16	18.24	17.22	16.32	15.50
850070	5/32	2-1/16	1"	21.04	19.88	18.83	17.89
850080	11/64	3-1/2	1-1/2	31.75	29.99	28.41	26.99
850090	3/16	3-1/2	1-1/2	31.75	29.99	28.41	26.99
850100	13/64	3-3/4	1-3/4	32.75	30.93	29.30	27.84
850110	7/32	3-3/4	1-3/4	32.75	30.93	29.30	27.84
850120	15/64	4"	2"	33.93	32.04	30.36	28.84
850130	1/4	4"	2"	33.93	32.04	30.36	28.84
850140	17/64	4-1/4	2-1/4	35.84	33.85	32.07	30.46
850150	9/32	4-1/4	2-1/4	35.84	33.85	32.07	30.46
850160	19/64	4-1/2	2-1/2	37.47	35.39	33.53	31.85
850170	5/16	4-1/2	2-1/2	37.47	35.39	33.53	31.85
850180	21/64	4-3/4	2-3/4	40.38	38.14	36.13	34.33
850190	11/32	4-3/4	2-3/4	40.38	38.14	36.13	34.33
850200	23/64	5"	3"	42.99	40.60	38.46	36.54
850210	3/8	5"	3"	42.99	40.60	38.46	36.54

BURROUT™ Brad Point Drills

- These high-performance drills made from Hi-Moly tool steel will cut holes in wood or plastics, and leave no burr.
- The special BURROUT™ point cuts at the circumference of the hole to avoid the break through burr problems common with standard point drills.
- Round shank.

ITEM NO.	ITEM NO.	SIZE INCHES	OAL INCHES	PKG QTY			
				12	36	72	144
261002	5/64	2"	12	\$2.31	\$2.19	\$2.08	\$1.99
261005	3/32	2-1/4	12	2.31	2.19	2.08	1.99
261008	7/64	2-5/8	12	2.40	2.28	2.17	2.07
261011	1/8	2-3/4	12	2.43	2.30	2.19	2.09
261014	9/64	2-7/8	12	2.44	2.32	2.20	2.10
261017	5/32	3-1/8	12	2.49	2.37	2.25	2.15
261020	11/64	3-1/4	12	2.53	2.41	2.29	2.18
261023	3/16	3-1/2	12	2.81	2.67	2.54	2.43
261026	7/32	3-3/4	12	3.13	2.97	2.83	2.70
261029	1/4	4	12	3.58	3.39	3.23	3.07
				6	18	36	72
261032	5/16	4-1/2	6	4.69	4.46	4.24	4.05
261035	3/8	5	6	6.36	6.04	5.75	5.48
261038	7/16	5-1/2	6	9.95	9.44	8.99	8.57
261041	1/2	6	6	12.44	11.79	11.20	10.67



BURROUT™ Brad Point Drill Sets



10-Piece Set (#261201)

- Includes sizes 5/64 to 3/16 by 64ths, plus 7/32 and 1/4.

14-Piece Set (#261204)

- Includes sizes 5/64 to 3/16 by 64ths, plus 7/32, 1/4, 5/16, 3/8, 7/16, and 1/2 (all sizes at left).

ITEM NO.	DESCRIPTION	1 set	3	6	12
261201	10-piece set 5/64 – 1/4	\$31.53	\$29.94	\$28.49	\$27.18
261204	14-piece set 5/64 – 1/2	71.14	67.39	64.03	60.98



ULTRA BIT™ Step Drills

Gold oxide

- For use in all thin metals, rigid plastics, wood, or composite materials with a thickness of equal to or less than the step thickness.
- Special axial and radial flute design speeds workpiece penetration.
- Dual flute construction drills clean accurate holes in thin materials, quickly and easily.
- 135-degree split point allows easy starting with no pilot hole required. (When drilling steel with 1/8" or greater thickness, a starter hole of the smallest step diameter will speed the cutting process.)

ULTRA BIT™ Step Drills – QUICK RELEASE Gold oxide

- Same product with a quick-release 1/4" hex shank.

ULTRA BIT™ Step Drills

TiN Coated

- For use in all thin metals, rigid plastics, wood, or composite materials with a thickness of equal to or less than the step thickness.
- Special axial and radial flute design speeds workpiece penetration.
- Dual flute construction drills clean accurate holes in thin materials, quickly and easily.
- 135-degree split point allows easy starting with no pilot hole required. (When drilling steel with 1/8" or greater thickness, a starter hole of the smallest step diameter will speed the cutting process.)
- Titanium nitride coating reduces friction and keeps cutting edge sharper longer.



ITEM NO.	ULTRA-BIT™ #	HOLE SIZES	NO. OF SIZES	STEP INCRE-MENTS	STEP THICK-NESS	SHANK SIZE	PRICE EACH			
							1	5	10	20
151020	#1	1/8 - 1/2"	13	1/32"	1/8"	1/4" 3-Flat	\$23.17	\$21.95	\$20.85	\$19.86
151021	#2	1/4 - 1"	8	1/16"	5/32"	3/8" 3-Flat	34.78	32.95	31.30	29.81
151022	#3	1/4 - 3/4"	9	1/16"	5/32"	3/8" 3-Flat	30.11	28.53	27.10	25.81
151023	#4	3/16 - 1/2"	6	1/16"	3/8"	1/4" 3-Flat	19.11	18.11	17.20	16.38
151024	#7	1/4 - 7/8"	11	1/16"	1/16"	3/8" 3-Flat	45.64	43.24	41.08	39.12
151025	#8	3/16 - 7/8"	12	1/16"	1/8"	3/8" 3-Flat	40.36	38.24	36.33	34.60
151026	#9	1/4 - 1-7/32"	3	7/8"	-----	3/8" 3-Flat	44.58	42.24	40.13	38.21
151027	#11	1/4 - 1-1/8"	2	27/64"	9/64"	3/8" 3-Flat	57.74	54.70	51.96	49.49
151028	#12	1/4 - 1-3/8"	5	1/8"	*	3/8" 3-Flat	75.26	71.30	67.74	64.51
151029	1/4A	1/4 - 1-1/8"	16	1/16"	1/16"	3/8" 3-Flat	57.74	54.70	51.96	49.49
151030	13/16	13/16 - 1-3/8"	10	1/32"	5/32"	1/2" 3-Flat	75.26	71.30	67.74	64.51

* #151028 has 3/16" steps at 7/8, 1-1/8, 1-7/32, 1-1/4, & 1-3/8 (1/2" & 3/4" conduit)

ITEM NO.	ULTRA-BIT™ #	HOLE SIZES	NO. OF SIZES	STEP INCRE-MENTS	STEP THICK-NESS	SHANK SIZE	PRICE EACH			
							1	5	10	20
151001	#1	1/8 - 1/2"	13	1/32"	1/8"	QR 1/4" hex	\$23.88	\$22.62	\$21.49	\$20.46
151002	#2	1/4 - 1"	8	1/16"	5/32"	QR 1/4" hex	35.50	33.63	31.95	30.43
151003	#3	1/4 - 3/4"	9	1/16"	5/32"	QR 1/4" hex	30.83	29.21	27.75	26.43
151004	#4	3/16 - 1/2"	6	1/16"	3/8"	QR 1/4" hex	19.83	18.79	17.85	17.00
151005	#7	1/4 - 7/8"	11	1/16"	1/16"	QR 1/4" hex	46.33	43.89	41.70	39.71
151006	#8	3/16 - 7/8"	12	1/16"	1/8"	QR 1/4" hex	41.07	38.91	36.96	35.20
151007	#11	1/4 - 1-1/8"	2	27/64"	9/64"	QR 1/4" hex	58.46	55.38	52.61	50.11
151009	#12	1/4 - 1-3/8"	5	1/8"	*	QR 1/4" hex	75.97	71.97	68.38	65.12
151008	1/4A	1/4 - 1-1/8"	16	1/16"	1/16"	QR 1/4" hex	58.46	55.38	52.61	50.11

* #151009 has 3/16" steps at 7/8, 1-1/8, 1-7/32, 1-1/4, & 1-3/8 (1/2" & 3/4" conduit)

ITEM NO.	ULTRA-BIT™ #	HOLE SIZES	NO. OF SIZES	STEP INCRE-MENTS	STEP THICK-NESS	SHANK SIZE	PRICE EACH			
							1	5	10	20
151051	#1	1/8 - 1/2"	13	1/32"	1/8"	1/4" 3-Flat	\$24.51	\$23.22	\$22.06	\$21.01
151052	#2	1/4 - 1"	8	1/16"	5/32"	3/8" 3-Flat	37.99	35.99	34.19	32.56
151053	#3	1/4 - 3/4"	9	1/16"	5/32"	3/8" 3-Flat	33.25	31.50	29.93	28.50
151054	#4	3/16 - 1/2"	6	1/16"	3/8"	1/4" 3-Flat	20.49	19.41	18.44	17.56
151055	#7	1/4 - 7/8"	11	1/16"	1/16"	3/8" 3-Flat	48.32	45.78	43.49	41.42
151056	#8	3/16 - 7/8"	12	1/16"	1/8"	3/8" 3-Flat	43.43	41.14	39.09	37.23
151057	#11	1/4 - 1-1/8"	2	27/64"	9/64"	3/8" 3-Flat	61.13	57.91	55.01	52.39
151058	#12	1/4 - 1-3/8"	5	1/8"	*	3/8" 3-Flat	78.21	74.09	70.39	67.04
151059	1/4A	1/4 - 1-1/8"	16	1/16"	1/16"	3/8" 3-Flat	61.13	57.91	55.01	52.39
151060	13/16	13/16 - 1-3/8"	10	1/32"	5/32"	1/2" 3-Flat	78.21	74.09	70.39	67.04

* #151058 has 3/16" steps at 7/8, 1-1/8, 1-7/32, 1-1/4, & 1-3/8 (1/2" & 3/4" conduit)

ULTRA BIT™ Step Drill

Sets Gold oxide

* Available in standard or quick-release shank.



4-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #3: 1/4 – 3/4"
- #7: 1/4 – 7/8"
- #11: 7/8 & 1-1/8"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151045	Regular 3-flat shank	\$157.90	\$149.70	\$142.31	\$135.61

ULTRA BIT™ Step Drill Sets

TiN Coated

4-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #3: 1/4 – 3/4"
- #7: 1/4 – 7/8"
- #11: 7/8 & 1-1/8"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151075	Regular 3-flat shank	\$167.71	\$159.00	\$151.15	\$144.04

3-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #4: 3/16 – 1/2"
- #3: 1/4 – 3/4"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151071	Regular 3-flat shank	\$78.24	\$74.12	\$70.41	\$67.06

3-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #4: 3/16 – 1/2"
- #3: 1/4 – 3/4"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151041	Regular 3-flat shank	\$72.39	\$68.58	\$65.15	\$62.05
151011	Quick-release 1/4" hex shank	89.96	85.22	80.96	77.11

3-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #4: 3/16 – 1/2"
- #8: 3/16 – 7/8"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151042	Regular 3-flat shank	\$82.64	\$78.29	\$74.38	\$70.83
151010	Quick-release 1/4" hex shank	84.78	80.32	76.30	72.67

3-piece electrician's set includes these step drills:

- #1: 1/8 – 1/2"
- #8: 3/16 – 7/8"
- #11: 7/8 & 1-1/8"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151043	Regular 3-flat shank	\$112.29	\$106.45	\$101.20	\$96.44
151012	Quick-release 1/4" hex shank	105.70	100.21	95.26	90.78

3-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #4: 3/16 – 1/2"
- #2: 1/4 – 1"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151044	Regular 3-flat shank	\$77.04	\$72.99	\$69.34	\$66.04

3-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #4: 3/16 – 1/2"
- #8: 3/16 – 7/8"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151072	Regular 3-flat shank	\$88.71	\$84.04	\$79.84	\$76.04

3-piece electrician's set includes these step drills:

- #1: 1/8 – 1/2"
- #8: 3/16 – 7/8"
- #11: 7/8 & 1-1/8"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151073	Regular 3-flat shank	\$104.56	\$99.13	\$94.23	\$89.80

3-piece set includes these step drills:

- #1: 1/8 – 1/2"
- #4: 3/16 – 1/2"
- #2: 1/4 – 1"

ITEM NO.	DESCRIPTION	1 set	3	6	12
151074	Regular 3-flat shank	\$82.99	\$78.62	\$74.69	\$71.13

Wood Auger Bits



- High quality auger bits with hex shanks produced from alloy tool steel.
- For deep drilling wood applications, quickly and easily drill holes in all types of wood products.
- Self-drilling lead screw.

ITEM NO.	SIZE	OAL	1	5	10	20
347300	3/8	9"	\$8.97	\$8.50	\$8.08	\$7.69
347303	1/2	9"	9.76	9.25	8.79	8.37
347306	9/16	9"	11.10	10.51	9.99	9.51
347309	5/8	9"	12.17	11.53	10.95	10.43
347312	11/16	9"	12.68	12.04	11.46	10.93
347315	3/4	9"	13.99	13.25	12.59	11.99
347318	7/8	9"	15.48	14.70	13.99	13.34
347321	15/16	9"	16.23	15.41	14.66	13.99
347324	1"	9"	22.05	20.94	19.93	19.01
347327	1-1/8	9"	24.61	23.37	22.24	21.22
347350	3/8	16"	11.89	11.26	10.70	10.19
347353	1/2	16"	15.06	14.26	13.55	12.90
347356	9/16	16"	15.21	14.44	13.75	13.11
347359	5/8	16"	17.51	16.62	15.82	15.09
347362	11/16	16"	21.05	19.99	19.02	18.15
347365	3/4	16"	23.76	22.51	21.39	20.37
347368	7/8	16"	27.21	25.78	24.49	23.32
347371	15/16	16"	30.19	28.66	27.28	26.02
347374	1"	16"	35.15	33.30	31.64	30.13
347377	1-1/8	16"	42.11	39.97	38.05	36.30

ITEM NO.	SIZE	OAL	1	5	10	20
347400	3/8	18"	\$11.93	\$11.33	\$10.78	\$10.29
347403	1/2	18"	15.21	14.44	13.75	13.11
347406	9/16	18"	16.73	15.89	15.12	14.43
347409	5/8	18"	19.03	18.06	17.19	16.40
347412	11/16	18"	22.05	20.94	19.93	19.01
347415	3/4	18"	26.36	25.03	23.82	22.72
347418	7/8	18"	28.41	26.97	25.67	24.49
347421	15/16	18"	33.99	32.27	30.71	29.30
347424	1"	18"	38.80	36.84	35.06	33.45
347427	1-1/8	18"	42.11	39.97	38.05	36.30
347440	3/8	24"	16.23	15.41	14.66	13.99
347443	1/2	24"	19.79	18.78	17.88	17.06
347446	9/16	24"	22.57	21.43	20.40	19.46
347449	5/8	24"	26.36	25.03	23.82	22.72
347452	11/16	24"	29.92	28.41	27.04	25.79
347455	3/4	24"	36.77	34.91	33.23	31.70
347458	7/8	24"	41.08	39.00	37.12	35.41
347461	15/16	24"	48.69	46.23	44.00	41.98
347464	1"	24"	57.32	54.42	51.80	49.41
347467	1-1/8	24"	63.65	60.43	57.52	54.87



Spade Bits

- Cuts clean accurate holes in all soft and hard woods plus foam core, plastic, many non-metallic building sidings, and foam insulation.
- Shank Type: 1/4” Quick-Release

ITEM NO.	DESCRIPTION	PRICE EACH			
		1	5	10	20
347100	1/4” Spade Bit	\$2.27	\$2.15	\$2.05	\$1.95
347103	5/16” Spade Bit	2.27	2.15	2.05	1.95
347106	3/8” Spade Bit	2.52	2.39	2.28	2.17
347109	7/16” Spade Bit	2.32	2.20	2.10	2.00
347112	1/2” Spade Bit	2.52	2.39	2.28	2.17
347115	9/16” Spade Bit	2.52	2.39	2.28	2.17
347118	5/8” Spade Bit	2.73	2.59	2.47	2.36
347121	11/16” Spade Bit	2.73	2.59	2.47	2.36
347124	3/4” Spade Bit	2.73	2.59	2.47	2.36
347127	13/16” Spade Bit	2.96	2.81	2.67	2.55
347130	7/8” Spade Bit	3.08	2.92	2.78	2.64
347133	15/16” Spade Bit	2.96	2.81	2.67	2.55
347136	1” Spade Bit	3.19	3.03	2.88	2.75
347139	1-1/8” Spade Bit	4.50	4.26	4.05	3.86
347142	1-1/4” Spade Bit	4.50	4.26	4.05	3.86
347145	1-3/8” Spade Bit	4.50	4.26	4.05	3.86
347148	1-1/2” Spade Bit	4.50	4.26	4.05	3.86
347172	6” Extension for 1/4” hex shank, includes Allen wrench	5.60	5.30	5.04	4.80
347175	12” Extension for 1/4” hex shank, includes Allen wrench	7.00	6.63	6.30	6.00

ITEM NO.	DESCRIPTION	PRICE EACH			
		1	4	8	12
347180	4 Piece Set, Includes Sizes: 3/8, 1/2, 5/8, & 3/4	\$10.37	\$9.85	\$9.37	\$8.94
347185	6 Piece Set, Includes Sizes: 3/8, 1/2, 5/8, 3/4, 7/8, & 1”	18.10	17.14	16.29	15.51
347190	13 Piece Set, Includes Sizes: 1/4” - 1” x 1/16th Increments	38.15	36.14	34.34	32.70

Glass & Tile Drills

- Carbide-tipped with spear point.
- Designed for drilling in glass, tile, mirrors, and ceramic materials.
- Spear point allows clean penetration with reduced cutting pressure and breakout.
- Carbide tip ensures long tool life.



• 4-piece set, 347850



135° Split Point



• 347185



• 347190



ITEM NO.	DESCRIPTION	PRICE EACH			
		1	5	10	20
347800	1/8” Glass & Tile Drill	\$7.16	\$6.80	\$6.47	\$6.17
347803	5/32” Glass & Tile Drill	7.27	6.90	6.57	6.26
347806	3/16” Glass & Tile Drill	5.76	5.47	5.20	4.97
347809	1/4” Glass & Tile Drill	6.21	5.90	5.61	5.36
347812	5/16” Glass & Tile Drill	7.57	7.19	6.84	6.53
347815	3/8” Glass & Tile Drill	10.15	9.63	9.17	8.75
347818	1/2” Glass & Tile Drill	14.47	13.73	13.07	12.47
		1 set	4	8	12
347850	4-Piece Set, Sizes 1/8, 3/16,1/4, & 5/16	26.72	25.37	24.14	23.03

Bolt Extractors

- Remove broken screws, bolts, threaded parts, and pipes.
- Broken piece is extracted without damage to threads.
- Drill a hole in the end of the broken part (left hand spiral heavy duty drill bits are recommended – see pg. 20 or combo sets below).
- Insert the extractor and turn counterclockwise with a wrench.
- Hi-carbon steel, spiral style.



ITEM NO.	BOLT EXTRACTR	TO REMOVE DIAMETER OF BOLT / PIPE	SHANK DIAM.	POINT DIAM	DRILL SIZE NEEDED	PKG QTY	PKG QTY			
							5	15	30	60
370500	EX-1	3/32” to 5/32”	1/8”	.060”	5/64”	5	\$1.61	\$1.53	\$1.45	\$1.38
370503	EX-2	5/32 to 7/32	3/16	.080	7/64	5	1.72	1.63	1.55	1.48
370506	EX-3	7/32 to 9/32	1/4	1/8	5/32	5	1.90	1.80	1.71	1.63
370509	EX-4	9/32 to 3/8, 1/8 pipe	5/16	3/16	1/4	5	2.10	1.99	1.89	1.80
370512	EX-5	3/8 to 5/8, 1/4 pipe	7/16	1/4	17/64	5	2.76	2.62	2.49	2.37
							1	5	10	20
370515	EX-6	5/8 to 7/8, 3/8 pipe	5/8	3/8	13/32	1	5.88	5.57	5.29	5.04
370518	EX-7	7/8 to 1-1/8, 1/2 pipe	7/8	15/32	17/32	1	10.06	9.53	9.05	8.62
370521	EX-8	1-1/8 to 1-3/8, 3/4 pipe	11/32	3/4	13/16	1	16.07	15.22	14.46	13.77
370524	EX-9	1-3/8 & up, 1” pipe	1-9/32	1”	1-1/8	1	22.37	21.24	20.22	19.29
ITEM NO.	BOLT EXTRACTOR SET						PKG QTY			
							1	5	10	20
370550	SE-4C, 4 Piece Set, Extractor Sizes: EX 2, 3, 4, & 5						8.83	8.37	7.95	7.57
370555	SE-5C, 5 Piece Set, Extractor Sizes: EX 1, 2, 3, 4, & 5						10.57	10.01	9.51	9.06



#370555

* EX-1 to EX-5-CARDED

ITEM NO.	PRICE EACH (1 PER CARD)			
	1	5	10	20
370527	\$1.92	\$1.82	\$1.73	\$1.66
370530	2.00	1.90	1.81	1.72
370533	2.28	2.16	2.05	1.95
370536	2.50	2.37	2.25	2.14
370539	3.04	2.89	2.75	2.62

Bolt Extractor & Left Hand Drill Bit Combination Sets

- These unique sets contain bolt extractors and the corresponding Magnum™ Premium Left Hand drill bits for fast and easy stud removal.
- Using the left hand drill may often eliminate the need to even use the bolt extractor, because the stud may loosen with counterclockwise rotation.
- A broken stud usually becomes work-hardened during the breaking process; the 135-degree split point drill bit cuts harder metals than a 118-degree point.

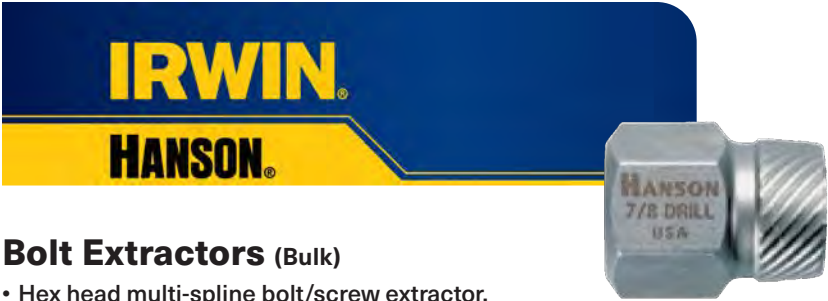


Bolt Extractor & Left Hand Drill Bit Combination Pack

- Combo set with bolt extractor and Magnum™ Premium Left Hand drill bit.
- Carded to permit hanging on pegboard.



ITEM NO.	DESCRIPTION	PRICE PER COMBO (CARDED)			
		1	5	10	20
370630	EX - 1 plus 3/32” LH Drill	\$5.55	\$5.27	\$5.01	\$4.78
370633	EX - 2 plus 1/8” LH Drill	5.65	5.37	5.11	4.87
370636	EX - 3 plus 3/16” LH Drill	7.35	6.97	6.64	6.33
370639	EX - 4 plus 1/4” LH Drill	9.64	9.15	8.71	8.31
370642	EX - 5 plus 5/16” LH Drill	13.56	12.87	12.25	11.69



Bolt Extractors (Bulk)

- Hex head multi-spline bolt/screw extractor.
- Designed to remove broken studs, bolts, socket screws and fittings for high torque applications.
- Aggressive left-hand spiral design for extra gripping power.

ITEM NO.	BOLT EXTRACTR SIZE	TO REMOVE DIAMETER OF BOLT	HEX HEAD SIZE	RECOM-MENDED DRILL BIT	UOM: 1EA x PKG QUANTITY				
					1	5	10	20	40
372800	1/8"	#12	1/2"	1/8"	-	\$2.51	\$2.38	\$2.25	\$2.14
372801	5/32	1/4"	1/2	5/32	-	2.51	2.38	2.25	2.14
372802	3/16	5/16	1/2	3/16	-	2.51	2.38	2.25	2.14
372803	7/32	3/8	1/2	7/32	-	2.51	2.38	2.25	2.14
372804	1/4	7/16	1/2	1/4	-	2.51	2.38	2.25	2.14
372805	9/32	1/2	1/2	9/32	-	2.51	2.38	2.25	2.14
372806	5/16	9/16	1/2	5/16	-	2.51	2.38	2.25	2.14
372807	11/32	5/8	1/2	11/32	-	2.51	2.38	2.25	2.14
372808	3/8	11/16	1/2	3/8	-	2.51	2.38	2.25	2.14
372809	13/32	3/4	1/2	13/32	-	2.51	2.38	2.25	2.14
372813	17/32"	1"	3/4"	17/32"	2.56	2.42	2.29	2.18	2.08
372816	5/8	1-3/16	3/4	5/8	2.88	2.72	2.58	2.45	2.33

Bolt Extractors (Carded)

- Carded for convenient hanging on displays.

ITEM NO.	BOLT EXTRACTR SIZE	TO REMOVE DIAMETER OF BOLT	HEX HEAD SIZE	RECOM-MENDED DRILL BIT	UOM: 1EA x PKG QUANTITY			
					1	3	12	24
372850	1/8"	#12	1/2"	1/8"	\$2.84	\$2.69	\$2.55	\$2.43
372852	3/16	5/16	1/2	3/16	2.47	2.34	2.22	2.11
372854	1/4	7/16	1/2	1/4	2.70	2.55	2.42	2.30
372855	9/32	1/2	1/2	9/32	2.47	2.34	2.22	2.11
372856	5/16	9/16	1/2	5/16	2.47	2.34	2.22	2.11
372857	11/32	5/8	1/2	11/32	2.47	2.34	2.22	2.11



Tap Extractors

- Hardened steel fingers fit in the flutes of broken taps for easy removal.
- Will not damage threads.
- Fits both NC and NF taps.

ITEM NO.	TAP SIZE	# OF FLUTES	1	5	10	20
370010	#4 (3mm)	2	\$23.82	\$22.50	\$21.32	\$20.25
370016	#5 (1/8", 3.2mm)	2	23.82	22.50	21.32	20.25
370022	#6 (3.5mm)	2	23.82	22.50	21.32	20.25
370031	#8 (4mm)	2	23.82	22.50	21.32	20.25
370040	#10 (3/16", 5mm)	2	23.82	22.50	21.32	20.25
370049	#12 (5.5mm)	2	24.82	23.44	22.21	21.10
370058	1/4" (6mm)	2	24.82	23.44	22.21	21.10
370067	5/16" (8mm)	2	25.79	24.36	23.08	21.93
370076	3/8" (9 – 10mm)	2	25.79	24.36	23.08	21.93
370085	7/16" (11mm)	2	26.71	25.22	23.89	22.70
370094	1/2" (12mm)	2	28.79	27.19	25.76	24.48
370013	#4 (3mm)	3	23.82	22.50	21.32	20.25
370019	#5 (1/8", 3.2mm)	3	23.82	22.50	21.32	20.25
370025	#6 (3.5mm)	3	23.82	22.50	21.32	20.25
370034	#8 (4mm)	3	23.82	22.50	21.32	20.25
370043	#10 (3/16", 5mm)	3	23.82	22.50	21.32	20.25
370052	#12 (5.5mm)	3	24.82	23.44	22.21	21.10
370061	1/4" (6mm)	3	24.82	23.44	22.21	21.10
370070	5/16" (8mm)	3	25.79	24.36	23.08	21.93
370079	3/8" (9 – 10mm)	3	25.79	24.36	23.08	21.93
370088	7/16" (11mm)	3	26.71	25.22	23.89	22.70
370097	1/2" (12mm)	3	28.79	27.19	25.76	24.48
			1	3	6	9
370103	9/16" (14mm)	3	39.71	37.50	35.53	33.75
370109	5/8" (16mm)	3	43.09	40.69	38.55	36.63
370118	3/4" (20mm)	3	55.40	52.32	49.57	47.09
370124	7/8" (22mm)	3	60.35	57.00	54.00	51.30
370130	1" (25mm)	3	67.71	63.94	60.58	57.55
			1	5	10	20
370028	#6 (3.5mm)	4	\$23.82	\$22.50	\$21.32	\$20.25
370037	#8 (4mm)	4	23.82	22.50	21.32	20.25
370046	#10 (3/16", 5mm)	4	23.82	22.50	21.32	20.25
370055	#12 (5.5mm)	4	24.82	23.44	22.21	21.10
370064	1/4" (6mm)	4	24.82	23.44	22.21	21.10
370073	5/16" (8mm)	4	25.79	24.36	23.08	21.93
370082	3/8" (9 – 10mm)	4	25.79	24.36	23.08	21.93
370091	7/16" (11mm)	4	26.71	25.22	23.89	22.70
370100	1/2" (12mm)	4	28.79	27.19	25.76	24.48
			1	3	6	9
370106	9/16" (14mm)	4	\$39.71	\$37.50	\$35.53	\$33.75
370112	5/8" (16mm)	4	43.09	40.69	38.55	36.63
370115	11/16" (18mm)	4	47.75	45.10	42.72	40.59
370121	3/4" (20mm)	4	55.40	52.32	49.57	47.09
370127	7/8" (22mm)	4	60.35	57.00	54.00	51.30
370133	1" (25mm)	4	67.71	63.94	60.58	57.55

25-Piece Bolt Extractor Set

- Sizes: 1/8" - 7/8" (all sizes shown above), for bolt sizes #12 to 1-11/16".



ITEM NO.	DESCRIPTION	1 set	4	8	12
372826	25-piece set	\$74.93	\$70.76	\$67.04	\$63.69

10-Piece Bolt Extractor Set

- Sizes: 1/8" - 13/32", for bolt sizes #12 to 3/4".



ITEM NO.	DESCRIPTION	1 set	4	8	12
372825	10-piece set	\$29.09	\$27.47	\$26.03	\$24.73

15-Piece Bolt Extractor Set

- Sizes: 1/8" - 9/16", for bolt sizes #12 to 1-1/16".



ITEM NO.	DESCRIPTION	1 set	4	8	12
372827	15-piece set	\$42.65	\$40.28	\$38.16	\$36.25



Locally Roasted Specialty Coffees

ESTD



2022

SOUTH FORK

COFFEE COMPANY



ITEM NO.	FLAVOR	TYPE	ROAST	SIZE	1	5	10	20
607905	Colombian	Ground	Medium	1/2 LB	\$6.79	\$6.47	\$6.18	\$5.91
607906	Colombian	Ground	Medium	1 LB	12.35	11.76	11.24	10.75
607912	Colombian	Whole Bean	Medium	1 LB	12.35	11.76	11.24	10.75
607955	Colombian	Organic Ground	Medium	1/2 LB	8.02	7.65	7.30	6.99
607956	Colombian	Organic Ground	Medium	1 LB	14.81	14.12	13.48	12.90
607957	Colombian	Organic Ground	Medium	2 LB	27.16	25.88	24.72	23.66
607959	Colombian	Organic Ground	Medium	5 LB	64.81	61.76	58.99	56.45
607962	Colombian	Organic Whole Bean	Medium	1 LB	14.81	14.12	13.48	12.90
607976	Colombian	Organic Ground	Dark	1 LB	14.81	14.12	13.48	12.90

Fine Coffees roasted to perfection in the South Fork Community of Central Kentucky.



Locally Roasted Specialty Coffees

ESTD



2022

SOUTH FORK

COFFEE COMPANY

Fine Coffees roasted to perfection in the South Fork Community of Central Kentucky.
Find us at:
www.southforkcoffee.co
Colombian
Net Weight 16 oz (454 g)

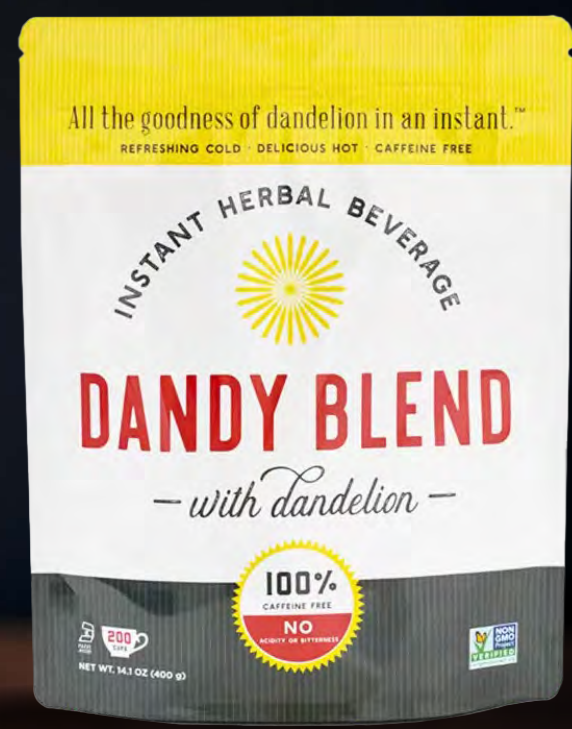
Elevate your coffee experience—
one sip, and you'll
taste the difference.

DANDY BLEND

Dandy Blend is crafted from four simple, roasted ingredients: barley, rye, dandelion root, and chicory root extracts. Enjoy Dandy Blend instantly—just mix with any liquid, hot or cold, with no steeping or brewing needed. Plus, it's 100% caffeine-free with no acidity or bitterness.

KEY HIGHLIGHTS:

- ◆ 100% caffeine-free with a smooth, bold flavor
- ◆ Instant herbal beverage
- ◆ No brewing required
- ◆ Only 4 Ingredients
- ◆ Crafted with a commitment to quality



ITEM NO.	DESCRIPTION	SIZE	1	6
607853	Dandy Blend - 25 Single-Serve Packets/Box	25/BOX	\$8.75	\$8.33
607856	Dandy Blend - 100 Serving Bag	7.05 OZ	11.14	10.61
607859	Dandy Blend - 200 Serving Bag	14.1 OZ	19.38	18.46
607862	Dandy Blend - 454 Serving Bag	2 LB	31.98	30.46

MAGNUM™ 58-Piece Tap & Die Set

Straight flute plug taps and hex dies.
Set contains:

- Taps and dies in sizes 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 5/8-11, 5/8-18, 3/4-10, 3/4-16
 - Pipe taps and dies in sizes 1/8-27 NPT, 1/4-18 NPT
 - T-Handle tap wrench 0 to 1/4", straight handle tap wrenches #4 to 1/2" & 1/4" to 3/4"
 - Die stocks: Med. R/H & 1" R/H
 - Screw pitch gauge
 - Screw driver
 - Spiral flute extractors in sizes EX-1 to EX-5
- Supplied in a sturdy plastic case (may be red or black).**



ITEM NO.	DESCRIPTION	1 set	2	3	4
601149	Magnum SP 58 piece set	\$616.03	\$586.69	\$560.02	\$535.67

MAGNUM™ 40-Piece Tap & Die Set

- Spiral or straight plug taps and hex dies.
 - Set contains:
 - Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20
 - Pipe tap and die in size 1/8-27 NPT
 - T-Handle tap wrenches: 0 to 1/4" & 3/16" to 1/2"
 - Straight handle tap wrench, die stock, screw pitch gauge, and screw driver
- Supplied in a sturdy plastic case (may be red or black).**



ITEM NO.	DESCRIPTION	1 set	2	4	6
601144	Magnum SP 40-pc STRAIGHT	\$322.53	\$306.40	\$291.81	\$278.55
580336	Magnum SP 40-pc SPIRAL	339.95	322.51	306.78	292.51

MAGNUM™ Super Premium Taps & Dies

- Highest quality for the most demanding applications
- Recommended for use in production tapping and drilling in work hardening grades of stainless steel and other hard metal applications
- Special Hi-Tungsten and Hi-Molybdenum tool steel
- Gold surface treated for maximum lubricity

MAGNUM™ 25-Piece Tap & Die Set

- Spiral point plug taps and hex dies.
- Set contains:
- Taps and dies in sizes 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrench, professional quality adjustable die stock and screw pitch gauge
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	2	4	6
580333	Magnum SP 25-piece set	\$243.99	\$231.94	\$221.02	\$211.09

MAGNUM™ 15-Piece Tap & Die Set

- Spiral point plug taps and hex dies.
- Set contains:
- Taps and dies in sizes 6-32, 8-32, 10-24, 10-32, 12-24, & 1/4-20
- T-Handle tap wrench, economy die stock, and screw pitch gauge
- Black plastic case with clear sliding cover.



ITEM NO.	DESCRIPTION	1 set	2	4	6
580330	Magnum SP 15-piece set	\$100.96	\$95.64	\$90.86	\$86.54

MAGNUM™ 24-Piece Tap & Die Set – METRIC

- Spiral point plug taps and hex dies.
- Set contains:
- Taps and dies in sizes 3.0-.50, 3.5-.60, 4.0-.70, 5.0-.80, 6.0-1.00, 8.0-1.25, 10.0-1.50, 12.0-1.75
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrenches: 0 to 1/4" & 3/16" to 1/2"
- Straight handle tap wrench #4 to 1/2"
- Die stock and screw pitch gauge (metric)
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	2	4	6
580353	Magnum SP 24-pc METRIC	\$250.49	\$237.81	\$226.35	\$215.94

MAGNUM™ 14-Piece Tap & Die Set – METRIC

- Spiral point plug taps and hex dies.
- Set contains:
- Taps in sizes 2.5-.45, 3.0-.50, 3.5-.60, 4.0-.70, 5.0-.80, 6.0-1.00
- Dies in sizes 3.0-.50, 3.5-.60, 4.0-.70, 5.0-.80, 6.0-1.00
- T-Handle tap wrench, economy die stock, and screw pitch gauge (metric)
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	2	4	6
580350	Magnum SP 14-pc METRIC	\$117.67	\$111.79	\$106.46	\$101.63

MAGNUM™ Drill & Tap Combo Sets

- Super Premium HSS spiral point or straight flute plug taps. Gold Oxide finish.
- Low temperature stress relief that enhances lubricity, reduces friction, and increases tap toughness.
- Designed primarily for machine tapping in a wide variety of materials.
- Corresponding Super Premium HSS drill bits included.

#580305 includes:

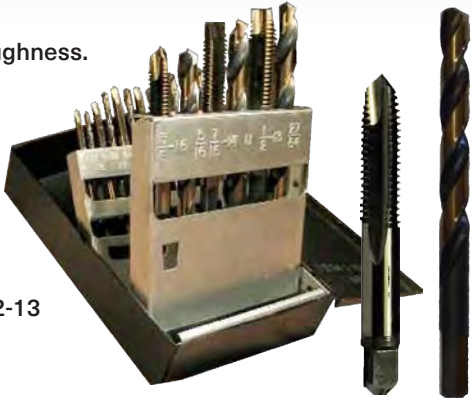
- National Coarse: Taps in sizes 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18
- Drill bits in sizes #36, 29, 25, 21, 7, F.

#580306 includes:

- National Coarse: Taps in sizes 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
- Drill bits in sizes #36, 29, 25, 21, 7, F, 5/16, U, & 27/64.

#580309 includes:

- National Fine: Taps in sizes 6-40, 8-36, 10-24, 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20
- Drill bits in sizes #33, 29, 25, 21, 3, 1, Q, 25/64, & 29/64.
- #580312 Metric tap sizes 2.5-.45 - 12.0-1.75 & drills: 2.05 – 10.20mm



ITEM NO.	DESCRIPTION	1 set	3	6	12
580305	12 piece set NC SPIRAL	\$54.73	\$51.96	\$49.46	\$47.18
580306	18 piece set NC SPIRAL	100.19	94.99	90.30	86.05
580309	18 piece set NF SPIRAL	118.08	111.95	106.42	101.41
580312	18 piece set Metric SPIRAL	133.21	126.29	120.05	114.40
601080	18 piece set NC STRAIGHT	106.11	100.73	95.88	91.47
601083	18 piece set NF STRAIGHT	109.03	103.58	98.64	94.16

40-Piece HSS Fractional Tap & Die Set

- Plug taps and hex dies.

Set contains:

- Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-16, 7/16-20, 1/2-13, 1/2-20
- Pipe tap and die in size 1/8-27 NPT
- 1" hexagon die-stock
- Adjustable tap wrench (0 – 1")
- 2- T-Handle tap wrenches (0 - 1/4" & 1/4" - 1/2")
- Thread pitch gauge and screwdriver.
- Plastic case.



ITEM NO.	DESCRIPTION	1 set	2	3	4
708510	40-Pc Tap & Die set	\$181.20	\$172.14	\$163.94	\$156.49

36-Piece HSS Drill & Tap Combo Set

Set contains:

- NC Plug Taps w/Jobber Drills: 6-32 tap #36 drill, 8-32 tap #29 drill, 10-24 tap #25 drill, 12-24 tap #16 drill, 1/4-20 tap #7 drill, 5/16-18 tap F drill, 3/8-16 tap 5/16 drill, 7/16-14 tap U drill, & 1/2-13 tap 27/64 drill
- NF Plug Taps w/Jobber Drills: 6-40 tap #33 drill, 8-36 tap #29 drill, 10-32 tap #21 drill, 12-28 tap #15 drill, 1/4-28 tap #3 drill, 5/16-24 tap I drill, 3/8-24 tap Q drill, 7/16-20 tap 25/64 drill, 1/2-20 tap 29/64 drill
- Metal case.



ITEM NO.	DESCRIPTION	1 set	2	3	4
708110	36-Pc Drill & Tap set	\$159.05	\$151.10	\$143.90	\$137.36

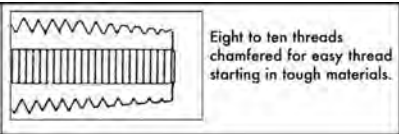
Information on tap styles

Taper style

- Starts the thread square with the workpiece.



- This section cuts full size thread

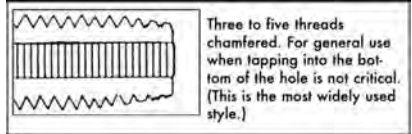


Plug style

- Generally used in thru holes or in blind holes with sufficient clearance.



- This section cuts full size thread

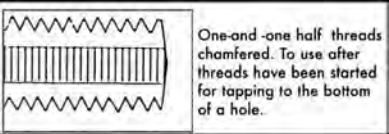


Bottoming style

- Cuts the thread to the bottom of blind holes. (Must start with another tap.)



- This section cuts full size thread



MAGNUM™ Spiral Point Taps – Plug Style

- Special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity.
- Spiral point taps are designed for machine tapping through holes in a wide variety of materials.
- The point of the tap continuously ejects the chips ahead of the tap, eliminating chip disposal problems and thread damage, and permitting higher speeds and faster cutting with less torque.
- Precision ground threads for the ultimate in accuracy and performance.
- Recommended for stainless and other hard metals.
- Plug style spiral pointed taps are ideal for production tapping of through holes.

RED = most common taps

Fractional

ITEM NO.	SIZE	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
					3	15	30	60
580100	#0-80	2	H1	3	\$13.64	\$12.95	\$12.33	\$11.76
580101	0-80	2	H2	3	13.64	12.95	12.33	11.76
580102	1-64	2	H1	3	12.49	11.86	11.29	10.77
580103	1-64	2	H2	3	12.49	11.86	11.29	10.77
580104	1-72	2	H1	3	12.49	11.86	11.29	10.77
580105	1-72	2	H2	3	12.49	11.86	11.29	10.77
580106	2-56	2	H2	3	11.58	10.97	10.43	9.93
580107	2-64	2	H2	3	12.13	11.52	10.96	10.46
580108	3-48	2	H2	3	8.81	8.37	7.96	7.60
580109	3-56	2	H1	3	10.04	9.53	9.07	8.66
580110	3-56	2	H2	3	9.28	8.81	8.39	8.00
580111	4-36	2	H2	3	8.01	7.61	7.24	6.91
580112	4-40	2	H1	3	7.69	7.30	6.95	6.63
580113	4-40	2	H2	3	7.42	7.03	6.68	6.36
580114	4-48	2	H1	3	8.64	8.20	7.81	7.45
580115	4-48	2	H2	3	8.01	7.61	7.24	6.91
580116	5-40	2	H1	3	7.97	7.57	7.20	6.87
580117	5-40	2	H2	3	7.42	7.03	6.68	6.36
580118	5-44	2	H2	3	7.75	7.35	7.00	6.68
580119	6-32	2	H1	3	6.15	5.84	5.55	5.30
580120	6-32	2	H2	3	6.15	5.84	5.55	5.30
580121	6-32	2	H3	3	5.88	5.57	5.29	5.04
580122	6-40	2	H2	3	6.44	6.11	5.82	5.55
580123	8-32	2	H1	3	6.24	5.92	5.64	5.38
580124	8-32	2	H2	3	6.24	5.92	5.64	5.38
580125	8-32	2	H3	3	5.97	5.66	5.38	5.12
580126	8-36	2	H2	3	6.53	6.20	5.90	5.63
580127	10-24	2	H1	3	7.07	6.71	6.39	6.09
580128	10-24	2	H2	3	6.64	6.30	6.00	5.72
580129	10-24	2	H3	3	6.46	6.12	5.81	5.54
580130	10-32	2	H1	3	6.56	6.23	5.93	5.66
580131	10-32	2	H2	3	6.56	6.23	5.93	5.66
580132	10-32	2	H3	3	6.46	6.12	5.81	5.54
580133	12-24	2	H3	3	7.15	6.78	6.44	6.13
580134	12-28	2	H3	3	6.87	6.52	6.20	5.92



ITEM NO.	SIZE	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
					3	15	30	60
580135	1/4-20	2	H1	3	\$7.49	\$7.11	\$6.77	\$6.46
580136	1/4-20	2	H2	3	7.49	7.11	6.77	6.46
580137	1/4-20	2	H3	3	7.17	6.79	6.45	6.14
580138	1/4-20	2	H5	3	7.81	7.39	7.03	6.69
580139	1/4-20	3	H3	3	8.67	8.21	7.80	7.43
580140	1/4-20	3	H5	3	8.67	8.21	7.80	7.43
580141	1/4-28	2	H1	3	7.49	7.11	6.77	6.46
580142	1/4-28	2	H2	3	7.49	7.11	6.77	6.46
580143	1/4-28	2	H3	3	7.17	6.79	6.45	6.14
580144	1/4-28	2	H4	3	7.49	7.11	6.77	6.46
580145	1/4-28	3	H2	3	8.67	8.21	7.80	7.43
580146	1/4-28	3	H4	3	8.32	7.90	7.52	7.17
580147	5/16-18	2	H1	3	8.37	7.95	7.57	7.22
580148	5/16-18	2	H2	3	8.08	7.67	7.30	6.97
580149	5/16-18	2	H3	3	7.65	7.25	6.89	6.56
580150	5/16-18	2	H5	3	8.08	7.67	7.30	6.97
580151	5/16-18	3	H3	3	9.35	8.86	8.41	8.01
580152	5/16-18	3	H5	3	8.97	8.52	8.11	7.74
580153	5/16-24	2	H1	3	8.37	7.95	7.57	7.22
580154	5/16-24	2	H2	3	8.08	7.67	7.30	6.97
580155	5/16-24	2	H3	3	7.65	7.25	6.89	6.56
580156	5/16-24	2	H4	3	8.08	7.67	7.30	6.97
580157	5/16-24	3	H2	3	8.97	8.52	8.11	7.74
580158	5/16-24	3	H4	3	8.97	8.52	8.11	7.74
580159	3/8-16	3	H1	3	10.47	9.92	9.43	8.98
580160	3/8-16	3	H2	3	9.88	9.38	8.93	8.52
580161	3/8-16	3	H3	3	9.03	8.55	8.13	7.74
580162	3/8-16	3	H5	3	10.05	9.54	9.08	8.67
580163	3/8-24	3	H1	3	10.05	9.54	9.08	8.67
580164	3/8-24	3	H2	3	9.88	9.38	8.93	8.52
580165	3/8-24	3	H3	3	9.03	8.55	8.13	7.74
580166	3/8-24	3	H4	3	10.05	9.54	9.08	8.67
580167	7/16-14	3	H2	3	15.57	14.78	14.07	13.43
580168	7/16-14	3	H3	3	15.31	14.50	13.78	13.12
580169	7/16-14	3	H5	3	15.57	14.78	14.07	13.43
580170	7/16-20	3	H3	3	15.31	14.50	13.78	13.12
580171	7/16-20	3	H5	3	15.57	14.78	14.07	13.43
580172	1/2-13	3	H2	3	19.09	18.13	17.25	16.46
580173	1/2-13	3	H3	3	15.79	14.96	14.21	13.54
580174	1/2-13	3	H5	3	18.63	17.64	16.76	15.96
580175	1/2-20	3	H1	3	16.36	15.53	14.78	14.10
580176	1/2-20	3	H2	3	16.36	15.53	14.78	14.10
580177	1/2-20	3	H3	3	15.79	14.96	14.21	13.54
580178	1/2-20	3	H5	3	16.36	15.53	14.78	14.10

MAGNUM™ Spiral Point Taps – Plug Style (continued)



ITEM NO.	SIZE	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
					1	5	10	20
580179	9/16-12	3	H3	1	\$23.18	\$21.96	\$20.86	\$19.87
580180	9/16-18	3	H3	1	23.18	21.96	20.86	19.87
580181	5/8-11	3	H3	1	31.75	30.08	28.58	27.21
580182	5/8-11	3	H5	1	31.75	30.08	28.58	27.21
580183	5/8-18	3	H3	1	31.75	30.08	28.58	27.21
580184	3/4-10	3	H3	1	43.57	41.28	39.21	37.35
580185	3/4-10	3	H5	1	41.83	39.71	37.80	36.06
580186	3/4-16	3	H3	1	46.39	43.95	41.75	39.76

MAGNUM™ 10-Piece Spiral Point Tap Set

- Sizes: ¼-20 & 28, 5/16-18 & 24, 3/8-16 & 24, 7/16-14 & 20, & ½-13 & 20.



ITEM NO.	DESCRIPTION	1 set	3	6	12
580300	MAGNUM SP 10 pc. spiral set	\$119.38	\$113.18	\$107.59	\$102.53

MAGNUM™ Straight Flute Taps – Taper, Plug or Bottoming Styles

- Precision ground threads for the ultimate in accuracy and performance.
- Suitable for general machine tapping and CNC tapping, as well as for hand use.
- Straight flute tap is the most common type of tap.
- Available in Taper, Plug, or Bottoming, with Plug style being the most common for general purpose use. (See descriptions on page 60.)
- Also available in a complete 3-piece set, with one each of Taper, Plug, and Bottoming taps of the same size.

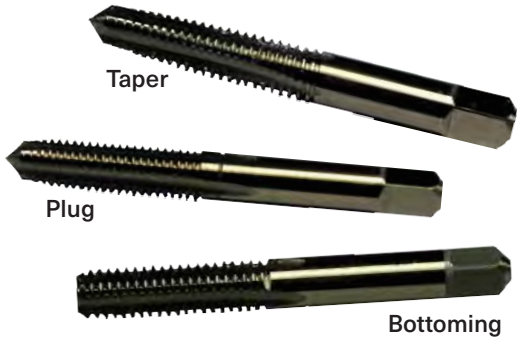
RED = most common taps taps

TAPER STYLE	PLUG STYLE	BOTTOMING STYLE	SIZE	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
							3	15	30	60
580601	580401	580801	0-80	2	H1	3	\$8.93	\$8.48	\$8.07	\$7.70
580602	580402	580802	0-80	2	H2	3	8.93	8.48	8.07	7.70
580603	580403	580803	1-64	2	H1	3	8.93	8.48	8.07	7.70
580604	580404	580804	1-64	2	H2	3	8.93	8.48	8.07	7.70
580605	580405	580805	1-72	2	H1	3	8.93	8.48	8.07	7.70
580606	580406	580806	1-72	2	H2	3	8.93	8.48	8.07	7.70
580607	580407	580807	2-56	3	H1	3	11.21	10.65	10.13	9.67
580608	580408	580808	2-56	3	H2	3	10.47	9.94	9.46	9.02
580609	580409	580809	2-64	3	H2	3	11.21	10.65	10.13	9.67



Metric

ITEM NO.	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
				3	15	30	60
601101	1.6-0.35	2	3	\$10.69	\$10.15	\$9.66	\$9.22
601102	1.8-0.35	2	3	10.69	10.15	9.66	9.22
601103	2.0-0.40	2	3	10.69	10.15	9.66	9.22
601104	2.2-0.45	2	3	10.69	10.15	9.66	9.22
601105	2.5-0.45	2	3	10.65	10.11	9.63	9.18
601106	3.0-0.50	2	3	7.56	7.18	6.83	6.52
601107	3.5-0.60	2	3	7.56	7.18	6.83	6.52
601108	4.0-0.70	2	3	7.88	7.46	7.09	6.75
601109	4.5-0.75	2	3	7.56	7.18	6.83	6.52
601110	5.0-0.80	2	3	7.88	7.46	7.09	6.75
601111	6.0-1.00	2	3	8.33	7.89	7.50	7.14
601112	7.0-1.00	2	3	8.84	8.39	7.99	7.62
601113	8.0-1.00	2	3	9.71	9.20	8.74	8.32
601114	8.0-1.25	2	3	9.71	9.20	8.74	8.32
601115	10.0-1.25	3	3	14.21	13.49	12.84	12.25
601116	10.0-1.50	3	3	14.81	14.03	13.33	12.69
601117	12.0-1.25	3	3	17.77	16.87	16.06	15.32
601118	12.0-1.75	3	3	18.51	17.54	16.66	15.87
				1	5	10	20
601119	14.0-1.50	3	1	\$26.73	\$25.38	\$24.16	\$23.05
601120	14.0-2.00	3	1	26.73	25.38	24.16	23.05
601121	16.0-1.50	3	1	31.41	29.82	28.39	27.08
601122	16.0-2.00	3	1	32.72	31.00	29.45	28.05
601123	18.0-2.50	3	1	45.47	43.16	41.08	39.20
601124	20.0-2.50	3	1	34.65	32.83	31.19	29.70

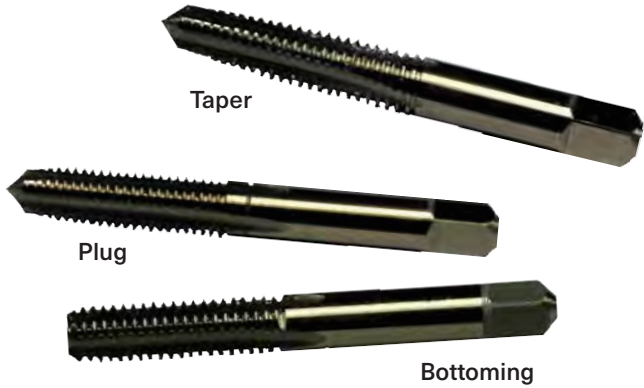


PRICE PER SET (1 each of Taper, Plug, Bottoming)				
ITEM NO.	1 set	3	6	12
580201	31.41	29.82	28.39	27.08

MAGNUM™ Straight Flute Taps – Taper, Plug or Bottoming Styles (continued)

RED = most common taps

TAPER STYLE	PLUG STYLE	BOTTOMING STYLE	SIZE	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
							3	15	30	60
580610	580410	580810	3-48	3	H1	3	\$9.33	\$8.86	\$8.43	\$8.05
580611	580411	580811	3-48	3	H2	3	8.33	7.91	7.53	7.18
580612	580412	580812	3-56	3	H2	3	9.00	8.54	8.13	7.76
580613	580413	580813	4-40	3	H2	3	6.72	6.38	6.07	5.79
580614	580414	580814	4-48	3	H2	3	6.72	6.38	6.07	5.79
580615	580415	580815	5-40	3	H1	3	7.32	6.95	6.61	6.31
580616	580416	580816	5-40	3	H2	3	6.72	6.38	6.07	5.79
580617	580417	580817	5-44	3	H2	3	7.27	6.90	6.57	6.26
580618	580418	580818	6-32	3	H1	3	5.65	5.37	5.11	4.87
580619	580419	580819	6-32	3	H2	3	5.65	5.37	5.11	4.87
580620	580420	580820	6-32	3	H3	3	5.32	5.05	4.81	4.59
580621	580421	580821	6-40	3	H1	3	6.83	6.48	6.17	5.89
580622	580422	580822	6-40	3	H2	3	6.09	5.78	5.51	5.25
580623	580423	580823	8-32	4	H1	3	5.65	5.37	5.11	4.87
580624	580424	580824	8-32	4	H2	3	5.65	5.37	5.11	4.87
580625	580425	580825	8-32	4	H3	3	5.41	5.14	4.89	4.67
580626	580426	580826	8-36	4	H2	3	6.17	5.86	5.58	5.32
580627	580427	580827	10-24	4	H1	3	6.12	5.81	5.53	5.28
580628	580428	580828	10-24	4	H2	3	6.12	5.81	5.53	5.28
580629	580429	580829	10-24	4	H3	3	5.85	5.56	5.29	5.05
580630	580430	580830	10-32	4	H1	3	6.09	5.78	5.51	5.25
580631	580431	580831	10-32	4	H2	3	6.09	5.78	5.51	5.25
580632	580432	580832	10-32	4	H3	3	5.85	5.56	5.29	5.05
580633	580433	580833	12-24	4	H3	3	6.48	6.15	5.86	5.59
580634	580434	580834	12-28	4	H3	3	6.48	6.15	5.86	5.59
580635	580435	580835	1/4-20	4	H1	3	6.80	6.46	6.14	5.86
580636	580436	580836	1/4-20	4	H2	3	6.80	6.46	6.14	5.86
580637	580437	580837	1/4-20	4	H3	3	6.75	6.39	6.08	5.79
580638	580438	580838	1/4-20	4	H5	3	6.80	6.46	6.14	5.86
580639	580439	580839	1/4-28	4	H1	3	6.80	6.46	6.14	5.86
580640	580440	580840	1/4-28	4	H2	3	6.80	6.46	6.14	5.86
580641	580441	580841	1/4-28	4	H3	3	6.75	6.39	6.08	5.79
580642	580442	580842	1/4-28	4	H4	3	6.80	6.46	6.14	5.86
580643	580443	580843	5/16-18	4	H2	3	7.48	7.10	6.76	6.45
580644	580444	580844	5/16-18	4	H3	3	7.22	6.84	6.50	6.19
580645	580445	580845	5/16-18	4	H5	3	7.48	7.10	6.76	6.45
580646	580446	580846	5/16-24	4	H2	3	7.75	7.35	7.00	6.68
580647	580447	580847	5/16-24	4	H3	3	6.93	6.58	6.27	5.98
580648	580448	580848	5/16-24	4	H4	3	7.75	7.35	7.00	6.68
580649	580449	580849	3/8-16	4	H1	3	9.00	8.54	8.13	7.76
580650	580450	580850	3/8-16	4	H2	3	9.00	8.54	8.13	7.76
580651	580451	580851	3/8-16	4	H3	3	8.51	8.07	7.66	7.30
580652	580452	580852	3/8-16	4	H5	3	9.00	8.54	8.13	7.76



MAGNUM™ Straight Flute Taps
– Taper, Plug or Bottoming Styles
(continued)

TAPER STYLE	PLUG STYLE	BOTTOMING STYLE	SIZE	# OF FLUTES	H LIMIT	PKG QTY	UOM: 1EA x PKG QUANTITY			
							3	15	30	60
580653	580453	580853	3/8-24	4	H1	3	\$9.00	\$8.54	\$8.13	\$7.76
580654	580454	580854	3/8-24	4	H2	3	9.00	8.54	8.13	7.76
580655	580455	580855	3/8-24	4	H3	3	8.17	7.76	7.39	7.05
580656	580456	580856	3/8-24	4	H4	3	9.00	8.54	8.13	7.76
580657	580457	580857	7/16-14	4	H3	3	14.43	13.67	12.99	12.37
580658	580458	580858	7/16-14	4	H5	3	15.09	14.33	13.64	13.01
580659	580459	580859	7/16-20	4	H3	3	13.85	13.15	12.52	11.94
580660	580460	580860	7/16-20	4	H5	3	15.09	14.33	13.64	13.01
580661	580461	580861	1/2-13	4	H1	3	16.45	15.62	14.87	14.18
580662	580462	580862	1/2-13	4	H3	3	14.90	14.12	13.41	12.77
580663	580463	580863	1/2-13	4	H5	3	16.45	15.62	14.87	14.18
580664	580464	580864	1/2-20	4	H1	3	16.45	15.62	14.87	14.18
580665	580465	580865	1/2-20	4	H3	3	14.31	13.58	12.93	12.33
580666	580466	580866	1/2-20	4	H5	3	16.45	15.62	14.87	14.18
							1	5	10	20
580667	580467	580867	9/16-12	4	H3	1	\$20.16	\$19.14	\$18.22	\$17.38
580668	580468	580868	9/16-12	4	H5	1	21.07	20.00	19.04	18.16
580669	580469	580869	9/16-18	4	H2	1	24.21	22.99	21.88	20.87
580670	580470	580870	9/16-18	4	H3	1	20.16	19.14	18.22	17.38
580671	580471	580871	9/16-18	4	H5	1	24.21	22.99	21.88	20.87
580672	580472	580872	5/8-11	4	H2	1	24.97	23.71	22.57	21.53
580673	580473	580873	5/8-11	4	H3	1	23.64	22.39	21.28	20.26
580674	580474	580874	5/8-11	4	H5	1	32.43	30.78	29.30	27.95
580675	580475	580875	5/8-18	4	H2	1	32.43	30.78	29.30	27.95
580676	580476	580876	5/8-18	4	H3	1	22.69	21.54	20.51	19.56
580677	580477	580877	5/8-18	4	H5	1	32.43	30.78	29.30	27.95
580678	580478	580878	11/16-11	4	H3	1	35.01	33.24	31.64	30.18
580679	580479	580879	11/16-16	4	H3	1	35.01	33.24	31.64	30.18
580680	580480	580880	3/4-10	4	H3	1	31.31	29.66	28.18	26.83
580681	580481	580881	3/4-10	4	H5	1	31.85	30.24	28.78	27.46
580682	580482	580882	3/4-16	4	H1	1	31.85	30.24	28.78	27.46
580683	580483	580883	3/4-16	4	H2	1	31.85	30.24	28.78	27.46
580684	580484	580884	3/4-16	4	H3	1	31.31	29.66	28.18	26.83
580685	580485	580885	3/4-16	4	H5	1	31.85	30.24	28.78	27.46
580686	580486	580886	7/8-9	4	H4	1	43.40	41.20	39.22	37.41
580687	580487	580887	7/8-9	4	H6	1	45.15	42.86	40.80	38.92
580688	580488	580888	7/8-14	4	H2	1	45.15	42.86	40.80	38.92
580689	580489	580889	7/8-14	4	H4	1	43.40	41.20	39.22	37.41
580690	580490	580890	7/8-14	4	H6	1	56.00	53.16	50.60	48.28
580691	580491	580891	1-8	4	H4	1	56.08	53.13	50.48	48.07
580692	580492	580892	1-8	4	H6	1	57.61	54.70	52.06	49.67
580693	580493	580893	1-12	4	H4	1	57.36	54.46	51.83	49.45
580694	580494	580894	1-14	4	H4	1	57.36	54.46	51.83	49.45
							1	3	6	12
580695	580495	580895	1-1/8-7	4	H4	1	\$93.20	\$88.48	\$84.22	\$80.34
580696	580496	580896	1-1/8-12	4	H4	1	97.08	91.97	87.38	83.21
580697	580497	580897	1-1/4-7	4	H4	1	107.87	102.48	97.60	93.16
580698	580498	580898	1-1/4-12	6	H4	1	107.87	102.48	97.60	93.16
580699	580499	580899	1-3/8-6	4	H4	1	185.34	176.08	167.69	160.07
580700	580500	580900	1-3/8-12	6	H4	1	185.34	176.08	167.69	160.07
580701	580501	580901	1-1/2-6	4	H4	1	212.12	201.51	191.92	183.19
580702	580502	580902	1-1/2-12	6	H4	1	212.12	201.51	191.92	183.19

PRICE PER SET (1 each of Taper, Plug, Bottoming)				
ITEM NO.	1 set	3	6	12
580220	24.53	23.29	22.17	21.15
580221	41.56	39.46	37.55	35.83
580222	41.56	39.46	37.55	35.83
580223	44.69	42.34	40.23	38.31
580224	42.91	40.73	38.77	36.99
	1 set	3	6	9
580225	60.47	57.41	54.64	52.13
580226	60.47	57.41	54.64	52.13
580227	68.08	64.63	61.52	58.69
580228	68.08	64.63	61.52	58.69
580229	90.16	85.59	81.47	77.72
580230	90.16	85.59	81.47	77.72
580231	128.49	122.06	116.25	110.97
580232	128.49	122.06	116.25	110.97
580233	159.41	151.44	144.23	137.67
580234	169.84	161.35	153.67	146.68
580235	169.84	161.35	153.67	146.68
	1 set	2	4	6
580237	272.31	258.86	246.68	235.60
580238	272.31	258.86	246.68	235.60
580239	319.43	303.65	289.36	276.36
580240	319.43	303.65	289.36	276.36
580241	541.76	515.33	491.36	469.52
580242	541.76	515.33	491.36	469.52
580243	620.03	589.78	562.35	537.36
580244	620.03	589.78	562.35	537.36

MAGNUM™ Straight Flute Taps – Taper, Plug or Bottoming Styles – METRIC

- Precision ground threads for the ultimate in accuracy and performance.
- Suitable for general machine tapping and CNC tapping, as well as for hand use.
- Straight flute tap is the most common type of tap.
- Available in Taper, Plug, or Bottoming, with Plug style being the most common for general purpose use. (See descriptions on page 60.)
- Also available in a complete 3-piece set, with one each of Taper, Plug, and Bottoming taps of the same size.

TAPER STYLE	PLUG STYLE	BOTTOMING STYLE	SIZE	# OF FLUTES	PKG QTY	UOM: 1EA x PKG QUANTITY			
						3	15	30	60
601401	601351	601451	1.6-0.35	2	3	11.17	10.57	10.04	9.55
601402	601352	601452	1.8-0.35	2	3	11.17	10.57	10.04	9.55
601403	601353	601453	2.0-0.40	3	3	11.17	10.57	10.04	9.55
601404	601354	601454	2.2-0.45	3	3	11.17	10.57	10.04	9.55
601405	601355	601455	2.5-0.45	3	3	6.59	6.24	5.92	5.64
601406	601356	601456	3.0-0.50	3	3	5.75	5.44	5.16	4.92
601407	601357	601457	3.5-0.60	3	3	6.82	6.45	6.13	5.83
601408	601358	601458	4.0-0.70	4	3	6.82	6.45	6.13	5.83
601409	601359	601459	4.5-0.75	4	3	7.00	6.63	6.29	5.99
601410	601360	601460	5.0-0.80	4	3	7.00	6.63	6.29	5.99
601411	601361	601461	6.0-1.00	4	3	5.82	5.51	5.23	4.98
601412	601362	601462	7.0-1.00	4	3	5.82	5.51	5.23	4.98
601413	601363	601463	8.0-1.00	4	3	8.80	8.33	7.91	7.53
601414	601364	601464	8.0-1.25	4	3	8.80	8.33	7.91	7.53
601415	601365	601465	10.0-1.25	4	3	10.24	9.69	9.20	8.76
601416	601366	601466	10.0-1.50	4	3	10.24	9.69	9.20	8.76
601417	601367	601467	12.0-1.25	4	3	15.85	15.01	14.26	13.58
601418	601368	601468	12.0-1.50	4	3	16.07	15.21	14.44	13.75
601419	601369	601469	12.0-1.75	4	3	16.07	15.21	14.44	13.75
						1	5	10	20
601422	601372	601472	14.0-1.50	4	1	\$18.15	\$17.19	\$16.32	\$15.53
601423	601373	601473	14.0-2.00	4	1	18.15	17.19	16.32	15.53
601424	601374	601474	16.0-1.50	4	1	22.30	21.11	20.04	19.07
601425	601375	601475	16.0-2.00	4	1	21.99	20.83	19.79	18.85
601426	601376	601476	18.0-1.50	4	1	29.94	28.35	26.91	25.61
601427	601377	601477	18.0-2.50	4	1	29.94	28.35	26.91	25.61
601428	601378	601478	20.0-1.50	4	1	40.68	38.51	36.56	34.80
601429	601379	601479	20.0-2.50	4	1	40.11	38.00	36.10	34.38
601430	601380	601480	22.0-1.50	4	1	41.76	39.57	37.59	35.80
601431	601381	601481	22.0-2.50	4	1	42.35	40.09	38.06	36.23
601432	601382	601482	24.0-2.00	4	1	54.34	51.44	48.84	46.48
601433	601383	601483	24.0-3.00	4	1	54.34	51.44	48.84	46.48
						1	3	6	9
601436	601386	601486	27.0-2.00	4	1	\$78.79	\$74.59	\$70.81	\$67.40
601437	601387	601487	27.0-3.00	4	1	78.79	74.59	70.81	67.40
601440	601390	601490	30.0-2.00	4	1	114.68	108.56	103.06	98.10
601441	601391	601491	30.0-3.50	4	1	114.68	108.56	103.06	98.10
601444	601394	601494	33.0-2.00	6	1	118.13	111.83	106.16	101.05
601445	601395	601495	33.0-3.50	4	1	118.13	111.83	106.16	101.05
601447	601397	601497	36.0-3.00	4	1	154.07	145.96	138.66	132.06
601448	601398	601498	36.0-4.00	4	1	154.07	145.96	138.66	132.06
601449	601399	601499	39.0-3.00	6	1	241.78	229.22	217.90	207.65
601450	601400	601500	39.0-4.00	6	1	241.78	229.22	217.90	207.65



Taper



Plug



Bottoming



3-piece sets – contact us



LEFT HAND

MAGNUM™ Straight Flute Taps – Taper, Plug or Bottoming Styles – LEFT HAND

- Precision ground threads for the ultimate in accuracy and performance.
- Suitable for general machine tapping and CNC tapping, as well as for hand use.
- Straight flute tap is the most common type of tap.
- Available in Taper, Plug, or Bottoming, with Plug style being the most common for general purpose use. (See descriptions on page 60.)
- Also available in a complete 3-piece set, with one each of Taper, Plug, and Bottoming taps of the same size.

TAPER STYLE	PLUG STYLE	BOTTOMING STYLE	SIZE	PKG QTY	UOM: EA x PACKAGE QUANTITY			
					3	15	30	60
601551	601501	601601	6-32	3	\$9.77	\$9.25	\$8.78	\$8.36
601552	601502	601602	8-32	3	10.63	10.07	9.56	9.10
601553	601503	601603	10-24	3	10.63	10.07	9.56	9.10
601554	601504	601604	10-32	3	10.63	10.07	9.56	9.10
601555	601505	601605	1/4-20	3	10.99	10.41	9.89	9.42
601556	601506	601606	1/4-28	3	11.14	10.55	10.01	9.53
601557	601507	601607	5/16-18	3	12.32	11.67	11.09	10.56
601558	601508	601608	5/16-24	3	12.49	11.83	11.23	10.69
601559	601509	601609	3/8-16	3	16.17	15.31	14.53	13.83
601560	601510	601610	3/8-24	3	15.94	15.11	14.35	13.67
601561	601511	601611	7/16-14	3	23.58	22.32	21.19	20.17
601562	601512	601612	7/16-20	3	23.58	22.32	21.19	20.17
601563	601513	601613	1/2-13	3	27.55	26.08	24.76	23.57
601564	601514	601614	1/2-20	3	27.17	25.74	24.45	23.29
					1	5	10	20
601565	601515	601615	9/16-12	1	\$45.75	\$43.31	\$41.11	\$39.13
601566	601516	601616	9/16-18	1	45.75	43.31	41.11	39.13
601567	601517	601617	5/8-11	1	52.11	49.33	46.84	44.58
601568	601518	601618	5/8-18	1	52.11	49.33	46.84	44.58
601569	601519	601619	11/16-11	1	56.73	53.71	50.99	48.53
601570	601520	601620	11/16-16	1	56.73	53.71	50.99	48.53
601571	601521	601621	3/4-10	1	61.51	58.23	55.28	52.61
601572	601522	601622	3/4-16	1	61.51	58.23	55.28	52.61
601575	601525	601625	7/8-9	1	84.41	79.91	75.86	72.20
601576	601526	601626	7/8-14	1	84.41	79.91	75.86	72.20
601579	601529	601629	1-8	1	92.11	87.20	82.78	78.80
601580	601530	601630	1-12	1	92.11	87.20	82.78	78.80
601581	601531	601631	1-14	1	92.11	87.20	82.78	78.80
					1	3	6	9
601584	601534	601634	1-1/8-7	1	\$229.00	\$216.95	\$206.10	\$196.29
601585	601535	601635	1-1/8-12	1	229.00	216.95	206.10	196.29
601588	601538	601638	1-1/4-7	1	289.07	273.86	260.16	247.77
601589	601539	601639	1-1/4-12	1	289.07	273.86	260.16	247.77
601592	601542	601642	1-3/8-6	1	355.15	336.70	320.07	305.01
601593	601543	601643	1-3/8-12	1	355.15	336.70	320.07	305.01
601596	601546	601646	1-1/2-6	1	413.59	392.10	372.74	355.20
601597	601547	601647	1-1/2-12	1	413.59	392.10	372.74	355.20



Taper



Plug



Bottoming



3-piece sets – contact us



MAGNUM™ Combination
Drill & Tap

- Combination drill and taps are ideally suited for on-site tapping in construction, maintenance and repair, assembly, and production environments.
- Hi-Molybdenum tool steel ensures longer tool life.
- The self-centering split point provides excellent drilling precision and accuracy.
- Select sizes are also available with 1/4" Quick Release hex shank.



ITEM NO.	SIZE	MAX. MATERIAL THICKNESS	THREAD LENGTH	PRICE EACH			
				1	5	10	20
737701	4-40	0.368	0.564	\$10.48	\$9.92	\$9.42	\$8.96
737702	4-48	0.369	0.564	11.11	10.52	9.99	9.51
737703	5-40	0.403	0.624	10.48	9.92	9.42	8.96
737704	5-44	0.404	0.624	11.11	10.52	9.99	9.51
737705	6-32	0.468	0.376	10.33	9.79	9.30	8.86
737706	6-40	0.470	0.376	11.11	10.52	9.99	9.51
737707	8-32	0.539	0.376	10.33	9.79	9.30	8.86
737708	8-36	0.540	0.376	10.49	9.93	9.43	8.98
737709	10-24	0.606	0.496	10.35	9.80	9.31	8.87
737710	10-32	0.608	0.496	10.49	9.93	9.43	8.98
737711	12-24	0.677	0.496	10.58	10.01	9.51	9.05
737712	12-28	0.678	0.496	11.42	10.81	10.27	9.77
737713	1/4-20	0.746	0.626	10.72	10.16	9.65	9.19
737714	1/4-28	0.750	0.626	11.25	10.66	10.13	9.64
737715	5/16-18	0.889	0.683	14.51	13.75	13.06	12.44
737716	5/16-24	0.893	0.683	14.63	13.89	13.22	12.61
737717	3/8-16	1.031	0.746	17.56	16.63	15.80	15.05
737718	3/8-24	1.036	0.746	17.53	16.65	15.84	15.11
737719	7/16-14	1.172	0.882	21.71	20.57	19.54	18.61
737720	7/16-20	1.178	0.880	22.36	21.18	20.13	19.17
737721	1/2-13	1.378	0.940	24.51	23.22	22.06	21.01
737722	1/2-20	1.384	0.940	23.85	22.65	21.55	20.56
737723	9/16-12	1.395	0.940	35.82	33.91	32.19	30.64
737724	9/16-18	1.403	0.940	35.82	33.91	32.19	30.64
737725	5/8-11	1.412	0.940	44.96	42.59	40.46	38.54
737726	5/8-18	1.421	0.940	43.16	40.97	39.00	37.21
METRIC				1	5	10	20
773751	3.0-0.50	0.403	0.624	\$10.93	\$10.35	\$9.82	\$9.35
773752	4.0-0.70	0.538	0.376	10.93	10.35	9.82	9.35
773753	5.0-0.80	0.610	0.496	10.93	10.35	9.82	9.35
773754	6.0-1.00	0.746	0.626	10.78	10.21	9.70	9.24
773755	7.0-1.00	0.882	0.686	14.72	13.93	13.23	12.59
773756	8.0-1.25	0.892	0.686	14.51	13.75	13.06	12.44
773757	10.0-1.50	1.037	0.746	17.80	16.85	16.00	15.23
773758	12.0-1.75	1.373	0.942	24.86	23.53	22.34	21.27

MAGNUM™ Combination Drill & Tap Sets

- 6-Piece Set NC & NF (#773741) includes:
- Sizes 6-32, 8-32, 10-24, 10-32, 12-24, & 1/4-20.



ITEM NO.	DESCRIPTION	1	3	6	9
773741	6 piece set NC & NF	\$79.55	\$75.31	\$71.49	\$68.05
773742	7 piece set NC	110.92	105.16	99.96	95.26
773743	7 piece set NF	110.81	105.20	100.13	95.53



7-Piece Set NC (#773742) includes:

- Sizes 8-32, 10-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, & 1/2-13.



7-Piece Set NF (#773743) includes:

- Sizes 8-36, 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, & 1/2-20.

MAGNUM™ Taper Pipe Taps

- Regular-thread NPT taper pipe taps are used for tapping pipe fittings and couplings in a wide variety of materials.



ITEM NO.	SIZE NPT	# OF FLUTES	OAL INCHES	SHANK DIA	TAP DRILL SIZE	PKG QTY	UOM: EA x PACK QUANTITY			
							3	15	30	60
601660	1/16-27	4	2-1/8"	.3125	D	3	\$20.49	\$19.41	\$18.44	\$17.56
601663	1/8-27	4	2-1/8	.3125	11/32	3	20.49	19.41	18.44	17.56
601666	1/8-27	4	2-1/8	.4375	11/32	3	20.49	19.41	18.44	17.56
							1	5	10	20
601669	1/4-18	4	2-7/16	.5625	7/16	3	\$23.26	\$22.04	\$20.94	\$19.94
601672	3/8-18	4	2-9/16	.7000	37/64	1	29.79	28.22	26.81	25.54
601675	1/2-14	4	3-1/8	.6875	23/32	1	49.35	46.75	44.41	42.30
601678	3/4-14	5	3-1/4	.9063	59/64	1	54.86	51.97	49.38	47.02
601681	1 - 11-1/2	5	3-3/4	1.1250	1-5/32	1	54.47	51.61	49.03	46.69
							1	2	4	6
601684	1-1/4 - 11-1/2	5	4	1.3125	1-1/2	1	\$115.44	\$109.44	\$104.04	\$99.14
601687	1-1/2 - 11-1/2	7	4-1/4	1.5000	1-47/64	1	158.37	150.14	142.73	136.01
601690	2 - 11-1/2	7	4-1/2	1.8750	2-7/32	1	207.13	196.65	187.17	178.56

MAGNUM™ Hex Dies

- Special Hi-Molybdenum tool steel, polished gold finish with black surface treated threads for long life.
- The outside hex configuration allows both wrench and die stock use in threading.



ITEM NO.	SIZE	ACROSS FLATS	PKG QTY	UOM: EA x PACK QUANTITY			
				3	15	30	60
601700	4-40	1"	3	\$8.18	\$7.75	\$7.35	\$7.00
601701	6-32	1"	3	8.07	7.64	7.26	6.92
601702	8-32	1"	3	8.18	7.75	7.35	7.00
601703	10-24	1"	3	8.07	7.64	7.26	6.92
601704	10-32	1"	3	8.18	7.75	7.35	7.00
601705	12-24	1"	3	8.18	7.75	7.35	7.00
601706	1/4-20	1"	3	8.07	7.64	7.26	6.92
601707	1/4-28	1"	3	8.07	7.64	7.26	6.92
601708	5/16-18	1"	3	8.07	7.64	7.26	6.92
601709	5/16-24	1"	3	8.18	7.75	7.35	7.00
601710	3/8-16	1"	3	8.07	7.64	7.26	6.92
601711	3/8-24	1"	3	8.07	7.64	7.26	6.92
601712	7/16-14	1"	3	8.07	7.64	7.26	6.92
601713	7/16-20	1"	3	8.18	7.75	7.35	7.00
601714	1/2-13	1"	3	8.46	8.01	7.61	7.25
601715	1/2-20	1"	3	8.46	8.01	7.61	7.25
				1	5	10	20
601716	9/16-12	1-7/16"	1	\$18.48	\$17.49	\$16.61	\$15.81
601717	9/16-18	1-7/16"	1	18.48	17.49	16.61	15.81
601718	5/8-11	1-7/16"	1	18.22	17.26	16.40	15.62
601719	5/8-18	1-7/16"	1	18.22	17.26	16.40	15.62
601720	3/4-10	1-7/16"	1	18.22	17.26	16.40	15.62
601721	3/4-16	1-7/16"	1	18.22	17.26	16.40	15.62

Pipe Thread

ITEM NO.	PIPE THREAD SIZE	ACROSS FLATS	PKG QTY	PRICE EACH			
				1	3	15	30
601780	1/8-27NPT	1"	1	N/A	\$8.46	\$8.01	\$7.61
				1	5	10	20
601783	1/4-18NPT	1-7/16	1	18.22	17.26	16.40	15.62

Metric

ITEM NO.	METRIC SIZE	ACROSS FLATS	PKG QTY	UOM: EA x PACKAGE QUANTITY			
				3	15	30	60
601740	3.0-0.50	1"	3	\$9.92	\$9.39	\$8.91	\$8.48
601743	3.5-0.60	1"	3	9.92	9.39	8.91	8.48
601746	4.0-0.70	1"	3	10.38	9.83	9.33	8.88
601749	5.0-0.80	1"	3	10.38	9.83	9.33	8.88
601752	6.0-1.00	1"	3	10.38	9.83	9.33	8.88
601755	8.0-1.25	1"	3	10.72	10.16	9.65	9.19
601758	10.0-1.50	1"	3	10.87	10.29	9.77	9.30
601761	12.0-1.75	1-7/16"	1	10.87	10.29	9.77	9.30
				1	5	10	20
601764	14.0-1.50	1-7/16	1	\$23.17	\$21.93	\$20.82	\$19.82

Hi-Carbon 40-Piece
Tap & Die Set

- Straight flute plug taps and choice of hex dies or round dies.

Set contains:

- Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20
- Pipe tap and die in size 1/8-27 NPT
- Professional quality tap & reamer wrench
- T-Handle tap wrenches: 0 to 1/4" & 3/16" to 1/2"
- Professional quality adjustable die stock, screw pitch gauge, and screw driver.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	3	6	9
602219	40-pc set HEX DIES	\$160.85	\$152.38	\$144.76	\$137.87
602218	40-pc set ROUND DIES	152.81	144.76	137.53	130.98

Hi-Carbon 37-Piece Tap & Die Set

- Straight flute plug taps and choice of hex dies or round dies.

Set contains:

- Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrenches: 0 to 1/4" & 3/16" to 1/2"
- Economy die stock.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	3	6	9
602214	37-pc set HEX DIES	\$136.16	\$129.09	\$122.72	\$116.94
602213	37-pc set ROUND DIES	126.90	120.31	114.37	108.99

Hi-Carbon Taps & Dies

- A less expensive line of taps and dies made of high quality carbon tool steel meeting the highest industry standard
- General-purpose applications like hand-tapping and rethreading
- Sharp, clean cutting edges, hardened, and tempered to cut smooth threads

Hi-Carbon 24-Piece Tap & Die Set

- Straight flute plug taps and choice of hex dies or round dies.

Set contains:

- Taps and dies in sizes 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrench and economy die stock.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	4	8	12
602210	24-pc set HEX DIES	\$104.21	\$98.65	\$93.66	\$89.14
602209	24-pc set ROUND DIES	98.77	93.51	88.77	84.49

Hi-Carbon 16-Piece Tap & Die Set

- Straight flute plug taps and choice of hex dies or round dies.

Set contains:

- Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, & 1/4-20
- T-Handle tap wrench and economy die stock.
- Plastic case.



ITEM NO.	DESCRIPTION	1 set	4	8	12
602206	16-pc set HEX DIES	\$58.92	\$55.77	\$52.95	\$50.40
602205	16-pc set ROUND DIES	55.73	52.76	50.09	47.67

Hi-Carbon 14-Piece
Tap & Die Set

- Straight flute plug taps and choice of hex dies or round dies.
- Set contains:
- Taps and dies in sizes 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrench and economy die stock.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	4	8	12
602202	14-pc set HEX DIES	\$61.21	\$57.99	\$55.09	\$52.46
602201	14-pc set ROUND DIES	59.79	56.60	53.73	51.14

Hi-Carbon 37-Piece Tap & Die Set
– METRIC

- Straight flute plug taps and hex dies.
- Set contains:
- Taps and dies in sizes 3mm-.50, 3mm-.60, 4mm-.70, 4mm-.75, 5mm-.80, 5mm-.90, 6mm-1.00, 7mm-1.00, 8mm-1.25, 9mm-1.00, 9mm-1.25, 10mm-1.25, 10mm-1.50, 11mm-1.50, 12mm-1.50, 12mm-1.75
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrenches: 0 to 1/4" & 3/16" to 1/2"
- Die stock.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	3	6	9
602279	37-pc METRIC	\$132.21	\$125.34	\$119.15	\$113.54

Hi-Carbon 16-Piece Tap & Die Set
– METRIC

- Straight flute plug taps and hex dies.
- Set contains:
- Taps and dies in sizes 4mm-.70, 5mm-.80, 6mm-1.00, 8mm-1.25, 10mm-1.25, 10mm-1.50, 12mm-1.50
- T-Handle tap wrench and economy die stock.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	3	6	12
602278	16-pc METRIC	\$62.52	\$59.19	\$56.19	\$53.48

Hi-Carbon 14-Piece
Tap & Die Set
– FINE THREAD

- Straight flute plug taps and choice of hex dies or round dies.
- Set contains:
- Taps and dies in sizes 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20
- Pipe tap and die in size 1/8-27 NPT
- T-Handle tap wrench and economy die stock.
- Supplied in a sturdy plastic case (may be red or black).



ITEM NO.	DESCRIPTION	1 set	4	8	12
602199	14-pc set FINE – HEX DIES	\$62.07	\$58.76	\$55.78	\$53.10
602198	14-pc set FINE – ROUND DIES	59.79	56.60	53.73	51.14

Hi-Carbon 60-Piece Tap & Die Set
– Fractional & Metric

- Plug taps and hex dies.
- Set contains:
- Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-16, 7/16-20, 1/2-13, 1/2-20; 3mm-.50, 4mm-.70, 5mm-.80, 6mm-1.00, 7mm-1.00, 8mm-1.25, 9mm-1.25, 10mm-1.00, 10mm-1.50, 12mm-1.75
- Pipe tap and die in size 1/8-27 NPT
- Die-stock with adjustable guide
- Adjustable tap wrench
- T-Handle tap wrench
- Screw pitch gauges (inch & metric) and screwdriver.
- Supplied in a custom made blow plastic case.



ITEM NO.	DESCRIPTION	1 set	3	6	12
708810	60-pc fractional & metric	\$160.77	\$152.42	\$144.89	\$138.07

Hi-Carbon 66-Piece Tap & Die Set

- Straight flute plug taps and hex dies.

Set contains:

- Taps and dies in sizes 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1"-8, 1"-14
- Pipe taps and dies in sizes 1/8-27 NPT, 1/4-18 NPT
- Plain die stock for 5/8" hexagon dies, adjustable die stock for 1" dies
- Adjustable die stock for 1-7/16" hexagon dies, adjustable die stock for 1-13/16" hexagon dies
- T-Handle tap wrench 0 to 1/4"
- Adjustable handle tap wrenches: 0 to 1/2", 1/4" to 1"
- Two-in-one tap wrench 1/4" to 1/2"
- 18 leaf standard thread pitch gauge.
- Supplied in sturdy plastic cases.



Hi-Carbon 66-Piece Tap & Die Set

– METRIC

- Straight flute plug taps and hex dies.

Set contains:

- Taps and dies in sizes 3mm-.50, 4-.70, 4-.75, 5-.80, 5-.90, 6-1.00, 7-1.00, 8-1.00, 8-1.25, 9-1.00, 9-1.25, 10-1.25, 10-1.50, 11-1.50, 12-1.50, 12-1.75, 14-1.25, 14-1.50, 14-2.00, 16-1.50, 16-2.00, 18-1.50, 18-2.50, 20-2.50, 22-1.50, 24-2.00, 24-3.00
- Pipe tap and die in size 1/8-28 BSP
- Plain die stock for 5/8" hexagon dies, adjustable die stock for 1" dies, adjustable die stock for 1-7/16" hexagon dies, adjustable die stock for 1-13/16" hexagon dies
- T-Handle tap wrench 0 to 1/4"
- Adjustable handle tap wrenches: 0 to 1/2", 1/4" to 1"
- Two-in-one tap wrench 1/4" to 1/2"
- 16 leaf metric thread pitch gauge.
- Supplied in sturdy plastic cases.

ITEM NO.	DESCRIPTION	1 set	2	3	4
602630	66-piece set METRIC	\$522.69	\$494.81	\$469.76	\$447.12

- IRWIN HANSON® has been manufacturing High Carbon Steel threading tools for over 100 years, and has proven itself to be a brand you can trust.
- Performance, thread quality, durability, and ease of use — proven for over a century. USA-made.

Hi-Carbon 53-Piece Tap & Die Set

- Straight flute plug taps and hex dies.

Set contains:

- Taps and dies in sizes 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16
- Pipe taps and dies in sizes 1/8-27 NPT, 1/4-18 NPT
- 1" adjustable die stock, 1-7/16" adjustable die stock
- T-Handle tap wrench 0 to ¼"
- Adjustable handle tap wrenches: 0 to 1/2", 1/4" to 1"
- 18 leaf standard thread pitch gauge
- Supplied in a sturdy plastic case.



ITEM NO.	DESCRIPTION	1 set	2	4	6
602625	53-Pc set	\$297.17	\$281.11	\$266.69	\$253.68
602628	53 Pc METRIC Set, 3.0-.50 - 18.0-2.50mm	320.33	303.01	287.47	273.45

Hi-Carbon 25-Piece Tap & Die Set

- Straight flute plug taps and hex dies.

Set contains:

- Taps and dies in sizes 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1"-8, 1"-14
- Pipe tap and die in size 1/4-18 NPT
- Adjustable die stocks: 1-7/16" hexagon, 1-13/16" hexagon
- Adjustable handle tap wrench: 1/4" to 1".
- Supplied in a sturdy plastic case.



ITEM NO.	DESCRIPTION	1 set	2	4	6
602610	25-piece set	\$370.27	\$350.26	\$332.29	\$316.09

Hi-Carbon Straight Flute Taps

- Hi-Carbon is a less expensive line of taps made of high quality carbon tool steel meeting the highest industry standard.
- General-purpose applications like hand-tapping and rethreading.
- Sharp, clean cutting edges, hardened, and tempered to cut smooth threads.



See descriptions of styles on Page 60. Plug style (pictured) is most popular.

TAPER STYLE	PLUG STYLE	BOTTOMING STYLE	SIZE	PKG QTY	UOM: EA x PACK QUANTITY			
					3	15	30	60
602051	602001	602101	0-80	3	\$3.61	\$3.41	\$3.24	\$3.08
602052	602002	602102	1-64	3	3.42	3.24	3.08	2.93
602053	602003	602103	1-72	3	3.42	3.24	3.08	2.93
602054	602004	602104	2-56	3	3.23	3.05	2.90	2.76
602055	602005	602105	2-64	3	3.23	3.05	2.90	2.76
602056	602006	602106	3-48	3	3.23	3.05	2.90	2.76
602057	602007	602107	3-56	3	3.23	3.05	2.90	2.76
602058	602008	602108	4-36	3	1.63	1.55	1.47	1.40
602059	602009	602109	4-40	3	1.63	1.55	1.47	1.40
602060	602010	602110	5-40	3	1.63	1.55	1.47	1.40
602061	602011	602111	6-32	3	1.72	1.63	1.54	1.47
602062	602012	602112	6-40	3	1.72	1.63	1.54	1.47
602063	602013	602113	6-48	3	1.72	1.63	1.54	1.47
602064	602014	602114	8-32	3	1.72	1.63	1.54	1.47
602065	602015	602115	8-36	3	1.72	1.63	1.54	1.47
602066	602016	602116	8-40	3	1.72	1.63	1.54	1.47
602067	602017	602117	10-24	3	1.83	1.73	1.65	1.57
602068	602018	602118	10-32	3	1.83	1.73	1.65	1.57
602069	602019	602119	12-24	3	1.89	1.79	1.70	1.61
602070	602020	602120	12-28	3	1.89	1.79	1.70	1.61
602071	602021	602121	14-20	3	2.10	1.99	1.89	1.80
602072	602022	602122	3/16-24	3	1.83	1.73	1.65	1.57
602073	602023	602123	3/16-32	3	1.83	1.73	1.65	1.57
602074	602024	602124	1/4-20	3	1.81	1.71	1.63	1.55
602075	602025	602125	1/4-28	3	1.81	1.71	1.63	1.55
602076	602026	602126	5/16-18	3	2.38	2.25	2.14	2.04
602077	602027	602127	5/16-24	3	2.41	2.28	2.16	2.06
602078	602028	602128	3/8-16	3	2.93	2.78	2.64	2.51
602079	602029	602129	3/8-24	3	2.97	2.81	2.67	2.54
602080	602030	602130	7/16-14	3	3.18	3.01	2.86	2.73
602081	602031	602131	7/16-20	3	3.18	3.01	2.86	2.73
602082	602032	602132	1/2-13	3	3.61	3.42	3.25	3.10
602083	602033	602133	1/2-20	3	3.66	3.47	3.29	3.13
					1	5	10	20
602084	602034	602134	9/16-12	1	\$5.31	\$5.03	\$4.77	\$4.54
602085	602035	602135	9/16-18	1	5.31	5.03	4.77	4.54
602086	602036	602136	5/8-11	1	6.25	5.92	5.63	5.36
602087	602037	602137	5/8-18	1	6.34	6.00	5.70	5.42
602088	602038	602138	11/16-11	1	8.23	7.79	7.39	7.04
602089	602039	602139	11/16-16	1	8.23	7.79	7.39	7.04
602090	602040	602140	3/4-10	1	8.24	7.80	7.41	7.06
602091	602041	602141	3/4-16	1	8.35	7.91	7.51	7.14
602092	602042	602142	7/8-9	1	11.03	10.44	9.91	9.43
602093	602043	602143	7/8-14	1	11.03	10.44	9.91	9.43
602094	602044	602144	1-8	1	13.66	12.93	12.28	11.69
602095	602045	602145	1-12	1	13.66	12.93	12.28	11.69
602096	602046	602146	1-14	1	13.66	12.93	12.28	11.69

Hi-Carbon Straight Flute Taps – METRIC



• Plug style.

ITEM NO.	SIZE	# OF FLUTES	PKG QTY	UOM: EA x PACKAGE QUANTITY			
				3	15	30	60
602251	3-0.50	3	3	\$2.13	\$2.01	\$1.91	\$1.82
602252	3-0.60	3	3	2.13	2.01	1.91	1.82
602253	4-0.70	4	3	1.99	1.88	1.79	1.70
602254	4-0.75	4	3	2.01	1.91	1.81	1.72
602255	5-0.80	4	3	1.89	1.79	1.70	1.62
602256	5-0.90	4	3	1.92	1.81	1.72	1.64
602257	6-1.00	4	3	2.28	2.16	2.05	1.95
602258	7-1.00	4	3	2.45	2.32	2.20	2.10
602259	8-1.00	4	3	2.53	2.39	2.28	2.17
602260	8-1.25	4	3	2.53	2.39	2.28	2.17
602261	9-1.00	4	3	3.15	2.99	2.84	2.70
602262	9-1.25	4	3	3.15	2.99	2.84	2.70
602263	10-1.00	4	3	3.51	3.33	3.16	3.01
602264	10-1.25	4	3	3.51	3.33	3.16	3.01
602265	10-1.50	4	3	3.51	3.33	3.16	3.01
602266	11-1.50	4	3	3.68	3.48	3.30	3.14
602267	12-1.25	4	3	4.28	4.05	3.85	3.67
602268	12-1.50	4	3	4.28	4.05	3.85	3.67
602269	12-1.75	4	3	4.28	4.05	3.85	3.67
				1	5	10	20
602270	14-1.25	4	1	5.69	5.39	5.13	4.88
602271	14-1.50	4	1	5.69	5.39	5.13	4.88
602272	14-2.00	4	1	5.69	5.39	5.13	4.88
602273	16-1.50	4	1	6.86	6.50	6.18	5.88
602274	16-2.00	4	1	6.86	6.50	6.18	5.88
602275	18-1.50	4	1	8.66	8.20	7.78	7.41
602276	18-2.00	4	1	8.66	8.20	7.78	7.41
602277	18-2.50	4	1	8.66	8.20	7.78	7.41

Hi-Carbon Pipe Taps & Dies



ITEM NO.	PIPE THREAD SIZE	ACROSS FLATS	PKG QTY	UOM: EA x PACK QUANTITY			
				3	15	30	60
602335	1/8-27NPT	1"	3	2.87	2.72	2.58	2.46
602336	1/4-18NPT	1"	3	2.87	2.72	2.58	2.46
				1	5	10	20
602337	3/8-18NPT	1-7/16	1	5.61	5.32	5.05	4.81
602338	1/2-14NPT	1-5/8	1	6.72	6.37	6.05	5.76
602339	3/4-14NPT	2	1	10.13	9.59	9.11	8.68
602340	1-11-1/2NPT	2-3/8	1	14.99	14.20	13.49	12.85

Hi-Carbon Dies – METRIC



ITEM NO.	METRIC SIZE	ACROSS FLATS	PKG QTY	UOM: EA x PACK QUANTITY			
				3	15	30	60
602351	3.0-0.50	1"	3	\$3.03	\$2.87	\$2.72	\$2.59
602352	3.0-0.60	1"	3	3.03	2.87	2.72	2.59
602353	4.0-0.70	1"	3	2.48	2.35	2.23	2.12
602354	4.0-0.75	1"	3	2.48	2.35	2.23	2.12
602355	5.0-0.80	1"	3	2.48	2.35	2.23	2.12
602356	5.0-0.90	1"	3	2.48	2.35	2.23	2.12
602357	6.0-1.00	1"	3	2.44	2.32	2.20	2.10
602358	7.0-1.00	1"	3	2.66	2.52	2.39	2.28
602359	8.0-1.00	1"	3	2.66	2.52	2.39	2.28
602360	8.0-1.25	1"	3	2.66	2.52	2.39	2.28
602361	9.0-1.00	1"	3	2.66	2.52	2.39	2.28
602362	9.0-1.25	1"	3	2.66	2.52	2.39	2.28
602363	10.0-1.00	1"	3	2.66	2.52	2.39	2.28
602364	10.0-1.25	1"	3	2.63	2.49	2.36	2.25
602365	10.0-1.50	1"	3	2.66	2.52	2.39	2.28
602366	11.0-1.50	1"	3	2.66	2.52	2.39	2.28
602367	12.0-1.25	1"	3	2.63	2.49	2.36	2.25
602368	12.0-1.50	1"	3	2.66	2.52	2.39	2.28
602369	12.0-1.75	1"	3	2.63	2.49	2.36	2.25
				1	5	10	20
602370	14.0-1.25	1-7/16"	1	\$7.04	\$6.67	\$6.33	\$6.02
602371	14.0-1.50	1-7/16"	1	6.94	6.58	6.25	5.95
602372	14.0-2.00	1-7/16"	1	7.04	6.67	6.33	6.02
602373	16.0-1.50	1-7/16"	1	6.94	6.58	6.25	5.95
602374	16.0-2.00	1-7/16"	1	6.94	6.58	6.25	5.95
602375	18.0-1.50	1-7/16"	1	6.94	6.58	6.25	5.95
602376	18.0-2.00	1-7/16"	1	7.04	6.67	6.33	6.02
602377	18.0-2.50	1-7/16"	1	7.04	6.67	6.33	6.02



ITEM NO.	SIZE NPT	# OF FLUTES	SHANK DIA.	TAP DRILL SIZE	PKG QTY	UOM: EA x PACK QUANTITY			
						3	15	30	60
602281*	1/8-27	4	5/16"	11/32"	3	\$3.86	\$3.66	\$3.48	\$3.31
602282*	1/4-18	4	7/16	7/16	3	5.03	4.76	4.53	4.31
						1	5	10	20
602283	3/8-18	4	1/2"	37/64"	1	6.28	5.95	5.65	5.38
602284	1/2-14	4	1/2	23/32	1	13.26	12.57	11.94	11.37
602285	3/4-14	4	5/8	59/64	1	14.15	13.41	12.74	12.13
602286	1" - 11-1/2	5	13/16	1-5/32	1	24.94	23.63	22.45	21.38
						1	3	6	9
602287	1-1/4 - 11-1/2	5	1"	1-1/2	1	39.67	37.58	35.70	34.00
602288	1-1/2 - 11-1/2	7	1-1/4"	1-47/64	1	53.57	50.75	48.21	45.92
602289	2" - 11-1/2	7	1-3/8"	2-7/32	1	106.06	100.40	95.32	90.72

*also available carded

Hi-Carbon Dies

- Hi-Carbon is a less expensive line of dies made of high quality carbon tool steel meeting the highest industry standard.
- Primarily used for restoring damaged threads.



ITEM NO.	SIZE	ACROSS FLATS	PKG QTY	UOM: EA x PACK QUANTITY			
				3	15	30	60
602301	#4-40	1"	3	\$2.87	\$2.72	\$2.58	\$2.46
602302	4-36	1"	3	2.87	2.72	2.58	2.46
602303	5-40	1"	3	2.87	2.72	2.58	2.46
602304	6-32	1"	3	2.87	2.72	2.58	2.46
602305	8-32	1"	3	2.87	2.72	2.58	2.46
602306	10-24	1"	3	2.87	2.72	2.58	2.46
602307	10-32	1"	3	2.87	2.72	2.58	2.46
602308	12-24	1"	3	2.87	2.72	2.58	2.46
602309	14-20	1"	3	2.87	2.72	2.58	2.46
602310	3/16"-24	1"	3	2.87	2.72	2.58	2.46
602311	3/16-32	1"	3	2.87	2.72	2.58	2.46
602312	1/4-20	1"	3	2.87	2.72	2.58	2.46
602313	1/4-28	1"	3	2.87	2.72	2.58	2.46
602314	5/16-18	1"	3	2.83	2.68	2.55	2.43
602315	5/16-24	1"	3	2.87	2.72	2.58	2.46
602316	3/8-16	1"	3	2.83	2.68	2.55	2.43
602317	3/8-24	1"	3	2.83	2.68	2.55	2.43
602318	7/16-14	1"	3	2.83	2.68	2.55	2.43
602319	7/16-20	1"	3	2.87	2.72	2.58	2.46
602320	1/2-13	1"	3	2.83	2.68	2.55	2.43
602321	1/2-20	1"	3	2.83	2.68	2.55	2.43
				1	5	10	20
602322	9/16-12	1-7/16"	1	7.44	7.04	6.68	6.36
602323	9/16-18	1-7/16"	1	7.33	6.95	6.60	6.29
602324	5/8-11	1-7/16"	1	7.33	6.95	6.60	6.29
602325	5/8-18	1-7/16"	1	7.33	6.95	6.60	6.29
602326	11/16-11	1-7/16"	1	7.44	7.04	6.68	6.36
602327	11/16-16	1-7/16"	1	7.44	7.04	6.68	6.36
602328	3/4-10	1-7/16"	1	7.33	6.95	6.60	6.29
602329	3/4-16	1-7/16"	1	7.33	6.95	6.60	6.29
602330	7/8-9	1-5/8"	1	15.01	14.21	13.49	12.84
602331	7/8-14	1-5/8"	1	15.01	14.21	13.49	12.84
602332	1-8	1-13/16"	1	16.80	15.91	15.10	14.37
602333	1-12	1-13/16"	1	16.80	15.91	15.10	14.37
602334	1-14	1-13/16"	1	16.80	15.91	15.10	14.37

Hi-Carbon Dies – Larger Sizes

ITEM NO.	SIZE	ACROSS FLATS	PKG QTY	UOM: EA x PACK QUANTITY			
				1	3	6	9
014043	1-1/8"-7	2"	1	\$32.16	\$30.38	\$28.78	\$27.34
014044	1-1/8-12	2"	1	32.16	30.38	28.78	27.34
014047	1-1/4-7	2-3/16"	1	37.31	35.24	33.38	31.71
014048	1-1/4-12	2-3/16"	1	37.31	35.24	33.38	31.71
014051	1-3/8-6	2-3/8"	1	42.22	39.88	37.78	35.89
014052	1-3/8-12	2-3/8"	1	42.22	39.88	37.78	35.89
014055	1-1/2-6	2-9/16"	1	46.91	44.31	41.97	39.88
014056	1-1/2-12	2-9/16"	1	44.31	41.97	39.88	37.98

Hi-Carbon Adjustable Round Dies

- Adjustable dies have a recessed adjusting screw so threads can be cut slightly undersize or oversize.
- Made of high quality carbon tool steel to meet the highest industry standards.

ITEM NO.	SIZE	O.D.	PKG QTY	UOM: EA x PACK QUANTITY			
				3	15	30	60
602382	0-80	1"	3	\$8.06	\$7.63	\$7.24	\$6.89
602383	1-64	1"	3	8.06	7.63	7.24	6.89
602384	1-72	1"	3	8.06	7.63	7.24	6.89
602385	2-56	1"	3	8.06	7.63	7.24	6.89
602386	2-64	1"	3	8.06	7.63	7.24	6.89
602387	3-48	1"	3	8.06	7.63	7.24	6.89
602388	3-56	1"	3	8.06	7.63	7.24	6.89
602389	4-40	1"	3	5.72	5.41	5.14	4.89
602390	4-36	1"	3	5.72	5.41	5.14	4.89
602391	5-40	1"	3	5.72	5.41	5.14	4.89
602392	6-32	1"	3	5.72	5.41	5.14	4.89
602393	8-32	1"	3	5.72	5.41	5.14	4.89
602394	10-24	1"	3	5.72	5.41	5.14	4.89
602395	10-32	1"	3	5.72	5.41	5.14	4.89
602396	12-24	1"	3	5.72	5.41	5.14	4.89
602397	14-20	1"	3	5.72	5.41	5.14	4.89
602398	3/16-24	1"	3	5.72	5.41	5.14	4.89
602399	3/16-32	1"	3	5.72	5.41	5.14	4.89
602400	1/4"-20	1"	3	5.72	5.41	5.14	4.89
602401	1/4-28	1"	3	5.72	5.41	5.14	4.89
602402	5/16-18	1"	3	5.72	5.41	5.14	4.89
602403	5/16-24	1"	3	5.72	5.41	5.14	4.89
602404	3/8-16	1"	3	5.72	5.41	5.14	4.89
602405	3/8-24	1"	3	5.72	5.41	5.14	4.89
602406	7/16-14	1"	3	5.72	5.41	5.14	4.89
602407	7/16-20	1"	3	5.72	5.41	5.14	4.89
602408	1/2-13	1"	3	5.64	5.34	5.08	4.83
602409	1/2-20	1"	3	5.72	5.41	5.14	4.89
				1	5	10	20
602410	9/16-12	1-1/2	1	\$8.74	\$8.28	\$7.86	\$7.49
602411	9/16-18	1-1/2	1	8.74	8.28	7.86	7.49
602412	5/8-11	1-1/2	1	8.74	8.28	7.86	7.49
602413	5/8-18	1-1/2	1	8.86	8.39	7.96	7.58
602414	11/16-11	2	1	14.93	14.13	13.42	12.77
602415	11/16-16	1-1/2	1	14.93	14.13	13.42	12.77
602416	3/4-10	2	1	14.72	13.95	13.25	12.62
602417	3/4-16	2	1	14.93	14.13	13.42	12.77
602418	7/8-9	2	1	14.72	13.95	13.25	12.62
602419	7/8-14	2	1	14.93	14.13	13.42	12.77
602420	1-8	2	1	14.93	14.13	13.42	12.77
602421	1-12	2	1	14.93	14.13	13.42	12.77
602422	1-14	2	1	14.93	14.13	13.42	12.77
				3	15	30	60
602425	1/8-27 NPT	1	3	\$5.72	\$5.41	\$5.14	\$4.89
602426	1/4-18 NPT	1-1/2	3	5.72	5.41	5.14	4.89
				1	5	10	20
602427	3/8-18 NPT	1-1/2	1	\$8.86	\$8.39	\$7.96	\$7.58
602428	1/2-14 NPT	1-1/2	1	8.86	8.39	7.96	7.58

252-Piece Tap & Die Countertop Display Hi-Carbon Straight Flute Taps & Hex Dies

- Compact metal case attractively displays complete assortment of Taps, Dies, and Wrenches.
- Locking scratch proof Lexan front reduces pilferage and keeps merchandise clean.
- Broad range of sizes. Practically all customers can be served with a relatively small investment.
- Price strips furnished on each display for quick reference at point of sale
- Furnished with Hex or Round Dies



ITEM NO.	DESCRIPTION	1	2
602500	252 pc. tap & die display (hex dies)	\$983.96	\$938.20



Rethreading Taps

- Manufactured from carbon steel.
- Restores internal threads without undercutting.
- Made in the USA.



ITEM NO.	SIZE	FINISH	1	5	10	20
707610	1/4"-20	Bright	\$2.35	\$2.22	\$2.11	\$2.00
707620	1/4-28	Black	2.35	2.22	2.11	2.00
707630	5/16-18	Bright	2.46	2.32	2.20	2.09
707640	5/16-24	Black	2.46	2.32	2.20	2.09
707650	3/8-16	Bright	2.56	2.42	2.29	2.18
707660	3/8-24	Black	2.56	2.42	2.29	2.18
707670	7/16-14	Bright	2.66	2.51	2.38	2.26
707680	7/16-20	Black	2.66	2.51	2.38	2.26
707690	1/2-13	Bright	3.29	3.11	2.95	2.80
707700	1/2-20	Black	3.28	3.10	2.93	2.79
707710	9/16-12	Bright	3.37	3.18	3.01	2.86
707720	9/16-18	Black	3.37	3.18	3.01	2.86

Display Contents

Contents	Size	No. of Each
Plug Tap	1/4-20 NC	6
	1/4-28 NF	6
	5/16-18 NC	6
	5/16-24 NF	6
	3/8-16 NC	6
	3/8-24 NF	6
	7/16-14 NC	6
	7/16-20 NF	6
	1/2-13 NC	6
	1/2-20 NF	6
	9/16-12 NC	6
	9/16-18 NF	6
	5/8-11 NC	6
	5/8-18 NF	6
	3/4-10 NC	6
	3/4-16 NF	6
	4-40 NC	12
	6-32 NC	12
	8-32 NC	12
	10-24 NC	12
	10-32 NF	12
	12-24 NC	12
Pipe Tap	1/8-27 NPT	6
Round or Hex Die	1/4-20 NC	3
	1/4-28 NF	3
	5/16-18 NC	3
	5/16-24 NF	3
	3/8-16 NC	3
	3/8-24 NF	3
	7/16-14 NC	3
	7/16-20 NF	3
	1/2-13 NC	3
	1/2-20 NF	3
	9/16-12 NC	3
	9/16-18 NF	3
	5/8-11 NC	3
	5/8-18 NF	3
	3/4-10 NC	3
	3/4-16 NF	3
	4-40 NC	3
	6-32 NC	3
	8-32 NC	3
	10-24 NC	3
	10-32 NF	3
	12-24 NC	3
	1/8-27 NPT	3
T-Handle Tap Wrench	0 TO 1/4"	3
T-Handle Tap Wrench	3/16" TO 1/2"	3
Economy Die Stock	1" Round Hex	3

Die Wrench – Professional Quality

- #604143 and #604146 have 3-jaw self centering adjustable guides to assure straight threads and easy starting.
- #604149 is a sturdy cast hex die stock with chromed steel handles.



ITEM NO.	DESCRIPTION	1	5	10	20
604143	1" Round or Hex	\$14.22	\$13.47	\$12.80	\$12.19
604146	1½ Round, 1-7/16 Hex	22.13	20.96	19.91	18.96
		1	3	6	12
604149	1-7/8" Hex	\$34.41	\$32.67	\$31.10	\$29.67

Die Wrench – Economy Solid

- Designed to hold either 1" round or 1" hex dies.
- Carded.



ITEM NO.	DESCRIPTION	1	5	10	20
604140	1" Round or Hex	\$5.27	\$5.00	\$4.76	\$4.54

Screw Pitch Gauges

- Made with flat thread forms on top of each blade.
- Gives screw pitches on V-threads.



ITEM NO.	DESCRIPTION	1	5	10	20
604160	US Sizes 12-40	\$5.60	\$5.30	\$5.04	\$4.80
604163	Metric 0.5-1.75mm, #27, #28	5.60	5.30	5.04	4.80

Tap & Reamer Wrench – Economy

- For taps up to 1/2".
- Chrome finished, knurled handles with black center.



ITEM NO.	DESCRIPTION	1	5	10	20
604120	Size: 0 - 1/2"	\$8.94	\$8.47	\$8.05	\$7.67



Tap & Reamer Wrenches – Professional Quality

- Hardened steel jaws.
- Adjusts easily by turning handles.
- Available in three sizes.



ITEM NO.	DESCRIPTION	1	5	10	20
604123	Size: #4 to 1/2"	\$11.31	\$10.71	\$10.18	\$9.69
604126	Size: 1/4" to 3/4"	21.74	20.59	19.56	18.63
		1	3	6	12
604129	Size: 1/2" to 1-1/8"	60.14	56.97	54.13	51.55

T-Handle Tap Wrenches

- Sliding T-handle with spring tension to hold taps in place, self equalizing jaws.
- #604116 has removable handle and 3/8" female square drive for extensions, ratchet, and power drive.



ITEM NO.	DESCRIPTION	1	5	10	20
604110	Size: 0 to 1/4"	\$6.56	\$6.21	\$5.90	\$5.62
604113	Size: 3/16" to 1/2"	9.71	9.20	8.74	8.32
604116	Size: 3/16" to 1/2"	11.00	10.42	9.90	9.43

Ratcheting T-Handle Tap Wrenches

- Three position gear box for quick efficient ratcheting action.
- Chrome plated for long life and rust resistance.



ITEM NO.	DESCRIPTION	1	5	10	20
604100	Size: 0 to 1/4"	\$9.29	\$8.80	\$8.36	\$7.96
604103	Size: 1/4" to 1/2"	13.00	12.32	11.70	11.14



Solid Carbide End Mills
Series 120 – Standard Length,
Single End Square, Uncoated
(Single End Ball also available)



2 FLUTE	3 FLUTE	4 FLUTE	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
ITEM NO.	ITEM NO.	ITEM NO.				1	5	10	20
361000	361070	361140	1/64	1-1/2	1/16"	\$9.23	\$8.70	\$8.22	\$7.79
361001	361071	361141	1/32	1-1/2	3/32	5.54	5.22	4.93	4.68
361002	361072	361142	3/64	1-1/2	1/8	5.54	5.22	4.93	4.68
361003	361073	361143	1/16	1-1/2	3/16	4.43	4.17	3.95	3.74
361004	361074	361144	5/64	1-1/2	1/4	4.15	3.91	3.70	3.51
361005	361075	361145	3/32	1-1/2	3/8	3.88	3.65	3.45	3.27
361006	361076	361146	7/64	1-1/2	3/8	3.88	3.65	3.45	3.27
361007	361077	361147	1/8	1-1/2	1/2	3.69	3.48	3.29	3.12
361008	361078	361148	9/64	2	9/16	8.58	8.09	7.64	7.25
361009	361079	361149	5/32	2	9/16	8.22	7.74	7.32	6.94
361010	361080	361150	11/64	2	9/16	8.58	8.09	7.64	7.25
361011	361081	361151	3/16	2	5/8	7.94	7.48	7.07	6.70
361012	361082	361152	13/64	2-1/2	5/8	10.87	10.24	9.68	9.18
361013	361083	361153	7/32	2-1/2	5/8	9.60	9.04	8.55	8.10
361014	361084	361154	15/64	2-1/2	3/4	10.87	10.24	9.68	9.18
361015	361085	361155	1/4	2-1/2	3/4	7.85	7.39	6.99	6.62
361016	361086	361156	17/64	2-1/2	7/8	13.02	12.26	11.59	10.99
361017	361087	361157	9/32	2-1/2	7/8	11.91	11.22	10.60	10.05
361018	361088	361158	19/64	2-1/2	7/8	13.02	12.26	11.59	10.99
361019	361089	361159	5/16	2-1/2	7/8	10.62	10.00	9.45	8.96
361020	361090	361160	21/64	2-1/2	7/8	15.05	14.17	13.40	12.70
361021	361091	361161	11/32	2-1/2	7/8	13.85	13.04	12.33	11.69
361022	361092	361162	23/64	2-1/2	7/8	15.05	14.17	13.40	12.70
361023	361093	361163	3/8	2-1/2	7/8	13.48	12.70	12.00	11.38
361024	361094	361164	25/64	2-1/2	7/8	23.54	22.17	20.96	19.87
361025	361095	361165	13/32	2-1/2	7/8	23.08	21.74	20.55	19.48
361026	361096	361166	27/64	2-1/2	7/8	22.15	20.87	19.73	18.70
361027	361097	361167	7/16	2-1/2	1"	19.38	18.26	17.26	16.36
361028	361098	361168	29/64	3	1"	26.03	24.52	23.18	21.97
361029	361099	361169	15/32	3	1"	25.38	23.91	22.60	21.43
361030	361100	361170	31/64	3	1"	24.46	23.04	21.78	20.65
						1	5	10	15
361031	361101	361171	1/2	3	1"	\$23.08	\$21.74	\$20.55	\$19.48

Solid Carbide End Mills
Series 120 – Standard Length,
Single End Square, Uncoated
(continued)
(Single End Ball also available)



2 FLUTE	3 FLUTE	4 FLUTE	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
ITEM NO.	ITEM NO.	ITEM NO.				1	3	6	9
361032	361102	361172	33/64	3-1/2	1-1/4"	\$51.97	\$48.96	\$46.27	\$43.87
361033	361103	361173	17/32	3-1/2	1-1/4	51.60	48.61	45.95	43.56
361034	361104	361174	35/64	3-1/2	1-1/4	48.92	46.09	43.56	41.30
361035	361105	361175	9/16	3-1/2	1-1/4	45.23	42.61	40.27	38.18
361036	361106	361176	37/64	3-1/2	1-1/4	53.72	50.61	47.84	45.35
361037	361107	361177	19/32	3-1/2	1-1/4	51.69	48.70	46.03	43.64
361038	361108	361178	39/64	3-1/2	1-1/4	49.85	46.96	44.38	42.08
361039	361109	361179	5/8	3-1/2	1-1/4	47.08	44.35	41.92	39.74
361040	361110	361180	41/64	4"	1-1/2	79.13	74.54	70.45	66.79
361041	361111	361181	21/32	4"	1-1/2	78.46	73.91	69.86	66.23
361042	361112	361182	43/64	4"	1-1/2	77.54	73.04	69.04	65.45
361043	361113	361183	11/16	4"	1-1/2	68.31	64.35	60.82	57.66
361044	361114	361184	45/64	4"	1-1/2	72.92	68.70	64.93	61.56
361045	361115	361185	23/32	4"	1-1/2	72.92	68.70	64.93	61.56
361046	361116	361186	47/64	4"	1-1/2	72.92	68.70	64.93	61.56
361047	361117	361187	3/4	4"	1-1/2	65.54	61.74	58.36	55.32
						1	2	4	6
361048	361118	361188	49/64	4"	1-1/2	130.00	122.57	115.95	110.00
361049	361119	361189	25/32	4"	1-1/2	130.00	122.57	115.95	110.00
361050	361120	361190	51/64	4"	1-1/2	130.00	122.57	115.95	110.00
361051	361121	361191	13/16	4"	1-1/2	130.00	122.57	115.95	110.00
361052	361122	361192	53/64	4"	1-1/2	126.00	118.80	112.38	106.62
361053	361123	361193	27/32	4"	1-1/2	126.00	118.80	112.38	106.62
361054	361124	361194	55/64	4"	1-1/2	126.00	118.80	112.38	106.62
361055	361125	361195	7/8	4"	1-1/2	114.55	108.00	102.16	96.92
361056	361126	361196	57/64	4"	1-1/2	133.82	126.17	119.35	113.23
361057	361127	361197	29/32	4"	1-1/2	133.82	126.17	119.35	113.23
361058	361128	361198	59/64	4"	1-1/2	133.82	126.17	119.35	113.23
361059	361129	361199	15/16	4"	1-1/2	128.00	120.69	114.16	108.31
361060	361130	361200	61/64	4"	1-1/2	128.00	120.69	114.16	108.31
361061	361131	361201	31/32	4"	1-1/2	128.00	120.69	114.16	108.31
361062	361132	361202	63/64	4"	1-1/2	128.00	120.69	114.16	108.31
361063	361133	361203	1"	4	1-1/2	116.36	109.71	103.78	98.46



Solid Carbide End Mills
Series 125 – Standard Length,
Single End Square, TIN Coated,
4 Flute

- (Single End Ball also available)
- (2 Flute & 3 Flute also available)



ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
361490	1/64	1-1/2	1/16"	\$6.64	\$6.26	\$5.92	\$5.62
361491	1/32	1-1/2	3/32	6.37	6.00	5.67	5.38
361492	3/64	1-1/2	1/8	6.37	6.00	5.67	5.38
361493	1/16	1-1/2	3/16	5.26	4.96	4.68	4.44
361494	5/64	1-1/2	1/4	4.69	4.42	4.18	3.96
361495	3/32	1-1/2	3/8	4.71	4.43	4.19	3.97
361496	7/64	1-1/2	3/8	4.62	4.35	4.11	3.90
361497	1/8	1-1/2	1/2	4.52	4.26	4.03	3.82
361498	9/64	2	9/16	9.54	8.99	8.50	8.06
				1	5	10	20
361499	5/32	2	9/16	9.42	8.87	8.38	7.95
				1	5	10	15
361500	11/64	2	9/16	9.43	8.89	8.40	7.96
361501	3/16	2	5/8	9.14	8.61	8.14	7.71
361502	13/64	2-1/2	5/8	12.61	11.88	11.23	10.64
361503	7/32	2-1/2	5/8	11.72	11.04	10.44	9.90
361504	15/64	2-1/2	3/4	12.46	11.74	11.10	10.52
361505	1/4	2-1/2	3/4	11.54	10.87	10.27	9.74
361506	17/64"	2-1/2"	7/8"	14.70	13.84	13.08	12.41
361507	9/32	2-1/2	7/8	14.31	13.48	12.74	12.08
361508	19/64	2-1/2	7/8	14.47	13.63	12.89	12.22
361509	5/16	2-1/2	7/8	14.03	13.22	12.49	11.84
361510	21/64	2-1/2	7/8	17.10	16.10	15.22	14.43
361511	11/32	2-1/2	7/8	16.62	15.65	14.79	14.03
361512	23/64	2-1/2	7/8	16.49	15.53	14.68	13.92
361513	3/8	2-1/2	7/8	16.15	15.22	14.38	13.64
361514	25/64	2-1/2	7/8	29.08	27.39	25.89	24.55
361515	13/32	2-1/2	7/8	28.62	26.96	25.48	24.16
361516	27/64	2-1/2	7/8	27.69	26.09	24.66	23.38
361517	7/16	2-1/2	1	27.69	26.09	24.66	23.38
361518	29/64	3	1	31.35	29.53	27.91	26.46
361519	15/32	3	1	31.27	29.46	27.85	26.40
361520	31/64	3	1	30.52	28.75	27.17	25.76
361521	1/2	3	1	27.88	26.26	24.82	23.53

ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	3	6	9
361522	33/64	3-1/2	1-1/4"	\$68.71	\$64.73	\$61.18	\$58.01
361523	17/32	3-1/2	1-1/4	67.14	63.25	59.79	56.68
361524	35/64	3-1/2	1-1/4	77.13	72.66	68.68	65.11
361525	9/16	3-1/2	1-1/4	53.82	50.70	47.92	45.43
361526	37/64	3-1/2	1-1/4	66.46	62.61	59.18	56.10
361527	19/32	3-1/2	1-1/4	64.95	61.18	57.83	54.83
361528	39/64	3-1/2	1-1/4	63.06	59.41	56.15	53.24
361529	5/8	3-1/2	1-1/4	53.17	50.09	47.34	44.88
361530	41/64	4	1-1/2	94.43	88.96	84.08	79.71
361531	21/32	4	1-1/2	93.14	87.74	82.93	78.62
361532	43/64	4	1-1/2	91.70	86.38	81.65	77.41
361533	11/16	4	1-1/2	88.34	83.22	78.66	74.57
361534	45/64	4	1-1/2	86.88	81.84	77.36	73.34
361535	23/32	4	1-1/2	86.01	81.03	76.59	72.61
361536	47/64	4	1-1/2	85.29	80.35	75.95	72.00
361537	3/4	4	1-1/2	76.43	72.00	68.05	64.52
				1	2	4	6
361538	49/64	4	1-1/2	144.60	136.34	128.97	122.35
361539	25/32	4	1-1/2	143.80	135.58	128.25	121.68
361540	51/64	4	1-1/2	143.00	134.83	127.54	121.00
361541	13/16	4	1-1/2	142.00	133.89	126.65	120.15
361542	53/64	4	1-1/2	142.71	134.55	127.28	120.75
361543	27/32	4	1-1/2	142.44	134.30	127.04	120.52
361544	55/64	4	1-1/2	142.00	133.89	126.65	120.15
361545	7/8	4	1-1/2	127.82	120.51	114.00	108.15
361546	57/64	4	1-1/2	151.87	143.19	135.45	128.51
361547	29/32	4	1-1/2	149.00	140.49	132.89	126.08
361548	59/64	4	1-1/2	147.00	138.60	131.11	124.38
361549	15/16	4	1-1/2	144.00	135.77	128.43	121.85
361550	61/64	4	1-1/2	145.96	137.62	130.18	123.51
361551	31/32	4	1-1/2	145.05	136.77	129.37	122.74
361552	63/64	4	1-1/2	144.00	135.77	128.43	121.85
361553	1"	4	1-1/2	129.64	122.23	115.62	109.69

Solid Carbide End Mills
Series 130 – Standard Length,
Single End Square, ALTIN
Coated, 4 Flute

- (Single End Ball also available)
- (2 Flute & 3 Flute also available)



ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
361840	1/64	1-1/2	1/16"	\$7.48	\$7.04	\$6.66	\$6.31
361841	1/32	1-1/2	3/32	7.18	6.77	6.39	6.06
361842	3/64	1-1/2	1/8	7.18	6.77	6.39	6.06
361843	1/16	1-1/2	3/16	6.07	5.72	5.41	5.13
361844	5/64	1-1/2	1/4	5.91	5.57	5.26	4.99
361845	3/32	1-1/2	3/8	5.52	5.20	4.92	4.66
361846	7/64	1-1/2	3/8	5.54	5.22	4.93	4.68
361847	1/8	1-1/2	1/2	5.34	5.03	4.75	4.51
361848	9/64	2	9/16	11.43	10.77	10.18	9.65
361849	5/32	2	9/16	10.62	10.00	9.45	8.96
361850	11/64	2	9/16	11.04	10.40	9.83	9.32
361851	3/16	2	5/8	10.34	9.74	9.21	8.73
361852	13/64	2-1/2	5/8	15.27	14.38	13.59	12.89
361853	7/32	2-1/2	5/8	13.90	13.10	12.38	11.74
361854	15/64	2-1/2	3/4	15.06	14.19	13.41	12.72
361855	1/4	2-1/2	3/4	12.15	11.45	10.82	10.26
361856	17/64	2-1/2	7/8	18.41	17.34	16.39	15.54
361857	9/32	2-1/2	7/8	17.13	16.14	15.25	14.46
361858	19/64	2-1/2	7/8	17.80	16.77	15.85	15.02
361859	5/16	2-1/2	7/8	16.68	15.71	14.85	14.08
361860	21/64	2-1/2	7/8	22.01	20.73	19.59	18.58
361861	11/32	2-1/2	7/8	19.90	18.75	17.72	16.80
361862	23/64	2-1/2	7/8	20.07	18.90	17.87	16.94
361863	3/8	2-1/2	7/8	19.54	18.41	17.40	16.49
361864	25/64	2-1/2	7/8	29.54	27.83	26.30	24.94
361865	13/32	2-1/2	7/8	29.08	27.39	25.89	24.55
361866	27/64	2-1/2	7/8	27.88	26.26	24.82	23.53
361867	7/16	2-1/2	1	28.05	26.42	24.97	23.68
361868	29/64	3	1	34.98	32.96	31.15	29.53
361869	15/32	3	1	34.62	32.61	30.82	29.22
361870	31/64	3	1	34.15	32.17	30.41	28.83
361871	1/2	3	1	31.74	29.90	28.26	26.79

ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	3	6	9
361872	33/64"	3-1/2"	1-1/4"	\$75.08	\$70.73	\$66.85	\$63.38
361873	17/32	3-1/2	1-1/4	73.48	69.22	65.42	62.03
361874	35/64	3-1/2	1-1/4	69.38	65.36	61.78	58.57
361875	9/16	3-1/2	1-1/4	58.74	55.33	52.30	49.58
361876	37/64	3-1/2	1-1/4	70.63	66.54	62.89	59.63
361877	19/32	3-1/2	1-1/4	69.38	65.36	61.78	58.57
361878	39/64	3-1/2	1-1/4	68.07	64.12	60.61	57.46
361879	5/8	3-1/2	1-1/4	60.58	57.07	53.95	51.14
361880	41/64	4	1-1/2	93.27	87.86	83.05	78.73
361881	21/32	4	1-1/2	91.75	86.43	81.70	77.45
361882	43/64	4	1-1/2	91.57	86.26	81.53	77.30
361883	11/16	4	1-1/2	89.35	84.17	79.56	75.43
361884	45/64	4	1-1/2	90.55	85.30	80.63	76.44
361885	23/32	4	1-1/2	89.91	84.70	80.05	75.90
361886	47/64	4	1-1/2	89.67	84.47	79.84	75.69
361887	3/4	4	1-1/2	80.97	76.28	72.10	68.35
				1	2	4	6
361888	49/64	4	1-1/2	164.00	154.63	146.27	138.77
361889	25/32	4	1-1/2	163.31	153.98	145.65	138.18
361890	51/64	4	1-1/2	162.60	153.31	145.02	137.58
361891	13/16	4	1-1/2	160.00	150.86	142.70	135.38
361892	53/64	4	1-1/2	161.00	151.80	143.59	136.23
361893	27/32	4	1-1/2	160.51	151.34	143.16	135.82
361894	55/64	4	1-1/2	160.00	150.86	142.70	135.38
361895	7/8	4	1-1/2	141.15	133.09	125.89	119.44
361896	57/64	4	1-1/2	165.42	155.97	147.54	139.97
361897	29/32	4	1-1/2	164.45	155.06	146.68	139.15
361898	59/64	4	1-1/2	163.51	154.17	145.83	138.35
361899	15/16	4	1-1/2	160.00	150.86	142.70	135.38
361900	61/64	4	1-1/2	159.00	149.91	141.81	134.54
361901	31/32	4	1-1/2	157.98	148.95	140.90	133.68
361902	63/64	4	1-1/2	157.82	148.80	140.76	133.54
361903	1"	4	1-1/2	142.97	134.80	127.51	120.97



Solid Carbide End Mills

- Series 190 – Stub Length, Double End Square, Uncoated, 4 Flute
- (Double End Ball also available)
- (2 Flute & 3 Flute also available)



ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
362571	1/32	1-1/2	1/16"	\$8.31	\$7.83	\$7.40	\$7.01
362572	3/64	1-1/2	3/32	8.31	7.83	7.40	7.01
362573	1/16	1-1/2	1/8	7.38	6.96	6.58	6.23
362575	3/32	1-1/2	3/16	7.02	6.61	6.25	5.92
362576	7/64	1-1/2	7/32	6.83	6.43	6.08	5.77
362577	1/8	1-1/2	1/4	6.65	6.26	5.92	5.61
362579	5/32	2	5/16	10.15	9.57	9.04	8.57
362581	3/16	2	5/16	9.69	9.13	8.63	8.18
362583	7/32	2	3/8	11.45	10.78	10.19	9.66
362585	1/4	2-1/2	1/2	11.26	10.61	10.03	9.51
362587	9/32	2-1/2	1/2	13.85	13.04	12.33	11.69
362589	5/16	2-1/2	1/2	13.48	12.70	12.00	11.38
362593	3/8	2-1/2	9/16	17.54	16.52	15.62	14.81
362597	7/16	2-3/4	9/16	26.77	25.22	23.84	22.60
362601	1/2	3	5/8	29.54	27.83	26.30	24.94
				1	3	6	9
362605	9/16	3-1/2	11/16	\$64.62	\$60.87	\$57.53	\$54.55
362609	5/8	3-1/2	11/16	62.77	59.13	55.89	52.99
362617	3/4	4	7/8	79.38	74.78	70.68	67.01

Solid Carbide End Mills
Series 200 – Stub Length, Double End Square

- ALTIN Coated, 4 Flute
- (Double End Ball also available)
- (2 Flute & 3 Flute also available)



ITEM NO.	SIZE INCH-ES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
363131	1/32	1-1/2	1/16"	\$9.23	\$8.70	\$8.22	\$7.79
363132	3/64	1-1/2	3/32	9.23	8.70	8.22	7.79
363133	1/16	1-1/2	1/8	8.31	7.83	7.40	7.01
363135	3/32	1-1/2	3/16	7.94	7.48	7.07	6.70
363136	7/64	1-1/2	7/32	7.75	7.30	6.90	6.55
363137	1/8	1-1/2	1/4	7.57	7.13	6.74	6.39
363139	5/32	2	5/16	12.55	11.83	11.18	10.60
363141	3/16	2	5/16	12.00	11.30	10.68	10.13
363143	7/32	2	3/8	15.69	14.78	13.97	13.25
363145	1/4	2-1/2	1/2	15.14	14.26	13.48	12.78
363147	9/32	2-1/2	1/2	19.38	18.26	17.26	16.36
363149	5/16	2-1/2	1/2	18.83	17.74	16.77	15.90
363153	3/8	2-1/2	9/16	23.08	21.74	20.55	19.48
363157	7/16	2-3/4	9/16	34.15	32.17	30.41	28.83
363161	1/2	3	5/8	35.08	33.04	31.23	29.61
				1	3	6	9
363165	9/16	3-1/2	11/16	\$73.85	\$69.57	\$65.75	\$62.34
363169	5/8	3-1/2	11/16	70.15	66.09	62.47	59.22
363177	3/4	4	7/8	94.15	88.70	83.84	79.48

Solid Carbide End Mills

- Series 197 – Stub Length, Double End Square,
- TIN Coated, 4 Flute
- (Double End Ball also available)
- (2 Flute & 3 Flute also available)



ITEM NO.	SIZE INCHES	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	15
362851	1/32	1-1/2	1/16"	\$9.42	\$8.87	\$8.38	\$7.95
362852	3/64	1-1/2	3/32	9.32	8.78	8.30	7.87
362853	1/16	1-1/2	1/8	8.20	7.72	7.30	6.92
362855	3/32	1-1/2	3/16	8.12	7.65	7.23	6.86
362856	7/64	1-1/2	7/32	8.12	7.65	7.23	6.86
362857	1/8	1-1/2	1/4	8.03	7.57	7.15	6.78
362859	5/32	2	5/16	11.35	10.70	10.11	9.58
362861	3/16	2	5/16	11.26	10.61	10.03	9.51
362863	7/32	2	3/8	13.59	12.80	12.10	11.47
362865	1/4	2-1/2	1/2	13.38	12.61	11.92	11.30
362867	9/32	2-1/2	1/2	16.52	15.57	14.71	13.95
362869	5/16	2-1/2	1/2	16.15	15.22	14.38	13.64
362873	3/8	2-1/2	9/16	20.22	19.04	18.00	17.06
362877	7/16	2-3/4	9/16	31.09	29.29	27.68	26.25
362881	1/2	3	5/8	33.78	31.83	30.08	28.52
				1	3	6	9
362885	9/16	3-1/2	11/16	\$61.02	\$57.48	\$54.33	\$51.51
362889	5/8	3-1/2	11/16	71.37	67.23	63.55	60.25
362897	3/4	4	7/8	90.79	85.53	80.84	76.64

Solid Carbide End Mills
Series 210 – Weld-on Flats, Double End Square, Uncoated, 4 Flute

- (Double End Ball also available)
- (2 Flute & 3 Flute also available)



Solid Carbide End Mills
Series 212 – Weld-on Flats, Double End Square, ALTIN Coated, 4 Flute

- (Double End Ball also available)
- (2 Flute & 3 Flute also available)



ITEM NO.	SIZE INCHES	SHANK DIA.	OAL INCH-ES	FLUTE LENGTH	PRICE EACH			
					1	5	10	15
363415	3/32	3/8	3"	5/16"	\$26.22	\$24.70	\$23.34	\$22.13
363417	1/8	3/8	3-1/16	3/8	25.85	24.35	23.01	21.82
363419	5/32	3/8	3-1/8	7/16	25.48	24.00	22.68	21.51
363421	3/16	3/8	3-1/4	1/2	24.92	23.48	22.19	21.04
363423	7/32	3/8	3-1/2	9/16	24.92	23.48	22.19	21.04
363425	1/4	3/8	3-1/2	5/8	24.92	23.48	22.19	21.04
363429	5/16	3/8	3-1/2	3/4	26.22	24.70	23.34	22.13
363431	11/32	3/8	3-1/2	3/4	28.06	26.43	24.99	23.69
363433	3/8	3/8	3-1/2	3/4	27.69	26.09	24.66	23.38
363437	7/16	1/2	4	7/8	42.46	40.00	37.81	35.84
363441	1/2	1/2	4	1	38.77	36.52	34.52	32.73
					1	3	6	9
363445	9/16	5/8	5	1-1/4	72.00	67.83	64.11	60.78
363449	5/8	5/8	6	1-1/2	77.54	73.04	69.04	65.45
363457	3/4	3/4	6	1-1/2	112.62	106.09	100.27	95.06

ITEM NO.	SIZE INCHES	SHANK DIA.	OAL INCH-ES	FLUTE LENGTH	PRICE EACH			
					1	5	10	15
363625	3/32	3/8	3"	5/16"	\$29.91	\$28.17	\$26.63	\$25.25
363627	1/8	3/8	3-1/16	3/8	29.54	27.83	26.30	24.94
363629	5/32	3/8	3-1/8	7/16	29.63	27.91	26.38	25.01
363631	3/16	3/8	3-1/4	1/2	29.08	27.39	25.89	24.55
363633	7/32	3/8	3-1/2	9/16	29.08	27.39	25.89	24.55
363635	1/4	3/8	3-1/2	5/8	29.08	27.39	25.89	24.55
363639	5/16	3/8	3-1/2	3/4	30.55	28.78	27.21	25.79
363641	11/32	3/8	3-1/2	3/4	32.40	30.52	28.85	27.35
363643	3/8	3/8	3-1/2	3/4	32.03	30.17	28.52	27.04
363647	7/16	1/2	4	7/8	47.26	44.52	42.08	39.90
363651	1/2	1/2	4	1	45.23	42.61	40.27	38.18
					1	3	6	9
363655	9/16	5/8	5	1-1/4	80.31	75.65	71.51	67.79
363659	5/8	5/8	6	1-1/2	85.85	80.87	76.44	72.47
363667	3/4	3/4	6	1-1/2	120.00	113.14	107.03	101.54



Solid Carbide Hot Mills

- Variable indexed flute to flute; reduces vibrations, allowing increased feeds & speeds
- Eccentric-radial O.D. relieved; increases tool strength
- Our best hard coating for heavy, fast metal removal rates, can be used dry. Cuts stainless and other tough alloys
- Shank O.D. coolant groove – each flute, to maximize cooling and chip evacuation velocity
- Eccentric O.D. primary relief
- 35 Helix/RHC-RHS; Corner radius standard
- Flute diameter + .000 - .002
- Shank diameter - .0001 - .0004
- HTC ALTiN Hard Coat



• 800 Series

ITEM NO.	CUTTER DIA	OAL INCHES	FLUTE LENGTH	CORNER RADIUS	PRICE EACH			
					1	5	10	20
365007	1/8	1-1/2	1/2"	.010	\$11.08	\$10.43	\$9.86	\$9.35
365011	3/16	2	5/8	.010	12.92	12.17	11.51	10.91
365015	1/4	2-1/2	3/4	.015	16.62	15.65	14.79	14.03
365019	5/16	2-1/2	7/8	.015	24.00	22.61	21.37	20.26
365023	3/8	2-1/2	1	.020	29.54	27.83	26.30	24.94
365027	7/16	2-3/4	1-1/8	.025	44.31	41.74	39.45	37.40
365031	1/2	3	1-1/4	.030	53.54	50.43	47.67	45.19
					1	3	6	9
365039	5/8	3-1/2	1-1/2	.030	\$86.77	\$81.74	\$77.26	\$73.25
365047	3/4	4	1-3/4	.040	123.64	116.57	110.27	104.62
					1	2	4	6
365063	1"	4	1-3/4	.045	\$196.36	\$185.14	\$175.14	\$166.15



• 810 Series

ITEM NO.	CUTTER DIA	OAL INCHES	FLUTE LENGTH	PRICE EACH			
				1	5	10	20
365077	1/8	1-1/2	1/2"	\$15.20	\$14.32	\$13.53	\$12.83
365081	3/16	2	5/8	16.83	15.86	14.99	14.21
365085	1/4	2-1/2	3/4	24.00	22.61	21.37	20.26
365089	5/16	2-1/2	7/8	33.23	31.30	29.59	28.05
365093	3/8	2-1/2	1	36.92	34.78	32.88	31.17
365097	7/16	2-3/4	1-1/8	51.69	48.70	46.03	43.64
365101	1/2	3	1-1/4	66.46	62.61	59.18	56.10
				1	3	6	9
365109	5/8	3-1/2	1-1/2	\$116.36	\$109.71	\$103.78	\$98.46
365117	3/4	4	1-3/4	143.18	135.00	127.70	121.15
				1	2	4	6
365133	1"	4	1-3/4	\$245.29	\$231.67	\$219.47	\$208.50

Type SA – Cylindrical Shape

- Used for general deburring.



ITEM NO.	TYPE	CUTTER DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH			
						1	5	10	20
701001	SA-1	1/4	1/4	5/8"	2"	\$4.78	\$4.51	\$4.26	\$4.04
701002	SA-1L	1/4	1/4	1	2	6.23	5.87	5.55	5.26
701003	SA-1L3	1/4	1/4	1	3-1/4	7.48	7.04	6.66	6.31
701004	SA-1L6	1/4	1/4	1/2	6-1/4	10.18	9.59	9.07	8.60
701005	SA-2	5/16	1/4	3/4	2-1/16	5.85	5.51	5.21	4.94
701006	SA-2L	5/16	1/4	1	2-1/16	15.44	14.50	13.67	12.93
701007	SA-3	3/8	1/4	3/4	2-1/8	7.08	6.67	6.30	5.97
701008	SA-3L	3/8	1/4	1	2-1/8	7.35	6.93	6.55	6.21
701009	SA-3L6	3/8	1/4	3/4	6-3/8	13.45	12.67	11.97	11.35
701010	SA-3X	3/8	1/4	1-1/2	2-1/8	9.63	9.07	8.58	8.13
701011	SA-4	7/16	1/4	1	2-3/16	8.23	7.75	7.33	6.95
701012	SA-5	1/2	1/4	1	2-1/4	9.74	9.17	8.67	8.22
701013	SA-5L6	1/2	1/4	1	6-1/2	17.69	16.67	15.75	14.94
701014	SA-6	5/8	1/4	1	2-3/8	12.57	11.84	11.19	10.61
701015	SA-7	3/4	1/4	1	2-1/2	19.46	18.33	17.33	16.43
701016	SA-8	7/8	1/4	1	2-5/8	25.22	23.75	22.45	21.29
701017	SA-9	1	1/4	1	2-3/4	38.92	36.67	34.66	32.86
701018	SA-11	1/8	1/4	1/2	2	6.23	5.87	5.55	5.26
701019	SA-12	1/8	1/4	5/8	2	4.69	4.42	4.18	3.96
701020	SA-13	5/32	1/4	5/8	2	4.69	4.42	4.18	3.96
701021	SA-14	3/16	1/4	5/8	2	4.69	4.42	4.18	3.96
701022	SA-15	3/4	1/4	1/2	2-1/2	16.82	15.84	14.97	14.19
701023	SA-16	3/4	1/4	3/4	2-1/2	20.80	19.59	18.52	17.56
701024	SA-41	1/16	1/8	1/4	1-1/2	3.28	3.09	2.92	2.77
701025	SA-41L2	1/16	1/8	1/4	2	3.54	3.33	3.15	2.99
701026	SA-41L3	1/16	1/8	1/4	3	3.98	3.75	3.55	3.36
701027	SA-42	3/32	1/8	7/16	1-1/2	3.28	3.09	2.92	2.77
701028	SA-42L2	3/32	1/8	7/16	2	3.54	3.33	3.15	2.99
701029	SA-42L3	3/32	1/8	7/16	3	3.98	3.75	3.55	3.36
701030	SA-43	1/8	1/8	9/16	1-1/2	3.28	3.09	2.92	2.77
701031	SA-43L2	1/8	1/8	9/16	2	3.54	3.33	3.15	2.99
701032	SA-43L3	1/8	1/8	9/16	3	3.98	3.75	3.55	3.36
701033	SA-51	1/4	1/8	1/2	1-3/4	5.23	4.93	4.66	4.42
701034	SA-52	5/32	1/8	1/2	1-3/4	5.23	4.93	4.66	4.42
701035	SA-53	3/16	1/8	1/2	1-11/16	5.23	4.93	4.66	4.42
701036	SA-61	1/16	3/32	1/4	1-1/2	3.11	2.93	2.77	2.62
701037	SA-63	3/32	3/32	3/8	1-1/2	3.11	2.93	2.77	2.62
701038	SA-81	3/16	3/16	5/8	2	4.08	3.84	3.63	3.44
ALUMINUM CUT									
701039	SA-1NF	1/4	1/4	5/8	2	\$6.46	\$6.09	\$5.75	\$5.45
701040	SA-3NF	3/8	1/4	3/4	2-1/8	9.38	8.84	8.36	7.92
701041	SA-5NF	1/2	1/4	1	2-1/4	14.15	13.33	12.60	11.95
701042	SA-6NF	5/8	1/4	1	2-3/8	16.82	15.84	14.97	14.19
701043	SA-7NF	3/4	1/4	1	2-1/2	23.35	22.00	20.79	19.71

Carbide Burrs

- Carbide burrs are a widely used and versatile cutting tool in the metalworking industry. Their primary use is to remove burrs (the small flakes of metal) that often remain on the workpiece after the machining process.
- The carbide burrs on these pages are double cut. Single cut is also available upon request.
- Several types are also available in Aluminum Cut (ending with NF). Aluminum cut burrs have more aggressive cutting edges for rapid stock removal with minimum chip. Ideal for aluminum and other non-ferrous materials.

Type SB – Cylindrical Shape With End Cut

- Used for interior contour work.



ITEM NO.	TYPE	CUTTER DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH			
						1	5	10	20
701101	SB-1	1/4	1/4	5/8"	2"	\$5.14	\$4.84	\$4.58	\$4.34
701102	SB-1L	1/4	1/4	1	2	6.72	6.33	5.99	5.68
701103	SB-2	5/16	1/4	3/4	2-1/16	6.20	5.84	5.52	5.23
701104	SB-2L	5/16	1/4	1	2-1/16	18.76	17.72	16.79	15.95
701105	SB-3	3/8	1/4	3/4	2-1/8	7.26	6.84	6.47	6.13
701106	SB-3L	3/8	1/4	1	2-1/8	7.62	7.17	6.78	6.43
701107	SB-3X	3/8	1/4	1-1/2	2-1/8	9.74	9.17	8.67	8.22
701108	SB-4	7/16	1/4	1	2-3/16	8.77	8.26	7.81	7.40
701109	SB-5	1/2	1/4	1	2-1/4	10.54	9.93	9.38	8.90
701110	SB-6	5/8	1/4	1	2-3/8	13.72	12.93	12.22	11.58
701111	SB-7	3/4	1/4	1	2-1/2	17.88	16.84	15.92	15.09
701112	SB-8	7/8	1/4	1	2-5/8	25.57	24.09	22.77	21.58
701113	SB-9	1	1/4	1	2-3/4	39.82	37.51	35.45	33.61
701114	SB-11	1/8	1/4	1/2	2	4.75	4.48	4.23	4.01
701115	SB-12	1/8	1/4	5/8	2	4.75	4.48	4.23	4.01
701116	SB-13	5/32	1/4	5/8	2	6.02	5.67	5.36	5.08
701117	SB-14	3/16	1/4	5/8	2	4.75	4.48	4.23	4.01
701118	SB-15	3/4	1/4	1/2	2-1/2	19.74	18.59	17.58	16.66
701119	SB-16	3/4	1/4	3/4	2-1/2	19.74	18.59	17.58	16.66
701120	SB-41	1/16	1/8	1/4	1-1/2	3.28	3.09	2.92	2.77
701121	SB-41L2	1/16	1/8	1/4	2	3.54	3.33	3.15	2.99
701122	SB-41L3	1/16	1/8	1/4	3	3.98	3.75	3.55	3.36
701123	SB-42	3/32	1/8	7/16	1-1/2	3.28	3.09	2.92	2.77
701124	SB-42L2	3/32	1/8	7/16	2	3.54	3.33	3.15	2.99
701125	SB-42L3	3/32	1/8	7/16	3	3.98	3.75	3.55	3.36
701126	SB-43	1/8	1/8	9/16	1-1/2	3.28	3.09	2.92	2.77
701127	SB-43L2	1/8	1/8	9/16	2	3.54	3.33	3.15	2.99
701128	SB-43L3	1/8	1/8	9/16	3	3.98	3.75	3.55	3.36
701129	SB-51	1/4	1/8	1/2	1-3/4	4.58	4.32	4.08	3.87
ALUMINUM CUT									
701130	SB-3NF	3/8	1/4	3/4	2-1/8	\$11.51	\$10.84	\$10.25	\$9.71
701131	SB-5NF	1/2	1/4	1	2-1/4	15.05	14.17	13.40	12.70



Type SC – Cylindrical Radius (Ball Nose)

- Used for surface milling and contour work.



ITEM NO.	TYPE	CUT-TER DIA.	SHANK DIA.	FLUTE LENGTH	OVER-ALL LENGTH	PRICE EACH			
						1	5	10	20
701201	SC-1	1/4	1/4	5/8"	2"	\$5.31	\$5.00	\$4.73	\$4.48
701202	SC-1L	1/4	1/4	1	2	6.72	6.33	5.99	5.68
701203	SC-1L6	1/4	1/4	1/2	6-1/4	10.18	9.59	9.07	8.60
701204	SC-2	5/16	1/4	3/4	2-1/16	6.20	5.84	5.52	5.23
701205	SC-2L	5/16	1/4	1	2-1/16	18.31	17.20	16.21	15.34
701206	SC-3	3/8	1/4	3/4	2-1/8	7.08	6.67	6.30	5.97
701207	SC-3L	3/8	1/4	1	2-1/8	7.35	6.93	6.55	6.21
701208	SC-3L6	3/8	1/4	3/4	6-3/8	13.54	12.75	12.05	11.43
701209	SC-3X	3/8	1/4	1-1/2	2-1/8	9.03	8.51	8.04	7.62
701210	SC-4	7/16	1/4	1	2-3/16	8.68	8.17	7.73	7.32
701211	SC-5	1/2	1/4	1	2-1/4	9.74	9.17	8.67	8.22
701212	SC-5L6	1/2	1/4	1	6-1/2	17.69	16.67	15.75	14.94
701213	SC-6	5/8	1/4	1	2-3/8	12.74	12.00	11.34	10.75
701214	SC-7	3/4	1/4	1	2-1/2	25.80	24.30	22.97	21.78
701215	SC-9	1	1/4	1	2-3/4	31.77	29.93	28.29	26.82
701216	SC-11	1/8	1/4	1/2	2	4.69	4.42	4.18	3.96
701217	SC-12	1/8	1/4	5/8	2	4.69	4.42	4.18	3.96
701218	SC-13	5/32	1/4	5/8	2	4.69	4.42	4.18	3.96
701219	SC-14	3/16	1/4	5/8	2	4.69	4.42	4.18	3.96
701220	SC-15	3/4	1/4	1/2	2-1/2	20.80	19.59	18.52	17.56
701221	SC-16	3/4	1/4	3/4	2-1/2	25.48	24.00	22.68	21.51
701222	SC-41	3/32	1/8	7/16	1-1/2	3.28	3.09	2.92	2.77
701223	SC-42	1/8	1/8	9/16	1-1/2	3.28	3.09	2.92	2.77
701224	SC-42L2	1/8	1/8	9/16	2	3.54	3.33	3.15	2.99
701225	SC-42L3	1/8	1/8	9/16	3	3.98	3.75	3.55	3.36
701226	SC-51	1/4	1/8	1/2	1-3/4	5.23	4.93	4.66	4.42
701227	SC-52	5/32	1/8	1/2	1-21/32	5.23	4.93	4.66	4.42
701228	SC-53	3/16	1/8	1/2	1-11/16	5.23	4.93	4.66	4.42
701229	SC-61	3/32	3/32	3/8	1-1/2	3.11	2.93	2.77	2.62
701230	SC-81	3/16	3/16	5/8	2	4.08	3.84	3.63	3.44
ALUMINUM CUT									
701231	SC-1NF	1/4	1/4	5/8	2	6.55	6.17	5.84	5.53
701232	SC-3NF	3/8	1/4	3/4	2-1/8	9.48	8.93	8.44	8.00
701233	SC-5NF	1/2	1/4	1	2-1/4	14.15	13.33	12.60	11.95
701234	SC-6NF	5/8	1/4	1	2-3/8	17.08	16.09	15.21	14.42
701235	SC-7NF	3/4	1/4	1	2-1/2	23.71	22.33	21.11	20.01

Type SD – Ball Shape

- Used for surface milling, deburring and contour work.



• (continued at upper right)

ITEM NO.	TYPE	CUTTER DIA.	SHANK DIA.	FLUTE LENGTH	OVER-ALL LENGTH	PRICE EACH			
						1	5	10	20
701301	SD-1	1/4	1/4	7/32"	2"	\$5.40	\$5.09	\$4.81	\$4.56
701302	SD-1L6	1/4	1/4	7/32	6-1/4	9.91	9.33	8.82	8.36
701303	SD-2	5/16	1/4	1/4	2-1/16	5.75	5.42	5.12	4.86
701304	SD-3	3/8	1/4	5/16	2-1/8	6.46	6.09	5.75	5.45
701305	SD-3L6	3/8	1/4	5/16	6-3/8	12.22	11.51	10.88	10.31
701306	SD-4	7/16	1/4	3/8	2-3/16	7.35	6.93	6.55	6.21
701307	SD-5	1/2	1/4	7/16	2-1/4	8.68	8.17	7.73	7.32
701308	SD-5L6	1/2	1/4	7/16	6-1/2	14.15	13.33	12.60	11.95

Type SD – Ball Shape (continued)

ITEM NO.	TYPE	CUT-TER DIA.	SHANK DIA.	FLUTE LENGTH	OVER-ALL LENGTH	PRICE EACH			
						1	5	10	20
701309	SD-6	5/8	1/4	9/16	2-3/8	\$11.95	\$11.26	\$10.64	\$10.09
701310	SD-7	3/4	1/4	11/16	2-1/2	14.51	13.67	12.92	12.25
701311	SD-9	1	1/4	15/16	2-3/4	24.51	23.09	21.82	20.69
701312	SD-11	1/8	1/4	3/32	2	4.60	4.33	4.10	3.88
701313	SD-12	1/8	1/4	1/8	2	10.56	9.97	9.45	8.98
701314	SD-14	3/16	1/4	1/8	2	4.69	4.42	4.18	3.96
701315	SD-41	3/32	1/8	3/32	1-1/2	3.28	3.09	2.92	2.77
701316	SD-42	1/8	1/8	1/8	1-1/2	3.28	3.09	2.92	2.77
701317	SD-42L2	1/8	1/8	1/8	2	3.54	3.33	3.15	2.99
701318	SD-42L3	1/8	1/8	1/8	3	3.98	3.75	3.55	3.36
701319	SD-51	1/4	1/8	7/32	1-3/4	5.23	4.93	4.66	4.42
701320	SD-52	5/32	1/8	5/32	1-21/32	5.23	4.93	4.66	4.42
701321	SD-53	3/16	1/8	3/16	1-11/16	5.23	4.93	4.66	4.42
701322	SD-61	3/32	3/32	3/32	1-1/2	3.11	2.93	2.77	2.62
701323	SD-81	3/16	3/16	5/32	2	4.08	3.84	3.63	3.44
ALUMINUM CUT									
701324	SD-1NF	1/4	1/4	7/32	2	\$6.20	\$5.84	\$5.52	\$5.23
701325	SD-3NF	3/8	1/4	5/16	2-1/8	8.49	8.00	7.56	7.17
701326	SD-5NF	1/2	1/4	7/16	2-1/4	12.03	11.33	10.71	10.16
701327	SD-6NF	5/8	1/4	9/16	2-3/8	15.22	14.33	13.55	12.84
701328	SD-7NF	3/4	1/4	11/16	2-1/2	20.35	19.17	18.12	17.18

Type SE – Egg (Oval) Shape

- Used for contour work.



ITEM NO.	TYPE	CUTTER DIA.	SHANK DIA.	FLUTE LENGTH	OVER-ALL LENGTH	PRICE EACH			
						1	5	10	20
701401	SE-1	1/4	1/4	3/8"	2"	\$5.40	\$5.09	\$4.81	\$4.56
701402	SE-1L6	1/4	1/4	3/8	6-1/4	10.45	9.84	9.30	8.82
701403	SE-2	5/16	1/4	5/8	2-1/16	13.18	12.44	11.79	11.20
701404	SE-3	3/8	1/4	5/8	2-1/8	7.00	6.59	6.23	5.91
701405	SE-3L6	3/8	1/4	5/8	6-3/8	13.89	13.09	12.37	11.73
701406	SE-5	1/2	1/4	7/8	2-1/4	9.74	9.17	8.67	8.22
701407	SE-5L6	1/2	1/4	7/8	6-1/2	17.69	16.67	15.75	14.94
701408	SE-6	5/8	1/4	1	2-3/8	13.09	12.33	11.66	11.05
701409	SE-7	3/4	1/4	1	2-1/2	19.82	18.67	17.64	16.73
701410	SE-11	3/16	1/4	5/16	2	5.05	4.75	4.49	4.26
701411	SE-41	1/8	1/8	7/32	1-1/2	3.28	3.09	2.92	2.77
701412	SE-41L2	1/8	1/8	7/32	2	3.54	3.33	3.15	2.99
701413	SE-41L3	1/8	1/8	7/32	3	3.98	3.75	3.55	3.36
701414	SE-51	1/4	1/8	3/8	1-3/4	5.23	4.93	4.66	4.42
701415	SE-53	3/16	1/8	9/32	1-11/16	5.23	4.93	4.66	4.42
701416	SE-61	3/32	3/32	1/8	1-1/2	3.11	2.93	2.77	2.62
701417	SE-81	3/16	3/16	9/32	2	4.08	3.84	3.63	3.44
ALUMINUM CUT									
701418	SE-1NF	1/4	1/4	7/32	2	\$16.19	\$15.29	\$14.49	\$13.76
701419	SE-3NF	3/8	1/4	5/8	2-1/8	9.55	9.00	8.51	8.06
701420	SE-5NF	1/2	1/4	7/8	2-1/4	14.15	13.33	12.60	11.95
701421	SE-6NF	5/8	1/4	1	2-3/8	17.52	16.51	15.60	14.79
701422	SE-7NF	3/4	1/4	1	2-1/2	23.80	22.42	21.19	20.09

Type SF – Round Tree/Radius Shape

- Used for narrow contour work.



ITEM NO.	TYPE	CUTTER DIA.	SHANK DIA.	FLUTE LENGTH	OVER-ALL LENGTH	PRICE EACH			
						1	5	10	20
701501	SF-1	1/4	1/4	5/8"	2"	7.00	6.59	6.23	5.91
701502	SF-1L	1/4	1/4	3/4	2	11.82	11.17	10.58	10.05
701503	SF-1L6	1/4	1/4	5/8	6-1/4	10.45	9.84	9.30	8.82
701504	SF-3	3/8	1/4	3/4	2-1/8	7.97	7.51	7.10	6.73
701505	SF-3L6	3/8	1/4	3/4	6-3/8	13.28	12.51	11.82	11.21
701506	SF-4	7/16	1/4	1	2-3/16	10.12	9.54	9.01	8.55
701507	SF-5	1/2	1/4	1	2-1/4	10.62	10.00	9.45	8.96
701508	SF-5L6	1/2	1/4	1	6-1/2	17.26	16.26	15.37	14.57
701509	SF-6	5/8	1/4	1	2-3/8	17.69	16.67	15.75	14.94
701510	SF-7	3/4	1/4	1	2-1/2	19.65	18.51	17.49	16.58
701511	SF-11	1/8	1/4	1/2	2	4.78	4.51	4.26	4.04
701512	SF-12	1/8	1/4	5/8	2	11.19	10.57	10.01	9.51
701513	SF-13	1/2	1/4	3/4	2-1/4	9.12	8.59	8.12	7.70
701514	SF-14	3/4	1/4	1-1/4	2-1/2	25.31	23.84	22.53	21.36
701515	SF-15	3/4	1/4	1-1/2	2-1/2	26.54	25.00	23.63	22.40
701516	SF-41	1/8	1/8	1/4	1-1/2	3.28	3.09	2.92	2.77
701517	SF-42	1/8	1/8	1/2	1-1/2	3.28	3.09	2.92	2.77
701518	SF-42L2	1/8	1/8	1/2	2	3.54	3.33	3.15	2.99
701519	SF-42L3	1/8	1/8	1/2	3	3.98	3.75	3.55	3.36
701520	SF-51	1/4	1/8	1/2	1-3/4	5.23	4.93	4.66	4.42
701521	SF-53	3/16	1/8	1/2	1-11/16	5.23	4.93	4.66	4.42
701522	SF-61	3/32	3/32	1/4	1-1/2	3.11	2.93	2.77	2.62
701523	SF-81	3/16	3/16	1/2	2	4.08	3.84	3.63	3.44
ALUMINUM CUT									
701524	SF-1NF	1/4	1/4	5/8	2	\$6.46	\$6.09	\$5.75	\$5.45
701525	SF-3NF	3/8	1/4	3/4	2-1/8	9.48	8.93	8.44	8.00
701526	SF-5NF	1/2	1/4	1	2-1/4	14.08	13.26	12.53	11.88
701527	SF-6NF	5/8	1/4	1	2-3/8	16.98	16.00	15.12	14.34
701528	SF-14NF	3/4	1/4	1-1/4	2-1/2	31.58	29.75	28.12	26.66

Type SL – 14° Taper Radius Shape

- Used for surface machining and narrow contour work.



ITEM NO.	TYPE	CUT-TER DIA.	SHANK DIA.	FLUTE LENGTH	OAL	PRICE EACH			
						1	5	10	20
702101	SL-1	1/4	1/4	5/8"	2"	\$5.40	\$5.09	\$4.81	\$4.56
702102	SL-1L6	1/4	1/4	5/8	6-1/4	10.35	9.75	9.22	8.74
702103	SL-2	5/16	1/4	7/8	2-1/16	5.85	5.51	5.21	4.94
702104	SL-3	3/8	1/4	1-1/16	2-1/8	8.32	7.84	7.41	7.03
702105	SL-3L6	3/8	1/4	1-1/16	6-3/8	14.34	13.51	12.77	12.10
702106	SL-4	1/2	1/4	1-1/8	2-1/4	10.71	10.09	9.53	9.04
702107	SL-4L6	1/2	1/4	1-1/8	6-1/2	18.58	17.51	16.55	15.69
702108	SL-5	5/8	1/4	1-3/16	2-3/8	19.46	18.33	17.33	16.43
702109	SL-6	5/8	1/4	1-5/16	2-3/8	21.23	20.00	18.90	17.92
702110	SL-7	3/4	1/4	1-1/2	2-1/2	30.08	28.33	26.78	25.39
702111	SL-41	1/8	1/8	3/8	1-1/2	3.28	3.09	2.92	2.77
702112	SL-42	1/8	1/8	1/2	1-1/2	3.28	3.09	2.92	2.77
702113	SL-42L2	1/8	1/8	1/2	2	3.54	3.33	3.15	2.99
702114	SL-42L3	1/8	1/8	1/2	3	3.98	3.75	3.55	3.36
702115	SL-53	3/16	1/8	1/2	1-11/16	5.23	4.93	4.66	4.42
702116	SL-81	3/16	3/16	1/2	2	4.08	3.84	3.63	3.44
ALUMINUM CUT									
702117	SL-1NF	1/4	1/4	5/8	2	16.19	15.29	14.49	13.76
702118	SL-3NF	3/8	1/4	1-1/16	2-1/8	11.42	10.75	10.16	9.64
702119	SL-4NF	1/2	1/4	1-1/8	2-1/4	14.69	13.84	13.08	12.40
702120	SL-5NF	5/8	1/4	1-3/16	2-3/8	23.31	21.96	20.75	19.68
702121	SL-6NF	5/8	1/4	1-5/16	2-3/8	26.46	24.93	23.56	22.34
702122	SL-7NF	3/4	1/4	1-1/2	2-1/2	36.28	34.17	32.30	30.62

Type SM – Pointed Cone Flat End

- Used for surface machining and narrow contour work.



ITEM NO.	TYPE	CUT-TER DIA.	SHANK DIA.	FLUTE LENGTH	OAL	PRICE EACH			
						1	5	10	20
702221	SM-1	1/4	1/4	1/2"	2"	\$5.40	\$5.09	\$4.81	\$4.56
702222	SM-2	1/4	1/4	3/4	2	5.49	5.17	4.89	4.64
702223	SM-3	1/4	1/4	1	2	5.75	5.42	5.12	4.86
702224	SM-3L	1/4	1/4	1-1/4	2	12.90	12.18	11.54	10.96
702225	SM-4	3/8	1/4	5/8	2-1/8	7.35	6.93	6.55	6.21
702226	SM-4L	3/8	1/4	1	2-1/8	22.66	21.29	20.07	18.99
702227	SM-5	1/2	1/4	7/8	2-1/4	9.55	9.00	8.51	8.06
702228	SM-6	5/8	1/4	1	2-3/8	13.18	12.42	11.74	11.13
702229	SM-41	1/8	1/8	11/32	1-1/2	3.28	3.09	2.92	2.77
702230	SM-42	1/8	1/8	7/16	1-1/2	3.28	3.09	2.92	2.77
702231	SM-42L2	1/8	1/8	7/16	2	3.54	3.33	3.15	2.99
702232	SM-42L3	1/8	1/8	7/16	3	3.98	3.75	3.55	3.36
702233	SM-43	1/8	1/8	5/8	1-1/2	3.28	3.09	2.92	2.77
702234	SM-51	1/4	1/8	1/2	1-3/4	5.23	4.93	4.66	4.42
702235	SM-53	3/16	1/8	1/2	1-11/16	5.23	4.93	4.66	4.42
702236	SM-61	3/32	3/32	1/4	1-1/2	3.11	2.93	2.77	2.62

Type SN – Inverted Cone

- Used for machining from the rear in hard-to-reach areas.



ITEM NO.	TYPE	CUT-TER DIA.	SHANK DIA.	FLUTE LENGTH	OAL	PRICE EACH			
						1	5	10	20
702301	SN-1	1/4	1/4	5/16"	2"	\$4.51	\$4.25	\$4.01	\$3.81
702302	SN-2	3/8	1/4	3/8	2-1/8	5.85	5.51	5.21	4.94
702303	SN-4	1/2	1/4	1/2	2-1/4	9.03	8.51	8.04	7.62
702304	SN-6	5/8	1/4	3/4	2-3/8	14.15	13.33	12.60	11.95
702305	SN-7	3/4	1/4	5/8	2-1/2	15.86	14.94	14.12	13.39
702306	SN-41	3/32	1/8	1/8	1-1/2	3.28	3.09	2.92	2.77
702307	SN-42	1/8	1/8	3/16	1-1/2	3.28	3.09	2.92	2.77
702308	SN-51	1/4	1/8	1/4	1-3/4	5.23	4.93	4.66	4.42
702309	SN-53	3/16	1/8	1/4	1-11/16	5.23	4.93	4.66	4.42
702310	SN-61	3/32	3/32	1/8	1-1/2	3.11	2.93	2.77	2.62
702311	SN-81	3/16	3/16	1/4	2	4.08	3.84	3.63	3.44
INVERTED CONE WITH END CUT									
702312	SN-1E	1/4	1/4	5/16	2	\$11.74	\$11.08	\$10.50	\$9.98
702313	SN-2E	3/8	1/4	3/8	2-1/8	20.21	19.08	18.08	17.18
702314	SN-4E	1/2	1/4	1/2	2-1/4	22.06	20.83	19.74	18.75
702315	SN-7E	3/4	1/4	5/8	2-1/2	46.91	44.31	41.97	39.88



- Convenient sets come in a metal index.



ITEM NO.	DOUBLE CUT ITEM NO.	SINGLE CUT ITEM NO.	DESCRIPTION	PRICE PER SET			
				1	2	4	6
702350	1/4	5/8"	5 Pc Carbide Burr Set, Double Cut, SA, SC, SF, SG, & SM-5	\$100.91	\$110.52	\$90.43	\$85.96
702351	1/4	5/8"	Set No. 2, 8 Piece Set: SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SL-3, & SM-4	118.26	111.78	105.97	100.74
702352	1/4	5/8	Set No. 3, 8 Piece Set: SA-5, SC-5, SD-5, SE-5, SF-5, SG-5, SL-4, & SM-5	175.16	191.84	156.96	149.21
702353	1/4	7/8	Set No. 4, 10 Piece Set: SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SD-3, SF-3, SF-5, & SH-1	152.93	144.55	137.04	130.27
702354	1/4	1-1/16	Set No. 5, 10 Piece Set: SA-5, SC-3, SC-5, SD-5, SE-3, SF-3, SF-5, SG-3, SG-5, & SL-4	187.61	177.33	168.12	159.81
702355	1/4	1-1/16	Set No. 6, 8 Piece Set: SA-43, SC-42, SD-42, SE-41, SF-42, SG-42, SL-41, & SN-42	41.76	39.44	37.37	35.50
702356	1/4	1-1/8	Set No. 7, 8 Piece Set: SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, & SM-51	77.59	73.28	69.42	65.95



Cubitr[™] 3
Performance Abrasives

Grinding & Cut-Off Wheels



Produce more. With less.

3M[™] Cubitr[™] 3 Grinding & Cut-Off Wheels feature 3M Precision-Shaped Ceramic Grain, which cuts faster and lasts longer than conventional grain. Designed for everyday high performance, helping you to reduce your manufacturing costs without compromising on performance.



A new era of heavy grinding and cutting:
3M[™] Cubitr[™] 3
Performance Abrasives.



Lasts longer



Cuts faster



Cuts cooler

Our grinding & cut-off wheels have evolved.



Launched in 2012, this was the first range of cutting and grinding products using 3M's precision-shaped triangular grain abrasives. This range has now been replaced by our latest and best offering.



Significantly raising the benchmark for cut rate and product life in heavy grinding and cutting applications.

Up to
3X
Longer
lasting

Responding to industry requirements for better product productivity, worker safety and sustainability, 3M has developed abrasive wheel technologies that make grinding & cut-off wheels work even faster and last even longer than our current best performing range. Performance is so good compared to existing 3M™ Cubitron™ II Performance Abrasives that we've established a new generation of products called 3M™ Cubitron™ 3 Performance Abrasives.

Elevated
experience

To maximize simplicity and value to our customers, the current 3M™ Cubitron™ II Grinding & Cut-Off Wheel range will be discontinued and replaced by 3M™ Cubitron™ 3 Performance Abrasives. Customers will benefit from a wider product choice, better performance and optimized sustainability with no change in list price.

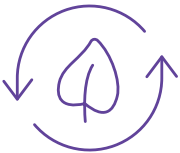
3M™ Cubitron™ 3 Depressed Center Grinding Wheels



3M™ Cubitron™ 3 Cut-Off Wheels

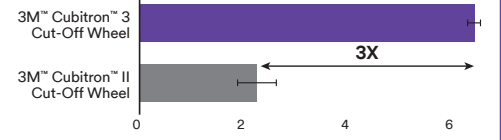


Designed to provide high cut rates and long life to help reduce cost.

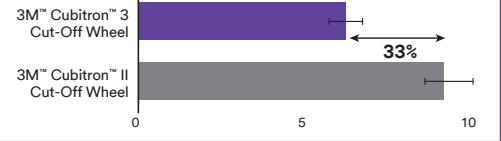


Performance enhancing packaging
When cut-off wheels are properly protected from atmospheric moisture, product life can be extended.
All 3M™ Cubitron™ 3 Cut-Off Wheels will come in re-sealable, moisture resistant bags.

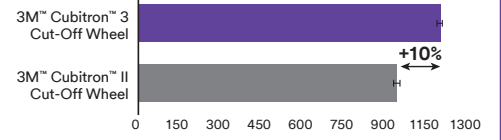
3X Longer life³



33% Less hand-arm vibration³



10% Faster cut³



Results are based on an automated cutting of a 3mm thick 304 stainless steel sheet. Cut-off wheel geometry is 125mm x 1.6mm x 22mm mounted on a 1.5 hp angle grinder with an applied force of 9 lbs. Cut speed is defined by time needed to cut 1 meter of stainless steel. The number of cuts is estimated by the amount of wheel that was used after cutting a distance of 1 meter. End of life is assumed to be 50% of initial wheel mass.

Re-shaping the way work gets done.



Our latest 3M Precision-Shaped Grain

We've re-engineered precision-shaped ceramic triangular grain using proprietary breakthroughs in molecular bonding technology.

3M Precision-Shaped Grain

3M pioneered the first precision-shaped grain using 3M microreplication technology to form consistent sharp peaks that easily "slice" through metal—cutting cooler, faster, and lasting longer than conventional abrasive grain.

Conventional ceramic abrasive

Conventional ceramic abrasive grain tends to "plow" through metal, causing heat to build up in the workpiece and abrasive, resulting in a slower cut and shorter abrasive life compared to our latest precision-shaped grain.

Grinding Reinvented!



Grinding Wheels



ITEM NO.	TYPE	DIA INCHES	THICK-NESS	ARBOR	MIN SELL	MAX RPM	UOM: WH x BOX/CASE QUANTITY				
							10 / 20	40	80	120	200
480300	27 (Depressed)	4"	1/4"	3/8 Hole	20	15300	\$11.10	\$10.54	\$10.03	\$9.57	\$9.15
480303	27 (Depressed)	4	1/4	5/8 Hole	10	15300	11.10	10.54	10.03	9.57	9.15
480306	27 (Depressed)	4-1/2	1/4	7/8 Hole	10	13300	9.37	8.89	8.46	8.07	7.72
480309	27 (Depressed)	5	1/4	7/8 Hole	10	12250	13.30	12.63	12.02	11.47	10.96
480312	27 (Depressed)	6	1/4	7/8 Hole	20	10200	10.14	9.63	9.16	8.74	8.36
480315	27 (Depressed)	7	1/4	7/8 Hole	20	8500	17.02	16.15	15.38	14.67	14.02
480321	27 (Depressed)	4-1/2	1/4	5/8-11 Hub	10	13300	10.58	10.04	9.56	9.12	8.72
480324	27 (Depressed)	5	1/4	5/8-11 Hub	20	12250	13.58	12.89	12.27	11.70	11.19
480327	27 (Depressed)	6	1/4	5/8-11 Hub	10	10200	16.81	15.96	15.19	14.49	13.85
480330	27 (Depressed)	7	1/4	5/8-11 Hub	10	8500	18.16	17.24	16.41	15.66	14.97
							10	40	80	120	150
480318	27 (Depressed)	9"	1/4	7/8 Hole	20	6650	\$18.70	\$17.75	\$16.90	\$16.12	-
480333	27 (Depressed)	9	1/4	5/8-11 Hub	10	6650	23.85	22.65	21.56	20.56	-



Cut-Off Wheels



ITEM NO.	TYPE	DIA INCHES	THICK-NESS	ARBOR	MIN SELL	MAX RPM	UOM: WH x BOX/CASE QUANTITY				
							10/ 25	100	200	300	500
480250	27 (Depressed)	4-1/2"	.045"	7/8 Hole	25	13300	\$4.96	\$4.71	\$4.48	\$4.27	\$4.09
480253	27 (Depressed)	4-1/2	.125	7/8 Hole	50	13300	8.90	8.45	8.05	7.68	-
480256	27 (Depressed)	5	.045	7/8 Hole	50	12250	5.03	4.77	4.54	4.33	4.14
480259	27 (Depressed)	5	.090	7/8 Hole	50	12250	5.81	5.52	5.25	5.01	-
480262	27 (Depressed)	6	.045	7/8 Hole	25	10200	6.04	5.73	5.46	5.21	4.98
480265	27 (Depressed)	7	.09	7/8 Hole	50	8500	13.19	12.52	11.92	11.37	-
480268	27 (Depressed)	4-1/2	.045	5/8-11 Hub	50	13300	7.08	6.73	6.40	6.11	-
480271	27 (Depressed)	4-1/2	.090	5/8-11 Hub	50	13300	7.55	7.17	6.82	6.51	-
480274	27 (Depressed)	4-1/2	.125	5/8-11 Hub	50	13300	9.50	9.02	8.58	8.19	-
480277	27 (Depressed)	6	.045	5/8-11 Hub	50	10200	8.90	8.45	8.04	7.67	-
480200	1 (Flat)	3	.035	1/4 Hole	50	25465	4.33	4.11	3.92	3.74	-
480203	1 (Flat)	3	.035	3/8 Hole	25	25465	4.33	4.11	3.92	3.74	-
480206	1 (Flat)	3	.060	3/8 Hole	50	25465	5.33	5.06	4.82	4.60	-
480209	1 (Flat)	4	.035	3/8 Hole	50	19100	6.98	6.63	6.31	6.02	-
480212	1 (Flat)	4	.060	3/8 Hole	50	19100	7.68	7.29	6.94	6.62	-
480215	1 (Flat)	4	.125	3/8 Hole	50	19100	9.99	9.49	9.03	8.61	-
480218	1 (Flat)	4-1/2	.045	7/8 Hole	25	13300	4.67	4.44	4.22	4.03	3.85
480221	1 (Flat)	5	.045	7/8 Hole	50	12250	4.09	3.88	3.70	3.53	-
480224	1 (Flat)	6	.045	7/8 Hole	25	10200	5.31	5.04	4.79	4.57	4.37
480227	1 (Flat)	7	.045	7/8 Hole	50	8500	7.36	6.99	6.65	6.34	-



Flap Discs

ITEM NO.	TYPE	DIA INCHES	GRIT	ARBOR	MAX RPM	UOM: WH x BOX QUANTITY				
						10	40	80	120	240
480070	27 (Flat)	4-1/2"	40	7/8 Round Hole	13300	\$7.61	\$7.22	\$6.88	\$6.56	\$6.27
480073	27 (Flat)	4-1/2	60	7/8 Round Hole	13300	7.61	7.22	6.88	6.56	6.27
480076	27 (Flat)	4-1/2	80	7/8 Round Hole	13300	7.61	7.22	6.88	6.56	6.27
480088	27 (Flat)	4-1/2	40	5/8-11 Hub	13300	10.05	9.54	9.08	8.67	8.28
480091	27 (Flat)	4-1/2	60	5/8-11 Hub	13300	9.41	8.94	8.51	8.11	7.76
480094	27 (Flat)	4-1/2	80	5/8-11 Hub	13300	8.22	7.80	7.42	7.08	6.77
						5	20	40	60	120
480079	27 (Flat)	7	40	7/8 Round Hole	8600	13.94	13.24	12.60	12.02	11.49
480082	27 (Flat)	7	60	7/8 Round Hole	8600	13.94	13.24	12.60	12.02	11.49
480085	27 (Flat)	7	80	7/8 Round Hole	8600	13.94	13.24	12.60	12.02	11.49
480097	27 (Flat)	7	40	5/8-11 Hub	8600	19.71	18.71	17.81	16.99	16.25
480100	27 (Flat)	7	60	5/8-11 Hub	8600	19.71	18.71	17.81	16.99	16.25
480103	27 (Flat)	7	80	5/8-11 Hub	8600	6.72	6.38	6.07	5.79	5.54
						10	40	80	120	240
480106	29 (Conical)	4-1/2	40	7/8 Round Hole	13300	6.64	6.31	6.00	5.73	5.47
480109	29 (Conical)	4-1/2	60	7/8 Round Hole	13300	6.64	6.31	6.00	5.73	5.47
480112	29 (Conical)	4-1/2	80	7/8 Round Hole	13300	6.64	6.31	6.00	5.73	5.47
480124	29 (Conical)	4-1/2	40	5/8-11 Hub	13300	8.22	7.80	7.42	7.08	6.77
480127	29 (Conical)	4-1/2	60	5/8-11 Hub	13300	8.22	7.80	7.42	7.08	6.77
480130	29 (Conical)	4-1/2	80	5/8-11 Hub	13300	8.22	7.80	7.42	7.08	6.77
						5	20	40	60	120
480115	29 (Conical)	7	40	7/8 Round Hole	8600	13.94	13.24	12.60	12.02	11.49
480118	29 (Conical)	7	60	7/8 Round Hole	8600	13.94	13.24	12.60	12.02	11.49
480121	29 (Conical)	7	80	7/8 Round Hole	8600	13.94	13.24	12.60	12.02	11.49
480133	29 (Conical)	7	40	5/8-11 Hub	8600	16.02	15.21	14.47	13.81	13.20
480136	29 (Conical)	7	60	5/8-11 Hub	8600	19.71	18.71	17.81	16.99	16.25
480139	29 (Conical)	7	80	5/8-11 Hub	8600	19.71	18.71	17.81	16.99	16.25

High Density Flap Discs

ITEM NO.	TYPE	DIA INCHES	GRIT	ARBOR	MAX RPM	UOM: WH x BOX QUANTITY				
						10	40	80	120	240
480010	27 (Flat)	4-1/2	40	7/8 Round Hole	13300	\$7.67	\$7.29	\$6.93	\$6.62	\$6.33
480013	27 (Flat)	4-1/2	60	7/8 Round Hole	13300	7.67	7.29	6.93	6.62	6.33
480016	27 (Flat)	4-1/2	80	7/8 Round Hole	13300	7.38	7.01	6.67	6.36	6.08

GIANT Flap Discs

ITEM NO.	TYPE	DIA INCHES	GRIT	ARBOR	MAX RPM	UOM: WH x BOX QUANTITY				
						10	40	80	120	240
480040	27 (Flat)	4-1/2	40	7/8 Round Hole	13300	\$9.64	\$9.15	\$8.71	\$8.31	\$7.95
480043	27 (Flat)	4-1/2	60	7/8 Round Hole	13300	9.79	9.30	8.85	8.44	8.07
480046	27 (Flat)	4-1/2	80	7/8 Round Hole	13300	7.28	6.91	6.58	6.27	6.00



WALTER HP Grinding Wheels

ITEM NO.	TYPE	DIA INCHES	THICK-NESS	ARBOR	MIN SELL	MAX RPM	UOM: WH x CASE QUANTITY				
							25	50	100	200	400
480400		3"	1/4"	3/8 Hole	25	20000	\$5.30	\$5.01	\$4.76	\$4.52	
480403		4	1/4	3/8 Hole	25	15300	5.30	5.01	4.76	4.52	
480406		4	1/4	5/8 Hole	25	15300	5.30	5.01	4.76	4.52	
480409		4-1/2	1/4	7/8 Hole	25	13300	4.90	4.64	4.40	4.18	
480412		5	1/4	7/8 Hole	25	12200	5.30	5.01	4.76	4.52	
480415		6	1/4	7/8 Hole	25	10200	7.34	6.95	6.59	6.27	
480418		7	1/4	7/8 Hole	25	8600	8.87	8.39	7.96	7.57	
480421		9	1/4	7/8 Hole	25	6600	13.77	13.03	12.36	11.76	
							10 / 20	40	80	200	400
480430		4-1/2	1/4	5/8-11 Hub	20	13300	\$4.90	\$4.64	\$4.40	\$4.18	
480433		4-1/2	1/4	5/8-11 METAL	10	13300	8.67	8.20	7.78	7.40	
480436		5	1/4	5/8-11 Hub	20	12200	5.30	5.01	4.76	4.52	
480439		5	1/4	5/8-11 METAL	10	12200	8.93	8.45	8.01	7.62	
480442		6	1/4	5/8-11 Hub	20	10200	8.06	7.62	7.23	6.88	
480445		7	1/4	5/8-11 METAL	10	8600	11.73	11.09	10.53	10.01	
480448		9	1/4	5/8-11 METAL	10	6600	16.31	15.43	14.64	13.93	



WALTER XCAVATOR XX Grinding Wheels

ITEM NO.	TYPE	DIA INCHES	THICKNESS	ARBOR	MIN SELL	MAX RPM	UOM: WH x CASE QUANTITY			
							10	40	80	120
480360		4-1/2	1/4	7/8 Hole	10	13300	\$9.89	\$9.35	\$8.87	\$8.44
480363		5	1/4	7/8 Hole	10	12250	11.21	10.61	10.06	9.57
480366		6	1/4	7/8 Hole	10	10200	14.29	13.51	12.82	12.20
480369		7	1/4	7/8 Hole	10	8600	16.83	15.92	15.10	14.37
480372		9	1/4	7/8 Hole	10	6650	21.41	20.26	19.22	18.28
480380		4-1/2	1/4	5/8-11 Hub	10	13300	14.29	13.51	12.82	12.20
480383		6	1/4	5/8-11 Hub	10	10200	22.44	21.23	20.14	19.16
480386		7	1/4	5/8-11 Hub	10	8600	24.99	23.64	22.42	21.33
480389		9	1/4	5/8-11 Hub	10		35.19	33.28	31.58	30.04



Grinding Wheels

ITEM NO.	TYPE	DIA INCHES	THICK-NESS	ARBOR	MAX RPM	UOM: WH x CASE QUANTITY			
						20	40	100	200
481010	27 (Depressed)	4-1/2	1/4"	7/8" Round Hole	13580	\$2.77	\$2.62	\$2.48	\$2.36
481030	27 (Depressed)	4-1/2	1/4	5/8-11 Hub	13580	3.86	3.65	3.46	3.28



Cut-Off Wheels

ITEM NO.	TYPE	DIA INCHES	THICK-NESS	ARBOR	MAX RPM	UOM: WH x CASE QUANTITY			
						20	100	200	300
481150	1 (Flat)	4-1/2"	.040"	7/8" Round Hole	13580	\$1.84	\$1.74	\$1.65	\$1.57

BIG CAT® Flap Discs

- High density flap disc yields 30 – 40% longer life than standard flap discs.
- BIG CAT offers widest footprint in the industry – resulting in better conformation to curved and irregular surfaces.
- Phenolic backing.



ITEM NO.	TYPE	DIA INCHES	GRIT	ARBOR	MAX RPM	UOM: WH x BOX QUANTITY			
						10	40	80	120
481300	27 (Flat)	4-1/2	40	7/8" Round Hole	13000	\$9.99	\$9.44	\$8.94	\$8.49
481303	27 (Flat)	4-1/2	60	7/8" Round Hole	13000	9.99	9.44	8.94	8.49
481306	27 (Flat)	4-1/2	80	7/8" Round Hole	13000	8.91	8.42	7.97	7.58
481309	27 (Flat)	4-1/2	120	7/8" Round Hole	13000	10.11	9.55	9.04	8.59
481312	27 (Flat)	4-1/2	40	5/8-11 Hub	13000	11.02	10.41	9.86	9.37
481315	27 (Flat)	4-1/2	60	5/8-11 Hub	13000	11.02	10.41	9.86	9.37
481318	27 (Flat)	4-1/2	80	5/8-11 Hub	13000	11.02	10.41	9.86	9.37



TIGER PAW™ Flap Discs

- 100% Zirconia Alumina grain for Long Life and Superior Grain Retention.
- Aggressive action and long life for heavy-duty applications on steel and stainless.
- Phenolic backing.



ITEM NO.	TYPE	DIA INCHES	GRIT	ARBOR	MAX RPM	UOM: WH x BOX QUANTITY			
						10	40	80	120
481350	27 (Flat)	4-1/2	40	7/8" Round Hole	13000	\$5.56	\$5.25	\$5.25	\$4.73
481353	29 (Angled)	4-1/2	40	7/8" Round Hole	13000	5.63	5.31	5.03	4.78
481356	29 (Angled)	4-1/2	60	7/8" Round Hole	13000	5.63	5.31	5.03	4.78
481359	29 (Angled)	4-1/2	80	7/8" Round Hole	13000	5.63	5.31	5.03	4.78
481362	29 (Angled)	7	40	7/8" Round Hole	8600	13.18	12.44	11.79	11.20
481365	29 (Angled)	7	60	7/8" Round Hole	8600	13.02	12.30	11.65	11.07



A46N Aluminum Grinding Wheels

- A46N aluminum grinding wheel for non-ferrous metals such as aluminum, copper, brass etc.
- Aluminum oxide formulation prevents loading on soft [non-ferrous] metals.
- Soft bond for aggressive removal of material without loading.



ITEM NO.	TYPE	DIA INCHES	THICK-NESS	ARBOR	MAX RPM	MIN SELL	UOM: WH x BOX QUANTITY			
							10 / 25	50	100	200
480600	27 (Depressed)	4-1/2	1/4"	7/8" Round Hole	13300	25	\$7.34	\$6.93	\$6.57	\$6.24
480603	27 (Depressed)	4-1/2"	1/4"	5/8-11 Hub	13300	10	9.51	8.99	8.51	8.09

A46N Aluminum Cut-Off Wheels

- off wheel for non-ferrous metals such as aluminum, copper, brass etc.
- Aluminum oxide formulation prevents loading on soft [non-ferrous] metals.
- Soft bond for aggressive cutting without loading.



ITEM NO.	TYPE	DIA. INCHES	THICK-NESS	ARBOR	MAX. RPM	UOM: WH x CASE QUANTITY			
						50	100	200	300
480640	27 (Depressed)	4-1/2"	.045"	7/8" Round Hole	13300	\$3.06	\$2.89	\$2.74	\$2.60
480643	1 (Flat)	4-1/2"	.045"	7/8" Round Hole	13300	2.82	2.67	2.53	2.40

Shop Rolls

- Aluminum oxide grain on high quality DA-F material for high flexibility.
- Medium tensile strength.
- Used primarily for hand applications on ferrous and non-ferrous metal, wood and fiberglass etc.



ITEM NO.	SIZE	GRIT	PRICE PER ROLL			
			1	5	10	20
484010	1-1/2" x 10 yds	60	\$11.71	\$11.06	\$10.47	\$9.95
484013	1-1/2" x 10 yds	80	10.47	9.89	9.37	8.90
484016	1-1/2" x 10 yds	120	9.88	9.33	8.84	8.40
484019	1-1/2" x 10 yds	180	9.88	9.33	8.84	8.40
484030	1" x 50 yds	60	31.43	29.68	28.12	26.71
484033	1" x 50 yds	80	27.56	26.03	24.66	23.43
484036	1" x 50 yds	100	26.12	24.67	23.37	22.20
484039	1" x 50 yds	120	26.12	24.67	23.37	22.20
484042	1" x 50 yds	150	26.12	24.67	23.37	22.20
484045	1" x 50 yds	180	26.12	24.67	23.37	22.20
484048	1" x 50 yds	220	26.12	24.67	23.37	22.20
484051	1" x 50 yds	240	26.12	24.67	23.37	22.20
484054	1" x 50 yds	320	26.12	24.67	23.37	22.20
484057	1" x 50 yds	400	26.12	24.67	23.37	22.20
484070	1-1/2" x 50 yds	120	38.13	36.01	34.12	32.41
484090	2" x 50 yds	150	50.09	47.31	44.82	42.58

METALMAX™ Diamond Cutoff Wheel

- METALMAX™ - an alternative to abrasive cut-off wheels.
- Excellent diameter retention.
- Solid steel body that greatly reduces the risk of breakage.
- Less odor and dust residue.
- Diamond edge technology.
- Recommended for multiple metals, including steel, sheet metal, stainless steel, rebar, cast iron, aluminum and non-ferrous metals.



ITEM NO.	DIA. INCHES	THICK-NESS	ARBOR	Optional Arbor Adjustment	Power Tool Type	PRICE EACH			
						1	5	10	20
482400	1.5"	.050"	3/8"	1/4"	Die Grinder	\$19.79	\$18.69	\$17.71	\$16.83
482403	2"	.050"	3/8"	1/4"	Die Grinder	12.99	12.33	11.73	11.20
482406	3"	.050"	3/8"	1/4"	Die Grinder	16.66	15.74	14.91	14.16
482409	4"	.050"	3/8"	1/4"	Die Grinder	20.85	19.69	18.66	17.73
482412	4"	.050"	5/8"	1/4"	Angle Grinder	15.34	14.49	13.72	13.04
482415	4.5"	.050"	7/8"		Angle Grinder	15.63	14.76	13.99	13.29
482418	5"	.050"	7/8"		Angle Grinder	20.85	19.69	18.66	17.73
482421	6"	.050"	7/8"	Diamond Knockout	A-Grind/Circ Saw	28.59	27.00	25.58	24.30
						1	3	6	12
482424	7"	.060"	7/8"	Diamond Knockout	A-Grind/Circ Saw	35.44	33.47	31.71	30.13
482427	8"	.060"	5/8"	Diamond Knockout	Circular Saw	37.18	35.11	33.26	31.60
482430	10"	.100"	5/8"		Stationary/Sm Chop Saw	89.54	84.57	80.12	76.11
482433	12"	.130"	1"		Chop Saw	97.84	92.40	87.54	83.16
482436	14"	.130"	1"		Chop Saw	113.12	106.92	101.36	96.36
482439	12"	.150"	1"	20mm	Gas Saw	81.25	77.14	73.42	70.05
482442	14"	.150"	1"	20mm	Gas Saw	113.12	106.92	101.36	96.36

Tungsten Carbide Tipped Saw Blades

- Features a micro grain cobalt binder with a small amount of titanium for added cutting life, ground to very exact tolerances for optimum performance and tool life.
- These ferrous and nonferrous metal cutting blades cut with fewer burrs and less heat than abrasive blades, so there is no need for secondary finish grinding.
- The modified triple chip grind resists material buildup on the tooth, allowing for longer life between resharpenings.



ITEM NO.	DESCRIPTION	1	5	10	20
482220	7-1/4" 36-tooth, 5/8" arbor *	\$24.50	\$23.18	\$21.99	\$20.91
482223	8" 48-tooth, 5/8" arbor *	33.60	31.78	30.15	28.68
	* Diamond arbor	1	3	6	12
482226	9" 48-tooth, 1" arbor	39.85	37.84	36.01	34.36
482229	10" 80-tooth, 5/8" arbor	60.04	56.80	53.88	51.26
482232	12" 100-tooth, 1" arbor	83.99	79.73	75.89	72.40
482235	14" 120-tooth, 1" arbor	109.51	103.96	98.95	94.40



Wire Cup Brushes

- 2-3/4" diameter cup brushes with 5/8-11 hub.
- Wire material is carbon steel on the first two items and stainless steel on the last item.



ITEM NO.	DESCRIPTION	1	10	20	40
485106	Wire size .014"	\$15.95	\$15.06	\$14.27	\$13.56
485109	Wire size .020"	15.78	14.90	14.12	13.41
485150	STAINLESS STEEL .020"	24.78	23.40	22.17	21.06

STEEL WORKER® Carbide-Tipped Metal Cutting Saw Blades

- Cool cutting action with long life.
- Fast, burr free cutting on heavier gauge metals.
- Use for angle iron, rebar, steel plate, channel iron, pipe, threaded rod, C-channel, and other ferrous metals.



ITEM NO.	DIA	TEETH	ARBOR	MAX RPM	1	3	6	12
482000	5-3/8"	30	20mm*	4200	\$50.78	\$47.96	\$45.43	\$43.16
482007	6-1/2	40	5/8" (16mm)	5800	66.84	63.13	59.80	56.81
482014	7	36	20mm	5800	66.06	62.39	59.11	56.15
482021	7-1/4	40	5/8" (16mm)	5800	66.84	63.13	59.80	56.81
482028	8	42	5/8" (16mm)	5800	82.74	78.14	74.03	70.33
482035	9	48	1" (26mm)	3200	85.62	80.86	76.61	72.78
482042	10	52	5/8" (16mm)	5200	123.07	116.33	110.29	104.84
482049	12	60	1" (26mm)	2000	159.43	150.70	142.87	135.81
482056	14	72	1" (26mm)	1800	182.20	172.22	163.27	155.21

* 10mm & 5/8"bushing

ALUMINUM Cutting Carbide-Tipped Saw Blades

- Cool cutting action with long life and minimal melting of aluminum.
- Fast, burr free cutting on



ITEM NO.	DIA	TEETH	ARBOR	MAX RPM	1	3	6	12
482150	5-3/8"	50	20mm*	4200	\$53.75	\$50.76	\$48.09	\$45.69
482157	6-1/2	60	5/8" (16mm)	5800	69.16	65.32	61.88	58.79
482164	7	54	20mm	5800	68.76	64.94	61.53	58.45
482171	7-1/4	60	5/8" (16mm)	5800	78.38	74.03	70.13	66.63
482178	8	60	5/8" (16mm)	5800	111.45	105.34	99.87	94.94
482185	10	80	5/8" (16mm)	5200	126.04	119.04	112.78	107.14
					1	2	4	6
482192	12	80	1" (26mm)	2000	222.19	210.18	199.40	189.67
482199	14	80	1" (26mm)	1800	215.44	203.80	193.35	183.91

* 10mm & 5/8"bushing



TMX Carbide-Tipped Metal Cutting Saw Blades

- Cool cutting action with long life.
- Fast, burr free cutting on thin gauge metals.
- Use for metal studs, duct work, sheet metals, galvanized roofing, thin walled pipe, conduit, and strut channel.



ITEM NO.	DIA	TEETH	ARBOR	MAX RPM	1	3	6	12
482080	6-1/2"	48	5/8" (16mm)	5800	\$69.16	\$65.32	\$61.88	\$58.79
482087	7-1/4	68	5/8" (16mm)	5800	80.71	76.22	72.21	68.60
					1	2	4	6
482094	12	80	1" (26mm)	2000	222.19	210.18	199.40	189.67
482101	14	90	1" (26mm)	1800	260.34	246.27	233.64	222.24

STAINLESS Cabide-Tipped Metal Cutting Saw Blades

- Cool cutting action with long life and minimal distortion.
- Fast, burr free cutting on tubing, bars, pipe, and stainless steel plate.



ITEM NO.	DIA	TEETH	ARBOR	MAX RPM	1	3	6	12
482120	7"	48	20mm	5800	\$99.50	\$93.97	\$89.03	\$84.58
482127	7-1/4	48	5/8" (16mm)	5800	93.68	88.47	83.82	79.63
					1	2	4	6
482134	14	90	1" (26mm)	1800	325.77	308.16	292.36	278.10



Metal Cutting Bandsaw Blades, Custom Lengths

- Blades are sold by the piece.
- Many more sizes available – please call for pricing.

EXCEL Bi-Metal M42 Saw Blade

- High tooth hardness – RC 68-69.
- 8% cobalt M42 tool steel cutting edge.
- Cuts high alloy, heat treated and stainless steels.
- Applications include:
 - Production cutting
 - Stainless and carbon steels
 - Hardened materials
 - Solid rods

ITEM NO.	LENGTH	WIDTH	TPI	1	5	10	20
493400	92-1/2"	3/4"	12/8	\$40.32	\$38.14	\$36.19	\$34.42
493405	93	3/4	10/6	40.32	38.14	36.19	34.42
493408	93	3/4	12/8	40.32	38.14	36.19	34.42
493450	101	3/4	10/6	40.32	38.14	36.19	34.42
493455	101	3/4	14/10	40.32	38.14	36.19	34.42
493475	105	3/4	8/5	44.41	42.01	39.85	37.91
493485	106	3/4	8/5	44.41	42.01	39.85	37.91
493488	106	3/4	10/6	44.41	42.01	39.85	37.91
493535	115	3/4	12/8	48.50	45.88	43.52	41.40
493605	128	3/4	10/6	52.59	49.74	47.19	44.89
493650	137-1/2	3/4	14/10	52.59	49.74	47.19	44.89
493655	137-3/4	3/4	10/6	52.59	49.74	47.19	44.89
493658	137-3/4	3/4	12/8	52.59	49.74	47.19	44.89
493670	138	3/4	12/8	56.67	53.61	50.86	48.38
493870	174	3/4	10/6	68.94	65.21	61.87	58.85
493890	176	3/4	8/5	68.94	65.21	61.87	58.85
494200	104-1/2	1	10/6	50.95	48.19	45.72	43.49
494275	119-1/2	1	6/4	55.76	52.75	50.04	47.60
494280	120	1	8/5	55.76	52.75	50.04	47.60
494283	120	1	10/6	55.76	52.75	50.04	47.60
494335	129-3/8	1	10/6	60.57	57.30	54.36	51.71
494340	130	1	8/5	60.57	57.30	54.36	51.71
494350	130-1/2	1	8/5	60.57	57.30	54.36	51.71
494360	132	1	8/5	60.57	57.30	54.36	51.71
494390	138	1	8/5	65.39	61.85	58.68	55.82
494393	138	1	10/6	65.39	61.85	58.68	55.82
494425	144	1	4/3	65.39	61.85	58.68	55.82
494430	144	1	8/5	65.39	61.85	58.68	55.82
494460	150	1	10/6	70.20	66.41	63.00	59.93
494520	162	1	8/5	75.02	70.96	67.32	64.04
494570	172	1	6/4	75.02	70.96	67.32	64.04
494580	174	1	6/4	79.83	79.83	71.64	68.15
494590	174	1	10/6	79.83	75.51	71.64	68.15
494910	183	1-1/4	8/5	90.20	85.32	80.95	77.00

NEW WAVE Bi-Metal Saw Blade

- Tooth hardness RC 66-68.
- 8% cobalt matrix II tool steel cutting edge.
- Wavy Set.
- 0 degree face angle.
- Applications include:
 - Maintenance, tool room and repair shops
 - Light fabrication of mild steel
 - Thin wall tubing
 - Sheet metal
 - Contour cutting

ITEM NO.	LENGTH	WIDTH	TPI	1	5	10	20
491050	60"	1/2"	14/10	\$23.43	\$22.16	\$21.03	\$20.00
491070	64-1/2	1/2	14/10	23.43	22.16	21.03	20.00
491280	82	3/4	12/8	33.53	31.71	30.09	28.62
491340	93	3/4	10/6	37.23	35.22	33.41	31.78
491345	93	3/4	14/10	37.23	35.22	33.41	31.78
491410	106	3/4	8/5	37.23	35.22	33.41	31.78
491413	106	3/4	10/6	40.93	38.72	36.73	34.94
491450	114	3/4	12/8	44.63	42.22	40.05	38.10
491510	126	3/4	12/8	48.33	45.72	43.38	41.26
491570	137-1/2	3/4	14/10	48.33	45.72	43.38	41.26
491800	104-1/2	1	10/6	47.47	44.90	42.60	40.52
491850	114	1	8/5	51.89	49.09	46.57	44.30
491860	115-1/2	1	10/6	51.89	49.09	46.57	44.30
491863	115-1/2	1	12/8	51.89	49.09	46.57	44.30
491890	120	1	12/8	51.89	49.09	46.57	44.30
491940	129-3/8	1	12/8	56.32	53.28	50.55	48.08
491950	130-1/2	1	10/6	56.32	53.28	50.55	48.08
491970	132	1	12/8	56.32	53.28	50.55	48.08
492005	138	1	10/6	60.75	57.47	54.52	51.86
492060	150	1	10/6	65.18	61.66	58.49	55.64
492063	150	1	12/8	65.18	61.66	58.49	55.64
492120	162	1	12/8	69.61	65.84	62.47	59.42
492160	174	1	12/8	74.03	70.03	66.44	63.20

PORTA-BLADE Bi-Metal Bandsaw Blade

- Length: 44-7/8", width: ½", for use in portable bandsaws.
- 8% cobalt matrix II.
- Provides excellent life in tough cutting applications.
- Available 5 packs [listed below], or in bulk 100/Packs – call for pricing.

ITEM NO.	TPI	TOOTH SET	STYLE	5	10	20	40
239001	10	Raker	Constant	\$5.36	\$5.07	\$4.81	\$4.57
239002	14	Raker	Constant	5.36	5.07	4.81	4.57
239003	18	Raker	Constant	5.36	5.07	4.81	4.57
239004	24	Wavy	Constant	5.36	5.07	4.81	4.57
239005	14/10	Raker	Broach	5.00	4.75	4.52	4.31
239006	24	Raker	Broach	5.36	5.07	4.81	4.57
239007	18/14	Wavy	Broach	5.36	5.07	4.81	4.57



Rapid Tap® All-Metal Cutting Fluid

- Greatly extends tool life.
- Super-fine machined finish in operation after operation.
- Anti-mist protection for a healthier work environment.
- No special labeling or reporting.
- Excels in tough materials.
- Contains no 1,1,1-trichloroethane or other ozone-depleting chemicals.



ITEM NO.	DESCRIPTION	LENS	1	12	24	48
922100	4 oz. bottle		\$3.01	\$2.84	\$2.68	\$2.54
			1	12	24	48
922103	Pint		8.92	8.41	7.95	7.53
			1	4	8	16
922106	Gallon		50.58	47.65	45.04	42.70
			1	2	4	6
922109	5 gallon pail		247.43	233.49	221.04	209.85
			1	2	3	4
922112	55 gal. drum		1,462.50	1,392.86	1,329.55	1,271.74
			1	6	12	24
922120	8 oz. jar - PASTE		8.62	8.12	7.67	7.27

REL SAW™ Band-Saw Coolant Concentrate

- For use in machines with coolant circulation systems.
- Stable over a wide variety of water conditions.
- Promotes cleaner-running machines compared to soluble oils.
- Long emulsion life.
- Contains rust- and corrosion inhibitors.
- Dilutable up to 30:1.

REL SAW™



ITEM NO.	DESCRIPTION	1	4	8	16
922160	Gallon	\$30.09	\$28.35	\$26.79	\$25.40
		1	2	4	6
922163	5 gallon pail	128.00	120.69	114.16	108.31
		1	2	3	4
922166	55 gal. drum	1,050.00	1,050.00	975.00	941.38



TCO-14™ / TCO-16™ Thread-Cutting Oil

- Ready to cut clean, smooth threads on all pipe materials.
- Extreme-pressure additive for anti-weld characteristics.
- Excellent protection of tools and machined parts against corrosion.
- Contains anti-mist component for a healthier work environment.
- Available in Dark (TCO-14) or Light (TCO-16); operationally



ITEM NO.	DESCRIPTION	1	4	8	16
922130	Gallon - DARK	\$21.23	\$20.00	\$18.90	\$17.92
922133	Gallon - LIGHT	20.31	19.13	18.08	17.14
		1	2	4	6
922136	5 gallon pail - DARK	102.18	96.26	90.99	86.26
922139	5 gallon pail - LIGHT	90.83	85.57	80.88	76.68
		1	2	3	4
922142	55 gal. drum - DARK	608.11	584.42	562.50	542.17
922145	55 gal. drum - LIGHT	608.11	584.42	562.50	542.17

A-9® Aluminum Cutting Fluid

- Eases all operations on aluminum: milling, broaching, drilling, threading, tapping, reaming, sawing etc.
- Contains anti-mist component for a healthier work environment.
- Contains a scientific blend of chemicals that attach to aluminum surfaces, forming an extreme-pressure boundary lubricant between tool and work surface.



ITEM NO.	DESCRIPTION	LENS	1	12	24	48
922180	4 oz. bottle		\$2.31	\$2.17	\$2.05	\$1.95
			1	6	12	48
922183	Pint		8.55	8.06	7.62	7.22
			1	4	8	16
922186	Gallon		48.18	45.39	42.90	40.68
			1	2	4	6
922189	5 gallon pail		192.73	181.71	171.89	163.08
			1	2	3	4
922192	55 gal. drum		1,462.50	1,392.86	1,329.55	1,271.74



Air-FLO® Air Tool Oil

- For piston-driven and rotary air tools.
- Air-FLO Air Tool Oil incorporates both the latest technology and finest materials to produce a premium air-tool oil.
- Manufactured from solvent-refined, hydro-treated paraffinic base stocks, Air-FLO is fortified with additives to provide anti-wear, extreme-pressure, oxidation-resistance, anti-rust and foam-protection qualities.
- Superior oxidation stability.
- Resistance to formation of gums, sludges, and deposits.
- Anti-wear fortified for extended life, lower maintenance.
- Protection against rust and corrosion.
- Excellent seal compatibility.
- Metal-wetting properties.
- Dirt particles held in suspension.
- Contaminants flushing.
- 10wt non-detergent.



ITEM NO.	DESCRIPTION	LENS	1	12	24	48
922210	4 oz. bottle		\$4.15	\$3.91	\$3.70	\$3.51
			1	6	12	24
922213	Pint		8.98	-	8.46	8.00
			1	4	8	16
922216	Gallon		45.97	43.30	40.93	38.81
			1	2	3	4
922219	55 gal. drum		730.26	702.53	676.83	652.94



PRO TAP Cutting Fluid

- Highly effective for all cutting operations on all metals.
- Biodegradable
- Totally free of all regulated chemicals.
- Extends tool life.
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48	96
108251	12 oz. aerosol	\$16.85	\$15.92	\$15.08	\$14.33	\$13.64



OPTION 1® Biodegradable Metal-Cutting Fluid

- OPTION 1® leaves no oily residue.
- Water-based.
- No 1,1,1-trichloroethane or other ozone-depleting chemicals.
- Cleans up with clean dry cloth or water.
- Great for use in computer, clean rooms, hospitals or when a weld operation follows machining operations.



ITEM NO.	DESCRIPTION	LENS	1	4	8	16
922240	Gallon		\$48.18	\$45.39	\$42.90	\$40.68
			1	2	4	6
922243	5 gallon pail		230.69	217.69	206.08	195.65
			1	2	3	4
922246	55 gal. drum		1,462.50	1,392.86	1,329.55	1,271.74

372 Synthetic Cutting Fluid

- Water-dilutable, oil-free synthetic formula removes heat to protect tools and improve cut capacity.
- Provides maximum lubrication while leaving a rust-inhibiting coating.
- Reduces abrasive wear prolonging tool life and yielding quality finishes.
- Low-foaming formula will not gum or clog coolant lines.
- Water dilution ratios and applications:
- Heavy duty: 1:10 for internal and external broaching, tapping, threading, gear shaving & hobbing.
- Medium duty: 1:20 for cutting, drilling, reaming, milling, boring, turning, planing, shaping, & sawing.
- Light duty: 1:30 for form grinding and surface grinding.



ITEM NO.	DESCRIPTION	LENS	1	4	8	16
201639	Gallon		\$30.42	\$28.69	\$27.14	\$25.74

NORSEMAN/CTD
DRILL & TOOL

America's Finest High-Speed Steel Cutting Tools™

ULTRA LUBE™ Cutting
Tool Lubricant

- An excellent lubricant for all types of drilling, tapping, cutting, reaming, and associated applications.
- Extra-thick, super concentrated formula clings to the drill bit better without just running off the bottom.
- Virtually smoke-free even in the most heat-prone applications.
- Contains no ozone-depleting substances.
- This fluid will extend tool life and yield a super machined finish.

POPULAR
SELLER!



ITEM NO.	DESCRIPTION	1	12	24	48	96
922000	4 oz. bottle	\$3.01	\$2.85	\$2.70	\$2.56	\$2.44
922010	16 oz. bottle	9.71	9.17	8.68	8.25	7.86

SUPER S Hi-Temp
Red Lithium NLGI 2
Grease



- NLGI 2, lithium complex premium quality, multi-functional grease that provides outstanding high temp performance and excellent lubrication.
- Dropping point exceeds 500°F
- Uses: heavy duty/fleet, wheel bearings, vehicle chassis, boat trailers, universal joints, ball and roller bearings, and many others.
- 10 cartridges per case



ITEM NO.	DESCRIPTION	10	50	100	300
921681	14 oz. cartridge	\$3.94	\$3.71	\$3.51	\$3.32

JT-6® Multi-Purpose
Hi-Temp Grease

- Provides superior rust, oxidation, and corrosion resistance.
- Designed to meet the high temperature conditions of modern universal joints, the extreme pressures of wheel bearings and the water washout conditions of fifth wheels and chassis points.
- Other applications include: Backhoe hinge pins, conveyor bearings, etc.
- 10 cartridges per case



ITEM NO.	DESCRIPTION	10	30	60	120
921510	14 oz. cartridge	\$7.21	\$6.81	\$6.45	\$6.13

MEGA FOAMCUT®
Threading/Cutting
Foam

- Versatility: Use on ferrous & nonferrous metals.
- Applications: Tapping, drilling, reaming, boring, milling, broaching, and trepanning.
- Efficiency: Precise application, provides long contact time with tooling.
- Effectiveness: Promotes longer tool life and better finish.
- Lubricity: Unique chemical cooling of the workpiece and tool.



ITEM NO.	DESCRIPTION	1	12	24	48	96
922520	17 oz Aerosol Can	12.52	11.80	11.15	10.57	10.05

SUPER S Multi-Purpose
#2 Lithium Grease



- NLGI 2, lithium based, water resistant grease for automotive and light to medium trucks, farm and industrial applications.
- Recommended for automotive chassis lubrication points, ball joints and universal joints.
- Resists softening at high operation temperatures.
- Seals out dirt and moisture contamination
- Protects against rust and corrosion
- 10 cartridges per case



ITEM NO.	DESCRIPTION	10	50	100	300
921671	14 oz. cartridge	\$3.31	\$3.13	\$2.97	\$2.83



PB™ BLASTER®
Penetrating Catalyst



- Loosens rusted, warped, and frozen parts.
- Attacks rust from all angles using a unique capillary action.
- PB™ does not evaporate, but leaves a lubricating film on parts to prevent further rust and corrosion.
- Ideal for automotive, industrial, marine, and agricultural applications.



ITEM NO.	DESCRIPTION	1	12	24	48	96
108160	11 oz. aerosol	\$7.98	\$7.53	\$7.14	\$6.78	\$6.46

BONUS

PB does not evaporate,
it leaves a lubricating film
on parts to prevent rust
& corrosion.

DIRECTIONS

HEY, SHAKE THE CAN!
COMPLETELY SATURATE
THE TROUBLED AREA
DON'T HOLD BACK! IF YOU THINK IT'S NOT ENOUGH...
GO AHEAD, GIVE IT ANOTHER SPRAY
LET SIT FOR A FEW MINUTES
TAP LIGHTLY & RE-SPRAY TO HASTEN RESULTS

Penetrating Oil

- Stops squeaks and loosens rusted parts.
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48	96
921702	10 oz. aerosol	\$3.81	\$3.60	\$3.41	\$3.24	\$3.08

FREE ALL
Deep Penetrating Oil

- Penetrates rust, scale, and corrosion to free parts and assemblies INSTANTLY!
- Loosens red and white lead, tar, grease, carbon and graphite deposits.
- Contains specially rust eating agent that is ideal for a wide range of applications.
- Contains NO silicones, making it safe in paint and shop environments.



ITEM NO.	DESCRIPTION	1	12	24	48	96
150500	11 oz. aerosol	\$10.46	\$9.88	\$9.36	\$8.89	\$8.46

WD-40 Open Stock
Lubricant

- Lubricates moving parts such as hinges, wheels, rollers, chains, and gears.
- Protects against rust and corrosion.
- Penetrates to free stuck and corroded parts.
- Displaces moisture to restore wet or flooded equipment such as engines, spark plugs, and power tools.
- Sprays two ways: spray (straw down) or stream (straw up).
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48
108165	12 oz. aerosol	\$12.02	\$11.35	\$10.76	\$10.22



ORIGINAL
WD-40®
FORMULA

- Stops Squeaks
- Protects Against Corrosion
- Loosens Rusted Parts
- Frees Sticky Mechanisms
- Drives Out Moisture

Starting Fluid

- For gas or diesel engines.
- Faster starting saves batteries.
- Contains upper cylinder lubricant.
- Performs to -65° F.
- Complies with federal low sulfur content requirements for use in diesel motor vehicles and nonroad engines.



ITEM NO.	DESCRIPTION	1	12	24	48	96
921652	10.7 oz. aerosol	\$3.32	\$3.13	\$2.97	\$2.82	\$2.68

Carb & Choke Cleaner

- Cleans carburetor linkage, PCV valve and choke.
- Oxygen sensor safe.
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48	96
921752	16.25 oz. aerosol	\$3.64	\$3.44	\$3.25	\$3.09	\$2.94

Non-Chlorinated Brake & Parts Cleaner

- High power spray removes brake fluid, grease and oil instantly.
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48	96
921784	14 oz. aerosol	\$3.30	\$3.12	\$2.95	\$2.81	\$2.67

Non-Flammable Brake & Parts Cleaner

- High power spray to remove brake fluid, brake dust and contaminants.
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48	96
921790	16 oz. aerosol	\$4.59	\$4.34	\$4.11	\$3.90	\$3.72

All-Purpose Cleaner & Degreaser

- Versatile, all-purpose cleaner.
- Concentrate is non-toxic, biodegradable, and dilutable.
- Removes grease, oil, soot, grime, food residue, & more!
- Formula is non-flammable & non-hazardous.
- Can be used on all water-safe surfaces.



ITEM NO.	DESCRIPTION	1	12	24	48
201106	32 oz Trigger Spray	\$9.38	\$8.86	\$8.39	\$7.98

Industrial Strength Cleaner & Degreaser

- A unique blend of non-toxic, biodegradable detergents that form a powerful, non-flammable extra heavy-duty cleaner and degreaser.
- Gentle enough for cleaning clothes, upholstery, and carpet, but strong enough for heavy duty projects like cleaning engines and construction equipment.
- Concentrated formula removes grease, grime, oil, soap scum, & more.



ITEM NO.	DESCRIPTION	1	12	24	48
201101	32 oz trigger spray	\$5.75	\$5.43	\$5.14	\$4.89
		1	4	12	24
201102	1 gallon bottle	n/a	12.60	11.90	11.28



Don't settle for
RUSTY TOOLS!



Cool Gel® Heat Barrier Spray

- Cool Gel® is a clear non-staining gelled heat barrier spray that protects components and materials during soldering.
- It protects painted and finished surfaces from discoloration due to torch heat, and sticks to surfaces without dripping or running off.
- Reduces expensive danger of fire to surrounding surfaces such as wood, drywall, and valve seals.



ITEM NO.	DESCRIPTION	1	6	12	24
211513	16 oz. sprayer bottle	\$17.53	\$16.56	\$15.68	\$14.90
211514	32 oz. sprayer bottle	24.93	23.54	22.30	21.19

790 HTR-30™ Chemical Heat Tint Remover

- Strong acid formula effective in the removal of heat tint and metal discoloration caused by high temperatures within the weld zone on stainless steel, and will passivate.
- Requires strict adherence to label directions for safe use and disposal.
- 6 per case.



ITEM NO.	DESCRIPTION	1	6	12	24
201622	550g bottle (1.21 lb)	\$35.08	\$33.07	\$31.28	\$29.68

385 – Rust Remover

- A unique blend designed for the rapid removal of rust
- Phosphatizing agent delays future rust, and creates a conducive surface for paint adhesion
- Dilutable 1:3 or 1:30, depending on application

ITEM NO.	DESCRIPTION	1	4	8	16
201636	Rust Remover, 1 Gallon	\$32.86	\$30.99	\$29.31	\$27.81
		1	2	4	8
201637	Rust Remover, 2.5 Gal [2/Case*]	156.06	147.27	139.41	132.35

306 Cold Galv Liquid Zinc Galvanizing Coating

- Produces a cathodic coating that will stop rust & corrosion on ferrous surfaces.
- Equivalent to hot dip galvanizing in cathodic protection and film durability as well as protects against corrosion action of salt spray.
- Contains metallic zinc dust.
- Can be applied with brush or roller, or dilute for spray application.
- Leaves a matte finish.



ITEM NO.	DESCRIPTION	1	6	12	24
201656	Quart Can	\$78.12	\$78.12	\$73.66	\$69.68
		1	2	4	8
201657	Gallon Can	297.16	297.16	280.65	265.88

781 Aluminum Cleaner & Brightener

- Provides rapid and effortless cleaning and removal of grease, oil, dirt, and white, chalky aluminum oxides before welding.
- Removes weld residue and discoloration after welding for a clean, even finish.
- Rinse agents provide a sheeting action for film-free rinsing.
- Ready to use.
- Non-flammable



ITEM NO.	DESCRIPTION	1	12	24	48
201631	Quart bottle	\$8.92	\$8.92	\$7.96	\$7.55
		1	4	8	16
201632	Gallon bottle	23.18	21.86	20.68	19.62
		1	2	3	4
201633	55 gal. drum	745.20	707.47	673.37	642.41

394 Stainless Steel Cleaner

- Unlike common oil based cleaners or polishes, this water based formula contains heavy duty cleaning agents and solvents to both clean AND polish.
- Removes water marks, smudges, oil and grease stains with minimal agitation.
- Results in a non-greasy and streak-free finish which resists further soiling.
- 12 per case.



ITEM NO.	DESCRIPTION	1	12	24	48	96
201626	16 oz. aerosol	\$8.92	\$8.41	\$7.96	\$7.55	\$7.18



309 SprayGalv Matte Finish Zinc Galvanizing Spray

- Produces a cathodic coating that will stop rust & corrosion on ferrous surfaces.
- Equivalent to hot dip galvanizing in cathodic protection and film durability as well as protects against corrosion action of salt spray.
- Contains metallic zinc dust.
- Leaves a matte finish.
- 12 per case



ITEM NO.	DESCRIPTION	1	12	24	48	96
201659	13 oz. aerosol	\$10.55	\$9.94	\$9.41	\$8.92	\$8.49

305 SprayGalv Aluminized Metallic Zinc Coating

- Provides a hard coating which stops rust and corrosion on all metal surfaces.
- Equivalent to hot dip galvanizing in cathodic protection and film durability and protection against caustic action of salt spray.
- Resists peeling, blistering, rust, weather, gasoline and oil.
- Compounded from metallic zinc & aluminum dust, resin, and other additives to provide the look of new galvanizing.
- Leaves a bright finish.



ITEM NO.	DESCRIPTION	1	12	24	48	96
201651	16 oz. aerosol	\$11.73	\$11.06	\$10.46	\$9.92	\$9.44
		1	6	12	24	48
201652	Quart Can	78.12	78.12	73.66	69.68	-
		1	2	4	8	16
201653	Gallon Can	301.60	301.60	284.61	269.43	-

321 DYNA SHIELD Heat Shield

- DYNA-SHIELD is designed to create a barrier against the transfer of heat by conduction and convection during weld- ing and soldering.
- DYNA-SHIELD will absorb the heat as it travels along the metal surface, which leaves the rest of the metal surface cool.
- Can be sprayed or brushed.



ITEM NO.	DESCRIPTION	1	6	12	24	48
201621	16 oz. sprayer bottle	\$10.61	\$10.00	\$9.46	\$8.97	-

NOZZLE-KLEEN® HD Anti-Spatter

- For use in High Temp applications.
- Maximum heat range for inverters and Argon-rich mixtures.
- Non-flammable and paintable.
- Great for use on stainless steel.
- 6 per case.



ITEM NO.	DESCRIPTION	6	24	48	96
902240	15 oz. aerosol	\$15.68	\$14.81	\$14.03	\$13.33

200 Heavy Duty Anti-Spatter

- Provides protection to MIG gun nozzles, contact tips, accessories and all weld zones during single and multi-pass welding.
- Provides weld protection on parts to be stored.
- Requires little cleaning prior to painting when applied properly.
- Non-flammable, silicon-free.



ITEM NO.	DESCRIPTION	1	24	48	96	192
201601	16 oz. aerosol	\$6.42	\$6.06	\$5.73	\$5.44	\$5.17
201602	24 oz. aerosol	9.32	8.79	8.31	7.88	
		1	4	8	16	
201603	Gallon	52.61	49.60	46.92	44.51	-
		1	2	4	6	
201604	5 gallon pail	230.13	217.35	205.91	1195.61	-
		1	2	3	4	
201605	55 gal. drum	1,710.63	1,629.17	1,555.11	1,487.50	-

395 Mineral Emulsion Anti-Spatter

- Provides a safe and effective anti-spatter coating which prevents adhesion welding spatters on consumables and work pieces.
- Creates a thick film for heavy industrial welding.
- Oil paint compatible, and water and/or solvent removable.
- Excellent for use on all materials – especially stainless steel.
- Non-flammable, silicon-free.



ITEM NO.	DESCRIPTION	1	24	48	96
201611	16 oz. aerosol	\$6.14	\$5.79	\$5.47	\$5.19
		1	4	8	16
201612	Gallon	14.17	13.36	12.64	11.99
		1	2	4	8
201613	5 Gallon [2-2.5 gal*]	72.06	67.94	64.27	60.97
		1	2	3	4
201614	55 gal. drum	565.14	534.59	507.18	482.44

NOZZLE-KLEEN® No. 2 Anti-Spatter

- Nozzle-Kleen products are engineered to reduce spatter buildup on nozzles, tips, and diffusers.
- For most industrial welding applications.
- Non-flammable and paintable.
- 6 per case.



ITEM NO.	DESCRIPTION	1	6	24	48	96
902220	16 oz. aerosol	\$12.25	\$11.57	\$10.96	\$10.42	\$9.92

WELD-KLEEN® HD Anti-Spatter

- Weld-Kleen products are engineered to protect parts, clamps, tooling, and fixtures.
- Aerosol is solvent-based, quick-drying, and can take pre-heating.
- Non-flammable and paintable.
- 6 per case.



ITEM NO.	DESCRIPTION	1	6	24	48	96
902230	20 oz. aerosol	\$14.63	\$13.82	\$13.09	\$12.44	\$11.85

TD-97 Ceramic Anti-Spatter

- TD-97 is a dry film ceramic coating which is sprayed onto parts to protect them from weld spatter.
- Easy to apply and fast-drying [less than a minute].
- Saves on welding consumables and produces higher quality welds.
- Easy cleanup, as well as reduced need for cleaning chemicals.
- Typical applications include:
 - MIG and MAG welding
 - Laser and Plasma Cutting
 - Jigs, Fixtures, Nozzles, Tips, Cabling
 - Work Pieces and Shrouds
- Cables and Sensors
- Compares to LOCTITE® SF 7900™



• THERMAL DEFENDER is a registered trademark of ND Industries Inc.

ITEM NO.	DESCRIPTION	1	3	6	12	24
902270	20 oz. aerosol	\$25.92	\$24.42	\$23.08	\$21.88	\$20.80



High Performance
Anti-Spatter

- High performance spatter release solution protects welding equipment and work surfaces from unwanted spatter.
- Safe for painted and plated metals.
- Rinses residue free for use prior to painting and plating.
- Formula is solvent free, silicone free, non-flammable, and non-corrosive.
- Formula is readily biodegradable



ITEM NO.	DESCRIPTION	1	12	24	48
902200	32 oz Trigger Spray	\$9.35	\$8.83	\$8.37	\$7.95

NOZZLE-DIP HD Nozzle Gel

- Out-performs petroleum based nozzle dips & gels.
- Can dip hot or cold!
- Excellent cooling properties for longer tip and nozzle life.
- Non-flashing and paintable.
- Gel will not migrate into liner.
- Does not contain silicones, fluorocarbons, or methylene chloride.



ITEM NO.	DESCRIPTION	1	6	12	24
902320	32 oz quart jar	\$19.41	\$18.33	\$17.37	\$16.50



731 Nozzle Gel

- Provides excellent protection against weld spatter build-up on MIG gun nozzles, contact tips, positioners, stud welding chucks and electrode holders on all welding apparatus.
- Will not cause porosity.
- Non-flammable, non-toxic, and silicon-free. Petrolatum formula.



ITEM NO.	DESCRIPTION	1	6	12	24	48
201606	16 oz. jar	\$5.85	\$5.51	\$5.22	\$4.95	\$4.71



NOZZLE-KLEEN® YORK107A
Anti-Spatter

- Non-toxic, silicon free, biodegradable and environmentally friendly product provides spatter protection for base metals, nozzles, tips, electrode holders, jigs, clamps, and work surfaces.



ITEM NO.	DESCRIPTION	1	12	24	48
902330	20 oz container, 11 oz net wt	\$13.05	\$12.33	\$11.68	\$11.09

LUBE-MATIC® Wire

- Kleener & Lubricant
- Increases tip and liner life.
- Cuts rust and reduces wire drag by 60%.
- Decreases downtime due to jamming.
- Use to re-lube black pads (listed below).



ITEM NO.	DESCRIPTION	1	6	12	24
908515	3.75 oz. can	\$11.39	\$10.76	\$10.19	\$9.68

LUBE-MATIC® Lube & Kleener Pads

- Provides up to 300% tip and liner life.
- 007062 includes (1) black lube pad for steel wires, and (1) red kleener pad for all wires. Use together for maximum torch life.
- 007060 and 007061 include 6 pads of Lube-Matic or Kleener pads, respectively.
- Lubrication allows smooth feeding of wires with poor cast, helix, rust, and long feed liners.
- Not recommended for aluminum wires.



ITEM NO.	DESCRIPTION	1 pack	12	24	48
908524	Combo-Pak w/2 pads	\$1.45	\$1.36	\$1.29	\$1.29
		1 pack	6	12	24
908518	Lube Pads, 6/Pack	13.71	12.95	12.27	11.66
908521	KLEENER Pads, 6/Pack	12.99	12.27	11.63	11.05

Vibra-TITE®

Vibra-TITE offers a full line of adhesive products including threadlockers, thread sealants, retaining compounds, liquid gasketing, cyanoacrylates, anti-seize compounds, UV curables, epoxies, and more!



Vibra-TITE® Thread sealants

- Seals and secures metal pipes and fittings
- Fills the space between threaded metal parts
- Prevents leakage caused by tape shredding, vibration loosening, solvent evaporation, or damaged threads.
- Prevents corrosion and galling of threads.
- Low and high pressure applications.
- Seals to burst strength of most piping systems.
- Lubricating properties make assembly easier.
- Service removable; parts may be disassembled with basic hand tools.



ITEM NO.	COMPARES TO LOCTITE PART#	MAX GAP FILL	SEALING PRESSURE (PSI)	TEMP RANGE	FIXTURE TIME (MIN.)	SIZE	PRICE EACH				
							1	6	12	24	48
Vibra-Tite 420 PTFE Instant Pipe Sealant - Industrial Grade with controlled lubricity, prevents galling while protecting from corrosion and rust. Parts may be repositioned up to 24 hours after assembly. Typical uses include stainless steel and all other metal fittings. White. COMPRES WITH LOCTITE® 565/592.											
915390	56531/ 59231	0.012	10,000	-65°F to 300°F	60	50 mL Bottle	\$14.46	\$13.62	\$12.88	\$12.21	\$11.60
915393	56541/ 59241					250 mL Tube	48.51	45.70	43.19	40.95	
							1	3			
915395						1 L Jug	\$148.71	\$140.21			
Vibra-Tite 440 Hydraulic and Pneumatic High Pressure Sealant with excellent solvent resistance. It locks hydraulic and pneumatic connections producing a high strength, high pressure seal, while allowing easy disassembly with standard tools. For pneumatic, small pipe threads, and hydraulic fittings up to 2” diameter. Purple. COMPARES WITH LOCTITE® 545											
		0.007	10,000	-65°F to 300°F	30		1	6	12	24	48
915410	32429					10 mL Bottle	\$8.72	\$8.22	\$7.77	\$7.36	\$7.00
915413	54531					50 mL Bottle	22.03	20.75	19.62	18.60	17.68
915416	54541					250 mL Tube	71.82	67.65	63.95	60.62	
							1	3			
915419						1 L Jug	\$170.11	\$160.39			
Vibra-Tite 442 Hydraulic Fast Cure Sealant is a fast curing gel thread sealant which withstands temperatures up to 300°F. Purple. COMPARES WITH LOCTITE® 5452.											
		10,000	-65°F to 300°F				1	6	12	24	48
915450	1265769					50 mL Tube	\$21.54	\$20.29	\$19.18	\$18.18	\$17.28
915453	1265770					250 mL Tube	73.45	69.19	65.40	62.00	
Vibra-Tite 444 Hydraulic High Pressure Sealant is a general purpose pipe sealant that creates an instant seal on threaded joints with a high resistance to solvents and withstands temperatures to 300°F. Typical uses: small pipe threads and hydraulic fittings. Brown. COMPARES WITH LOCTITE® 569.											
915470		0.007	10,000	-65°F to 300°F	10	10 mL Bottle	\$8.72	\$8.22	\$7.77	\$7.36	\$7.00
915473	56931					50 mL Bottle	20.15	18.99	17.95	17.01	16.17
915476	56941					250 mL Tube	71.82	67.65	63.95	63.95	
							1	3			
915479						1 L Jug	\$170.11	\$160.39			
Vibra-Tite 460 High Temperature - Stainless Steel Pipe Sealant prevents galling and provides an instant low pressure seal on coarse fitting threads which is further strengthened as the product cures. Assembled parts can withstand temperatures up to 400°F and may be repositioned up to 24 hours after assembly. Typical uses include stainless steel, aluminum , galvanized metal and other inert metal threaded pipe fittings. White. COMPARES WITH LOCTITE® 567.											
		0.012	10,000	-65°F to 400°F	60		1	6	12	24	48
915490	56707					6 mL Tube	\$4.45	-	\$4.19	\$3.96	\$3.75
915493	56747					50 mL Bottle	14.46	13.62	12.88	12.21	11.60
915496	56765					250 mL Tube	48.51	45.70	43.19	40.95	
							1	3			
915498						1 L Jug	\$148.71	\$140.21			
Vibra-Tite 480 Multi-Purpose FBC Compatible Thread Sealant with PTFE is designed to lubricate and seal threaded connections. A non-curing and non-toxic formula, Vibra-Tite 480 contains no lead or harmful metals and can be used in potable water systems. White.											
		10,000	-35°F to 500°F				1	6	12	24	48
915510						4 oz. Jar with Brush	\$20.92	\$19.71	\$18.63	\$17.66	\$16.79
915513						8 oz. Jar with Brush	30.62	28.84	27.26	25.84	24.57
Vibra-Tite 612 Excel Primer T with PTFE is the recommended primer that can be used for the above thread sealants (except Vibra-Tite 480). COMPARES WITH LOCTITE® 7471.											
915680	Fast acting primer, acetone / isopropanol. Up to 7 days on-part life, dry time is					2 oz. bottle	\$7.38	\$6.97	\$6.61	\$6.28	\$5.98
915683	30 to 70 seconds.					8 oz. bottle	17.35	16.35	15.45	14.65	13.93

- For locking and sealing threaded fasteners.
- Liquid threadlockers are considered to be the most effective method of locking threaded fasteners because they unitize the entire assembly.
- They perform better than traditional mechanical devices such as lock washers.
- Prevents any loosening from shock or vibration, as well as alleviating rust-lock and preventing leakage.
- Vibra-Tite 121, 122, 131, & 140 are available in a handy counter-top fishbowl display stocked with 100 of the 2mL tubes. Attractive way to boost sales at the counter. Each 2mL resealable bullet tube will do 15 to 25 applications.



ITEM NO.	COMPARES TO LOCTITE PART#	MAX GAP FILL	TORQUE STRENGTH, BREAK/ PREVAIL(LB)	TEMP RANGE	FIXTURE TIME (MIN.)	SIZE	PRICE EACH					
							1	6	12	24	48	
Vibra-Tite 121 Medium, Removable Strength Threadlocker that seals nuts and bolts allowing disassembly using standard tools. Typical uses include locking nuts or bolts from 1/4" to 3/4" in diameter. Blue. COMPARES WITH LOCTITE® 242.												
915100	24221	0.007	120 / 45	-65°F to 300°F	10 - 30	10 mL Bottle	\$7.69	\$7.25	\$6.85	\$6.49	\$6.17	
915103	24231					50 mL Bottle	21.78	20.52	19.40	18.39	17.48	
915109	24241					250 mL Bottle	71.31	67.17	63.49	60.19		
							1	2	3	4		
915110						1L Jug	\$152.94	-	\$144.20	-		
915112						100 1.8 mL tubes	107.69	101.45	-	95.89		
Vibra-Tite 122 Medium Strength Threadlocker with greater oil tolerance. Typical uses include locking nuts or bolts ranging from 1/4" to 3/4" in diameter. Blue. COMPARES WITH LOCTITE® 243.												
		0.015	195 / 70	-65°F to 300°F	5 - 10		1	6	12	24	48	
915130	24077					10 mL Bottle	\$7.77	\$7.32	\$6.92	\$6.56	\$6.23	
915133	24078					50 mL Bottle	22.51	21.20	20.04	19.00	18.06	
915139	24079					250 mL Bottle	74.48	70.16	66.32	62.87		
							1	2	3	4		
915142	21433					1L Jug	\$156.06	-	\$147.14	-		
915145						100 1.8 mL tubes	107.69	101.45		95.89		
Vibra-Tite 125 Medium Strength Threadlocker, Gel. Removable grade for fasteners 1/4" to 3/4". Blue.												
		0.015	120 / 45	-65°F to 300°F	10 - 30		1	6	12	24	48	
915170						6 mL Tube	\$4.74	-	\$4.46	\$4.22	\$4.00	
915173						35 mL Pump	17.43	16.42	15.52	14.71	13.99	
915176						50 mL Tube	22.98	21.65	20.47	19.40	18.44	
915179						250 mL Tube	60.55	57.04	53.92	53.92	48.59	
Vibra-Tite 131 High Strength Permanent Threadlocker for maximum security suitable for most applications where disassembly is not required. Designed to withstand extreme environmental conditions and chemical exposure. Ideal for the prevention of rust and corrosion. Typical uses include permanently locking nuts or bolts up to 1" in diameter. Heat and hand tools are needed for disassembly. Red. COMPARES WITH LOCTITE® 262.												
915200	26221	0.007	200 / 250	-65°F to 300°F	5 - 20	10 mL Bottle	\$7.69	\$7.25	\$6.85	\$6.49	\$6.17	
915203	26231					50 mL Bottle	21.78	20.52	19.40	18.39	17.48	
915209	26241					250 mL Bottle	71.31	67.17	63.49	60.19		
							1	2	3	4		
915212	26243					1L Jug	\$152.94	-	\$144.20	-		
915215						100 1.8 mL tubes	107.69	101.45	-	95.89		
Vibra-Tite 132 High Strength Primerless Threadlocker, Oil Tolerant, Red												
		0.007	275 / 290	360°F	5		1	6	12	24	48	
915230	1330583					10 mL Bottle	\$8.57	\$8.07	\$7.63	\$7.23	\$6.88	
915233	1330585					50 mL Bottle	22.18	20.90	20.90	18.73	17.80	
915236	1330335					250 mL Bottle	83.65	78.80	74.48	70.61		
							1	3				
915239						1L Jug	\$166.77	\$157.24				



Vibra-TITE® Threadlockers - (continued)

ITEM NO.	COMPARES TO LOCTITE PART#	MAX GAP FILL	TORQUE STRENGTH, BREAK/PRE-VAIL(LB)	TEMP RANGE	FIXTURE TIME (MIN.)	SIZE	PRICE EACH				
							1	6	12	24	48
Vibra-Tite 135 High Strength Permanent Threadlocker, Gel Red											
915250		0.015	200 / 100	-65°F to 300°F	5 - 20	6 mL Tube	\$4.74	-	\$4.46	\$4.22	\$4.00
915253						35 mL Pump	17.43	16.42	15.52	14.71	13.99
915256						50 mL Bottle	22.98	21.65	20.47	19.40	18.44
							1	6	12	24	
915259						1 L Jug	\$60.55	\$57.04	\$53.92	\$51.12	
Vibra-Tite 140 High Strength Threadlocker for maximum security. Suitable for most applications where disassembly is not required. Typical uses include permanently locking nuts or bolts up to 1” in diameter. Heat and hand tools are needed for disassembly. Red. COMPARES WITH LOCTITE® 271.											
		0.007	250 / 275	-65°F to 300°F	10 - 30		1	6	12	24	48
915280 27121						10 mL Bottle	\$7.69	\$7.25	\$6.85	\$6.49	\$6.17
915283 27131						50 mL Bottle	21.78	20.52	19.40	18.39	17.48
915286 27141						250 mL Bottle	71.31	67.17	63.49	60.19	
							1	2	3	4	
915287		1 L Jug	\$152.94	-	\$144.20						
915289		100 1.8 mL tubes	107.69	101.45	95.89						
Vibra-Tite 146 Large Diameter High Strength Threadlocker for permanently locking up to 1-1/2” diameters. Red. COMPARES WITH LOCTITE® 277.											
		0.010	300 / 250	-65°F to 300°F	10 - 20		1	6	12	24	48
915310 21434						10 mL Bottle	\$7.69	\$7.25	\$6.85	\$6.49	\$6.17
915313 27731						50 mL Bottle	21.78	20.52	19.40	18.39	17.48
915316 27741						250 mL Bottle	71.31	67.17	63.49	60.19	
							1	3			
915319		1 L Jug	\$152.94	\$144.20							
Vibra-Tite 150 Wicking Grade, Medium Strength Threadlocker designed specifically for use on pre-assembled connections. Seals small gaps through capillary action. For pre-assembled fasteners up to 1/2” in diameter and porous die castings. Protects welds from rust and corrosion. Hand tools are needed for disassembly. Green. COMPARES WITH LOCTITE® 290.											
		0.004	85 / 250	-65°F to 300°F	5 - 20		1	6	12	24	48
915330 29021						10 mL Bottle	\$7.69	\$7.25	\$6.85	\$6.49	\$6.17
915333 29031						50 mL Bottle	21.78	20.52	19.40	18.39	17.48
915336 29041						250 mL Bottle	71.31	67.17	63.49	60.19	
							1	3			
915339 29043		1L Jug	\$152.94	\$144.20							
Vibra-Tite VC-3 Threadmate is a unique, locking and sealing coating for threaded fasteners that works on the principle of “friction through viscosity”. Stops fasteners from loosening from extreme shock and vibration. Works with metal, wood, PP and PPE plastics and more. Fasteners are easily adjusted, removed, and reused. Works with internal and external threads, on fasteners of any shape or size from tiny eyeglass screws to large construction bolts. Red.											
							1	6	12	24	48
915360						5 mL Tube	\$5.23	\$4.93	\$4.66	\$4.42	\$4.20
							1	6	10	20	30
915363						30 mL Tube	26.46	-	24.93	23.56	22.34
915366						250 mL Tube	107.83	101.58			
							1	2	4		
915369		1 Quart	\$303.76	\$286.89							
915372		1 Gallon	808.43	769.93							
915359		100 1.8 mL tubes	84.62	79.71	75.34						

Vibra-TITE® Retaining Compounds

- Designed to increase shear strength in non-threaded, cylindrical metal assemblies.
- The liquid anaerobic material fills voids between close-fitting metal assemblies.
- It cures to a toughened thermoset-plastic which creates a solid one piece assembly.
- Retaining compounds seal joints against leakage and prevent corrosion.
- These materials have gained wide acceptance as a standard method for assembling press-fit and slip-fitted parts.
- Vibra-Tite 541 is available in a handy counter-top fishbowl display stocked with 100 of the 2mL tubes. Attractive way to boost sales at the counter. Each 2mL resealable bullet tube will do 15 to 25 applications.



ITEM NO.	COMPARES TO LOCTITE PART#	MAX GAP FILL	SHEAR STRENGTH (PSI)	TEMP RANGE	FIXTURE TIME (MIN.)	SIZE	PRICE EACH				
							1	6	12	24	48
Vibra-Tite 530 General Purpose Retaining Compound bonds metal assemblies. A low viscosity retaining compound recommended for diametral gap distances up to 0.005" to augment press fits. Withstands temperatures of up to 300°F providing a shear strength of 3000 PSI after 24 hours with fixture time of 10 minutes. Typical uses: Rotors, shafts, bushings, bearings, and pulleys. COMPARES WITH LOCTITE® 609/675.											
915530	60921	0.005	2300+	-65°F to 300°F	10 - 20	10 mL Bottle	\$7.68	\$7.23	\$6.84	\$6.48	\$6.16
915533	60931					50 mL Bottle	22.03	20.75	19.62	18.60	17.68
915536	60941 / 67541					250 mL Bottle	73.86	69.58	65.77	62.35	
							1	3			
915537						1L Jug	\$151.67	\$143.00			
Vibra-Tite 541 High Strength Retaining Compound cures in room temperatures filling diametral gaps up to 0.015". Typical uses include fitted cylindrical parts replacing set screws, clamp rings, and snap rings. It provides a shear strength greater than 3000 PSI after 24 hours with a fixture time of 10 minutes. COMPARES WITH LOCTITE® 680.											
		0.015	3000+	-65°F to 300°F	20 - 40		1	6	12	24	48
915560	68015					10 mL Bottle	\$7.68	\$7.23	\$6.84	\$6.48	\$6.16
915563	68035					50 mL Bottle	6.16	20.75	19.62	18.60	17.68
915566	68060					250 mL Bottle	73.86	73.86	65.77	62.35	
							1	2	3	4	
915567						1L Jug	\$151.67	-	\$143.00	-	
915569						100 1.8 mL tubes	107.69	101.45	-	95.89	
Vibra-Tite 542 High Strength Retaining Compound is a high viscosity retaining compound that allows parts to be adjusted during assembly. It provides a shear strength greater than 4000 PSI. Typical uses include slip fit components, rotors, shafts, impellers, and splines. COMPARES WITH LOCTITE® 635.											
		0.015	4000+	-65°F to 300°F	20 - 40		1	6	12	24	48
915590						10 mL Bottle	\$7.68	\$7.23	\$6.84	\$6.48	\$6.16
915593	63531					50 mL Bottle	22.03	20.75	19.62	18.60	17.68
915596	63541					250 mL Bottle	73.86	69.58	65.77	62.35	
							1	3			
915597						1L Jug	\$151.67	\$143.00			
Vibra-Tite 548 Press Fit / Rapid Cure works with continuous operating temperatures up to 350°F. Provides a shear strength greater than 3500 PSI. COMPARES WITH LOCTITE® 648.											
		0.007	3500+	-65°F to 300°F	5		1	6	12	24	48
915620	21444					50 mL Bottle	\$22.03	\$20.75	\$19.62	\$18.60	\$17.68
915623	21445					250 mL Bottle	73.86	69.58	65.77	62.35	
							1	3			
915626						1L Jug	\$151.67	\$143.00			
Vibra-Tite 560 High Temp Fast Set Retaining Compound is a high temp, high strength adhesive for retention of cylindrical components, where disassembly is not required on press-fit assemblies. Typical uses include rotors, shafts, bushings, bearings, and pulleys with temps up to 400°F. It provides a shear strength greater than 3000 PSI. COMPARES WITH LOCTITE® 640.											
		0.007	3000+	-65°F to 400°F	5 – 60		1	6	12	24	48
915650						10 mL Bottle	\$7.68	\$7.23	\$6.84	\$6.48	\$6.16
915653	64031					50 mL Bottle	22.03	20.75	19.62	18.60	17.68
915656	64041					250 mL Bottle	73.86	69.58	65.77	62.35	
							1	3			
915657						1L Jug	\$151.67	\$143.00			



Vibra-TITE® Anti-Seize Compounds

- Specially formulated to prevent seizing, galling, pitting, excessive wear, and corrosion.
- Will not wash, squeeze, or burn out, even at elevated temperatures and pressure.
- Reduces friction and wear, eases assembly and disassembly.
- Typical applications include gears, chains, cables, sprockets, and fastener threads.
- Convenient brush-cap applicator.



ITEM NO.	COMPARES TO LOCTITE PART#	VISCOSITY (cP)	SEALING PRESSURE (PSI)	TEMP RESISTANCE	K-VALUE	SIZE	PRICE EACH				
							1	6	12	24	
Vibra-Tite 9070 Aluminum Anti-Seize Compound This lubricant is ideal for all metals to prevent seizing, galling and excessive wear. Resists harsh chemical environments. Consists of fine flakes of aluminum and graphite suspended in a blend of lubricants and oils. Silver color. COMPARES WITH LOCTITE® Silver.											
915798		120,000 to 175,000 Paste		1800°F	0.15	35 mL Pump with Brush	\$7.92	\$7.46	\$7.05	\$6.69	
915800 76732						8 oz. Jar with Brush	15.08	14.20	13.42	12.73	
915803 76764						16 oz. Jar with Brush	23.66	22.29	21.07	19.97	
							1	2	4		
915806						1 Gallon Bottle	\$166.15	\$156.66			
915809						5 Gallon Pail	579.25	549.92			
915812						100 1.8 mL tubes	143.08	134.78	127.40		
Vibra-Tite 9071 Copper Anti-Seize Compound Ideal for use on softer metal parts such as copper and brass. Protects from rust and corrosion as well as prevents seizing, galling and excessive wear. Excellent resistance to harsh chemical environments. Consists of fine flakes of copper and graphite suspended in a blend of lubricants and oils. Copper color. COMPARES WITH LOCTITE® C5-A.											
		120,000 to 175,000 Paste		1800°F	0.15		1	6	12	24	
915820 51144						4 oz. Jar with Brush	\$8.46	\$7.97	\$7.53	\$7.14	
915823 51147						8 oz. Jar with Brush	13.03	12.28	11.60	11.00	
915826 51007						16 oz. Jar with Brush	17.97	16.93	16.00	15.17	
							1	2			
915829						1 Gallon Bottle	\$155.50	\$146.61			
915832						5 Gallon Pail	425.39	403.85			
Vibra-Tite 9072 Nickel Anti-Seize Compound A lubricant ideal for extreme temperatures. Copper and graphite free base. Resistant to harsh chemical environments. Excellent for stainless steel and other metal fittings. COMPARES WITH LOCTITE® Nickel.											
				2600°F			1	6	12	24	48
915848						8 mL Tube	\$4.25	-	\$4.00	\$3.78	\$3.58
915850 77124						8 oz. Jar with Brush	18.22	17.16	16.22	15.38	
915853 77164						16 oz. Jar with Brush	28.77	27.10	25.62	24.29	
							1	2	3	4	
915856						1 Gallon Bottle	\$201.21	\$189.71			
915859						5 Gallon Pail	692.50	659.52			
915862		100 1.8 mL tubes	143.08	134.78	127.40						



Vibra-TITE® Anaerobic Gasketing

- Remains liquid when exposed to air; cures when confined between mating flanges.
- Can fill gaps as large as 0.050.
- Alleviates the need for preformed gaskets.
- Typical applications include form-in-place gaskets for thermostats, pumps, gearboxes, compressors, transmission housings, and axle covers.



ITEM NO.	COMPARES TO LOCTITE PART#	MAX GAP FILL	VISCOSITY (cP)	TEMP RANGE	CURE SPEED (HRS)	SIZE	PRICE EACH				
							1	6	12	24/30	48
Vibra-Tite 709 Flexible Gasket Maker Flexible flange sealant resists vibration. Fluorescent blue color aids visual assembly inspections. Blue. COMPARES WITH LOCTITE® 509.											
915700		Unprimed: 0.010	65,000 – 200,000	-65°F to 300°F	Unprimed: 6 - 48	50 mL Tube	\$20.74	\$19.54	\$18.47	\$17.51	\$16.64
915703	21525	Primed:.020	Thixotropic		1 - 6	300 mL Cartridge	76.92	72.46	68.49	64.94	
Vibra-Tite 710 High Temperature Rigid Flange Sealant withstands temperatures up to 400°F. Pink. COMPARES WITH LOCTITE® 510.											
915710	51031	Unprimed: 0.010	188,000	-65°F to 400°F	Unprimed: 4 - 24	50 mL Tube	\$20.74	\$19.54	\$18.47	\$17.51	\$16.64
915713	51041	Primed: 0.020	– 500,000		0.5 - 4	250 mL Tube	50.89	47.94	45.32	42.96	
915716	51074		Thixotropic			300 mL Cartridge	67.86	63.93	60.42	57.29	
Vibra-Tite 730 Flexible Gasket Maker – Solvent Resistant is suitable for aluminum and rigid machined flanges. Red. COMPARES WITH LOCTITE® 518.											
915750	51831	Unprimed: 0.010	80,000 – 3,750,000	-65°F to 300°F	Unprimed: 1 - 12	50 mL Tube	\$20.74	\$19.54	\$18.47	\$17.51	\$16.64
915753		Primed: 0.020	Thixotropic		0.25 - 2	250 mL Tube	50.89	47.94	45.32	42.96	
915756	51845					300 mL Cartridge	67.86	63.93	60.42	57.29	
Vibra-Tite 732 Flexible Gasket Maker General purpose gasket maker that flexes with flanges. Purple. COMPARES WITH LOCTITE® 515.											
915770	51531	Unprimed: 0.010	275,000	-65°F to 300°F	Unprimed: 4 - 24	50 mL Tube	\$20.74	\$19.54	\$18.47	\$17.51	\$16.64
915773		Primed: 0.020	– 950,000		0.5 - 4	250 mL Tube	50.89	47.94	45.32	42.96	
915776	51580		Thixotropic			300 mL Cartridge	67.86	63.93	60.42	57.29	

Vibra-TITE®

KITS OFFER A SELECTION OF POPULAR PRODUCTS FOR TOOLBOX OR SHOP.

Vibra-TITE® FAST LOCK 4™ 4-Piece Threadlocking Kit Includes:

- 12110 Medium Strength Removable
- 13110 Permanent Strength Threadlocker
- 12535 Medium Strength Gel Threadlocker
- 47002 Anti Cam-Out Fluid



ITEM NO.	DESCRIPTION	1 kit	4	8	12
915910	4-pc Fast Lock Pack	\$31.51	\$29.68	\$28.05	\$26.60

Vibra-TITE® WORK PACK 6-Piece Products Kit Includes:

- 21305 VC-3 Threadmate nontraditional threadlocker
- 13508 Permanent strength (red) threadlocker gel
- 12508 Medium strength (blue) threadlocker gel
- 30114 Multi-purpose Instant SuperGlue
- 47002 DriveGrip Anti Cam-Out fluid
- 90729 Nickel-graphite anti-seize compound



ITEM NO.	DESCRIPTION	1 kit	4	8	12
915920	6-pc Work Pack	\$33.28	\$31.35	\$29.63	\$28.09

Vibra-TITE® BENCH PACK 5-Piece Locking & Retaining Kit Includes:

- 54110 High Strength Retaining Compound
- 15010 Wicking Grade, Medium Strength Thread-locker
- 12110 Medium Strength Removable Threadlocker
- 14010 High Strength Threadlocker
- 47002 Anti Cam-Out Fluid



ITEM NO.	DESCRIPTION	1 kit	4	8	12
915900	5-pc Bench Pack	\$41.92	\$39.49	\$37.33	\$35.39

BearKat® Safety Glasses

- Treated with MCR's exclusive Duramass® scratch-resistant coating.
- Features single wraparound lens design with flexible temple design and non-slip rubber head grips.
- Uses polycarbonate lens that blocks 99.9% of UV rays.
- BearKat glasses meet military specs for high velocity impact protection.



ITEM NO.	FRAME	LENS / COAT	1	12	24	48	96
135521	Frost black	Clear, uncoated	-	\$1.62	\$1.53	\$1.45	\$1.37
135522	Frost black	Clear	1.75	-	1.65	1.56	1.48
135523	Frost black	Clear, anti-fog	2.42	-	2.28	2.15	2.04
135525	Frost black	Gray	1.75	-	1.65	1.56	1.48
135526	Frost black	Gray, anti-fog	2.42	-	2.28	2.15	2.04
135528	Frost black	Amber	2.22	-	2.09	1.98	1.88
135529	Frost black	Orange	-	1.91	1.80	1.70	1.62
135530	Frost black	Silver, mirror	2.70	-	2.55	2.41	2.28
135532	Frost black	Indoor/outdoor clear, mirr.	2.26	-	2.13	2.02	1.91

Checklite® Safety Glasses

- Flexible spatula temple design for comfortable fit during long use.
- Nearly total eye-orbital seal assures the highest level of protection, and lightweight, polycarbonate lens filters over 99.9% of UV radiation.
- Available uncoated or with Duramass scratch resistant or Duramass A4 anti-fog lens coatings.



ITEM NO.	FRAME	LENS / COAT	1	12	24	48	96
135501	Clear	Clear, uncoated	\$1.16	-	\$1.09	\$1.03	\$0.98
135502	Clear	Clear	1.24	-	1.17	1.11	1.05
135503	Clear	Clear, anti-fog	1.91	-	1.80	1.70	1.61
135505	Smoke	Gray	1.24	-	1.17	1.11	1.05
135506	Smoke	Gray, anti-fog	1.93	-	1.82	1.72	1.63

Virtua™ Safety Glasses

- Features lightweight frame design and a high-wrap lens for front and side impact protection.
- Polycarbonate lens absorbs 99.9% UV. Meets ANSI Z87.1+ High Impact standard.



ITEM NO.	FRAME	LENS	1	25	50	100
011228	Frost	Clear, uncoated	\$1.10	\$1.04	\$0.98	\$0.93

V30 Nemesis Safety Glasses

- Flexible and lightweight design for comfort and compliance.
- Enhanced nose-piece design with integrated ridges to divert sweat.
- Hard-coated lenses for scratch resistance and longer life.
- Every pair includes a neck cord for reduced risk of damage when not being worn.
- Poly-carbonate lenses with 99.9% UV protection.



ITEM NO.	FRAME	LENS	1	12	24	48	96
608600	Camouflage	Smoke, anti-fog	\$8.24	\$7.78	\$7.38	\$7.01	\$6.67
608603	Camouflage	Clear, anti-fog	8.54	8.06	7.64	7.26	6.91
608606	Camouflage	Bronze	9.75	9.20	8.72	8.28	7.89
608609	Black	Smoke mirror	6.68	6.31	5.98	5.68	5.41
608612	Black	Smoke, anti-fog	8.33	7.86	7.45	7.08	6.74
608615	Black	Amber, anti-fog	7.20	6.80	6.44	6.12	5.83
608618	Black	Amber	6.73	6.35	6.02	5.72	5.45
608621	Black	Clear, anti-fog	7.14	6.74	6.39	6.39	5.78
608624	Black	Clear	6.11	5.78	5.47	5.20	4.95
608627	Black	Indoor/Outdoor	6.37	6.02	5.70	5.42	5.16

V30 Nemesis Welding Glasses

- Flexible, lightweight design.
- Soft-touch temples for added comfort.
- Single-lens wraparound protection.
- Includes neck cord.
- Shades 3 or 5 IRUV protection for torching, cutting, grinding etc.



ITEM NO.	FRAME	LENS	1	6	12	24	48
608630	Black	IRUV Shade 3	\$10.41	\$9.83	\$9.32	\$8.85	\$8.43
608633	Black	IRUV Shade 5	12.31	11.62	11.01	10.46	9.96

Lens Cleaning Towelettes
* See page 122



KLEENGUARD™

* Our most comfortable safety glasses!

Laser Lite® Earplugs

- Low-pressure polyurethane foam expands gently inside the ear canal for comfortable long-term wear.
- Contoured T-shape delivers easy handling.
- Available corded or uncorded.
- NRR 32



ITEM NO.	DESCRIPTION	1 box	5	10	20	50	100
608200	200 pairs, uncorded	\$28.24	\$26.67	\$25.26	\$24.00	\$22.86	21.82
608207	100 pairs, corded	28.82	27.22	25.79	24.50	23.33	-

Max Lite® Earplugs

- Low-pressure polyurethane foam expands gently inside the ear canal for comfortable long-term wear.
- Contoured T-shape delivers easy handling.
- Ideal for workers with smaller ear canals.
- NRR 30

ITEM NO.	DESCRIPTION	1 box	5	10	20	50	100
608228	200 pairs, uncorded	\$22.57	\$29.44	\$27.89	\$26.50	\$25.24	\$23.56
608235	100 pairs, corded	20.34	19.21	18.20	17.29	16.46	-

ROCKETS® Reusable Earplugs

- Easy grip handle for insertion and removal.
- Air bubble tip provides cushion comfort and soft, flexible flanges provide a superior seal.
- Can be washed and reused.
- PocketPak carrying case provides hygienic storage between uses.
- Offered in either purple/green color combination, or camouflage for the outdoor enthusiast.
- Sold per pair, 50 pairs/box.
- NRR 27

ITEM NO.	DESCRIPTION	1 pair	50	150	300
608300	Uncorded, 50 Pairs/Box	\$1.70	\$1.61	\$1.52	\$1.45
608305	Corded, 50 Pairs/Box	2.30	2.18	2.06	1.96
608310	CAMO Uncorded, 50 Pr/Box	1.76	1.76	1.66	1.58
608315	CAMO Corded, 50 Pairs/Box	2.44	2.44	2.30	2.18



HL400 Earplug Dispenser

- This dispenser offers easy access to single use, uncorded earplugs on any jobsite.
- As a tabletop or wall-mount dispenser, it provides a user-friendly source - simply twist the spout to release earplugs.
- Can be stocked with Laser Lite, Max Lite, or other earplugs.

ITEM NO.	DESCRIPTION	1	2	4	6
608100	Dispenser w/400 pr Laser Lite	\$95.29	\$90.00	\$85.26	\$81.00
608214	Dispenser w/400 pr Max Lite	97.65	92.22	87.37	83.00
		1	3	6	9
608242	Dispenser only	26.45	24.98	23.67	22.49



Refill Canister

- 608107 pictured.

ITEM NO.	DESCRIPTION	1	2	4	8
608107	Laser Lite 400 pairs refill	\$78.31	\$73.96	\$70.07	\$66.56
608221	Max Lite 400 pairs refill	73.07	69.01	65.38	62.11



SparkPlugs® Earplugs

- Extra soft foam and tapered design fit snugly and comfortably in the ear.
- Bright, fun assorted colors provide easy compliance checks.
- NRR 33

ITEM NO.	DESCRIPTION	1 box	5	10	20
608330	200 pairs, uncorded	\$38.82	\$36.67	\$34.74	\$33.00
608335	100 pairs, corded	39.41	37.22	35.26	33.50



SparkPlugs® Earplugs Dispensers

- PlugStation dispenser comes stocked with 250 pairs or 500 pairs of SparkPlugs uncorded earplugs.
- Sealed to keep earplugs sanitary.
- Includes mounting bracket, template, and hardware.
- NRR 33

ITEM NO.	DESCRIPTION	1	3	6	9
608350	Dispenser with 250 pairs	\$52.21	\$49.31	\$46.71	\$44.38
608355	Dispenser with 500 pairs	100.74	95.14	90.13	85.63



#608355

#608350

3M™Peltor™ Optime™ 95 Earmuffs

- Neckband system is great for use with welding hoods.
- Recommended for noise levels up to 95 dBA.
- Slim design with 2-point suspension exerts lower pressure for comfortable, long-term use.
- Soft, liquid foam-filled ear cushions provide added comfort and protection.
- NRR 21.



ITEM NO.	DESCRIPTION	1	6	12	24
608030	Optime 95 earmuffs	\$20.06	\$18.94	\$17.95	\$17.05

3M™Peltor™ Optime™ 98 Earmuffs

- Lightweight earmuff recommended for noise levels up to 98 dBA.
- Stainless steel headband wires with 4-point suspension help distribute cushion pressure evenly.
- Liquid foam-filled cushions.
- NRR 25.



ITEM NO.	DESCRIPTION	1	6	12	24
608023	Optime 98 earmuffs	\$22.79	\$21.53	\$20.39	\$19.38

3M™Peltor™ Optime™ 105 Earmuffs

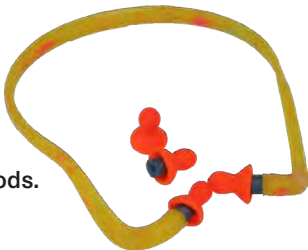
- Recommended for noise levels up to 105 dBA.
- Features “double-shell” earcup design (two cups connected via foam inner layer to reduce structural resonances).
- Designed with wide, softly padded headband and stainless steel headband wires.
- Liquid foam-filled cushions provide good seal and low surface pressure.
- Weight: 9.3 oz.
- NRR 30.



ITEM NO.	DESCRIPTION	1	6	12	24
608016	Optime 105 earmuffs	\$36.93	\$34.88	\$33.04	\$33.04

QB1HYG® Banded Earplugs

- Patented band design prevents ear pods from touching dirty or contaminated surfaces when set down.
- Lightweight and portable inner-aural protection for jobs with intermittent noise.
- Packed in a resealable bag with (1) pair replacement pods.
- NRR 27.
- Neon yellow band with orange ear pods.
- Price per pair, 10 pairs per box.



ITEM NO.	DESCRIPTION	10	30	60
608249	Banded earplugs, 10/Case	\$6.19	\$6.13	\$5.81

QM24+® Earmuffs

- Ultra-lightweight – only 6 oz.
- Three-position earmuffs feature an adjustable crown strap that securely fits over-the-head, behind-the-head, or under-the-chin.
- Soft foam cushions are replaceable.
- NRR 25.



ITEM NO.	DESCRIPTION	1	6	12	24
608002	QM24+ earmuffs	\$10.99	\$10.38	\$9.84	\$9.34

VERISHIELD™ VS 130 Earmuffs

- Replaces former LEIGHTNING L3.
- Cushioned headband features lightweight steel-wire construction with resilient textile padding.
- Headband adjustability to comfortably fit a wide range of head sizes.
- Memory foam ear cushions to reduce pressure and enhance comfort.
- Patented Air Flow Control™ technology for optimal attenuation across all frequencies without compromising comfort.
- NRR 30.



ITEM NO.	DESCRIPTION	1	6	12	24
608009	VERISHIELD earmuffs	\$34.43	\$32.52	\$30.81	\$29.27

Spec Saver® Lens Cleaning Towelettes

- Ideal for glasses, goggles, and face shields.
- 100 individually packaged, premoistened lens-cleaning towelettes in a box.
- Designed to safely and effectively clean plastic, polycarbonate, and glass.
- Anti-fog, anti-static formula. Contains no silicone.



ITEM NO.	DESCRIPTION	1	5	10	20
135400	Box of 100 towelettes	\$6.65	\$6.28	\$5.95	\$5.65

3M™ Particulate Respirator 8210V, N95

- Proprietary 3M™ Cool Flow™ valve is designed for easy exhalation and reduces heat build-up inside respirator to help keep the wearer more comfortable.
- Features adjustable nose-clip and 2 strap design with dual point attachment.
- Ideally suited for many work settings that involve heat, humidity, or longer periods of wear.
- NIOSH Approval TC-84A-5410.
- Sold per box.



ITEM NO.	DESCRIPTION	1 box	5	10	20
609009	Respirators, box of 10	\$16.63	\$15.71	\$14.88	\$14.14

Joe's® All Purpose Hand Cleaner

- Liquifies and gently lifts grease, grime and stains from the hands safely without water.
- Leaves the hands cleaned, conditioned and without the greasy feeling and strong odors of competitive brands.
- The lanolin and skin care emollients help heal rough, dry and overused hands.
- Use with or without water.



ITEM NO.	DESCRIPTION	1	12	24	48
606163	14 oz Squeeze Tube	\$6.53	\$6.17	\$5.84	\$5.55
		1	6	12	18
606160	4.31 lb. Plastic Container	21.72	20.51	19.43	18.46
		1	4	8	16
606166	1 Gallon Pail	30.21	28.53	27.03	25.68

SCOTT Shop Towels

- The original, multi-purpose, oil and grease-absorbing towels that work even when wet.
- 55 towels per roll, 11” x 10.4”.
- 30 rolls per case.



ITEM NO.	DESCRIPTION	ANY QUANTITY
606320	Shop towels – 55 Towels/Roll	\$3.25

RAGS-IN-A-BOX

- Box of 200 all-purpose disposable towels that are strong, absorbent, and more cloth-like to the touch.
- Specially woven fibers form a soft, absorbent towel that performs like a cloth and performs well when wet.
- Easy pop-up dispenser box ensures that a fresh towel is always right at your fingertips, ready to go.



ITEM NO.	DESCRIPTION	ANY QUANTITY
606330	Box of 200 rags	\$15.63

NATURAL ORANGE Hand Cleaner

- Pumice cleaner is excellent for grease, tar, and oil.
- Pumice scrubbing particles get hands clean fast.
- Lotion formula provides powerful yet gentle cleaning performance.
- Smooth cleaner is effective against a broad range of industrial soils, organic matter, and grease.
- Quick-acting lotion formulation for smooth hand cleaning.
- Pleasant, citrus-orange scent.



ITEM NO.	DESCRIPTION	1	12	24	48
606060	14 oz Squeeze, Pumice	\$6.40	\$6.04	\$5.72	\$5.44
606010	14 oz Squeeze, Smooth	6.58	6.22	5.89	5.60
		1	4	8	16
606050	1 Gallon w/pump, Pumice	24.96	23.58	22.33	21.22
606000	1 Gallon w/pump, Smooth	24.96	23.58	22.34	21.22

AJAX® Super Degreaser

- Ultra AJAX® Super Degreaser with 100% real citrus extract.
- Strips Grease. Guaranteed.
- More than a just a Dish Liquid – it works very well for greasy hands, parts, etc.
- Lemon scented.
- Size: 28 FL OZ
- 9 bottles/caset



ITEM NO.	DESCRIPTION	ANY QUANTITY
606288	14 fl oz bottle	\$1.51
606290	28 fl oz bottle	3.22
606292	52 fl oz bottle	4.23
606294	90 oz jug	6.67

Softsoap® Antibacterial Hand Soap

- Antibacterial hand soap with moisturizers.
- Gently cleans and protects.
- Clinically proven to eliminate 99.9% of bacteria*.
- Fresh Citrus scent.
- Size: 11.25 FL OZ
- 6 bottles/case



ITEM NO.	DESCRIPTION	ANY QUANTITY
606250	11.25 fl oz bottle	\$2.92

Purell® Instant Hand Sanitizer

- Kills 99.9% of most common germs that may cause illness.
- Works in as little as 15 seconds.
- Specially formulated with moisturizers to leave hands feeling soft and refreshed.
- Alcohol based.
- Citrus scent.



ITEM NO.	DESCRIPTION	1	12	24	72
606214	4 fl oz bottle	\$3.68	\$3.47	\$3.29	\$3.13
606207	12 fl oz bottle with pump	5.88	5.56	5.26	5.00

FORCEFLEXPlus® Tall Kitchen Drawstring Trash Bags – 13 GAL

- Durable, unique ForceFlex® diamond texture stretches to prevent rips, tears and leaks.
- Drawstring grips the can so the bag stays in place.
- Made with less plastic than other flex-type plastic bags.
- 0.9 mil thickness.



ITEM NO.	DESCRIPTION	ANY QUANTITY
606409	Drawstring bags, box of 40	\$10.56
606412	Drawstring bags, case of 80	\$19.98

ANCHOR Whisk Broom

- 100% broom corn whisk broom makes cleaning up easier.
- Stitched headband keeps bristles contained and adds strength.
- Metallic hand-grip adds convenience and durability.
- Hang-ring for handier storage.



ITEM NO.	BRISTLE LENGTH	1	12	24	48
223050	10”	\$4.25	\$4.01	\$3.80	\$3.61
223060	12”	7.04	6.65	6.30	5.98



Multi-Activity Glove 2900

- Durable gold genuine pig grain.
- Reinforced palm for extra durability.
- Gold/black.
- Price per pair, sold in multiples of 6 pairs.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
692036	Size: S	\$13.84	\$13.07	\$12.38	\$11.76	\$11.20
692039	Size: M	13.84	13.07	12.38	11.76	11.20
692042	Size: L	13.84	13.07	12.38	11.76	11.20
692045	Size: XL	13.84	13.07	12.38	11.76	11.20

All-Leather Work Glove 1302

- Durable top grain palm with split leather back.
- Reinforced palm and index area for added durability.
- Seamless index finger.
- Unique pull-strap and elastic back combo with snap button cuff.
- Kontour™ pattern conforms to the natural shape of the hand to provide exceptional comfort and dexterity.
- Price per pair, sold in multiples of 6 pairs.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
692002	Size: S	\$ 17.15	\$16.19	\$15.34	\$14.58	\$13.88
692005	Size: M	17.15	16.19	15.34	14.58	13.88
692008	Size: L	17.15	16.19	15.34	14.58	13.88
692011	Size: XL	17.15	16.19	15.34	14.58	13.88
692014	Size: XXL	17.15	16.19	15.34	14.58	13.88

Welding Glove 1864

- This medium-weight American Whitetail Deer split glove is ideal for TIG and MIG welding, and even plasma cutting.
- Unlined, very supple leather offers an excellent combination of dexterity and comfort.
- The dyed graphite gray color deerskin has been pre-washed to eliminate lint from the suede.
- External leather lean-drag patch offers extra protection from hot surfaces.
- Price per pair, sold in multiples of 6 pairs.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693215	Size: S	\$ 21.88	\$20.67	\$19.58	\$18.60	\$17.71
693218	Size: M	21.88	20.67	19.58	18.60	17.71
693221	Size: L	21.88	20.67	19.58	18.60	17.71
693224	Size: XL	21.88	20.67	19.58	18.60	17.71

Welding Glove 1600

- A simple design that comes at an affordable price.
- This unlined goat grain glove, with our Kontour™ pattern, makes for a very comfortable option for TIG welding.
- Price per pair, sold in multiples of 6 pairs.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693230	Size: S	\$12.76	\$12.06	\$11.42	\$10.85	\$10.33
693233	Size: M	12.76	12.06	11.42	10.85	10.33
693236	Size: L	12.76	12.76	11.42	10.85	10.33
693239	Size: XL	12.76	12.06	11.42	10.85	10.33

Welding Glove 1506

- Ultimate combination of features and benefits, highest value of the line.
- Competitively priced while offering thumb and palm reinforcements, and leather welting on all critical seams.
- Most comfortable, but effective, insulation.
- Price per pair, sold in multiples of 6 pairs.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693260	ONE SIZE	\$19.21	\$18.14	\$17.18	\$16.33	\$15.55

Multi-Purpose Welding Glove 1871

- Extremely comfortable and functional gloves made with OVIS-HIDE™ sheep grain leather for a supple feel and rugged characteristics.
- Boarhide reinforced palm patch with internal padding for extended wear.
- Form fitting Kontour™ design is an exclusive and original feature from Caiman for the best possible ergonomic fit like no other glove on the market.
- Sewn with KEVLAR® space-age fiber that is five times stronger than steel.
- OAL: 10", cuff length: 2".



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693200	Size: S	\$21.28	\$20.10	\$19.04	\$18.09	\$17.23
693203	Size: M	21.28	20.10	19.04	18.09	17.23
693206	Size: L	21.28	20.10	19.04	18.09	17.23
693209	Size: XL	21.28	20.10	19.04	18.09	17.23

Welding Glove 1540

- The ultimate TIG glove featuring premium goat grain leather on palm, and seamless index finger for durability and dexterity.
- Outside portion of index and upper palm area are internally padded for comfort during extended TIG operations.
- External cow split leather lean-drag patch provides extra insulation and durability.
- Patent pending Kontour Wrist™ design provides added comfort and safety.
- Price per pair, sold in multiples of 6 pairs.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693245	Size: S	\$ 18.69	\$17.65	\$16.72	\$15.89	\$15.13
693248	Size: M	18.69	17.65	16.72	15.89	15.13
693251	Size: L	18.69	17.65	16.72	15.89	15.13
693254	Size: XL	18.69	17.65	16.72	15.89	15.13

Welding Glove 1504

- A new and perfect answer to the ugly, old and uncomfortable gray welding gloves that have tormented welders for too many years.
- Affordability, comfort and an ergonomically-correct straight-thumb with reinforcement strap sets this glove apart from the rest.
- Sewn with Kevlar® thread lock-stitching and leather welting on critical seams.
- Price per pair, sold in multiples of 6 pair, OR purchase a 3-pair value pack.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693269	ONE SIZE	\$11.94	\$11.28	\$10.68	\$10.15	\$9.67
		1 pack	4	8	16	
693275	3-Pair Value Pack	7.35	6.94	6.58	6.25	

COMFOflex® Premium Welding Glove

- “The world’s most comfortable welding gloves.”
- Scientifically designed, patented COMFOflex air-cushioned lining is sweat absorbent and flame retardant.
- Grade A side split cowhide with continuously welted seams to increase durability and minimize stitch burnout.
- Patented palm and thumb reinforcement sewn with 5-ply Kevlar®.
- 14” length.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693420	Size: S	\$14.60	\$13.75	\$13.00	\$12.32	\$11.72
693423	Size: L	14.60	13.75	13.00	12.32	11.72
693429	Size: XXL	16.12	15.19	14.36	13.61	12.94
693426	Size: L Left-hand	14.77	14.77	13.15	12.47	-

COMFOflex® 2087 Premium Welding Glove

- Grade A shoulder split cowhide, 14” length.
- Kevlar® sewn.
- Patented palm patch.
- Features the COMFOflex air cushion and sweat-absorbent fleecy cotton flame retardant lining.
- Size Large only.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693433	Size: L	\$14.20	\$13.38	\$12.64	\$11.99	\$11.40

COMFOflex® 2076 Oil-Resistant Welding Glove

- Oil-resistant top grain pigskin.
- Kevlar® sewn.
- Features the COMFOflex air cushion and sweat-absorbent fleecy cotton flame retardant lining.
- 13.5” Length.
- Size Large only.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693440	Size: L	\$20.55	\$19.36	\$18.30	\$17.35	\$16.49

0160 Cotton-Lined Welding Glove

- Select shoulder split
- Full cotton lining
- 13.5” length
- Kevlar® sewn



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693400	Size: S	\$10.66	\$10.04	\$9.49	\$9.00	
693403	Size: L	10.66	10.04	9.49	9.00	8.56
693406	Size: XXL	11.85	11.16	10.55	10.00	9.51

DEERSOsoft® 2374 MIG/TIG Glove

- Grain deerskin
- Premium 3” side split cowhide cuff for abrasion resistance and forearm protection
- Split cowhide back for added durability
- Kevlar® stitching to minimize seam burnout
- Fully unlined for the best control and sensitivity



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693490	Size: M	\$22.14	\$20.86	\$19.71	\$18.69	\$17.77
693493	Size: L	22.14	20.86	19.71	18.69	17.77
693496	Size: XL	22.14	20.86	19.71	18.69	17.77

DEERSOsoft® 2327 MIG/TIG Glove

- Split deerskin, unlined
- Premium 4” side split cowhide cuff for abrasion resistance and forearm protection
- Designed to form to the shape of your hand
- Kevlar® stitching to minimize seam burnout
- Extremely comfortable and offer great dexterity.



ITEM NO.	DESCRIPTION	1 pair	6 pair	12 pair	24 pair	48 pair
693480	Size: M	\$14.54	\$13.70	\$12.95	\$12.27	\$11.67
693483	Size: L	14.54	13.70	12.95	12.27	11.67



For over 25 years, ArcOne® has fueled the growth in Auto-Darkening technology.

GOOD

Carrera™

- #024000 ArcOne’s most popular model
- #024002 Larger 7.1 sq. in. size

Vision911®

- #024025 Slim and ultra-light
- #024030 Larger 7.1 sq. in. size

Vision® Passive

- #024090 Passive with 5” x 4” shade

BETTER

Vision®

- #024015
- 7.25 sq. in
- Shades 5 to 14
- HD lens technology.

BEST

Vision®

- #024020
- 12.6 sq. in
- Shades 5 to 14
- HD lens technology
- X-TIG mode
- #024023
- 17 sq. in – largest viewing area in the industry!
- Shades 5 to 14
- HD lens technology
- X-TIG mode

VISION® Helmet Series

- The Vision hood is light, slim and will fit into tight areas, all while offering optimal face, ear and neck coverage.
- The ArcOne® Vision® helmet series offers premium quality features for heavy-duty, all-day welding:
- HD Technology – see below
- Best-in-class optical clarity & sensitivity
- X-TIG technology: ideal for low amp TIG welding or in an environment with obstructed views. While in the X-TIG mode, sensors are triggered by the electromagnetic field that is created when you start to weld rather than by the light of an arc.
- Large viewing areas
- Dust and water resistant to withstand the toughest conditions
- Wide dark state shade range
- ComfaGear® headgear
- Patented cover plate quick-change system
- All Vision® Auto-Darkening lenses meet ANSI and CSA standards.

VISION® BFFVX Auto-Darkening Welding Helmet

- The largest viewing area in the industry!
- Low power consumption solar battery – only needs charge every 4-6 months.
- 3-year warranty.
- Viewing area 17 sq. in.
- Light state 3
- Dark state 5-13
- Variable sensitivity
- Fixed delay
- X-TIG mode
- Grind mode
- TIG rating 5 amps
- 3 sensors
- Inside cover plate: #022000 or 022005
- Outside cover plate: #022000
- Replacement headgear: #023003



ITEM NO.	DESCRIPTION	1	2	4	6
024023	VISION BFFVX helmet	\$233.37	\$221.56	\$210.88	\$201.18



See color in its truest form with ArcOne’s new HD Technology. This innovative technology increases the range of visible light when looking through the lens, and while welding. By increasing the range of light, more natural colors can be seen, providing a clearer, more defined view of your work area.

See the difference!





VISION® X81VX Auto-Darkening Welding Helmet

- TIG rating under 5 amps.
- 3-year warranty.
- Viewing area 12.6 sq. in.
- Light state 3
- Dark state 5-14
- 8-setting sensitivity
- 8-setting delay
- X-TIG mode
- Grind mode
- TIG rating <5 amps
- 5 sensors
- Inside cover plate: #022002
- Outside cover plate: #022000 or #022005
- Replacement headgear: #023003



ITEM NO.	DESCRIPTION	1	2	4	6
024020	VISION X81VX helmet	\$285.87	\$271.58	\$258.64	\$246.89

VISION911® Helmet Series

The same Vision shell you know and love is now offered with a more economical 110x90mm lens. Built for quick welding tasks but with many of the features from the professional and industrial grade helmets.

VISION911® 4500V Auto-Darkening Welding Helmet

- 3-year warranty.
- Viewing area 7.1 sq. in.
- Light state 4
- Dark state 9-13
- Variable sensitivity
- Variable delay
- Grind mode
- TIG rating 25 amps
- 4 sensors
- Inside cover plate: #022001
- Outside cover plate: #022002
- Replacement headgear: #023000



ITEM NO.	DESCRIPTION	1	2	4	8
024030	VISION911 4500V helmet	\$120.60	\$113.90	\$107.91	\$102.51

VISION® X54VI Auto-Darkening Welding Helmet

- Built for the professional welder.
- 3-year warranty.
- Viewing area 7.25 sq. in.
- Light state 4
- Dark state 5-14
- 8-setting sensitivity
- 8-setting delay
- Grind mode
- TIG rating 5 amps
- 4 sensors
- Inside cover plate: #022004 or #022005
- Outside cover plate: #022000
- Replacement headgear: #023001 or #023002



ITEM NO.	DESCRIPTION	1	2	4	6
024015	VISION X54VI helmet	\$186.96	\$177.25	\$168.49	\$160.56

VISION911® 1000F Auto-Darkening Welding Helmet

- 3-year warranty.
- Viewing area 6 sq. in.
- Light state 4
- Dark state 9-13
- Variable sensitivity
- Variable delay
- Grind mode
- TIG rating 25 amps
- 2 sensors
- Inside cover plate: #022001
- Outside cover plate: #022002
- Replacement headgear: #023000



ITEM NO.	DESCRIPTION	1	2	4	8
024025	VISION911 1000F helmet	\$102.60	\$96.90	\$91.80	\$87.21

CARRERA™ Helmet Series

The Carrera™ ArcOne® helmet is ultra-light, and has a sleek, modern design. It has a wider fit popular for all welders.

- Built with many features from the professional and Industrial grade helmets for the everyday welder looking to make quick work of most welding applications:
- True Color Technology
- Shade Control
- Grind Mode
- Sensitivity
- Delay
- All Carrera™ ArcOne® Auto-Darkening lenses meet ANSI and CSA and are CE approved.

CARRERA™ 4500V Auto-Darkening Welding Helmet

- 3-year warranty.
- Viewing area 7.1 sq. in.
- Light state 4
- Dark state 9-13
- Variable sensitivity
- Variable delay
- Grind mode
- TIG rating 25 amps
- 4 sensors
- Inside cover plate: #022001
- Outside cover plate: #022002
- Replacement headgear: #023000



ITEM NO.	DESCRIPTION	1	2	4	8
024002	CARRERA 4500V helmet	\$120.60	\$113.90	\$107.91	\$102.51

Cover Plates

- ArcOne's specially designed cover plates are lightweight, hold up to the highest standards, and may be used with other manufacturers helmets.

ITEM NO.	SIZE	1	20	50	100
022000	5 x 4 x 0.40"	\$1.66	\$1.57	\$1.49	\$1.41
022001	2 x 4 x 0.40"	0.85	0.81	0.76	0.73
022002	90mm x 110mm x 0.40"	1.66	1.57	1.49	1.41
		1 pack	20	50	100
022003	For PYTHON, pack of 2	8.54	8.07	7.64	7.26

Inside Cover Plates

ITEM NO.	SIZE	1	20	50	100
022004	5 x 4 x 0.30"	\$2.07	\$1.96	\$1.86	\$1.76

CARRERA™ 1000F Auto-Darkening Welding Helmet

- 3-year warranty.
- Viewing area 6 sq. in.
- Light state 4
- Dark state 9-13
- Variable sensitivity
- Variable delay
- Grind mode
- TIG rating 25 amps
- 2 sensors
- Inside cover plate: #022001
- Outside cover plate: #022002
- Replacement headgear: #023000



ITEM NO.	DESCRIPTION	1	2	4	8
024000	CARRERA 1000F helmet	\$108.00	\$102.00	\$96.63	\$91.80

Economical Ratcheting Headgear

- With cloth sweatband.



ITEM NO.	DESCRIPTION	1	5	10	20
023000	Economical ratcheting headgear	\$14.85	\$14.03	\$13.29	\$12.63

COMFAGEAR Ratcheting Headgear

- With deluxe sweatband.



ITEM NO.	DESCRIPTION	1	5	10	20
023001	COMFAGEAR Headgear	\$23.40	\$22.10	\$20.93	\$19.89

COMFAGEAR Ratcheting Headgear

- With deluxe sweatband and large knobs.



ITEM NO.	DESCRIPTION	1	5	10	20
023002	COMFAGEAR Headgear	\$28.62	\$27.03	\$25.61	\$24.33



Vision® Passive Welding Helmet

- Incredibly lightweight for a full size 5x4” welding helmet - under 14 oz.
- Features full head, ear, and neck coverage with a Perma-Lok ratchet headgear.
- Variable center section will accept electronic filters up to 3/8”.
- Shade 10 passive filter.



ITEM NO.	DESCRIPTION	1	4	8	12
024090	Passive helmet	\$45.90	\$43.35	\$41.07	\$39.01



flange wizard® inc.
"welders choice for quality" since 1981
Made in the USA



CIRCLE WIZ Cutting Attachment

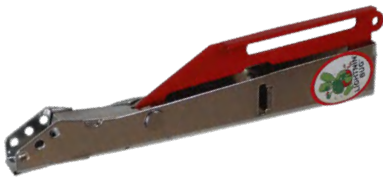
- A must for anyone who cuts small to medium holes in plate or pipe.
- Fits all conventional torches to cut holes from 5/8” to 12” diameter.
- Especially handy for cutting out the holes for matching saddle cuts, weldolets, and threadolets.
- Simply slide the center pin along the hex arm to attain the desired hole radius, place the sharpened point in your center mark and you are ready to cut.
- Solid brass and steel construction, USA-made.



ITEM NO.	DESCRIPTION	1	3	6	12
908483	Flange Wizard	\$70.04	\$66.14	\$62.66	\$59.53

Lightnin’ Bug® Torch Lighter

- Multi-Spark discharge.
- Ignites almost all industrial fuel gases.
- Never needs flints, batteries, or recharging.



ITEM NO.	DESCRIPTION	1	5	10	20
902100	Torch Lighter	\$15.56	\$14.69	\$13.92	\$13.23

Spark Lighters

- Reliable torch spark lighters with dependable ignition.
- Available in single flint or triple flint options.



ITEM NO.	DESCRIPTION	1	10	20	40
902010	Single Flint, Carded	\$4.05	\$3.83	\$3.62	\$3.44
902000	Single Flint, Bulk 10/Box	3.14	3.14	2.97	2.81
902030	Triple Flint, Carded	5.97	5.64	5.34	5.08
902020	Triple Flint, Bulk Packed	5.40	5.10	4.83	4.59
902050	Triple Flint w/Flints, Carded	9.62	9.09	8.61	8.18

Spark Lighters

- Reliable torch spark lighters with dependable ignition.
- Available in single flint or triple flint options.



ITEM NO.	DESCRIPTION	1	10	20	40
900100	BEST WELDS Single Flint	\$2.16	\$2.03	\$1.92	\$1.82
900300	BEST WELDS Triple Flint	3.31	3.12	2.95	2.79

Spark Lighter Flints

- These flints are guaranteed to fit perfectly on Shurlite lighters, and to remain seated in the flint holder.
- Larger size for longer life.



ITEM NO.	DESCRIPTION	1 card	10	20	30
902013	Single flint, 5 per card	\$1.64	\$1.55	\$1.47	\$1.40
902036	Triple flint, 4 per card	3.91	3.69	3.50	3.32



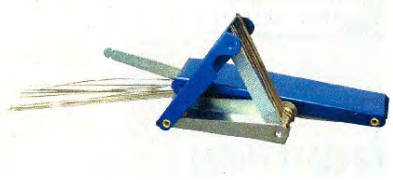
- Considered one of the best in the industry!
- A favorite among professional welders.
- Draws in perspiration and releases sweat vapor.
- Proven to reduce head irritation from helmet
- **Material:** Flame Retardant Fleecy Cotton Outer Layer, Air-Cushioned Foam Inner Layer, Hook and Loop for Universal Fit



ITEM NO.	DESCRIPTION	1 pack	10	20	40
693910	Welding helmet sweat bands	\$3.26	\$3.07	\$2.90	\$2.75

Torch Tip Cleaner

- Constructed of stainless steel.
- Tapered ends for easy cleaning.
- Includes case with file.
- Diameters: .014, .018, .021, .024, .028, .032, .035, .037, .039, .042, .048, .055, & .062”
- Size Group: #6 thru #25



ITEM NO.	DESCRIPTION	1	5	10	20
908540	Tip Cleaner	\$2.88	\$2.88	\$2.57	\$2.44

MIG Welding Pliers

- Specially designed pliers to assist in wire cutting, tip and nozzle removal and installation, spatter removal and more.
- The IRWIN pliers features induction-hardened cutting edges to stay sharp longer.
- A very versatile and almost indispensable tool to keep handy at every welding station.



ITEM NO.	DESCRIPTION	1	5	10	20
903520	BEST WELDS 8”	\$21.71	\$20.50	\$19.43	\$18.45
222180	IRWIN 10”	23.44	22.14	20.97	19.93

Magnetic Holders

- These powerful magnetic holders come in handy in countless welding/work-holding applications.



ITEM NO.	DESCRIPTION	1	5	10	15
900061	Medium: 45 lb. capacity	9.40	8.87	8.41	7.99
900063	Large: 80 lb. capacity	13.67	12.91	12.23	11.62
900065	X-Large: 95 lb. capacity	18.01	17.01	16.11	15.31

Electrode Holders – High Tong Type

- Lever designed for better hand clearance and hold.
- Made from high quality materials for both high conductivity and improved cable connections.
- Ergonomically designed heavy duty shock-proof nylon handle.
- Body material: Brass

ITEM NO.	AMPS	ELEC-TRODE CAPACITY	CABLE CAPACITY	LENGTH	PRICE EACH			
					1	5	10	20
903010	200	4mm	3/0	8.46"	\$16.24	\$15.34	\$14.53	\$13.81
903013	250	5mm	1/0	9.25"	17.85	16.86	15.97	15.17
903016	300	6.3mm	1/0	10.04"	21.68	20.47	19.40	18.43

Steel Ground Clamps

- Zinc-plated steel ground clamp.
- Large hex screw cable connection assures safe connection every time.
- Broad contact surface area ensures excellent electrical contact.

ITEM NO.	AMPS	CABLE CA-PACITY	JAW OPENING	THROAT DEPTH	PRICE EACH			
					1	5	10	20
903025	200	#2	1"	3.28"	\$5.80	\$2.56	\$2.43	\$2.31
903028	300	1/0	1.5"	4.57"	8.78	8.27	7.82	7.41
903031	500	3/0	2"	6.20"	12.64	11.91	11.25	10.67

Magnetic Torch Stands / Electrode Holders

- Helps keep torch away from table clutter
- Protects torch head from inadvertent damage
- Magnetic base offers great flexibility, as it attaches to any steel surface
- Magnetic base prevents slippage of stand

ITEM NO.	TORCH	COLOR	1	5	10	20
903070	Electrode Holder	Red	\$18.25	\$17.24	\$16.33	\$15.51
903073	Mig Gun	Blue	16.12	15.23	14.42	13.70
903076	Tig Torch	Yellow	16.33	15.42	14.61	13.88

TWECO Style Ground Clamps

- Contoured handle lever for easy jaw opening.
- Large contact area assures positive grounding.
- Conductor body holds the cable securely.

ITEM NO.	AMPS	CABLE CAPACITY	JAW CAPACITY	THROAT DEPTH	PRICE EACH			
					1	5	10	20
903040	150	#2	1.5"	2.52"	\$14.84	\$14.01	\$13.27	\$12.61
903055	200	1/0	2"	3.50"	19.27	18.20	17.24	16.38
903061	200	#2	1"	2.64"	41.82	39.50	37.42	35.55
903043	300	1/0 - 3/0	1.5"	3"	22.18	20.95	19.84	18.85
903058	300	3/0	2"	3.86"	28.61	27.02	25.60	24.32
903046	500	2/0 - 4/0	1.5"	3.50"	31.51	29.76	28.19	26.78

LENCO® MIG 300 Ground Clamp

- Powerful bite and swivel pad for low-resistance ground connections.
- Cable capacity 1/0 to 2/0, jaw opening 2", throat depth 1-1/8".

ITEM NO.	DESCRIPTION	1	2	4	8
903483	300 amp ground clamp	\$48.70	\$46.00	\$43.58	\$41.40

Magnetic Holders & Ground Clamps

- These magnets offer you more angles in one product than any other magnetic angles.
- Other magnets often don't turn off completely – Magswitch will.
- The magnets will stay CLEAN for years of use.
- MINI with ground clamp grounds and holds simultaneously.
- Each magnet offers several common angles: 45/135°, 60/120°, 75/105°, and 90°

	Mini	Mini Multi	Mini Multi w/ 300 Amp Ground		Multi Angle 400	
Part #	8100352	8100350	8100351		8100438	
Magnet Strength	90 lbs	90 lbs	150 lbs		400 lbs	
Height	2.1"	2.5"	3.4"		3.8"	
Width	1.2"	1.2"	1.6"		2.6"	
Length	2.3"	2.8"	3.6"		5.1"	
Weight	0.4 lbs	0.4 lbs	1.1 lbs		2.6 lbs	
ITEM NO.	MODEL		1	2	4	8
903250	MINI		\$40.49	\$38.24	\$36.23	\$34.42
903260	MINI MULTI		60.19	56.85	53.86	51.16
903263	MINI MULTI w/300 AMP GR		74.99	70.82	67.09	63.74
903266	MULTI ANGLE 400		202.49	191.40	181.46	172.50

TOMAHAWK® Chipping Hammer

- Features the popular "Flex-O" steel coil hand grip, welded to a tough steel handle shaft.
- Heads are "pinned" for safety and reliability.
- Cone and Chisel style.
- Made in the USA.

ITEM NO.	HANDLE TYPE	OAL (INS)	1	5	10	20
903510	Coil, Steel	10	\$12.20	\$11.52	\$10.92	\$10.37

Twin Welding Hose

- Open steam vulcanization curing process does not require pin pricking and offers improved cover and reinforcement adhesions for longer hose life.
- Non-staining coupling ensures that brass fitting will not discolor.
- I.D. 1/4", O.D. 0.53".
- Connection type: B-B.
- Pressure: 200 psi.
- Grade: R.

ITEM NO.	DESCRIPTION	1	3	6	9
903100	1/4" x 25'	\$48.49	\$45.80	\$43.39	\$41.22
903103	1/4" x 50'	68.77	64.95	61.53	58.45

G350 Cutting and Welding Outfit

- Acetylene; oxygen.
- Cutting capacity 3/8 – 6".
- Contains built-in flashback arrestors and check valves.
- Color-coded knobs.
- CA370-V cutting attachment, WH370FC-V welding handle, 1-1-101 cutting tip, 2-UM-350 welding nozzle, G350-150-540 oxygen regulator, G350-15-510 fuel gas regulator, 1/4" x 25' RM hose, goggles, striker.

ITEM NO.	DESCRIPTION	1	2	4
908750	Cutting & welding complete kit	\$507.08	\$481.41	\$458.20



70S6 Welding Wire – Pallet Volume

- High quality welds when used on dirty, oily, or rusty steel.
 - Creates a smooth bead appearance resulting in minimal post-weld grinding.
 - Provides porosity free, x-ray quality weld.
 - Tests & approvals: ASME, SFA, AWS, A5.18.
 - Free freight within the lower 48 (pallet volume only).
 - Priced per pound.
- * Call for container pricing.

ITEM NO.	DIA	PACKAGING	POUNDS PER SKID	2	3	4
900624	.035"	33 lb. spool	2376 lb.	\$1.43	\$1.40	\$1.37
900627	.035"	44 lb. spool	2640 lb.	1.34	1.31	1.29
900630	.035"	550 lb. drum	2200 lb.	1.43	1.40	1.37
900639	.045"	33 lb. spool	2376 lb.	1.35	1.32	1.29
900642	.045"	44 lb. spool	2640 lb.	1.34	1.31	1.28
900645	.045"	550 lb. drum	2200 lb.	1.41	1.38	1.35

70S6 Welding Wire – Less-Than-Pallet

- Priced per pound.

ITEM NO.	DIA	PACKAGING	33 lb.	594 lb.	1,188 lb.		
900612	.030"	33 lb. spool	1.74	1.65	1.57	-	-
900621	.035"	33 lb. spool	1.76	1.66	1.58	-	-
900633	.045"	33 lb. spool	1.62	1.53	1.46	-	-
			11 lb.	110 lb.	220 lb.	440 lb.	880 lb.
900601	.023"	11 lb. spool	2.57	2.44	2.32	-	-
900609	.030"	11 lb. spool	1.74	1.65	1.57	1.50	1.43
900618	.035"	11 lb. spool	1.85	1.75	1.66	1.58	1.51
			2 lb.	100 lb.	200 lb.		
900606	.030"	2 lb. spool	0.93	0.88	0.84	-	-
900615	.035"	2 lb. spool	0.91	0.86	0.82	-	-

71T1 Flux-Core Wire

- Limited multi-pass, all position flux cored welding wire designed to weld carbon steel.
- Produces a smooth arc action, low spatter, full slag coverage, and easy slag removal.
- Requires shielding gas.
- Priced per pound.

* **Made in the USA!**

ITEM NO.	DIA	PACKAGING	33 lb	198	396	792
430151	.045"	33 lb. spool	\$3.67	\$3.48	\$3.31	\$3.16
430152	1/16"	33 lb. spool	4.27	4.05	3.86	3.68
			44 lb	264	528	880
430156	.045"	44 lb. spool	3.67	3.67	3.31	3.16
430157	1/16"	44 lb. spool	4.27	4.05	3.86	3.68



308L Stainless Welding Wire

- Used for welding types 304, 304L, 308, & 308L stainless steels, and may also be used for types 321 and 347.
- Similar to type 308 but has lower carbon content to avoid carbide precipitation.
- Priced per pound.



ITEM NO.	DIA	PACKAGING	30 lb	120	240	480
900449	.030"	30 lb. spool	\$6.87	\$6.52	\$6.21	\$5.92
900458	.035"	30 lb. spool	5.98	5.68	5.40	5.16
900464	.045"	30 lb. spool	3.40	3.23	3.07	2.93
			10 lb	100	200	400
900446	.030"	10 lb. spool	7.63	7.25	6.90	6.58
900455	.035"	10 lb. spool	7.61	7.23	6.88	6.56
900461	.045"	10 lb. spool	7.44	7.06	6.72	6.41
			2 lb	50	100	
900440	.023"	2 lb. spool	4.83	4.58	4.36	-
900444	.030"	2 lb. spool	4.15	4.15	3.75	-
900452	.035"	2 lb. spool	4.14	3.93	3.74	-

308L Stainless Welding Wire

ITEM NO.	DIA	PACKAGING	33 lb	165	330	660
430182	.035"	33 lb Spool	\$5.15	\$4.86	\$4.61	\$4.38
430187	.045"	33 lb Spool	4.38	5.90	5.59	5.31



308L-SI Stainless Welding Wire

- Same analysis as 308L but with a higher silicon content, which improves arc stability, bead appearance, and wetting action.
- Priced per pound.

ITEM NO.	DIA	PACKAGING	30 lb	150	300	600
900410	.035"	30 lb. spool	\$6.76	\$6.42	\$6.11	\$5.83
900413	.045"	30 lb. spool	5.02	4.76	4.53	4.33



308L-SI Stainless Welding Wire

- Same analysis as 308L but with a higher silicon content, which improves arc stability, bead appearance, and wetting action.
- Priced per pound.

ITEM NO.	DIA	PACKAGING	33 lb	165	330	660
430173	.035"	33 lb Spool	\$5.72	\$5.40	\$5.12	\$4.86
430178	.045"	33 lb Spool	5.51	5.21	4.93	4.69



309L Stainless Welding Wire

ITEM NO.	DIA	PACKAGING	33 lb	165	330	660
430221	.035"	33 lb Spool	\$5.96	\$5.63	\$5.33	\$5.06
430226	.045"	33 lb Spool	5.96	5.63	5.33	5.06



309L Stainless Welding Wire

ITEM NO.	DIA	PACKAGING	30 lb	120	240	480
900474	.035"	30 lb. spool	\$9.38	\$8.90	\$8.47	\$8.08
900478	.045"	30 lb. spool	7.78	7.39	7.03	6.71



Hard-Surfacing Welding Wire

- Shielding gas required.
- Flux core and metal core available.
- Priced per pound.
- 25 lb. spools.

ITEM NO.	DIA	PRODUCT	1	25 lb	50	100	200
430101	.045"	RC48 Flux-Core	-	\$10.65	\$10.11	\$9.63	\$9.18
430105	.045"	RC60 Flux-Core	12.15	11.67	11.08	10.54	10.06
430111	.045"	RC48 Metal-Core	-	11.33	10.76	10.24	9.77
430112	.045"	RC55 Metal-Core	-	12.91	12.25	11.66	11.13



Hard-Surfacing Welding Wire – Self-Shielding

- No shielding gas required.
- Price per pound
- 25 lb. spools.

ITEM NO.	DIA	PRODUCT	25 lb	50	100	200
430121	.045"	RC48 Flux-Core	\$11.33	\$10.76	\$10.24	\$9.77
430122	.045"	RC55 Flux-Core	12.00	11.39	10.84	10.34
430123	.045"	RC60 Metal-Core	14.13	13.42	12.77	12.18

71TGS Gass-less Flux-Core Wire

- All position, single pass flux cored welding wire designed to weld carbon steel.
- Shielding gas is not required.
- Produces smooth arc action, low spatter, full slag coverage, and easy slag removal.
- Priced per pound.

ITEM NO.	DIA	PACKAGING	10 lb	50	100	200
900660	.035"	10 lb. spool	\$5.21	\$4.95	\$4.71	\$4.49



71TGS Gass-less Flux-Core Wire

ITEM NO.	DIA	PACKAGING	10 lb	50	100	200
430142	.035"	10 lb. spool	\$3.73	\$3.54	\$3.37	\$3.22



70S6 Tig Welding Rods

- High quality welds when used on dirty, oily, or rusty steel.
- Creates a smooth bead appearance resulting in minimal post-weld grinding.
- Provides porosity free, x-ray quality weld. • Tests & approvals: ASME, SFA, AWS, A5.18
- Priced per pound.

ITEM NO.	TYPE	DIAMETER	PACKAGING	10 lb.	100	200	500	1000
900550	70S6 Carbon Steel Tig Welding Rods	1/16" x 36"	10 lbs / Tube	\$0.78	\$0.74	\$0.70	\$0.67	\$0.64
900553	70S6 Carbon Steel Tig Welding Rods	3/32" x 36"	10 lbs / Tube	1.89	1.79	1.70	1.62	1.62
900556	70S6 Carbon Steel Tig Welding Rods	1/8" x 36"	10 lbs / Tube	2.53	2.40	2.28	2.18	2.08
900559	70S6 Carbon Steel Tig Welding Rods	5/32" x 36"	10 lbs / Tube	1.01	0.95	0.91	0.86	0.82

4043 Aluminum Welding Wire & Tig Rods

- 4043 is one of the most widely used alloys for general repair and fabrication.
- With a 5% silicon level, 4043 produces smooth arc results which allow for better arc wetting characteristics and a more fluid arc.
- Low melting temperature and fluidity.
- Moderate electrical and thermal conductivity.
- Superior surface finish for maximum arc transfer.
- Price per pound



ITEM NO.	SIZE	PACKAGE	16 lb	80	160	320	640
900506	.035"	16 lb spool	\$9.14	\$8.67	\$8.26	\$7.88	-
900512	3/64"	16 lb spool	9.19	8.73	8.31	7.93	-
			1 lb	20	50	100	
900500	.030"	1 lb. spool	11.09	10.53	10.03	9.56	-
900503	.035"	1 lb. spool	8.68	8.24	8.24	7.48	-
900509	3/64"	1 lb. spool	9.77	9.28	8.83	8.43	-
			10 lb	50	100	200	500
900480	1/16" x 36"	10 lb Tube	8.61	8.17	7.78	7.42	7.10
900483	3/32" x 36"	10 lb Tube	8.41	7.99	7.60	7.25	-
900486	1/8" x 36"	10 lb Tube	8.31	7.89	7.51	7.17	6.85

5356 Aluminum Welding Wire

- Superior product for welding 5xxx series aluminums.
- Ideal product for trailer, bicycle, and auto repair.
- Good weld color match for welding 5xxx series aluminums.
- Produces welds that are suited for alloys such as 5050, 5052, 5083, 5356, 5454, and 5456
- Price per pound



ITEM NO.	DIA	PACKAGING	1 lb	20	50	100
900530	.035"	1 lb. spool	\$10.77	\$710.23	\$9.74	\$9.29
			16 lb	80	160	320
900533	.035"	16 lb. spool	6.71	6.37	6.06	5.78

Welding Electrodes

- Premium quality welding electrodes.
- 10 lbs per Tube, 40 lbs per Case.
- Priced per pound.



ITEM NO.	TYPE	DIAMETER	PACKAGING	UOM	10 lb.	120	280	560	1200
501100	6010	3/32"	10 lbs / Tube	LB	\$2.50	\$2.36	\$2.24	\$2.13	-
501101	6010	1/8"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	-
501102	6010	5/32"	10 lbs / Tube	LB	1.99	1.88	1.78	1.69	-
501105	6011	3/32"	10 lbs / Tube	LB	1.99	1.88	1.78	1.69	1.61
501106	6011	1/8"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501107	6011	5/32"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501110	6013	3/32"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501111	6013	1/8"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501112	6013	5/32"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501120	7014	3/32"	10 lbs / Tube	LB	1.99	1.88	1.78	1.69	1.61
501121	7014	1/8"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501122	7014	5/32"	10 lbs / Tube	LB	1.99	1.88	1.78	1.69	1.61
501123	7014	3/16"	10 lbs / Tube	LB	2.13	2.01	1.91	1.81	-
501130	7018	3/32"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501131	7018	1/8"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501132	7018	5/32"	10 lbs / Tube	LB	1.91	1.81	1.71	1.63	1.55
501133	7018	3/16"	10 lbs / Tube	LB	1.99	1.88	1.78	1.69	-
501134	7018	1/4"	10 lbs / Tube	LB	2.13	2.01	1.91	1.81	-
					5 lb.	100	200	500	
901239	7018AC	3/32"	5 lbs / Tube	LB	\$3.70	\$3.49	\$3.31	\$3.14	-
901240	7018AC	1/8"	5 lbs / Tube	LB	3.60	3.40	3.22	3.06	-

4043 Aluminum Welding Electrodes

ITEM NO.	TYPE	DIAMETER	PACKAGING	5 lb.	20	50	100	200
430001	4043 Aluminum Welding Electrodes	3/32"	5 lbs / Tube	\$13.39	\$12.59	\$11.89	\$11.26	\$10.69
430002	4043 Aluminum Welding Electrodes	1/8"	5 lbs / Tube	13.39	12.59	11.89	11.89	10.69
430003	4043 Aluminum Welding Electrodes	5/32"	5 lbs / Tube	13.39	12.59	11.89	11.26	10.69

Nickel 55 & 99 Welding Electrodes (Cast Iron)

- 1 pound tube.

ITEM NO.	DIA	TYPE	1 lb	10	20	50	100
900670	3/32"	55 Nickel	\$38.57	\$36.62	\$34.85	\$33.25	\$31.79
900673	1/8"	55 Nickel	37.82	35.90	34.17	32.60	31.17
900676	5/32"	55 Nickel	37.82	35.90	34.17	32.60	31.17
900680	3/32"	99 Nickel	44.53	42.28	40.24	38.39	36.70
900683	1/8"	99 Nickel	43.87	41.65	39.64	37.82	36.16
900686	5/32"	99 Nickel	43.87	41.65	39.64	37.82	36.16



308L Stainless Welding Electrodes & Tig Rods

- Used for welding types 304, 304L, 308, & 308L stainless steels, and may also be used for types 321 and 347.
- Similar to type 308 but has lower carbon content to avoid carbide precipitation.
- Priced per pound.

ITEM NO.	TYPE	DIAMETER	PACKAGING	5 lb.	50	100	200
900400	ER308L Stainless Electrodes	3/32"	5 lbs / Tube	\$6.68	\$6.34	\$6.04	\$5.76
900403	ER308L Stainless Electrodes	1/8"	5 lbs / Tube	6.17	5.85	5.57	5.31
				10 lb.	50	100	200
900420	308L Stainless Tig Rods	1/16" x 36"	10 lbs / Tube	7.24	6.87	6.54	6.24
900423	308L Stainless Tig Rods	3/32" x 36"	10 lbs / Tube	7.00	6.64	6.32	6.03
900426	308L Stainless Tig Rods	1/8" x 36"	10 lbs / Tube	6.92	6.57	6.25	5.96

Bare and Flux-coated Brazing Rods

- Low melting point makes it easily machinable and excellent for sheet metal work.
- High tensile strength and good ductility.
- Priced per pound.

ITEM NO.	TYPE	DIAMETER	PACKAGING	10 lb.	50	100	200	500
900101	Bare Brazing Rod	3/32" x 36"	10 lbs / Tube	\$13.07	\$12.41	\$11.81	\$11.27	\$10.77
900102	Bare Brazing Rod	1/8" x 36"	10 lbs / Tube	13.07	12.41	11.81	11.27	10.77
900098	Flux-Coated Brazing Rod	3/32" x 36"	10 lbs / Tube	10.77	12.22	11.63	11.09	10.61
900099	Flux-Coated Brazing Rod	1/8" x 36"	10 lbs / Tube	12.87	12.22	11.63	11.09	10.61

RG45 Carbon Steel Solid Tig Welding Rods

- General purpose copper coated oxy-acetylene gas welding rod used for welding low carbon steels up to 1/4" thick.
- Good choice when ductility and machinability are most important.
- No need for a flux when brazing with this product.
- Priced per pound.

ITEM NO.	TYPE	DIAMETER	PACKAGING	10 lb.	100	200	500	1000
430300	RG45 Copper Coated Carbon Steel Rods	1/16" x 36"	10 lbs / Tube	\$2.15	\$2.04	\$1.94	\$1.85	\$1.76
430320	RG45 Copper Coated Carbon Steel Rods	3/32" x 36"	10 lbs / Tube	3.60	3.41	3.24	3.08	2.94
430307	RG45 Copper Coated Carbon Steel Rods	1/8" x 36"	10 lbs / Tube	3.88	3.67	3.49	3.32	3.17
430314	RG45 Copper Coated Carbon Steel Rods	5/32" x 36"	10 lbs / Tube	4.10	3.88	3.69	3.51	3.35

RG60 Gas Tig Welding Rods

- Moly alloyed, high strength oxy-acetylene gas welding rod used for gas brazing of low carbon and low alloy steels.
- Used in applications where a high tensile strength is needed.
- The high silicon and manganese content in this product eliminates the need for a flux when welding.
- Priced per pound.

ITEM NO.	TYPE	DIAMETER	PACKAGING	10 lb.	100	200	500	1000
430321	RG60 Uncoated Carbon Steel Rods	1/8" x 36"	10 lbs / Tube	\$4.44	\$4.21	\$4.00	\$3.81	\$3.64





Bernard® MIG Contact Tips
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	SIZE	DESCRIPTION	PKG QTY	UOM	MIN SELL	10 / 25	100	200	400
905005	T-030	.030"	CENTERFIRE	10	EA	10	\$1.69	\$1.69	\$1.53	\$1.45
905008	T-035	.035"	CENTERFIRE	10	EA	10	1.69	1.61	1.53	1.45
905011	T-045	.045"	CENTERFIRE	10	EA	10	1.74	1.64	1.56	1.49
905020	T1035	.035"	QUIK TIP	25	EA	25	1.85	1.75	1.66	1.58
905023	T1045	.045"	QUIK TIP	25	EA	25	1.86	1.76	1.68	1.60
							10 / 25	100	200	400
905035A	1589	.035"		25	EA	25	1.11	1.04	0.99	0.94
905059A	4281	.035"	Tapered	25	EA	25	0.94	1.62	1.53	1.45
905068	7489	.035"		25	EA	25	1.49	1.41	1.34	1.27
905068A	7489	.035"		25	EA	25	0.74	0.70	0.66	0.62
905071A	7490	.045"		25	EA	25	0.74	0.70	0.66	0.62

• The letter 'A' after an item number indicates that this is not an OEM product (AKA 'after-market').



Miller MIG Contact Tips
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	SIZE	DESCRIPTION	PKG QTY	UOM	10/25	100	200	400
904221	T-A035CH	.035"	ACCULOCK	10	EA	\$1.51	\$1.43	\$1.36	\$1.30
904230	206-186	.030"		25	EA	2.38	2.25	2.14	2.04
904231	206-187	.035"		25	EA	2.42	2.29	2.18	2.07
904232	206-188	.045"		25	EA	2.36	2.24	2.13	2.03
904241A	087-299	.025"		25	EA	0.80	0.76	0.72	0.68
904244A	000-067	.030"		25	EA	0.80	0.75	0.71	0.68
904247A	000-068	.035"		25	EA	0.80	0.75	0.71	0.68
904250A	000-069	.045"		25	EA	0.80	0.75	0.71	0.68
904270A	135-430	.035"		25	EA	0.95	0.90	0.85	0.81
904280A	186-406	.035"		25	EA	1.02	0.96	0.90	0.86

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Bernard® MIG Gas Diffusers
OEM and Aftermarket

ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20	25	50
905101	DS-1	200/300A	CENTERFIRE, small	10	EA	\$13.40	\$12.68	\$12.03	-	\$11.44	\$10.91
905104	D-1	400-600A	CENTERIRE, large	1	EA	15.56	14.72	13.96	-	13.28	12.66
905107	D118Q	200-400A	QUIK TIP	10	EA	12.23	-	11.57	10.97	-	10.44
905110	D114Q	500/600A	QUIK TIP	10	EA	15.56	-	14.72	13.96	-	13.28
						1	5	10	20	25	50
905116	4323R		Insulator, use w/small	5	EA	7.74	7.32	6.95	-	6.61	6.30
905122	4435			5	EA	11.24	11.24	10.09	-	9.60	9.15
905122A	4435			5	EA	7.23	-	6.81	6.44	-	6.10
905131A	4335			5	EA	-	7.18	6.77	6.40	-	6.06

Bernard® MIG Welding Nozzles
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	DESCRIPTION	MATERIAL	PKG QTY	UOM	1	5 / 10	20	50	100
905143	NS-1218C	1/2" w/1/8" recess	Copper	10	EA	\$12.63	\$11.95	\$11.33	\$10.78	\$10.28
905149	NS-5800C	5/8" flush, small	Copper	10	EA	14.03	13.27	12.59	11.98	11.42
905152	N-5800C	5/8" flush, large	Copper	5	EA	16.77	15.86	15.05	14.32	13.65
905155	NS-5818C	5/8", 1/8" recess, small	Copper	10	EA	15.04	14.23	13.50	12.84	12.24
905158	N-5818C	5/8", 1/8" recess, large	Copper	10	EA	18.51	17.51	16.62	15.80	15.07
905167	N-3414C	3/4" w/1/4" recess	Copper	10	EA	16.31	16.31	15.45	14.68	13.98
905182	NS-1200B	1/2" flush (small)	Brass	10	EA	13.60	12.86	12.21	11.61	11.07
905197	N-5818B	5/8", 1/8" recess, large	Brass	10	EA	17.24	16.31	15.47	14.72	14.03
905209	N-1C58HQ	Copper Welding Nozzle Assembly		10	EA	26.87	25.42	24.12	22.94	21.87
905224	4592	1/2" nozzle	Copper	10	EA	-	19.96	18.91	17.96	17.11
905224A	4592	1/2" nozzle	Copper	5	EA	-	8.94	8.42	7.96	7.55
905230A	4491	3/4" nozzle	Brass	5	EA	-	7.20	6.78	6.41	6.08
905236A	4392	1/2" nozzle, tapered	Brass	5	EA	-	5.82	5.48	5.18	4.91
905242A	4391	5/8" nozzle	Brass	5	EA	-	5.82	5.48	5.18	4.91

Miller MIG Gas Diffusers
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	DESCRIPTION	PKG QTY	UOM	10	20	50	100
904334A	169-728		5	EA	\$4.37	\$4.12	\$3.89	\$3.69
904337A	169-716		5	EA	7.46	7.03	6.64	6.30
904325	186-409		2	EA	1.10	1.04	0.99	0.94
					1	10	20	50
904313	206-195	FASTIP	1	EA	22.11	20.92	19.85	18.88
904316	206-196	FASTIP	1	EA	16.13	15.26	14.47	13.77
904301	D-MA250	ACCULOCK	10	EA	15.59	14.74	13.99	13.30

Miller MIG Welding Nozzles
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1 / 2	5 / 10	20	50	100
904361	N-A5818C	5/8"	ACCULOCK	10	EA	\$20.16	\$19.07	\$19.07	\$17.21	\$16.41
904376	198-855	5/8"		2	EA	21.94	20.79	19.75	18.81	-
904379	199-613			1	EA	-	20.50	19.42	18.45	17.57
904382	199-616			1	EA	-	23.25	22.03	20.93	19.93
904401A	169-715	1/2" Flush		5	EA	-	7.91	7.45	7.04	6.68
904404A	169-724	1/2", 1/8" Recess		5	EA	-	10.28	9.68	9.15	8.67
904407A	169-725	5/8", 1/8" Recess		5	EA	-	10.28	9.68	9.15	8.68
904410A	169-726	5/8" Flush		5	EA	-	10.12	9.54	9.01	8.55
904413A	169-727	5/8", 1/8" Stick-Out		5	EA	-	10.12	9.54	9.01	8.55
904425A	186-405			10	EA	-	5.95	5.61	5.30	5.03
904437A	200-258	1/2" Flush		5	EA	-	15.26	14.38	13.59	12.89
							5	20	50	100
904471A	169-729	Nozzle Adapter		5	EA	-	6.58	6.20	5.86	5.56
904474A	169-730	Shock Washer		1	EA	-	4.57	4.30	4.07	3.86

Tweco® MIG Contact Tips
OEM and Aftermarket



• The letter 'A' after an item number indicates that this is not an OEM product (AKA 'after-market').



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	25	100	200	400
906003A	11-35	.035" standard	Mini & #1 Guns	25	EA	\$0.49	\$0.46	\$0.44	\$0.42
906005A	11-45	.045" standard	Mini & #1 Guns	25	EA	0.49	0.46	0.44	0.42
906006A	11H35	.035" HD	Mini & #1 Guns	25	EA	0.69	0.65	0.62	0.58
906007A	11H45	.045" HD	Mini & #1 Guns	25	EA	0.69	0.65	0.62	0.58
906010A	11T35	.035" tapered	Mini & #1 Guns	25	EA	0.65	0.61	0.58	0.55
906012A	11T45	.045" tapered	Mini & #1 Guns	25	EA	0.65	0.61	0.58	0.55
906016A	14-30	.030"	#2, 3, & 4 Guns	25	EA	0.52	0.49	0.47	0.44
906017A	14-35	.035" standard	#2, 3, & 4 Guns	25	EA	0.52	0.49	0.47	0.44
906019A	14-45	.045" standard	#2, 3, & 4 Guns	25	EA	0.52	0.49	0.47	0.44
906020A	14-52	.052" standard	#3 & 4 Guns	25	EA	0.52	0.49	0.47	0.44
906023A	14H35	.035" HD	#2, 3, & 4 Guns	25	EA	0.72	0.68	0.64	0.61
906025A	14H45	.045" HD	#2, 3, & 4 Guns	25	EA	0.72	0.68	0.64	0.61
906028A	14T35	.035" tapered	#2, 3, & 4 Guns	25	EA	0.74	0.70	0.66	0.62
906030A	14T45	.045" tapered	#2, 3, & 4 Guns	25	EA	0.74	0.70	0.70	0.62
906046A	16S-35	.035" standard	SPRAYMASTER Gun	25	EA	1.34	1.26	1.19	1.13
906047A	16S-45	.045" standard	SPRAYMASTER Gun	25	EA	1.34	1.26	1.19	1.13
906051	14RZT-35	.035" tapered		25	EA	3.29	3.12	2.96	2.82

Tweco® MIG Welding Nozzles
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	5	20	50	100
906104A	21-50	1/2"	Mini & #1 Guns	5	EA	\$6.55	\$6.17	\$5.84	\$5.53
906106A	21-62	5/8"	Mini & #1 Guns	5	EA	6.55	6.17	5.84	5.53
906112A	22-62	5/8"	#2 Gun	5	EA	2.66	2.51	2.37	2.25
906117A	23-50	1/2"	#2, 3, & 4 Guns	5	EA	7.95	7.49	7.08	6.71
906119A	23-62	5/8"	#2, 3, & 4 Guns	5	EA	7.95	7.49	7.08	6.71
906121A	23H62	5/8" HD Insulated	#2, 3, & 4 Guns	5	EA	15.52	14.62	13.82	13.10
906124A	24A50	1/2" Adjustable	#2, 3, & 4 Guns	5	EA	3.05	2.87	2.71	2.57
906126A	24A62	5/8" Adjustable	#2, 3, & 4 Guns	5	EA	3.05	2.87	2.71	2.57
906132A	24CT50S	1/2" Coarse Thread	#2, 3, & 4 Guns	5	EA	4.42	4.16	3.93	3.73
906134A	24CT62S	5/8" Coarse Thread	#2, 3, & 4 Guns	5	EA	3.73	4.58	4.33	4.10
906156A	HD24L-62	5/8"	SPRAYMASTER Gun	5	EA	11.38	10.72	10.14	9.61
906158A	HD24L-75	3/4"	SPRAYMASTER Gun	5	EA	11.14	10.49	9.92	9.40
906175	EL22CT-62H	5/8"		1	EA	26.78	25.37	24.10	22.95
						5	20	50	100
906141A	32	Insulator	#2 Gun	5	EA	1.20	1.13	1.07	1.01
906143A	34A	Insulator	#2, 3, & 4 Guns	5	EA	1.25	1.17	1.11	1.05
906146A	34CT	Insulator	#2, 3, & 4 Guns	5	EA	8.98	8.46	8.00	7.58

Tweco® MIG Gas Diffusers
OEM and Aftermarket



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	5	20	50	100
906066A	52FN		Fixed Nozzle, For Use With #2 Gun	5	EA	\$3.51	\$3.30	\$3.12	\$2.96
906069A	54A		#3 & #4 Guns	5	EA	1.99	1.87	1.77	1.68
906075A	HD54-16		SPRAYMASTER Gun	5	EA	6.46	6.09	5.75	5.45
906079	EL52CT-16			1	EA	20.17	19.11	18.15	17.29

Tregaskiss® MIG Contact Tips

• The letter 'A' after an item number indicates that this is not an OEM product (AKA 'after-market').



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	25	100	200	400
904513A	403-1-35	.035" HD	Tough Gun® 200, 300, 400, & 500	25	EA	\$0.86	\$0.81	\$0.77	\$0.73
904514A	403-1-45	.045" HD	Tough Gun® 200, 300, 400, & 500	25	EA	0.86	0.81	0.77	0.73
904503	403-20-35-25	.035" HD	TOUGH LOCK	25	EA	1.27	1.20	1.14	1.08

Tregaskiss® MIG Gas Diffusers



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	5	20	50	100
904520A	404-1	HD	Tough Gun 200, 300, 400, & 500	5	EA	\$2.31	\$2.17	\$2.05	\$1.95
904523A	404-3	Retaining head (Tough Gun 200, 300, 400, 500)		5	EA	7.15	6.74	6.37	6.04

Tregaskiss® MIG Welding Nozzles



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	5	20	50	100
904530A	401-4-50	1/2" w/1/8" Recess	TOUGH GUN 200 – 500	5	EA	\$8.68	\$8.17	\$7.73	\$7.32
904531A	401-4-62	5/8" w/1/8" Recess	TOUGH GUN 200 – 500	5	EA	8.68	8.17	7.73	7.32
904536A	401-6-62	5/8" w/1/8" Recess HD	TOUGH GUN 200 – 500	5	EA	10.83	10.20	9.64	9.14

Lincoln Contact Tips - OEM



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	10	100	200	400
904548	KP2744-035	.035"	MAGNUM PRO Gun	10	EA	\$1.64	\$1.55	\$1.48	\$1.40
904549	KP2744-045	.045"	MAGNUM PRO Gun	10	EA	1.58	1.50	1.43	1.36

Hypertherm Plasma Nozzles
OEM and Aftermarket

• The letter ‘A’ after an item number indicates that this is not an OEM product (AKA ‘after-market’).



ITEM NO.	INDUSTRY NO.	TYPE	AMPS	PKG QTY	UOM	5	25	50	100
917070A	120577	Cutting	55	5	EA	\$2.95	\$2.78	\$2.63	\$2.49
917090	120826	Shielded	40	5	EA	5.25	4.94	4.67	4.43
917105	120927	Cutting	80	5	EA	10.67	10.10	9.60	9.14
917105A	120927	Cutting	80	5	EA	5.45	5.13	4.85	4.60
917110A	120931	Cutting	60	5	EA				
917150	220064	Cutting	100	5	EA	11.13	10.54	10.01	9.54
917150A	220064	Cutting	100	5	EA	5.75	5.42	5.12	4.86
917160	220480	Cutting	30	5	EA	6.09	5.77	5.48	5.22
917160A	220480	Cutting	30	5	EA	2.65	2.49	2.36	2.23
917170	220671	Cutting	45	5	EA	7.31	6.92	6.58	6.26
917170A	220671	Cutting	45, For PM-45 Hand & Machine Torches	5	EA	4.66	4.66	4.15	3.94
917173	220672	Gouging		5	EA	11.97	11.34	10.77	10.26
917173A	220672	Gouging		5	EA	7.15	6.74	6.37	6.04
917180	220718	Extended nozzle, unshielded		5	EA	6.33	6.00	5.70	5.43
917180A	220718	Extended nozzle, unshielded		5	EA	4.32	4.07	3.85	3.65
917190	220797	Gouging	25 - 85	5	EA	13.56	12.84	12.20	11.62
917190A	220797	Gouging	25 - 85	5	EA	8.40	7.91	7.48	7.09
917200	220816	Cutting	85	5	EA	9.45	8.95	8.50	8.10
917200A	220816	Cutting	85, For PM-85 & 105 Hand Torches	5	EA	6.15	5.80	5.48	5.19
917203	220819	Cutting	65	5	EA	9.45	8.95	8.50	8.10
917203A	220819	Cutting	65, For PM-65, 85, 105 Hand & Machine	5	EA	6.15	5.80	5.48	5.19
917220	220890	Cutting	50	5	EA	13.66	12.94	12.30	11.71
917223	220892	Cutting	130 O2/Air	5	EA	9.86	9.34	8.88	8.45
917240	220930	FC cutting	45	5	EA	9.99	9.46	8.99	8.56
917240A	220930	FC cutting	45	5	EA	6.35	5.99	5.66	5.36
917250	220941	Cutting	45	5	EA	9.24	8.75	8.31	7.92
917250A	220941	Cutting	45	5	EA	6.16	5.80	5.48	5.20
917270	220990	Cutting	105	5	EA	9.56	9.06	8.60	8.19
917270A	220990	Cutting	105	5	EA	6.16	5.80	5.48	5.20
917273	220991	Gouging	105	5	EA	10.06	9.53	9.05	8.62
917273A	220991	Gouging	25 - 85	5	EA	8.15	7.68	7.26	6.88
917350	420044	Nozzle	200 Air	5	EA	20.06	19.00	18.05	17.19



Hypertherm Plasma Retaining Caps
OEM and Aftermarket

ITEM NO.	INDUSTRY NO.	FOR USE ON	PKG QTY	UOM	1	5	10	20
918410A	120600	Powermax45 Hand & Machine Torches	1	EA	\$29.91	\$28.17	\$26.63	\$25.25
918440	120928		1	EA	55.61	52.61	49.91	47.48
918440A	120928		1	EA	31.48	29.65	28.03	26.57
918490	220713		1	EA	44.00	41.62	39.49	37.56
918490A	220713		1	EA	26.12	24.61	23.26	22.05
918520	220854	PM-65, 85, 105 Hand & Machine Torches	1	EA	48.59	45.96	43.60	41.48
918520A	220854	PM-65, 85, 105 Hand & Machine Torches	1	EA	31.35	29.54	27.92	26.47



Hypertherm Plasma Shields/Deflectors
OEM and Aftermarket

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ITEM NO.	INDUSTRY NO.	TYPE	FOR USE ON	PKG QTY	UOM	1	5	10	20	50
917550A	120601	Shield/Deflector		1	EA	\$14.74		\$13.88	\$13.12	\$12.44
917570	120929	Shield	40/60/80A	1	EA	20.52		19.41	18.41	17.51
917570A	120929	Shield/Deflector	40/60/80A	1	EA	12.66		11.93	11.27	10.69
917620	220532	Shield	45 Air/N2, 50 O2/Air	1	EA	51.16		48.39	45.91	43.67
917625	220536	Shield	130 Air/N2/H35	1	EA	46.51		44.00	41.74	39.71
917640	220674	Shield/Deflector		1	EA	22.79		21.56	20.45	19.46
917640A	220674	Shield/Deflector	Powermax45 Hand Torch	1	EA	13.71		12.91	12.21	11.57
917643	220675	Shield/Deflector		1	EA	24.19	22.88	21.71	20.65	
917643A	220675	Shield/Deflector		1	EA	13.71	12.91	12.21	11.57	
917655	220798	Shield/Deflector		1	EA	25.49		24.11	22.87	21.76
917655A	220798	Shield/Deflector		1	EA	16.86		15.88	15.01	14.23
917670	220817	Shield/Deflector		1	EA	25.81		24.42	23.17	22.04
917670A	220817	Shield/Deflector	POWERMAX65, 85, 105 Machine	1	EA	15.69		14.78	13.97	13.25
917673	220818	Shield/Deflector		1	EA	23.00		21.76	20.64	19.63
917673A	220818	Shield/Deflector	POWERMAX65, 85, 105 Hand Torch	1	EA	13.82		13.01	12.30	11.66
917685	220955	Deflector 45-105A		1	EA	12.74		12.05	11.44	10.88
917685A	220955	Deflector 45-105A		1	EA	8.28		7.80	7.37	6.99
917700	220992	Shield/Deflector		1	EA	24.30		22.99	21.81	20.74
917700A	220992	Shield/Deflector		1	EA	12.77		12.03	11.37	10.78
917780	420045	Shield	200 Air	1	EA	34.63		32.76	31.08	29.56



Hypertherm Plasma Electrodes
OEM and Aftermarket

ITEM NO.	INDUSTRY NO.	AMPS	FOR USE ON	PKG QTY	UOM	5	25	50	100
918050A	120573	Long Life Electrode		5	EA	\$8.34	\$7.86	\$7.42	\$7.04
918070	120926			5	EA	14.15	13.41	12.74	12.13
918070A	120926			5	EA	7.37	6.94	6.56	6.22
918120	220037	100		5	EA	15.32	14.51	13.79	13.13
918120A	220037	100		5	EA	8.57	8.07	7.63	7.23
918133	220478	30	Powermax45 Hand Torches	5	EA	10.08	9.55	9.07	8.64
918133A	220478	30	Powermax45 Hand Torches	5	EA	5.85	5.51	5.21	5.21
918140	220487	130 air / oxy		5	EA	24.08	22.82	21.68	20.64
918140A	220487	130 air / oxy		5	EA	15.40	14.51	13.71	13.00
918150	220528	45 air/N2, 50 O2/air		5	EA	25.78	24.42	23.20	22.10
918150A	220528	45 air/N2, 50 O2/air		5	EA	15.86	14.94	14.12	13.39
918160	220669	45		5	EA	13.86	13.13	12.47	11.88
918160A	220669	45	Powermax45 Hand & Machine Torches	5	EA	7.40	6.97	6.59	6.25
918175	220777	CopperPlus Electrode		5	EA	13.02	12.33	11.72	11.16
918190	220842	45 - 105		5	EA	12.43	11.77	11.19	10.65
918190A	220842	45 - 105	PM-65, 85, 105 Hand & Machine Torches	5	EA	8.57	8.07	7.63	7.23
918200	220937	200 O2/air		5	EA	18.79	17.80	16.91	16.11
918200A	220937	200 O2/air		5	EA	12.88	12.13	12.13	10.87



Hypertherm Plasma Swirl Rings
OEM and Aftermarket



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ITEM NO.	INDUSTRY NO.	AMPS	FOR USE ON	PKG QTY	UOM	1 / 2	5	10	20	40
918710A	120576			2	EA	\$15.37	\$14.48	\$13.68	\$12.97	
918740	120925			2	EA	28.60	27.10	25.74	24.52	
918740A	120925			2	EA	14.08	13.26	12.53	12.53	
918790	220051	100		1	EA	24.63	23.30	22.10	21.02	
918790A	220051	100		2	EA	21.95	20.68	19.55	18.53	
918820	220488	130 O2/Air/N2		1	EA	43.33	40.99	38.88	36.99	
918820A	220488	130 O2/Air/N2		1	EA	26.29	24.77	23.41	22.19	
918830	220529	50		1	EA	47.10	44.55	42.27	40.21	
918830A	220529	50		1	EA	26.29	24.77	23.41	22.19	
918840	220670			1	EA	29.15	27.58	26.16	24.89	
918840A	220670	45		1	EA	20.14	18.97	17.93	17.00	16.16
918850	220857		PM-65 & 85 Hand & Machine Torches	1	EA	29.70	28.09	26.65	25.35	
918850A	220857		PM-65 & 85 Hand & Machine Torches	1	EA	19.03	17.93	16.95	16.06	
918860	220947	(Fine cut)		1	EA	16.06	22.22	21.08	20.05	
918860A	220947	(Fine cut)		1	EA	18.18	17.13	16.19	15.35	
918870	220994	105		1	EA	28.29	26.76	25.38	24.15	
918870A	220994	105		1	EA	19.26	18.14	17.15	16.26	

Lincoln Plasma Cutter Consumables - OEM



ITEM NO.	INDUSTRY NO.	ITEM	PKG QTY	UOM	5	25	50	100
919710	S-18497-1	Plasma Cutting Nozzle	5	EA	\$21.01	\$19.91	\$18.91	\$18.01
919730	S-18752	Plasma Electrode	5	EA	12.60	11.93	11.34	10.80
					1	5	10	20
919750	KP2014-1	Drag Shield Assembly	1	EA	104.97	99.30	94.21	89.61

Miller Plasma Cutter Consumables - OEM



ITEM NO.	INDUSTRY NO.	ITEM	PKG QTY	UOM	3	25	50	100
919810	249-926	Plasma Electrode, Amps: 40	3	EA	\$9.42	\$8.92	\$8.48	\$8.07
919815	249-928	Plasma Cutting Tip, Amps: 40	3	EA	5.64	5.34	5.08	4.83
					1	5	10	20
919860	251-960	Plasma Drag Shield	1	EA	14.44	13.66	12.96	12.33

Thermal Dynamics Plasma Tips
OEM and Aftermarket



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ITEM NO.	INDUSTRY NO.	TYPE	AMPS	PKG QTY	UOM	5	25	50	100
919140A	8-7503	Drag Cutting	35	5	EA	\$6.78	\$6.39	\$6.04	\$5.73
919143A	8-7505	Cutting	70	5	EA	10.92	10.29	9.73	9.22
919146A	8-7506	Gouging		5	EA	6.80	6.41	6.05	5.74
919210	9-0093	Cutting	60	5	EA	5.99	5.99	5.39	5.13
919270	9-8210	Cutting	80	5	EA	11.32	10.72	10.19	9.70
919273	9-8211	Cutting		5	EA	10.68	10.12	9.61	9.15
919276	9-8212	Cutting	90/100	5	EA	11.32	10.72	10.19	9.70
919290	9-8228	Gouging		5	EA	13.10	12.41	11.79	11.23
919320	9-8253	Cutting		5	EA	10.17	9.63	9.15	8.71
						1	5	10	20
919310	9-8236	Drag Cutting	70/100	1	EA	8.71	33.28	31.58	30.04

Thermal Dynamics Plasma Consumables - OEM

ITEM NO.	INDUSTRY NO.	ITEM	PKG QTY	UOM	5	25	50	100
919215	9-0096	Plasma Electrode	5	EA	\$8.74	\$8.28	\$7.86	\$7.49
919265	9-8208	Plasma Consumable	5	EA	10.17	9.63	9.15	8.71
919280	9-8215	Plasma Electrode	5	EA	16.39	15.53	14.75	14.05
919380	9-8407	Plasma Electrode	5	EA	15.81	14.97	14.23	13.55
					1	5	10	15 / 20
919278	9-8213	Start Cartridge	1	EA	61.69	58.35	55.36	52.66
919283	9-8218	Plasma Shield Cup	1	EA	49.99	47.28	44.86	42.67
919315	9-8243	Plasma Consumable	1	EA	19.49	18.43	17.49	16.63
919330	9-8281	Plasma Stand-Off Guide	1	EA	69.41	65.66	62.29	59.26
					5	25	50	100
919295	9-8232	Plasma Consumable	1	EA	13.13	12.43	11.81	11.25
919298	9-8233	Plasma Consumable	1	EA	10.00	9.47	9.00	8.57
					1	5	10	20
919390	9-8422	Plasma Consumable	1	EA	50.81	48.07	45.60	43.38

Hobart Plasma Cutter Consumables
- OEM



ITEM NO.	INDUSTRY NO.	ITEM	PKG QTY	UOM	1 / 2	5	10	20
919560	770791	Plasma Cutter Electrode	2	EA	\$17.83	\$16.89	\$16.05	\$15.29
919570	770797	Plasma Cutter Tip	2	EA	11.46	10.86	10.31	9.82
919573	770798	Plasma Cutter Drag Shield	1	EA	9.82	14.97	14.21	13.51



Smith Torch Tips, Acetylene
OEM and Aftermarket

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ITEM NO.	INDUSTRY NO.	SIZE	TYPE	PKG QTY	UOM	1	5	10	20
910020	MC-12-00	00	MC-12 Slip-in Cutting Tip	1	EA	\$24.14	\$22.84	\$21.67	\$20.61
910023	MC-12-0	0	MC-12 Slip-in Cutting Tip	1	EA	20.07	18.99	18.01	17.13
910023A	MC-12-0	0	MC-12 Slip-in Cutting Tip	1	EA	10.68	10.06	9.51	9.01
910026	MC-12-1	1	MC-12 Slip-in Cutting Tip	1	EA	20.07	18.99	18.01	17.13
910026A	MC-12-1	1	MC-12 Slip-in Cutting Tip	1	EA	10.68	10.06	9.51	9.01
910029	MC-12-2	2	MC-12 Slip-in Cutting Tip	1	EA	20.07	18.99	18.01	17.13
910029A	MC-12-2	2	MC-12 Slip-in Cutting Tip	1	EA	10.06	10.06	9.51	9.01
910032	MC-12-3	3	MC-12 Slip-in Cutting Tip	1	EA	20.07	18.99	18.01	17.13
910032A	MC-12-3	3	MC-12 Slip-in Cutting Tip	1	EA	9.95	9.38	8.86	8.40
910035	MC12-4	4	MC-12 Slip-in Cutting Tip	1	EA	20.07	18.99	18.01	17.13
910035A	MC-12-4	4	MC-12 Slip-in Cutting Tip	1	EA	10.68	10.06	9.51	9.01
910038	MC-12-5	5	MC-12 Slip-in Cutting Tip	1	EA	21.93	20.74	19.68	18.72
910050	SC-12-00	00	SC-12 Preheat Cutting Tip	1	EA	17.71	16.76	15.90	15.12
910053	SC-12-0	0	SC-12 Preheat Cutting Tip	1	EA	17.71	16.76	15.90	15.12
910056	SC-12-1	1	SC-12 Preheat Cutting Tip	1	EA	24.69	24.69	22.15	21.07
910056A	SC-12-1	1	SC-12 Preheat Cutting Tip	1	EA	12.05	11.35	10.73	10.17
910059	SC-12-2	2	SC-12 Preheat Cutting Tip	1	EA	25.06	25.06	22.49	21.39
910059A	SC-12-2	2	SC-12 Preheat Cutting Tip	1	EA	12.05	11.35	10.73	10.17
910062	SC-12-3	3	SC-12 Preheat Cutting Tip	1	EA	25.06	23.70	22.49	21.39
910062A	SC-12-3	3	SC-12 Preheat Cutting Tip	1	EA	12.05	11.35	11.35	10.17
910065	SC-12-4	4	SC-12 Preheat Cutting Tip	1	EA	17.71	16.76	15.90	15.12
910065A	SC-12-4	4	SC-12 Preheat Cutting Tip	1	EA	12.05	11.35	10.73	10.17
910068	SC-12-5	5	SC-12 Preheat Cutting Tip	1	EA	21.79	20.61	19.55	18.60
910068A	SC-12-5	5	SC-12 Preheat Cutting Tip	1	EA	12.05	11.35	10.73	10.17
910071	SC-12-6	6	SC-12 Preheat Cutting Tip	1	EA	21.79	20.61	19.55	18.60

Smith Welding Tips, Acetylene
OEM and Aftermarket

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ITEM NO.	INDUSTRY NO.	DESCRIPTION	PKG QTY	UOM	1	4	8	12
910120	MW201	Medium duty	1	EA	\$46.64	\$44.12	\$41.86	\$39.82
910123	MW203	Medium duty	1	EA	46.64	44.12	41.86	39.82
910126	MW205	Medium duty	1	EA	46.64	46.64	41.86	39.82
910129	MW207	Medium duty	1	EA	50.64	47.91	45.45	43.23
910132	MW209	Medium duty	1	EA	50.64	47.91	45.45	43.23
910150	SW201	Heavy duty	1	EA	49.07	46.42	44.04	41.89
910153	SW203	Heavy duty	1	EA	49.07	46.42	44.04	41.89
910156	SW205	Heavy duty	1	EA	49.07	46.42	44.04	41.89
910159	SW207	Heavy duty	1	EA	71.23	67.38	63.92	60.80
910162	SW209	Heavy duty	1	EA	49.07	46.42	44.04	41.89
910165	SW210	Heavy duty	1	EA	85.43	80.81	76.67	72.93

Victor Torch Tips,
Acetylene



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20
910310A	1-101-000	000		1	EA	\$12.60	\$11.90	\$11.27	\$10.71
910313A	1-101-00	00	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910316A	1-101-0	0	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	7.12	6.34	6.34
910319A	1-101-1	1	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910322A	1-101-2	2	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910325A	1-101-3	3	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910328A	1-101-4	4	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910331A	1-101-5	5	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910334A	1-101-6	6	2460, CA-1060, ST, SST, & 1400C	1	EA	7.12	6.71	6.34	6.01
910340A	3-101-00	00	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66
910343A	3-101-0	0	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66
910346A	3-101-1	1	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66
910349A	3-101-2	2	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66
910352A	3-101-3	3	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66
910355A	3-101-4	4	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66
910358A	3-101-5	5	2460, CA-1060, ST, SST, & 1400C	1	EA	6.71	6.32	5.97	5.66

Smith Torch Tips, Propane
OEM and Aftermarket

ITEM NO.	INDUSTRY NO.	SIZE	TYPE	PKG QTY	UOM	1	5	10	20
910083	MC40-0	0	MC-40 Two-Piece Preheat Cutting Tip	1	EA	21.43	20.27	19.23	19.23
910086	MC40-1	1	MC-40 Two-Piece Preheat Cutting Tip	1	EA	24.33	23.01	21.83	20.77
910089	MC40-2	2	MC-40 Two-Piece Preheat Cutting Tip	1	EA	22.69	21.46	20.36	19.37
910092	MC40-3	3	MC-40 Two-Piece Preheat Cutting Tip	1	EA	24.33	23.01	21.83	20.77
910095	MC40-4	4	MC-40 Two-Piece Preheat Cutting Tip	1	EA	24.33	23.01	21.83	20.77
910100	SC40-0	0	SC-40 Two-Piece Preheat Cutting Tip	1	EA	28.99	27.42	26.01	24.74
910103	SC40-1	1	SC-40 Two-Piece Preheat Cutting Tip	1	EA	28.99	27.42	26.01	24.74
910106	SC40-2	2	SC-40 Two-Piece Preheat Cutting Tip	1	EA	28.99	27.42	27.42	24.74
910109	SC40-3	3	SC-40 Two-Piece Preheat Cutting Tip	1	EA	28.99	27.42	26.01	24.74
910112	SC40-4	4	SC-40 Two-Piece Preheat Cutting Tip	1	EA	28.99	27.42	26.01	24.74

Victor Torch Tips,
Propane



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20
910380A	1-GPN-000	000	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	\$8.26	\$7.78	\$7.36	\$6.97
910383A	1-GPN-00	00	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.26	7.78	7.36	6.97
910386A	1-GPN-0	0	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.27	7.79	7.36	6.98
910389A	1-GPN-1	1	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.26	7.78	7.36	6.97
910392A	1-GPN-2	2	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	6.97	7.78	7.36	6.97
910395A	1-GPN-3	3	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.26	7.78	7.36	6.97
910398A	1-GPN-4	4	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.26	7.78	7.36	6.97
910401A	1-GPN-5	5	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.26	7.78	7.36	6.97
910404A	1-GPN-6	6	2450, CA-1060, CAN-1060, ST, SST, STN, & 1400C	1	EA	8.26	7.78	7.36	6.97
910410A	3-GPN-000	000		1	EA	8.27	7.79	7.36	6.98
910413A	3-GPN-00	00		1	EA	8.26	7.78	7.36	6.97
910416A	3-GPN-0	0		1	EA	6.97	7.78	7.36	6.97
910419A	3-GPN-1	1		1	EA	8.26	7.78	7.36	6.97
910422A	3-GPN-2	2		1	EA	8.26	7.78	7.36	6.97
910425A	3-GPN-3	3		1	EA	8.26	7.78	7.36	6.97
910428A	3-GPN-4	4		1	EA	8.26	7.78	7.36	6.97

Harris Torch Tips, Acetylene

• The letter 'A' after an item number indicates that this is not an OEM product (AKA 'after-market').



ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20
910510A	6290-000	000		1	EA	\$5.88	\$5.54	\$5.23	\$5.23
910513A	6290-00	00		1	EA	5.88	5.54	5.23	4.96
910516A	6290-0	0		1	EA	5.88	5.54	5.23	4.96
910519A	6290-1	1		1	EA	5.88	5.88	5.23	4.96
910522A	6290-2	2		1	EA	5.88	5.88	5.23	4.96
910525A	6290-3	3		1	EA	5.88	5.54	5.23	4.96
910528A	6290-4	4		1	EA	5.88	5.54	5.23	4.96
910531A	6290-5	5		1	EA	5.88	5.54	5.23	4.96



Harris Torch Tips, Propane

ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20
910550A	6290-NX-000	000		1	EA	\$5.69	\$5.36	\$5.07	\$4.81
910553A	6290-NX-00	00		1	EA	5.69	5.36	5.07	4.81
910556A	6290-NX-0	0		1	EA	5.69	5.36	5.07	4.81
910559A	6290-NX-1	1		1	EA	5.69	5.36	5.07	4.81
910562A	6290-NX-2	2		1	EA	5.69	5.36	5.07	4.81
910565A	6290-NX-3	3		1	EA	5.69	5.36	5.07	4.81
910568A	6290-NX-4	4		1	EA	5.69	5.36	5.36	4.81
910571A	6290-NX-5	5		1	EA	5.86	5.52	5.22	5.22
910574A	6290-NX-6	6		1	EA	5.69	5.36	5.07	4.81



Purox Torch Tips, Acetylene

ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20
910710A	4202-2	2		1	EA	\$6.20	\$5.84	\$5.52	\$5.23
910713A	4202-3	3		1	EA	6.20	5.84	5.52	5.23
910716A	4202-4	4		1	EA	6.20	5.84	5.52	5.23
910719A	4202-5	5		1	EA	6.20	5.84	5.52	5.23
910722A	4202-7	7		1	EA	6.20	5.84	5.84	5.23
910725A	4202-9	9		1	EA	5.78	5.45	5.15	4.88
910728A	4202-11	11		1	EA	6.20	5.84	5.52	5.23



Airco Torch Tips, Acetylene

ITEM NO.	INDUSTRY NO.	SIZE	FOR USE ON	PKG QTY	UOM	1	5	10	20
910810A	164-00	00		1	EA	\$8.02	\$7.55	\$7.14	\$6.77
910813A	164-0	0		1	EA	8.02	7.55	7.14	6.77
910816A	164-1	1		1	EA	8.02	7.55	7.14	6.77
910819A	164-2	2		1	EA	8.02	7.55	7.14	6.77
910822A	164-3	3		1	EA	8.02	7.55	7.14	6.77
910825A	164-4	4		1	EA	8.02	7.55	7.14	6.77



Silver-Streak® Metal Marker & Refill

* OUR MOST POPULAR METAL MARKER!

- This metal marker is far superior to soapstone.
- Marks are resistant to rubbing/burning/blowing off surface.
- Highly visible marks illuminate while cutting or welding.
- Marks on oily, wet, or rusty metals.
- Use for steel and iron, aluminum, and stainless steel.
- Durable, shatter-resistant mechanical holder prevents stick breakage and features a convenient built-in sharpener and metal pocket clip.
- One lead stick included.
- Refill pack includes 6 lead sticks.



ITEM NO.	DESCRIPTION	1	6	12	24	48
964700	Silver-Streak marker	\$9.94	\$9.39	\$8.89	\$8.45	\$8.05
964705	Refills (pack of 6 leads)	7.22	6.82	6.46	6.14	5.85

Valve Action® Paint Markers

- For general marking.
- Fast-drying permanent paint for immediate handling.
- Dura-Nib medium bullet tip resists wear to provide long marking life.
- Durable metal barrel and clip-cap reduce breakage and store easily in pocket.



ITEM NO.	COLOR	MARK SIZE	1	12	48	96
964251	White	1/8"	\$3.39	\$3.21	\$3.04	\$2.89
964256	Yellow	1/8"	3.39	3.21	3.21	2.89
964261	Red	1/8"	3.39	3.21	3.04	2.89
964266	Black	1/8"	3.39	3.21	3.04	2.89
			1	2	3	4
964250	24 pc. Countertop Display: 8 white, 8 yellow, 4 red, 4 black		83.12	78.91	75.11	71.66

Markal® PRO Mechanical Holder

- Extended, needle-nose tip for tight and hard-to-reach areas.
- Heavy-duty metal construction for use in the toughest jobs.
- 1-click advance for just the right amount of lead.
- Easily refillable for continued use.
- Built-in sharpener for precise marks.
- Use on metal, wood, plastic, PVC, tile, ceramic, glass, stone, block and paper.
- Industries: construction, welding, metal fabrication, maintenance services, lumber and timber industry.
- Use only with Markal PRO refills.
- One starter lead (graphite) included with holder.
- Refill packs includes 6 lead sticks.



ITEM NO.	DESCRIPTION	1	3	6	12	24
964730	PRO marker + 1 lead	\$18.72	\$17.55	\$16.51	\$15.60	\$14.78
	PRO REFILLS, PACK OF 6	1 pack	3	6	12	24
964733	Silver Streak®	22.34	21.10	19.99	18.99	18.08
964736	Red Riter®	12.06	-	11.39	10.79	10.25
964739	Multi-Pack	11.82	-	11.17	10.58	10.05

PRO-LINE® HP Paint Markers

- For oily surface marking.
- Unique paint formula resists spreading and dries quickly through oily surfaces to leave precise, permanent marks.
- Durable metal barrel and nib reduce breakage for longer marking life.
- Easy-to-grip clip-cap allows for convenient pocket storage.



ITEM NO.	COLOR	MARK SIZE	1	12	48	96	144
964511	White	1/8"	\$4.00	\$4.00	\$3.58	\$3.40	
964516	Yellow	1/8"	-	3.78	3.58	3.40	
964521	Red	1/8"	4.00	3.78	3.58	3.40	
964526	Black	1/8"	4.00	3.78	3.58	3.40	
964531	Orange	1/8"	4.00	3.78	3.58	3.40	
964536	Silver	1/8"	4.58	4.33	4.10	3.90	
			1	12	24	48	
964401	White	FINE 1/16"	4.09	3.86	3.66	3.48	
964406	Green	FINE 1/16"	4.09	3.86	3.66	3.48	

DURA-INK® Markers

- Industrial-grade ink markers for metal, cardboard, plastic, glass, lumber, cloth etc.
- Durable, lightweight, impact-resistant barrels with tough tips that resist spreading or mushrooming.



ITEM NO.	COLOR	MARK SIZE	1	12	24	48	96
964011	Black	1mm - MICRO	\$3.81	\$3.60	\$3.41	\$3.24	-
964021	Black	1/16" - 3/16"	2.09	1.97	-	1.87	1.77
964041	Black	3/8" - 5/8"	4.77	4.51	4.27	4.06	-



Welder's Pencils

- Makes torch-resistant marks that illuminate when cutting or welding.
- Ideal for metal layout and fabrication work.
- Sold per piece, in package quantity only (12 per box).



ITEM NO.	DESCRIPTION	12	36	72	144
964710	Red-Riter® red pencil	\$0.82	\$0.78	\$0.74	\$0.74
964715	Silver-Streak® silver pencil	0.82	0.78	0.78	0.70



Sharpie® Original Markers

- Sharpie Original fine point black permanent markers, in a 36-count canister for countertop sales.

ITEM NO.	DESCRIPTION	1	2	4	8
965059	36 count display canister	\$44.23	\$41.84	\$39.70	\$37.76

Sharpie® PRO Industrial Markers

- A professional permanent marker that withstands extreme heat or steam up to 500° F.
- Fine point.
- Sold per piece, in package quantity only (12 per box).



ITEM NO.	DESCRIPTION	12	36	72	144
964000	PRO Industrial, black	\$1.91	\$1.81	\$1.71	\$1.63



J-B Weld

- J-B WELD is an easy, convenient, and inexpensive alternative to welding. J-B Weld will bond to virtually any clean, dry surface including: iron, steel, copper, aluminum, brass, bronze, pewter porcelain, ceramic, marble, glass, concrete, fiberglass, wood, some plastics and more.
- STEELSTIK formula is a hand knead-able, steel-reinforced epoxy putty adhesive/sealant that will plug holes and make repairs on wet and dry surfaces. Will cure even when completely submerged in water or gasoline.
- MARINE WELD formula is as strong as steel and water- and weather-proof.
- KWIK formula has a set time of only 4 minutes.
- WATER WELD formula is an epoxy putty that will plug holes and make permanent repairs in moist surface or underwater applications. Will even repair leaking fuel tanks. Approved for use with potable water.

ITEM NO.	DESCRIPTION	1	6	12	24
228700	ORIGINAL COLD WELD™ Formula	\$6.80	\$6.42	\$6.08	\$5.78
228703	STEELSTIK™ Universal Epoxy Putty	6.37	6.02	5.70	5.42
228706	MARINE WELD™ Welding Compound	5.88	5.56	5.26	5.00
228709	KWIK® Welding Compound	5.00	6.52	6.17	5.87
228712	WATER WELD Epoxy Stick	6.89	6.50	6.16	5.85
		1	3	6	9
228715	INDUSTRO WELD Cold Welding Compound, (2) 5 oz Tubes - Boxed, Price Per Box	12.09	11.42	10.82	10.28



Metabo® W9-115 Quick Angle Grinder

- Powerful 8.5 amp Long Life motor with patented dust guard, up to 20% more high overload capacity and 50% more torque.
- Ergonomically designed body and handle make for lower fatigue and increased productivity.
- The Metabo M-Quick System allows for quick disc change at the touch of a button, without tools.
- Features tool-free and twist-proof adjustable guard.
- Metabo S-automatic Torque Limiting Clutch minimizes kick-back to the lowest level when the disc jams unexpectedly – for maximum user protection and swift progress.
- Gear housing can be mounted turned in 90° steps for left-handed or cutting operations.
- No-load RPM: 10500, At rated load RPM: 7500, Torque: 22 in-lbs
- Spindle thread: 5/8"-11 UNC, Weight: 4.6 lbs [w/o cord], Cord length: 8'

ITEM NO.	DESCRIPTION	1	2	4	6
220410	4-1/2" Angle Grinder	\$208.93	\$197.63	\$187.50	\$178.35





For over 70 years WILTON® has been making some of the highest quality vises available. From the jumbo USA-made Machinist Vise with a jaw capacity of 12", to the smallest vise with a vacuum-mount base, Wilton® is a brand that is designed to be relied on. Wilton® also offers a wide range of L-clamps & C-clamps in addition to pipe wrenches and the new unbreakable Wilton® B.A.S.H. sledge hammers. Call us for more information on any of these Wilton® products.

HOLDING STRONG SINCE 1941



Combo Pipe & Bench Vise

• Combo Pipe & Bench Vise - Wilton's Workhorse. This serious duty vise features the Wilton Bullet sealed design; fully enclosed to protect all internal components and lifetime lubricated for trouble free service. Virtually indestructible 60,000 PSI ductile iron body, two times the strength of grey casted vises. Precision slide bar keyed for a .003" fit, eliminating movement in the front jaw regardless of opened distance. Extra-deep throat for large jobs. Self-centering pipe jaws are ideal for irregularly shaped objects. Longer spindle nut, larger anvil, and 4 bolt mounting pattern sets this vise apart from average. Ideal for plant maintenance, oil field service, heavy construction, mechanical trades, steel fabrication.

* LIFETIME WARRANTY!

ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	3	4
288001	C-0	3-1/2"	4-1/2"	5"	1/8" - 2-1/2"	\$988.75	\$941.67	\$941.67	\$859.78
288002	C-1	4-1/2	4-3/4	6	1/8" - 3-1/2"	1,391.46	1,342.35	1,296.59	1,253.85
288003	C-2	5	5-5/16	7	1/8" - 4-1/2"	1,803.66	1,740.00	1,680.68	1,625.27
288004	C-3	6	6-5/8	9	1/4" - 6"	2,642.68	2,549.41	2,462.50	2,381.32



Tradesman Vise

• The Tradesman vise is the #1 industrial bench vise in the USA. It features Wilton's trademarked 'Bullet' design which completely seals internal components from dust and debris. It also features a 60,000 PSI ductile iron body which makes this vise virtually indestructible with 2x the strength of grey casted vises. Reversible jaw inserts give you the option of standard serrated jaws for extra grip or smooth to prevent marring on softer surfaces. Steel pipe jaws grip irregular objects. Large anvil takes the beating of forming and shaping materials. Precision slide bar provides dependable operation. Ideal for metal fabrication, automotive, construction sites, service and MRO, utility.

* LIFETIME WARRANTY!

ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	3	4
288011	1745	4-1/2"	3-1/4"	4"	1/4" - 2-1/2"	\$988.75	\$941.67	\$898.86	\$859.78
288012	1755	5-1/2	3-3/4	5	1/4" - 3"	710.00	676.19	645.45	617.39
288013	1765	6-1/2	4	6-1/2	1/4" - 3-1/2"	791.25	753.57	719.32	688.04
288014	1780A	8	4-3/4	7	1/8" - 3-1/2"	1,182.50	1,126.19	1,075.00	1,028.26



Mechanics Vise

- Built for serious mechanics. Features hardened steel jaws, sealed construction, industrial 360 degree locking swivel base, precision slide handle, and four mounting posts.
- 30,000 PSI DUCTILE IRON BODY:
- Heavy-duty castings are built for rugged use and extended life
- LIFETIME LUBRICATION: Grease is permanently sealed in for trouble-free service
- IDEAL FOR:
 - Professional mechanics
 - Automotive maintenance
 - Maintenance and repair



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	3	4
288021	744	4"	3-7/16"	4-1/2	1/4" - 2"	\$710.00	\$676.19	\$645.45	\$617.39
288022	745	5	3-3/4	5-1/4	1/4" - 2-1/2"	404.05	383.33	364.63	347.67
288018	HI-VIS	5	3-3/4	5-1/4	1/4" - 2-1/2"	393.24	373.08	354.88	338.37
288023	746	6	4-1/8	5-3/4	1/4" - 3-1/2"	510.67	484.81	461.45	440.23
288019	HI-VIS	6	4-1/8	5-3/4	1/4" - 3-1/2"	532.00	505.06	480.72	458.62
288024	748A	8	4-3/4	8-1/4	1/4" - 3-1/2"	688.75	655.95	626.14	598.91



Reversible Mechanics Vise

- Similar to the above but with reversible jaws to open an incredible 11-3/4" (model WI-14800) when reversed.
- 30,000 PSI DUCTILE IRON BODY:
- Heavy-duty castings are built for rugged use and extended life
- LIFETIME LUBRICATION:
 - Grease is permanently sealed in for trouble-free service
- DUAL ANVILS
- Two working anvil surfaces for forming and shaping materials



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	3	4
288031	4500	5-1/2"	3-3/4" / 2-3/4"	6" / 9-3/4"	1/4" - 2"	\$312.16	\$296.15	\$281.71	\$268.60
288032	4600	6-1/2"	4" / 3"	8" / 9-3/4"	1/8" - 3-1/2"	391.89	371.79	353.66	337.21
288033	4800	8"	5" / 2-3/4"	9-1/2 / 11-3/4	1/8" - 4-1/2"	462.67	439.24	418.07	398.85



Shop Vise

- An excellent workbench vise with pipe jaws, polished anvil, and 4-hole base.
- HARDENED STEEL JAWS:
- Replaceable jaws are furnished with a serrated pattern
- DOUBLE LOCK DOWNS:
- 2 lockdowns for a sturdier base and less rotation
- 360° LOCKING SWIVEL BASE
- 360° swivel ability for ideal positioning on workbench



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	4	6
288036	WS4	4"	2-3/4"	4"	5/8" - 2"	\$189.04	\$179.22	\$170.37	\$162.35
288037	WS5	5"	3"	5"	1/4" - 2-1/4"	225.68	214.10	203.66	194.19
288038	WS6	6"	3-1/2"	6"	1/4" - 3"	327.03	310.26	295.12	281.40
288039	WS8	8"	4"	8"	3/4" - 3"	485.33	460.76	438.55	418.39



Utility Vise

- A general purpose vise ideal for utility and service.
- Replaceable steel jaws with serrated pattern to insure strength and long life. Large anvil is designed to take a pounding while forming and shaping materials. 180° locking swivel base, 4 mounting holes.



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	4	6
288045	674	4-1/2"	2-5/8"	4"	1/8" - 2"	\$167.12	\$158.44	\$150.62	\$143.53
288046	675	5-1/2"	3-1/4"	5"	1/8" - 2-1/2"	202.70	192.31	182.93	174.42
288047	676	6-1/2"	3-13/16"	5-1/2"	1/8" - 2-1/2"	275.68	261.54	248.78	237.21
288048	656HD	6-1/4"	4-3/8"	6"	1/8" - 3"	368.92	350.00	332.93	317.44
288049	648HD	8"	4-1/2"	7-1/2"	1/8" - 3"	510.67	484.81	461.45	440.23



HITCH2BENCH
TECHNOLOGY



ATV® All-Terrain Vise

- For jobs that demand function, strength, and mobility, the innovative design of the WILTON® ATV® vise will fill the need. Mounts instantly in the hitch receiver on the back of a truck (hitch pin included), or mount the included mounting bracket on your workbench or trailer. Water resistant sealed design protects internal components from water and debris. Patented 360° locking handle allows you to secure the handle while driving. “Drive Tight” set screws are designed to provide a tight fit in the hitch and reduce vibration while driving. Replaceable jaws feature a unique v-groove for vertical clamping of round objects. Integrated carrying handle for balanced carrying. Large striking anvil. Pipe jaws. Ideal for construction, automotive, and farm and ranch. Weight: 33.4 lb. Clamping force: 1 ton. #288008 includes a quality carrying case.



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	PIPE JAW CAPACITY	1	2	3	4
288007	ATV	6"	5"	5-3/4"	3/4" - 3"	\$320.27	\$303.85	\$289.02	\$275.58
288008	ATV w/case	6"	5"	5-3/4"	3/4" - 3"	400.00	379.49	360.98	344.19
288009	ATV	5"	4-1/4"	6"	7/8" - 3"	239.19	226.92	215.85	205.81

2 Axis Drill Press Vise

- Cross slide drill press vise for accurate in-line drilling.
- Accurately moves your workpiece horizontal and longitudinal for precise positioning
- Cast side knobs accurately dial in .1mm increments
- Hardened V Grooved Jaws hold round shaped objects both vertically and horizontally
- Durable construction with fine grain cast iron castings
- Black oxide coated screw provides consistent clamping pressure
- Durable base has 5 bolt lugs for easy mounting on a machine table



ITEM NO.	MODEL	JAW WIDTH	JAW OPENING	JAW DEPTH	X- & Y-TRAVEL	1	2	3	4
288101	CS3	3"	3"	1-1/8"	4-9/10"	\$149.32	\$141.56	\$134.57	\$128.24
288102	CS4	4"	4"	1-3/8"	4-9/10"	176.71	176.71	159.26	151.76
288103	CS5	5"	5"	1-1/2"	5-9/10"	285.14	270.51	257.32	245.35
288104	CS6	6"	6"	2"	7-9/10"	375.68	356.41	339.02	323.26
288105	CS8	8"	8"	2"	7-9/10"	648.00	615.19	585.54	558.62



Machinist Vise

- Wilton's Original Vise. Features the Wilton Bullet sealed design; fully enclosed to protect all internal components and lifetime lubricated for trouble free service. Virtually indestructible 60,000 PSI ductile iron body, two times the strength of grey-casted vises. Precision slide bar keyed for a .003" fit, eliminating movement in the front jaw regardless of opened distance. Up to 12" jaw opening for jobs demanding maximum holding capacity. Large anvil is designed to take a pounding while forming and shaping materials. Ideal for machine shops, automotive maintenance, maintenance and repair, and metal fabrication.



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	BASE	1	2	3	4
288066	300N	3"	2-5/8"	4-3/4"	Stationary	\$594.93	\$564.81	\$537.59	\$512.87
288067	400N	4"	3-1/2"	6-1/2"	Stationary	721.44	687.08	655.85	627.34
288068	500N	5"	4-1/4"	8"	Stationary	1,453.66	1,402.35	1,354.55	1,309.89
288069	600N	6"	5-1/2"	10"	Stationary	1,401.77	1,352.29	1,306.19	1,263.13
288070	800N	8"	5-13/16"	12"	Stationary	3,684.82	3,554.76	3,433.58	3,433.58
288061	300S	3"	2-5/8"	4-3/4"	Swivel	788.75	751.19	717.05	685.87
288062	400S	4"	3-1/2"	6-1/2"	Swivel	948.75	903.57	862.50	825.00
288063	500S	5"	4-1/4"	8"	Swivel	1,453.66	1,402.35	1,354.55	1,309.89
288064	600S	6"	5-1/2"	10"	Swivel	1,928.05	1,860.00	1,796.59	1,737.36
288065	800S	8"	5-13/16"	12"	Swivel	3,773.54	3,640.35	3,516.25	3,400.33



General Purpose Vise

- A general purpose vise ideal for the home shop or weekend projects.
- Diamond serrated jaw face for positive gripping. Features swivel base with double lock down screws, and built-in anvil. This truly is a WEEKEND WARRIOR.

ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	WEIGHT (LBS)	1	3	6	9
288051	--	4"	2-1/4"	4"	16	\$97.22	\$92.11	\$87.50	\$83.33
288052	--	5"	2-1/2"	5"	27	156.16	148.05	140.74	134.12
288053	--	6"	3"	6"	39	212.16	201.28	191.46	182.56

Super Juniors

- The WILTON MINI BULLET, a junior version of the popular bullet-design vises listed on previous pages [e.g. Tradesman, Machinist]. The jaws are replaceable and grooved for strong holding action. Features 45° swivel base and double lockdowns for quick and easy positioning in any working position.



ITEM NO.	MODEL	JAW WIDTH	THROAT DEPTH	MAX OPENING	BASE	1	2	4	6
288041	CBV-65	2-1/2"	1-3/4"	2-1/8"	Clamp-On	\$130.14	\$123.38	\$117.28	\$111.76
288043	SBV-65	2-1/2"	1-3/4"	2-1/8"	Swivel	112.33	106.49	101.23	96.47
288042	CBV-100	4"	2"	2-1/4"	Clamp-On	154.79	146.75	139.51	132.94
288044	SBV-100	4"	2"	2-1/4"	Swivel	124.66	118.18	112.35	107.06



WILTON B.A.S.H SLEDGE HAMMERS

WILTON® B.A.S.H Hammers

The world's most durable hammers

UNBREAKABLE™ TECHNOLOGY

- Steel core design prevents breaking during overstrikes

NO-SLIP GRIP

- Textured handle for secure grip while striking

ANTI-VIBE NECK

- Ergonomically designed to prevent injury from repeated job site use

FLAT HEAD

- Conveniently designed to stand upright for easy reach



Break the handle under normal wear and tear and receive \$1,000.*

*Within the first 2 years.



Sledge Hammers

- Hi-vis green head, drop forged 46 hrc head endures the most demanding applications and adds instant identification.
- Safety plate secures head to handle preventing head dislodging.



ITEM	HEAD SIZE	HANDLE LENGTH	1	4	8	12
202010	2-1/2 lbs	12"	\$58.33	\$55.26	\$52.50	\$50.00
202020	4 lbs	12"	65.28	61.84	58.75	55.95
202030	4 lbs	16"	76.39	72.37	68.75	65.48
202040	4 lbs	24"	96.67	91.58	87.00	82.86
202050	6 lbs	16"	95.83	90.79	86.25	82.14
202060	6 lbs	24"	102.74	97.40	92.59	88.24
202070	6 lbs	30"	113.70	107.79	102.47	97.65
202080	6 lbs	36"	119.18	112.99	107.41	107.41
202090	8 lbs	16"	109.59	103.90	98.77	94.12
202100	8 lbs	24"	117.81	111.69	106.17	101.18
202110	8 lbs	30"	126.03	119.48	113.58	108.24
202120	8 lbs	36"	136.99	129.87	123.46	117.65
			1	3	6	9
202130	10 lbs	16"	132.88	125.97	119.75	114.12
202140	10 lbs	24"	143.84	136.36	129.63	123.53
202150	10 lbs	30"	146.58	138.96	132.10	125.88
202160	10 lbs	36"	153.42	145.45	138.27	131.76
202170	12 lbs	24"	158.90	150.65	143.21	136.47
202180	12 lbs	30"	165.75	157.14	149.38	142.35
202190	12 lbs	36"	178.08	168.83	160.49	152.94
			1	2	4	6
202200	14 lbs	24"	183.56	174.03	165.43	157.65
202210	14 lbs	30"	189.04	179.22	170.37	162.35
202220	14 lbs	36"	195.89	185.71	176.54	168.24
202230	20 lbs	24"	251.35	238.46	226.83	216.28
202240	20 lbs	30"	248.65	235.90	224.39	213.95
202250	20 lbs	36"	258.11	244.87	232.93	232.93

Soft Face Sledge Hammers

- Same features as the regular BASH sledge hammers, with a 30HRC head specifically designed to mushroom when striking hard base materials.
- Key applications: mining, railroads, cutting tools, and maintenance on hard metal surfaces.



ITEM NO.	HEAD SIZE	HANDLE LENGTH	1	4	8	12
202310	2-1/2 lbs	12"	\$58.33	\$55.26	\$52.50	\$50.00
202320	4 lbs	12"	65.28	61.84	58.75	55.95
202330	4 lbs	16"	76.39	72.37	68.75	65.48
202340	6 lbs	24"	102.74	97.40	92.59	88.24
202350	6 lbs	36"	119.18	112.99	107.41	102.35
202360	8 lbs	24"	121.92	115.58	109.88	104.71
202370	8 lbs	36"	136.99	129.87	123.46	117.65
			1	3	6	9
202380	10 lbs	36"	154.79	146.75	139.51	132.94
202390	12 lbs	36"	172.60	163.64	155.56	148.24
202400	14 lbs	36"	187.67	177.92	169.14	161.18

Ball- and Cross-Pein Hammers

- Same features as the regular BASH sledge hammers.
- Key applications: Ball Pein: light forging, bending, forming, and round peining. Cross Pein: forging, bending, shaping, and cross peining.



ITEM NO.	HEAD SIZE	HANDLE LENGTH	1	3	6	12
BALL PEIN						
302016	24 oz	14"	\$54.17	\$51.32	\$48.75	\$46.43
302017	32 oz	14"	61.11	57.89	55.00	52.38
302018	48 oz	14"	70.00	66.22	62.82	59.76
CROSS PEIN						
302011	32 oz	16"	61.11	57.89	55.00	52.38
302012	48 oz	16"	73.61	69.74	66.25	63.10

Brass Sledge Hammers

- Same features as the regular BASH sledge hammers, with a non-sparking brass head for use near combustible materials and non-marring to reduce work damage.
- Key applications: near combustible materials, and where surface protection is required.



ITEM NO.	HEAD SIZE	HANDLE LENGTH	1	3	6	12
202510	2-1/2 lbs	12"	\$120.55	\$114.29	\$108.64	103.53
202520	4 lbs	12"	158.90	150.65	143.21	136.47
202530	4 lbs	16"	168.49	168.49	151.85	144.71
202540	6 lbs	16"	228.38	216.67	206.10	196.51
202550	8 lbs	16"	301.35	285.90	271.95	259.30
202560	8 lbs	30"	329.73	312.82	297.56	283.72

Dead Blow Hammers

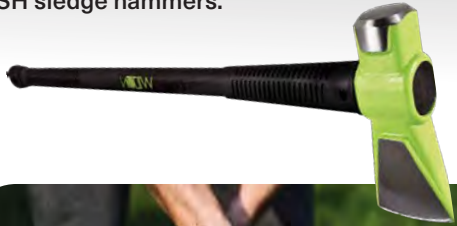
- Same features as the regular BASH sledge hammers.
- Dead blow eliminates bounce-back.
- Spark-resistant – safe for use near combustible materials; no exposed metal on face, head, or shaft.
- Soft face helps prevent marring.
- Key applications: automotive, metal fabrication, oil and mining, wood and metal assembly, aerospace.



ITEM NO.	HEAD SIZE	HANDLE LENGTH	1	3	6	12
202570	1-1/2 lbs	14"	\$55.56	\$52.63	\$50.00	\$47.62
202573	2 lbs	14"	59.72	56.58	53.75	51.19
202576	3 lbs	14"	66.67	63.16	60.00	57.14
202579	4 lbs	16"	88.89	84.21	80.00	76.19
202582	8 lbs	30"	126.03	119.48	113.58	108.24

Splitting Mauls

- Same features as the regular BASH sledge hammers.



ITEM NO.	HEAD SIZE	HANDLE LENGTH	1	3	6	9
202600	6 lbs	36"	136.99	129.87	123.46	117.65
202603	8 lbs	36"	158.90	150.65	143.21	136.47

Ductile Iron Pipe Wrench

- A heavy-duty pipe wrench that's built to last.
- Drop-forged upper and lower jaws with a floating hook jaw with spring suspension for easier gripping.



ITEM NO.	LENGTH	CAPACITY	1	3	6	12
223750	10"	1-1/2"	\$17.18	\$16.28	\$15.46	\$14.73



WILTON B.A.S.H.
SLEDGE HAMMERS

HAMMER
KITS



Mechanics kit (#202260) includes:

- #202020: 4 Lb Head, 12" Handle B.A.S.H® Sledge Hammer
- #302017: 32 Oz Head, 14" Handle B.A.S.H® Ball Pein Hammer
- #302011: 32 Oz Head, 16" Handle B.A.S.H® Cross Pein Hammer



Shop kit (#202270) includes:

- #202020: 4 Lb Head, 12" Handle B.A.S.H® Sledge Hammer
- #302017: 32 Oz Head, 14" Handle B.A.S.H® Ball Pein Hammer
- #202579: 4 Lb Head, 16" Handle B.A.S.H® Dead Blow Hammer



Dead blow kit (#202585) includes:

- #202573: 2 Lb Head, 14" Handle B.A.S.H® Dead Blow Hammer
- #202576: 3 Lb Head, 14" Handle B.A.S.H® Dead Blow Hammer
- #202579: 4 Lb Head, 16" Handle B.A.S.H® Dead Blow Hammer



ITEM NO.	DESCRIPTION	1 kit	2	4	6
202260	3-Pc Mechanics kit	\$142.47	\$135.06	\$128.40	\$122.35
202270	3 Pc Shop kit	168.49	159.74	151.85	144.71
202585	3 Pc Dead blow kit	168.49	159.74	151.85	144.71

HRC-40 Bolt Cutters

- JET Bolt Cutters incorporate high-carbon alloy tool steel jaws for cutting concrete-reinforcing rods, medium tensile and soft bolts, rods, rivets, bars, and chains.
- HRC-40 -- cuts materials up to a 40 Rockwell Hardness for industrial applications.
- Rubber gripped all steel handles are angled for maximum leverage, reducing operator fatigue.



ITEM NO.	HANDLE LENGTH	CAPACITY	1	3	6	12
223700	12"	3/16"	\$25.67	\$24.32	\$23.10	\$22.00
223703	14"	1/4"	34.72	32.89	31.25	29.76
223706	18"	5/16"	40.28	38.16	36.25	34.52
223709	24"	3/8"	48.96	46.38	44.06	41.96
223712	30"	1/2"	64.93	61.51	58.44	55.65
223715	36"	5/8"	83.33	78.95	75.00	71.43
223718	42"	3/4"	120.97	120.97	108.88	103.69

HRC-48 Bolt Cutters

- Similar to the above but cuts up to 48 Rockwell hardness. Red jaws and heads.

ITEM NO.	HANDLE LENGTH	CAPACITY	1	3	6	12
223724	14"	1/4"	\$25.60	\$24.25	\$23.04	\$21.94

JCP Series Cable Pullers

- JET JCP Series cable pullers incorporate proven industrial designs that lift, lower, stretch or pull heavy loads.
- Concealed spring lever control to prevent accidental release.
- Aircraft quality 3/16" cable (1/4" on JCP-4).
- Maximum lift on JCP-1 is 12 ft. JCP-2 and JCP-4 have a snatch block included and maximum lift is 5 ft.



ITEM NO.	DESCRIPTION	1	3	6	12
230100	JCP-1: 1-ton, 18:1 ratio	\$42.79	\$40.42	\$38.29	\$36.38
230103	JCP-2: 2-ton, 36:1 ratio	55.56	52.63	50.00	47.62
230106	JCP-4: 4-ton, 36:1 ratio	86.11	81.58	77.50	73.81

AV's® Offset Forged Snips

- Forged steel upper and lower jaws with torsion handle spring and latch.
- Power-Fit™ performance hand grips.
- 18-gauge capacity (in galvanized or mild steel).
- Limited lifetime warranty.



ITEM NO.	DESCRIPTION	1	6	12	24
223221	Offset, Left-hand (red)	\$20.97	\$19.91	\$18.95	\$18.08
223228	Offset, Right-hand (green)	20.97	19.91	18.95	18.08

AV's® Aviation Snips

- Traditional design with forged steel jaws, torsion handle spring and side latch.

ITEM NO.	DESCRIPTION	1	6	12	24
223200	Left-hand	\$16.29	\$15.47	\$14.72	\$14.05
223207	Right-hand	16.29	15.47	14.72	14.05
223214	Combination	14.64	13.90	13.23	12.62



Palmgren's high-tech line of C-clamps gives you performance and features that count. Built from state-of-the-art research, computer aided design, and new all-steel spring tempered frame geometry—coupled with an advanced heat treating process creates C-clamps that provide a secure and accurate hold. Palmgren's all steel clamps are cost effective, versatile, durable and long lasting.

- High strength
- Lower weight
- Lifetime guarantee against breakage
- Innovative spring tempered steel frames
- Black-oxide plated spindles resist wear and tear while impeding rust
- Hardened steel spindles provide greater loading capabilities and longer service life
- Bodies have a nickel and chrome plated finish
- Replaceable swivel pads

Standard Duty L-Clamps

- One clamp accommodates a wide variety of sizes and shapes of workpieces.
- Innovative spring tempered and hardened steel frames optimizes high static stress loadings.
- Drop forged sliding clamping arm for added strength and durability.



ITEM NO.	NOMINAL OPENING CAPACITY	THROAT DEPTH	SPINDLE DIAMETER	CLAMPING PRESSURE (LBS)	WEIGHT (LBS)	1	3	6	12
140940	0 - 4"	2-3/8"	1/2"	600		\$22.06	\$20.83	\$19.74	\$18.75
140943	0 - 6"	3-5/32"	9/16"	700		27.94	26.39	25.00	23.75
140946	0 - 8"	3-15/16"	5/8"	1000		37.50	35.42	33.55	31.88
140949	0 - 10"	3-15/16"	5/8"	1200		44.12	41.67	39.47	37.50
140952	0 - 12"	3-15/16"	3/4"	1200		58.82	55.56	52.63	50.00
140955	0 - 16"	3-15/16"	3/4"	1650		58.82	55.56	52.63	50.00



400 Series™ Hargrave C-Clamps

- V-grooved anvil allowing for secure holding of all materials including rounds, squares, & flats.
- Ideal for: steel fabrication, production, industrial maintenance, & repair operations.
- By WILTON®.

ITEM NO.	NOMINAL OPENING CAPACITY	THROAT DEPTH	SPINDLE DIAMETER	CLAMPING PRESSURE (LBS)	WEIGHT (LBS)	1	3	6	9
140120	0 – 12"	5-3/4"	7/8"	9500		\$113.39	\$107.35	\$101.91	\$97.00



AUTOMATIC LOCKING PLIERS AND CLAMPS

- Grab thick or grab thin without adjusting – patented locking mechanism automatically adjusts the jaws to any size object without having to adjust a knob.
 - Set and Forget™ pressure control – turn clockwise to increase pressure and counterclockwise to decrease pressure.
 - Lifetime warranty.
- * Armor Tool clamps are available only while supplies last!



AUTO-ADJUST PLIERS

- * 7x Faster...
- * 100% Easier!

Automatic Adjusting Locking Pliers



ITEM NO.	OAL	TYPE	1	4	8	16	32
031011	6"	Curved jaw	\$16.65	\$15.78	\$14.99	\$14.27	\$13.78
031021	10"	Curved jaw	22.49	21.30	20.24	19.27	18.61
031101	7"	Needle-nose	17.99	17.04	16.19	15.42	14.89

Automatic Adjusting Long-Reach C-Clamp



ITEM NO.	OAL	TYPE	1	6	12	24	36
031241	10"	Regular tip	\$22.49	\$21.30	\$20.24	\$19.27	\$18.61
031261	19"	Regular tip	36.43	34.51	32.79	31.23	30.15
031271	19"	Swivel pad	37.29	35.33	33.56	31.96	30.86

Automatic Adjusting C-Clamp



ITEM NO.	OAL	TYPE	1	6	12	24	36
031201	7"	Swivel pad	\$20.82	\$19.72	\$18.74	\$17.85	\$17.23
031211	7"	Regular tip	18.24	17.28	16.41	15.63	15.09

The IRWIN® WISE-GRIP® brand is legendary. Professional tradesmen have trusted the strength and durability of WISE-GRIP pliers since 1924. With proven performance in every turn, these are the tools that tradesmen choose first – and pass on to the next generation.

The Original™ Curved Jaw Locking Pliers with Wire Cutter

- The Original – Since 1924.
- Curved jaw with built-in wire cutter is great for a variety of applications and material shapes.



ITEM NO.	DESCRIPTION	1	10	20	50	100
222000	4WR, 4" curved jaw	\$11.66	\$11.01	\$10.43	\$9.91	\$9.91
222003	5WR, 5" curved jaw	16.31	15.40	14.59	13.86	13.20
222006	7WR, 7" curved jaw	16.75	15.82	14.99	14.24	13.56
222009	10WR, 10" curved jaw	15.31	14.46	13.70	13.01	12.39

Fast Release™ Curved Jaw Locking Pliers with Wire Cutter – 2 pc set

- This set includes 7" and 10" Fast Release™ locking pliers with one-handed triggerless release—twice as easy to open as the traditional design.
- ProTouch™ grips have molded handles for comfort, control, and less hand fatigue.



ITEM NO.	DESCRIPTION	1 set	5	10	20	50
222030	10WR & 7WR set	\$35.29	\$33.33	\$31.58	\$30.00	\$28.57



The Original™ Locking Pliers Sets



#222020 Includes 5" and 10" curved jaw locking plier with wire cutter



#220023 Includes • 7" curved jaw and • 6" needle-nose, with wire cutter



#222026 Includes 6" needle-nose, • 7" straight jaw, and 10" curved jaw

ITEM NO.	DESCRIPTION	1 set	5	10	20	50
222020	10WR & 5WR	\$31.66	\$29.90	\$28.33	\$26.91	\$25.63
220023	7WR & 6LN	32.57	30.76	29.14	27.69	26.37
222026	10WR, 7R, & 6LN	48.72	46.01	43.59	41.41	39.44

The Original™ Straight Jaw Locking Pliers

- The Original – Since 1924.
- Straight jaw locking pliers provides maximum contact on flat, square, or hex materials.



ITEM NO.	DESCRIPTION	1	5	10	20	50	100
222012	7R, 7" straight jaw	\$16.75	-	\$15.82	\$14.99	\$14.24	\$13.56
222015	10R, 10" straight jaw	17.03	16.08	15.24	14.48	13.79	13.16

Locking C-Clamps with Regular Tips

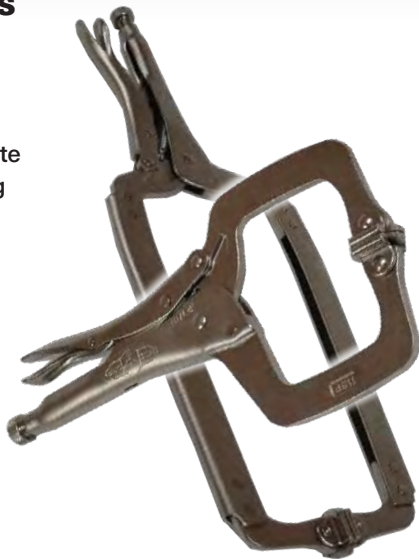
- Wide-opening jaw provides greater versatility for clamping a variety of shapes. Jaw capacity as follows:
- 6" 2-1/8"
- 9" 4-1/2"
- 11" 4"
- 18" 8"
- 24" 10"



ITEM NO.	DESCRIPTION	1	5	10	20	50
222040	6R, 6" C-Clamp	\$14.01	\$13.24	\$12.54	\$11.91	\$11.35
222043	9DR, 9" C-Clamp	20.97	19.81	19.81	17.83	16.98
222046	11R, 11" C-Clamp	22.38	21.14	20.03	19.03	18.12
222049	18R, 18" C-Clamp	38.66	36.51	34.59	32.86	31.30
222052	24R, 24" C-Clamp	47.63	44.99	42.62	40.49	38.56

Locking C-Clamps with Swivel Pads

- Swivel pads hold tapered work, cumbersome fabricating jobs and delicate projects without damaging the work surface.
- Also available: pack of 4 soft pads.



• Soft pads fit 11SP, 18SP and 24SP

ITEM NO.	DESCRIPTION	1	5	10	20	50
222055	4SP, 4" with swivels	N/A	\$9.00	\$8.59	\$8.21	\$7.95
222058	6SP, 6" with swivels		11.65	11.04	10.49	9.99
222061	9SP, 9" with swivels	22.07	20.85	19.75	18.76	17.87
222064	11SP, 11" with swivels	24.06	22.72	21.53	20.45	19.48
222067	18SP, 18" with swivels	39.74	37.53	35.55	33.78	32.17
222070	24SP, 24" with swivels	49.63	46.88	44.41	42.19	40.18
		1 pack	5	10	20	50
222073	Pack of 4 soft pads	7.54	7.54	7.13	6.75	6.41

GrooveLock Pliers

- Set of 8" and 10" GrooveLock Pliers featuring press-n-slide button that adjusts jaws 2x faster than traditional groove joint pliers.
- The multi-groove ratcheting system has twice the groove positions than other groove joint pliers, for precise positioning on any type of work surface.



#222120 Includes 8" and 10" V-Jaw pliers.



#222123 Includes 8" V-Jaw and 10" Straight Jaw.

ITEM NO.	DESCRIPTION	1 set	5	10	20	50
222120	GV8 & GV10	\$29.63	\$27.99	\$26.51	\$25.19	\$23.99
222123	GV8 & GV10R	37.01	34.96	33.12	33.12	29.96

The Original™ Locking Chain Clamp

- Chain holds and locks around any shape or size.
- Ideal for awkward shape pieces.
- Turn screw to adjust pressure and fit work. Stays adjusted for repetitive use.
- Classic trigger release designed to provide maximum locking force.
- Jaw capacity: 18" / 455mm. Size: 9" / 255mm



• NOTE: 18" Extension Chain is used only for lengthening the chain already on the tool. It is NOT a replacement chain. Add as many lengths as desired.

ITEM NO.	DESCRIPTION	1	5	10	20	50
222100	9" chain clamp	\$29.96	\$28.31	\$26.82	\$25.48	\$24.26
222103	18" EXTENSION Chain	15.13	14.29	13.54	12.86	-
222106	18" REPLACEMENT Chain	15.13	14.29	13.54	12.86	-

Compound Long-Reach Pliers

- Superior long reach design for working in confined spaces.
- Compound joint design allows jaws to open wider than the handle.
- Machined jaws for maximum gripping strength.
- Chrome Vanadium steel construction for durability and extended tool life.
- Dipped grips for comfort and improved precision.
- OAL: 13-1/4", jaw opening 2-3/4".
- Available with bent nose or straight nose.



ITEM NO.	DESCRIPTION	1	5	10	20	50
222140	Bent nose	\$26.88	\$25.39	\$24.05	\$22.85	\$21.76
222143	Straight nose	26.88	25.39	25.39	22.85	21.76

Cee Tee Co.® Combination Pliers

- Curved jaws combination with machined gripping teeth and wire cutter.
- Forged from carbon steel and accurately machined, hardened, and tempered.
- Features knurled handles.
- Carbon steel.



ITEM NO.	DESCRIPTION	1	6	12	24	48
181261	6" (OAL 6-1/2")	\$8.25	\$7.80	\$7.39	\$7.02	\$6.68
181281	8" (OAL 8")	9.17	8.66	8.21	7.80	7.43

Tongue & Groove Pliers

- 10" pliers with hex jaw.
- Special jaw shape to accommodate many shapes.
- Ergonomically designed offset head for greater leverage.
- PermaLock® fastener eliminates nut and bolt failure.



ITEM NO.	DESCRIPTION	1	5	10	20	50
224320	10" CHANNELLOCK	\$25.17	\$23.78	\$22.52	\$21.40	\$20.38

Crimpers

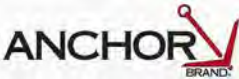
- Designed for crimping of both insulated and non-insulated solder-less connections and terminals.
- Slim nose shape for tight places.
- Perfectly mated cutters, scientifically heat treated to hold their edge.
- OAL 9.75", jaw width 1.25", nose thickness 0.219".



ITEM NO.	DESCRIPTION	1	5	10	20
224340	Crimpers	\$38.73	\$36.58	\$34.65	\$32.92

Adjustable Wrenches

- Hardened and tempered with precision machined jaws and knurled adjusting worm.
- I-beam handle, chrome plated, drop-forged alloy steel.
- Meets or exceeds federal and ANSI specifications.



ITEM NO.	OAL	OPENING	1	6	12	24	48
224000	6 inch	15/16 in.	\$9.63	\$9.09	\$8.61	\$8.18	\$7.79
224003	8 inch	1-1/8 in.	12.49	11.80	11.18	10.62	10.11
224006	10 inch	1-5/16 in.	14.94	14.11	13.36	12.70	12.09
224009	12 inch	1-1/2 in.	21.15	19.97	18.92	17.98	17.12
			1	3	6	12	24
224012	15 inch	1-3/4 in.	35.71	33.72	31.95	30.35	28.91
224015	18 inch	2-1/16 in.	57.21	54.03	51.19	48.63	46.31
224018	24 inch	2-7/16 in.	99.42	93.90	88.95	84.51	80.48

Bondhus® Balldriver® L-Wrench Key Sets

- Made with Protanium® High Torque steel.
- Dry, corrosion resistant ProGuard™ finish, providing 5X more rust and corrosion resistance than plated finishes, and offers better tool grip.
- #610931 includes 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, & 3/8".
- #610933 same as above plus 7/16 & 1/2", in vinyl roll up pouch.
- #610939 includes 1.5, 2, 2.5, 3, 4, 5, 6, 8, & 10mm.
- #610941 includes 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, & 10mm.
- Includes plastic holder.
- Lifetime warranty.



Bondhus Ball End tips are designed to be the perfect balance between angle and strength. Ball End strength is maximized, while still providing a consistent full 25° working angle.

ITEM NO.	DESCRIPTION	1	5	10	20
610931	13 fractional sizes .050 - 3/8"	\$16.19	\$15.29	\$14.48	\$13.76
610933	15 fractional sizes .050 - 1/2"	39.68	37.48	35.50	33.73
610939	9 metric sizes 1.50 - 10mm	13.15	12.42	11.76	11.18
610941	15 metric sizes 1.27 - 10mm	22.09	20.87	19.77	18.78
610971	Combo #610931 & 610939	27.62	26.08	24.71	23.47

Bondhus® 7 Piece Hollow Shaft Nut Driver Set

- Hexagonal upper shaft for use with a wrench for increased torque
- Ergonomic handle design
- Non-slip grip
- Anti-roll handle
- High strength chrome plated shaft
- Sizes 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2"
- Lifetime warranty.



ITEM NO.	DESCRIPTION	1	5	10	20
223520	7-piece nut driver set	\$24.91	\$23.53	\$22.29	\$21.18

Telescoping MegaMag Pick-Up Tool

- Goblet shaped head pushes flux to top of magnet.
- Sides will not attach to unwanted metal surfaces.
- Comfortable, textured and cushioned grip.
- Telescopes from 8-1/4" to 30-1/4".
- Picks up a whopping 16 lbs!



• Shown partially extended

ITEM NO.	DESCRIPTION	1	5	10	20
220210	16 lb Pick-up Tool	\$23.81	\$22.49	\$22.49	\$20.24

23-Piece SAE Socket & Drive Tool Set

- 1/2” drive.
- Set includes:**
- 7/16” - 1-1/8” x 1/16ths + 1-1/4” shallow sockets
- 1/2” - 7/8” x 1/16ths deep sockets
- (1) 1/2” drive ratchet
- (1) 1/2” drive x 15” flex handle
- (1) 1/2” drive x 6” extension.
- Supplied in a sturdy plastic case.



ITEM NO.	DESCRIPTION	1 set	3	6	12
223120	23-pc socket set	\$112.11	\$106.43	\$101.30	\$97.77

12-Piece Metric Socket & Drive Tool Set

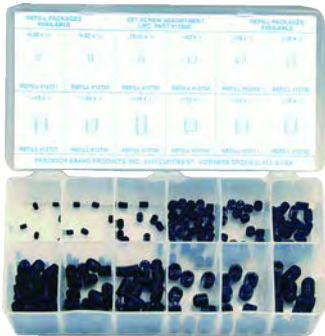
- 1/2” drive.
- Set includes:**
- 12mm - 19mm x 1mm + 22mm & 24mm shallow sockets
- (1) 1/2” drive ratchet
- (1) 1/2” drive x 6” extension.
- Supplied in a sturdy plastic case.



ITEM NO.	DESCRIPTION	1 set	3	6	12
223110	12-pc socket set	\$44.57	\$42.32	\$40.28	\$38.87

200-Piece Set Screw Assortment

- Sizes: 6-32 x 3/16”, 8-32 x 3/16”, 10-24 x 1/4”, 1/4-20 x 1/4”, 1/4-28 x 1/4”, 1/4-20 x 3/8”, 5/16-18 x 3/8”, 5/16-24 x 3/8”, 5/16-18 x 1/2”, 3/8-16 x 3/8”, 3/8-24 x 3/8” & 3/8-16 x 1/2”



ITEM NO.	DESCRIPTION	1	3	6	12
013201	200-pc. set screws	\$48.15	\$45.71	\$43.51	\$41.99



Impact Socket Adapters

- Engineered specifically for use in impact tools.
- Manufactured with heavy-duty, cold-forged high-grade steel to withstand high torque output.
- Ball retention design for quick-change applications.
- Forged socket body.
- Overall length: 2”.
- Shank: 1/4” quick release.



ITEM NO.	DESCRIPTION	1	5	10	20	50
220693	3/8” – carded	3.62	3.42	3.24	3.08	2.93
220696	1/2” – carded	4.57	4.32	4.09	3.89	3.70

Impact-Ready Magnetic Nutsetters

- Lobular design drives fastener on side instead of corner for less stripping and longer life.
- Rare earth magnets hold fasteners securely with four times the hold of standard magnets.
- Overall length: 1-7/8”.
- Shank: 1/4” quick release.



ITEM NO.	DESCRIPTION	1	3	9	18	50
220674	1/4” – carded	\$3.76	\$3.76	\$3.56	\$3.37	
220653	5/16” – carded	4.03	4.03	3.81	3.61	
220659	3/8” – carded	4.31	4.31	4.07	3.86	
		1	3	9	18	48
220677	7/16” – carded	4.43	4.43	4.18	3.96	
220671	1/2” – carded	4.69	4.69	4.43	4.20	
BULK 10-PACK, UOM: EA		10	30	50	100	200
220662	Size: 3/8”	3.59	3.39	3.21	3.05	2.90

Malco Hand Riveter

- Lightweight, compact size and slim nose projection allows this riveter to go wherever the work is.
- Four nosepieces: 3/32, 1/8, 5/32, and 3/16 in. store in handle.
- Rugged steel construction, spring return handles, and comfortable contour grips make operation fast and easy.
- Not for use with 5/32" or 3/16" steel rivets (steel rivets larger than 3.2 mm).



ITEM NO.	DESCRIPTION	1	3	6	12
220008	CR18 economy riveter	\$33.37	\$31.68	\$30.16	\$28.77

Malco 2IN1 Hand Riveter

- One hand operation made easy!
- Includes 3 nose pieces: 1/8, 5/32, & 3/16”, store in handle.
- Professional slim nose allows 2-in-1 to go where other hand riveters cannot.
- Heavy-duty all steel construction insures long life.
- Red vinyl cushion grip and hand stop.



ITEM NO.	DESCRIPTION	1	2	4	8
220010	2-in-1 hand riveter	\$92.01	\$87.35	\$83.14	\$79.32

Slic-tite® PTFE Thread Tape

- Pressure: to 2,000 PSI
- Sealing temperature: -450°F to 550°F.
- 4 mils thick and made with PTFE for greater sealing power.
- Non-toxic
- Yellow is for gas line usage.
- Pink is for water line usage.



ITEM NO.	DESCRIPTION	1	12	48	96
228400	White 1/2” x 300'		\$2.67	\$2.53	\$2.40
228407	White 1/2” x 600'	3.65	3.44	3.26	3.10
228414	Yellow 1/2” x 260'		2.42	2.29	2.18
228421	Pink 1/2” x 260'	2.42	2.42	2.29	2.18

Clamp Fixtures

- Mounts on any length of 3/4" black pipe with threaded ends.
- 223653 with 1-3/4 in. wide jaws has a crank handle.
- 223659 with 2-1/2 in. wide jaws has a wing-nut style handle.
- Both come with a coil spring "stop" to thread onto the opposite end of the pipe.



ITEM NO.	DESCRIPTION	1 set	5	10	20
223653	Jaw width: 1-3/4”	\$31.38	\$29.64	\$28.08	\$26.68
223659	Jaw width: 2-1/2”	37.26	35.19	33.34	31.67

Dual-Range Non-Contact Voltage Tester

- Automatically detects and indicates low voltage (12-48 Volts AC) and standard voltage (48-1000 Volts AC), allowing broad application.
- Non-contact detection of standard voltage in cables, cords, circuit breakers, lighting fixtures, switches, outlets, and wires.
- Non-contact detection of low-voltage in security, entertainment, communications, environmental control, and irrigation systems.
- High intensity, bright green or blue LED indicates the tester is operational and aids in illuminating the workspace.
- Digitally controlled ON/OFF power button.
- Auto power-off feature conserves and extends battery life.
- Microprocessor controlled low battery indicator.
- CAT IV 1000 Volt rating provides expanded operation and protection.
- Lightweight, durable polycarbonate plastic resin construction with a convenient pocket-clip.
- Package contains insert card with integrated owner's manual and
- 2 AAA 1.5 volt batteries.
- Frequency range 50-500 Hz



ITEM NO.	DESCRIPTION	1	4	8	16
225500	Voltage tester	\$35.44	\$33.48	\$31.71	\$30.13



American Standard Wire Gauge

- Heavy gauge, hardened stainless steel wire gauge measures gauge sizes 0 - 36 and has decimal equivalents on the reverse side.
- Useful to gauge wire, sheet, plate, and non-ferrous metals such as copper, aluminum, and brass.



ITEM NO.	DESCRIPTION	1	3	6	12
224621	Wire gauge	\$30.81	\$29.10	\$27.57	\$26.19

Stainless Steel Protractor

- For setting bevels, measuring and transferring angles.
- Etched graduations from 0 – 180° in both directions.
- 6" protractor arm with knurled locking nut.



ITEM NO.	DESCRIPTION	1	6	12	24
224614	Protractor	\$16.37	\$15.46	\$14.65	\$13.92

6" Stainless Steel Digital Caliper

- Accurately reads to 0.001" with 0.0005" resolution.
- Displays decimal, fractional, or metric.
- Automatic off.
- Includes one extra battery.
- Battery life is 1 year continuous or 3 years under normal on/off conditions.



ITEM NO.	DESCRIPTION	1	2	4	8
224607	6" digital caliper	\$54.06	\$51.05	\$48.37	\$45.95

Scriber / Etching Pen

- Tungsten carbide point for marking and scribing stainless steel, ceramics and glass.
- Screw chuck for reversing point when not in use.
- Also includes a magnet in the opposite end as a pickup tool.
- Pocket clip.
- OAL: 5-7/16".



ITEM NO.	DESCRIPTION	1	6	12	24
224691	Etching pen / scriber	\$9.01	\$8.51	\$8.06	\$7.66

Screwdriver Magnetizer

- Convenient device magnetizes and de-magnetizes screwdrivers and small tools.
- To magnetize, insert blade in (+) opening and slide back and forth.
- To demagnetize, start at the lowest (-) step and repeat procedure.
- If tool is not completely demagnetized, repeat at a higher step.



ITEM NO.	DESCRIPTION	1	6	12	24
224635	Magnetizer / demagnetizer	\$4.94	\$4.67	\$4.42	\$4.20

Telescoping Magnetic Pick-Up Tool

- Pocket magnet with powerful neodymium magnet lifts up to 2 lbs, six times more than same-sized cobalt magnets.
- Retracted length 5-1/2", overall length when extended 24".



ITEM NO.	DESCRIPTION	1	6	12	24
224642	Magnetic pick-up	\$10.96	\$10.35	\$9.81	\$9.32

CG20 Professional Caulking Gun

- Square piston design.
- Minimizes worker fatigue.
- User can regulate stroke to fit hand.
- Handy puncture wire folds inside handle.
- Weight: 28 oz.
- 1/10 gallon cartridge capacity.



ITEM NO.	DESCRIPTION	1	5	10	20
223321	CG-20 caulking gun	\$40.21	\$38.18	\$36.34	\$34.67

CG12 Flexible / Lightweight Caulking Gun

- Compact design stores in a toolbox.
- Handy puncture wire.
- Ladder size hang hook.
- Weight: 25 oz.
- 1/10 gallon cartridge capacity.



ITEM NO.	DESCRIPTION	1	5	10	20	50
223307	CG-12 caulking gun	\$7.59	\$7.20	\$6.86	\$6.54	\$6.25

CG18 Easy Dispensing Caulking Gun

- Rotating barrel for maneuverability and easy caulk placement.
- Double-gripping plate for greater durability.
- Trigger adjustment screw compensates for normal wear to assure full dispensing stroke and extend life.
- Weight: 28 oz.
- 1/10 gallon cartridge capacity.



ITEM NO.	DESCRIPTION	1	5	10	20
223314	CG-18 caulking gun	\$7.59	\$7.20	\$6.86	\$6.54

CG10 Utility Caulking Gun

- Weight: 17 oz.
- 1/10 gallon cartridge capacity.

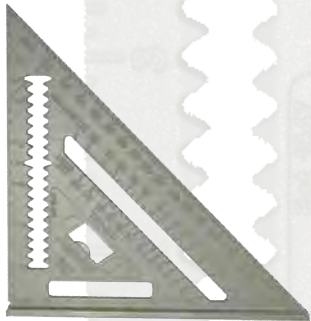


ITEM NO.	DESCRIPTION	1	5	10	20	50
223300	CG-10 caulking gun	\$6.06	\$5.72	\$5.42	\$5.15	\$4.90



JOHNNY SQUARE®
Die-cast Aluminum
Rafter Square

- Solid aluminum body with CNC machined edges for greater accuracy.
- Permanent graduations and numbers.
- Continuous scribing notches – ideal for ripping at 3-1/2" and 5-1/2".*
- *12" has scribe notches starting at 1-3/4".



ITEM NO.	DESCRIPTION	1	5	10	20	40
340360	7" Square	\$7.10	\$6.71	\$6.36	\$6.04	
340374	12" Square	17.10	16.15		15.30	14.54



Mason/Construction Line Reels & Refills

- Reel fits all 1" line cores from 4" - 6" long.
- Line secures in convenient notch.
- Reload rolls of line easily.
- Rewind hand crank [or automatic rewind using power screwdriver in slot in bottom of handle].
- Line is quality #18 Nylon Line [tensile strength 165 lbs].
- Bright solid or mixed colors in either Twisted or Braided.
- #27 Nylon Line available [tensile strength 216 lbs].
- Cotton line also available.



ITEM NO.	REEL LENGTH	REFILL LENGTH	COLOR	TYPE	1	12	24	48
225400	540'		Gold	Twisted	\$7.93	\$7.53	\$7.17	\$6.92
225424	500'		Fluo Orange	Braided	10.13	9.62	9.16	8.84
225426	500'		Fluo Yellow	Braided	10.13	9.62	9.16	8.84
235400		540'	Gold	Twisted	4.00	3.80	3.61	3.49
235424		500'	Fluo Orange	Braided	3.49	3.49	5.30	5.12
235426		500'	Fluo Yellow	Braided	5.87	5.57	5.30	5.12
235443		500'	Pink	Braided	6.46	6.10	5.78	5.49

FatMax® Reinforced with
Blade Armor™ Tape Rules

- 1-1/4" wide is easy to read and features Mylar® polyester film coating for superior durability.
- Exclusive cushion grip built into the case for a comfortable, slip-resistant grip, and impact resistance.
- Specially designed hook grabs on side, top, or bottom.
- Blade features an amazing 11 foot standout.
- Made in the USA



ITEM NO.	BLADE	GRADUATIONS	1	4	12	24	48
340161	1-1/4" x 16'	1/16 in	\$21.78	\$20.57	\$19.49	18.51	\$17.63
340171	1-1/4" x 25'	1/16, 1/32 in	20.88	19.72	18.68	17.75	16.90
340181	1-1/4" x 30'	1/16, 1/32 in	29.04	27.43	25.99	24.69	24.69
340191	1-1/4" x 35'	1/16, 1/32 in	34.84	32.90	31.17	29.61	28.20

Fractional Read Tape
Measure

- Polymer coated blade for long life.
- Tough ABS case.
- Graduations at 1/16", stud markings at 16" and 19.2".



ITEM NO.	DESCRIPTION	1	6	12	24	48
340011	3/4" x 16'	\$6.15	\$5.81	\$5.50	\$5.23	\$4.98
340021	1" x 25'	9.01	8.51	8.07	7.66	7.30
340031	1" x 30'	11.85	11.19	10.61	10.08	9.60



Xtra-Wide Control Series
1-3/16" x 25' Tape Measure

- Features the unique Drag Strip™ finger access on bottom of case to allow you to control your blade more effectively.
- 10 foot standout.



ITEM NO.	DESCRIPTION	1	6	12	18	24
340400	LUFKIN® Xtra-Wide	\$21.49	\$20.29	\$19.22	\$19.22	\$17.39

P1000 Hi-Viz Tape
Measure

- Case features rubber cushion for improved grip and impact protection.
- Up to 9 foot standout (1-inch).



ITEM NO.	DESCRIPTION	1	6	12	18	24
340428	1" x 25'	\$24.30	\$22.95	\$21.74		\$20.66
340414	3/4" x 16'	17.90	16.91	16.02	15.22	14.49
340421	3/4 x 16 English/Metric	17.90	16.91	16.02	16.02	14.49

Magnetic End Hook
1" x 25' Tape Measure

- Features a magnetic end hook allowing for easy one-man measuring of metal frames, etc.
- Powerful dual magnets can also serve as a pickup tool.



ITEM NO.	DESCRIPTION	1	6	12	18	24
340407	1" x 25'	\$21.87	\$20.65	\$19.57	\$18.59	\$17.70

POWERLOCK® Tape Measure

- Features Mylar® polyester film to extend blade life.
- Corrosion-resistant Tru-zero end hook for accurate measurements.
- Secure blade lock that won't creep.



ITEM NO.	DESCRIPTION	1	4	12	24	48
340111	3/4" x 16'	\$13.18	\$12.44	\$11.79	\$11.20	\$10.67
340114	1" x 25'	22.66	21.40	20.28	19.26	18.35

6” Pocket Clip Rule

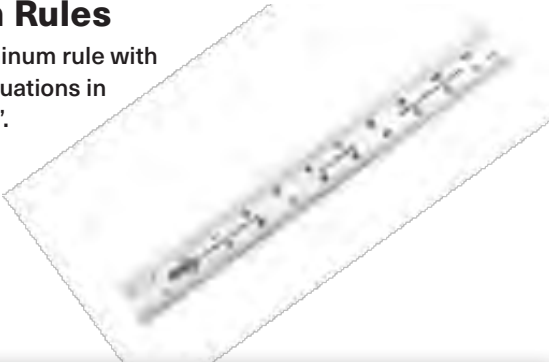
- Stainless steel rule with a pocket clip.
- Conversion tables on back side.



ITEM NO.	DESCRIPTION	1	5	10	20	50
340340	1/32 & 1/64 markings	\$3.46	\$3.26	\$3.09	\$2.94	\$2.80
340343	1/64 & mm markings	3.46	3.26	3.09	2.94	2.80

Aluminum Rules

- Extruded aluminum rule with screened graduations in 1/8” and 1/16”.
- Width: 1-1/8”.
- 10 per case.



ITEM NO.	DESCRIPTION	1	10	20	50
340314	12” x 1-1/8” ruler	\$1.79	\$1.69	\$1.61	\$1.53
340321	18” x 1-1/8” ruler	1.82	1.82	1.72	1.64
340328	24” x 1-1/8” ruler		1.94	1.84	1.75
340335	36” x 1-1/8” ruler	2.72	2.57	2.43	2.31

POWERLOCK® 10' Pocket Tape Measure

- Very convenient pocket tape measure!
- 1/4" by 10' steel blade and silver case.
- Features a diameter scale marked on the blade, to permit accurate measurement of pipe thickness etc.



ITEM NO.	DESCRIPTION	1	6	12	24	48
340101	10' pocket tape	\$5.66	\$5.35	\$5.07	\$4.81	\$4.58

MAGTITE® Magnetic Tape Holster

- Just remove the metal clip on the back of your tape measure and follow the simple instructions on package to have a convenient magnetic holster for your tape measure.
- Fits all tapes from 16 ft to 35 ft.



ITEM NO.	DESCRIPTION	1	6	12	18	24
259955	MAGTITE Holster	\$13.97	\$13.19	\$12.50	\$11.88	\$11.31

Magnetic Welder's Torpedo Level

- Features rare earth magnets that are 5 times stronger than strip magnets.
- The solid block acrylic level vials never fog or leak.
- Die cast durable frame. JobSite Tough™
- V-groove edge fits on pipe or conduit.



ITEM NO.	DESCRIPTION	1	4	8	16
340350	10” torpedo level	\$21.12	\$19.94	\$18.89	\$17.95

Magnetic Aluminum Level

- Solid I-beam frame with magnetic edge.
- Top read window.
- Replaceable acrylic vials.
- Beveled end plates protect from shock.
- Vial Material: Plastic.
- Base Type: Magnetic.
- Structure: I-Beam.



ITEM NO.	DESCRIPTION	1	4	8	16
340253	24 inch	30.76	29.05	27.53	26.15
		1	3	6	12
340256	48 inch	41.24	38.95	36.90	35.06
340259	72 inch	75.14	70.96	67.23	63.87



General Purpose Nylon Cable Ties

- Available in UV Black or in Natural color.



KEEPER Ratchet Tie-Downs

- 2” breaking strength 10,000 lbs
- 2” working load limit 3,333 lbs
- 1” breaking strength: 1500 lbs
- 1” working load limit: 500 lbs



ITEM NO.	DESCRIPTION	ANY QUANTITY
230520	2” x 27’, double-J hooks	\$30.53
230523	2” x 27’, flat hooks	31.89
230530	1” x 14’, S hooks	11.96
230533	1-3/4” x 15’, J hooks	24.62
230540	4” x 30’, flat hooks	28.39

ITEM NO.	NOMINAL LENGTH	ACTUAL LENGTH	TENSILE STRENGTH	COLOR	QTY PER PACK	PRICE PER PACK			
						1	10	20	30
230710	4”	4.1”	18 lbs	Natural	100	\$2.46	\$2.32	\$2.19	\$2.08
230713	4	4.1	18 lbs	UV Black	100	2.62	2.46	2.33	2.21
230716	5	5.7	30 lbs	Natural	100	5.54	5.22	4.93	4.68
230719	5	5.7	30 lbs	UV Black	100	5.54	5.22	4.93	4.68
230722	7	7.6	50 lbs	Natural	100	6.62	6.23	5.89	5.58
230725	7	7.6	50 lbs	UV Black	100	6.62	6.23	5.89	5.58
230728	9	9	120 lbs	Natural	100	20.77	19.57	18.49	17.53
230731	9	9	120 lbs	UV Black	100	23.08	21.74	20.55	19.48
230734	11	11.1	50 lbs	Natural	100	7.08	6.67	6.30	5.97
230737	11	11.1	50 lbs	UV Black	100	6.46	6.09	5.75	5.45
230740	12	12	120 lbs	Natural	100	20.46	19.28	18.22	17.27
230743	12	12	120 lbs	UV Black	100	19.38	18.26	17.26	16.36
230746	14	14.6	50 lbs	Natural	100	8.77	8.26	7.81	7.40
230749	14	14.6	50 lbs	UV Black	100	8.31	7.83	7.40	7.01
230752	15	15	120 lbs	Natural	50	15.15	14.28	13.49	12.79
230755	15	15	120 lbs	UV Black	50	15.38	14.49	14.49	12.99
230758	18	18.5	175 lbs	Natural	50	9.23	8.70	8.22	7.79
						1	5	10	20
230764	24	24.5	175 lbs	Natural	50	7.79	19.42	18.36	17.40
230767	24	24.5	175 lbs	UV Black	50	20.69	19.49	18.42	17.47
230770	36	36	175 lbs	Natural	50	41.62	39.20	37.05	35.13
230773	36	36	175 lbs	UV Black	50	42.31	39.86	37.67	35.71
230776	48	48	175 lbs	Natural	50	37.46	35.29	33.36	31.62
230779	48	48	175 lbs	UV Black	50	38.15	35.94	33.97	32.21



Industrial Carton Sealing Tape

- 2.0 mil, 400 Series industrial carton sealing tape.
- Crystal clear tape will not yellow over time.
- Use for medium to heavy-weight carton sealing.
- Also available in a 6 roll case.



ITEM NO.	SIZE	THICK-NESS	PRICE PER ROLL			
			1 roll	36	72	144
079330	2" x 110 yds	2 mil	\$2.33	\$2.22	\$2.11	\$2.01
079333	3" x 110 yds	2 mil	3.49	3.32	3.16	3.01

Filament Strapping Tape

- 1300 Series economy filament strapping tape.
- Tensile strength: 100 lb.



ITEM NO.	SIZE	WEIGHT	PRICE PER ROLL			
			1 roll	36	72	144
300000	1" x 60" yds	100 lbs.	3.61	3.43	3.27	3.11
300010	1" x 60" yds	130 lbs.	5.92	5.62	5.35	5.10
300020	1" x 60" yds	160 lbs.	6.17	5.86	5.58	5.32

Scotch® Super 33+™ Electrical Tape

- Withstands harsh conditions while protecting and insulating.
- Performs in 0° - 220° F.
- The combination of elastic backing and aggressive adhesive provides moisture-tight electrical and mechanical protection with minimum bulk.
- Pressure sensitive rubber based adhesive.
- Thickness: 7 mil.



ITEM NO.	DESCRIPTION	1	5	10	20	50
228020	3/4" x 66'	\$5.79	\$5.47	\$5.18	\$4.93	\$4.69

General Purpose Electrical Tape

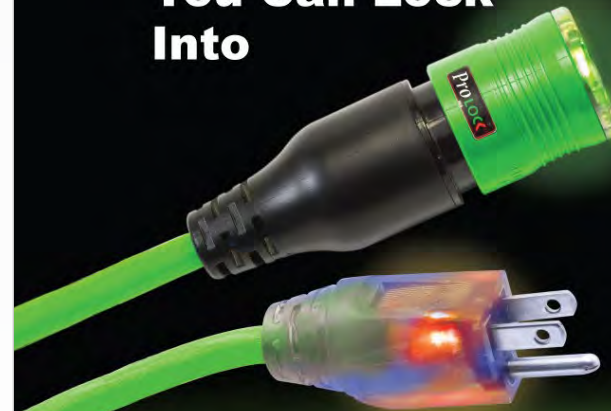
- Vinyl electrical tape features excellent adhesion and elongation properties.
- General purpose for household and industrial.
- Thickness: 7 mil.



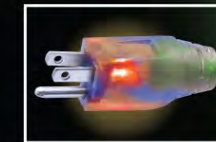
ITEM NO.	DESCRIPTION	1	10	50	100	200
228010	3/4" x 60'	\$1.12	\$1.06	\$1.00	\$0.95	\$0.91

ProLOCK™ "For Secure & Safe Connections"

Quality Products You Can Lock Into



CGM "Continuous Ground Monitoring" safety system. Green neon lighted connector indicates the cord is grounded.



An amber lighted plug indicates that there is power in the outlet.



Insert the plug into our Pro Lock™ Connector



Push cord ends together to lock.



Pull collar back to disconnect



Pro Lock™ Connectors 5 - 15C

- Each ProLock™ delivers 80 lbs of pull strength.
- Lighted Amber Power Check Indicator.
- Non-slip adapter grip.
- Impact resistant polycarbonate body.
- Fitted strain relief for both 10AWG and 12AWG cord diameters.
- Recommended for use by roofing, concrete, and building contractors.
- Rated at 15Amps, 125 volts.

ITEM NO.	COLOR	1	5	10	20
008220	Black with blue collar	15.23	14.46	13.76	13.28





Tried. True. Survives it All

Even the occasional trip
through the washing machine.
Seriously.

3" x 5" Top-Spiral Notebooks

- Pocket notebook survives sweat, snow, or grease.
- 100 pages/50 sheets of 20# Rite in the Rain paper.
- Cover is made of 19 gauge Polydura material.
- Includes ruler marking, conversion table, and map scale.

ITEM NO.	DESCRIPTION	1	12	24	48
060010	Yellow cover	\$3.43	\$3.25	\$3.10	\$2.95
060020	Black cover	3.43	3.25	3.10	2.95
060030	Green cover	3.43	3.25	3.10	2.95
060040	Tan cover	3.43	3.25	3.10	2.99

All-Weather Metal Clicker Pen

- Writes on wet paper and upside down!
- Pressurized ink cartridge performs in temperatures from -30F to 250F.
- Metal barrel, 5-1/8" length, 3/8" diameter, flat-black color.

ITEM NO.	DESCRIPTION	1	6	12	24
060250	Rite in the Rain pen	\$13.83	\$13.13	\$12.49	\$11.92

8½" x 11" Side-Spiral Notebooks

- Rain, mud, grime, and sweat will come and go on the job, and this full-size notebook will hold up through it all.
- Features 84 pages/42 sheets of 32# Rite in the Rain paper.
- Polydura covers, 19 gauge (front), 55 gauge (back).
- Includes ruler marking.

ITEM NO.	DESCRIPTION	1	6	12	24
060050	Yellow cover	\$16.43	\$15.59	\$14.84	\$14.16
060060	Black cover	15.56	14.77	14.06	13.41
060070	Green cover	16.43	15.59	14.84	14.16
060080	Tan cover	15.56	14.77	14.06	13.41

4-5/8" x 7" Side-Spiral Notebooks

- 64 pages.

ITEM NO.	DESCRIPTION	1	6	12	24
060110	Yellow cover	\$6.03	\$5.72	\$5.45	\$5.20
060120	Black cover	6.03	5.72	5.45	5.20
060090	Green cover	6.03	5.72	5.45	5.20
060100	Tan cover	6.03	5.72	5.45	5.20



SPORTSMAN® Essentials Outdoor Camping Lantern

Product Features:

- Lumens: 305 on High / 100 on Low
- Runtime (hrs): 70 on High / 140 on Low
- Beam Distance: 15m on High / 10m on Low
- 3 modes: High, Low, & Strobe
- 1m drop tested & water resistant
- Folding tent hang ring on bottom & EZ-Find LED locator
- Runs on 3D batteries (not included)



ITEM NO.	DESCRIPTION	1	4	8	12	24
120311	3D CAMPING	\$25.70	\$24.31	\$23.06	\$21.94	\$20.92

Workhorse® Pro 3AAA Virtually Indestructible Headlight

Product Features:

- Lumens: 210 on High / 50 Low
- Runtime (hrs): 5 on High / 17 on Low
- Beam Distance: 75m on High / 40m on Low
- Drop tested to 30 feet
- Includes (3) RAYOVAC AAA batteries
- Lifetime Warranty



ITEM NO.	DESCRIPTION	1	4	8	12	24
120221	3AAA HD HEAD	\$15.11	\$14.30	\$13.56	\$12.90	\$12.30

Workhorse® Pro 3AAA Virtually Indestructible Flashlight

Product Features:

- 300 Lumens (High) / 30 (Low)
- Run time - 3 hrs (High) / 39 hrs (Low)
- Beam distance - 168m (High) / 45m (Low)
- Drop tested to 30 feet
- Shatterproof Lens & Reflector, Anodized Aluminum Body, Tactical On/Off Control
- Includes (3) RAYOVAC AAA High Energy batteries
- Lifetime Warranty



ITEM NO.	DESCRIPTION	1	4	8	12	24
120251	3AAA FLASH	\$18.14	\$17.16	\$16.28	\$15.49	\$14.77

Workhorse® Pro 3AAA Virtually Indestructible Headlight

Product Features:

- Lumens: 100 on High / 25 on Low
- Runtime (hrs): 9 on High / 20 on Low
- Beam Distance: 30m on High / 17m on Low
- Drop tested to 30ft
- Includes (3) RAYOVAC AAA batteries
- Lifetime Warranty



ITEM NO.	DESCRIPTION	1	4	8	12	24
120201	PRO 3AAA	\$8.56	\$8.09	\$7.68	\$7.30	\$6.97



Rayovac® Ultra Pro™
Reclosable Industrial
Contractor Pack

- Easy to open container is reclosable and reusable.
- Stackable package is easy to merchandise.
- Proven to grow overall battery category sales.

- Guaranteed fresh for 10 years! (5 years for 9v)



ITEM NO.	SIZE	PKG QTY	CASE QTY	UOM: EA (SOLD IN PKG OR CASE QTY ONLY)					
				1 pkg	1 case	5 cs	10 cs	20 cs	40 cs
120601	AAA	24	288	\$0.333	\$0.314	\$0.297	\$0.282	\$0.268	\$0.256
120602	AAA	18	216		0.343	0.324	0.308	0.293	0.279
120603	AA	24	288	0.349	0.329	0.311	0.295	0.281	0.267
120604	AA	48	384	0.349	0.329	0.311	0.295	0.281	0.267
120605	C	12	96	0.652	0.614	0.581	0.551	0.524	0.500
120606	D	12	96	0.970	0.914	0.865	0.821	0.781	0.744
120607	9V	12	144		1.357	1.284	1.218	1.159	1.105

Industrial Shrink-Pack

- The fastest moving of all products at many distributor locations.
- Space saving packaging is easy to stock and inventory.
- Strong shrink-wrap plastic permits removal of batteries and still stays intact with the rest of the batteries.



ITEM NO.	SIZE	PKG QTY	CASE QTY	UOM: EA (SOLD IN CASE QTY ONLY)					
				1 case	5 cs	10 cs	20 cs	40 cs	100 cs
120501	AAA	8	96	\$0.329	\$0.311	\$0.295	\$0.281	\$0.267	\$0.256
120502	AA	8	96	0.314	0.297	0.282	0.268	0.256	0.244
120503	C	6	72	0.614	0.581	0.551	0.524	0.500	0.478
120504	D	6	72	0.900	0.851	0.808	0.768	0.733	0.700
				1 pkg	1 case	5 cs	10 cs	20 cs	40 cs
120505	9V	6	72	1.171	1.108	1.051	1.000	0.954	0.911

PROCELL® Batteries



ITEM NO.	SIZE	PKG QTY	CASE QTY	UOM: EA (SOLD IN PKG & CASE QTY ONLY)					
				1 pkg	1 case	5 cs	10 cs	20 cs	40 cs
225000	AAA	24	144	\$0.514	\$0.487	\$0.462	\$0.439	\$0.419	\$0.400
225003	AA	24	144	0.434	0.410	0.389	0.370	0.353	0.337
225006	C	12	72	1.071	1.014	0.962	0.915	0.872	0.833
225009	D	12	72	1.386	1.311	1.244	1.183	1.128	1.078
225012	9V	12	72	1.589	1.503	1.426	1.357	1.294	1.236

Button Cell Batteries



ITEM NO.	DESCRIPTION	PK QTY	1	5	25	30	50	90	100	180
050020	CR-2016 Lithium	5	-	\$1.25	-	\$1.18	-	\$1.12	-	-
050025	CR-2025 Lithium	6	-	1.12	-	1.06	-	1.00	-	-
050030	CR-2032 Lithium	5	-	1.12	-	1.06	-	1.00	-	0.95
050040	CR-2450 Lithium	6	2.96	2.79	-	2.64	-	2.51	-	2.39
050000	357 Button Cell	5	-	1.82	1.72	-	1.63	-	1.55	-
050010	377 Button Cell	6	-	0.82	0.78	-	0.74	-	0.70	-
050012	392 Button Cell	6	-	0.71	0.67	-	0.63	-	0.60	-



MICROSTREAM® LED
Flashlight

- Machined aluminum case, IPX4 water-resistant, lanyard included.
- Runs on one AAA battery, 2.25 hr. run time.
- 45 lumens.
- Limited lifetime warranty.



ITEM NO.	DESCRIPTION	1	5	10	20	50	100
225640	Black	\$19.93	\$18.92	\$18.01	\$17.38		\$16.25
225643	Black, Recharge	41.59	39.48	37.58	36.27		33.90
225641	Red	20.83	19.77	18.82	17.95	17.36	

Pocket Mate Flashlights

- Bright white LED with high and low mode:
 - High: 325 lumens; 76m beam; runs 20 minutes
 - Low: 45 lumens; 28m beam; runs 1 hour
- Battery: Lithium polymer, charges in 4 hours via micro-USB
- Spring-loaded clip with carabiner shape hangs cleanly on key rings, zippers, lanyards, etc
- Conveniently charges via USB power source, Lithium polymer battery charges in 4 hours
- Multi-function push-button switch with charger indicator
LED: Red = charging; Green = charged



ITEM NO.	DESCRIPTION	1	5	10	20	50
225675	Silver	\$23.60	\$22.41	\$21.33	\$20.34	\$19.67
225678	Red	23.60	22.41	21.33	20.34	19.67
225681	Blue	23.60	22.41	21.33	20.34	19.67
225684	Pink	23.60	22.41	21.33	20.34	19.67



STYLUS PRO LED
Flashlight

- Machined aluminum case, IPX4 water-resistant, lanyard included.
- Run-time: 8h, includes (2) AAA batteries.
- Limited lifetime warranty.



ITEM NO.	Color	Lumens	1	5	10	20	50
225620	Black	100	\$24.31	\$23.08	\$21.96	\$20.95	\$20.26
225623	Red	100	24.31	23.08	21.96	20.95	20.26
225626	Silver	100	24.31	23.08	21.96	20.95	20.26
225629	Blue	100	24.31	23.08	21.96	20.95	20.26
225630	Orange	100	24.31	23.08	21.96	20.95	20.26
225631	Lime Green	100	24.31	23.08	21.96	20.95	20.26
225632	Black, (Rechargeable)	350/90	58.91	55.92	53.23	50.78	49.09
225633	Black	50/90	66.27	62.91	59.88	57.13	55.22

Wedge Flashlights

- Features two lighting modes: **Constant On** and **THRO** (Temporarily Heightened Regulated Output) mode for maximum brightness:
 - **Constant On:** 300 lumens; 69m beam; runs 3 hours
 - **THRO:** 1,000 lumens; 110m beam for a 35 second burst
- Rotatable switch with battery level indicator; USB-C rechargeable; recharges in 3 hours
- waterproof USB-C port



ITEM NO.	DESCRIPTION	1	5	10	20
225801	Black	\$99.76	\$94.78	90.26\$	\$86.16
225804	Coyote	99.76	94.78	90.26	86.16



Macrostream Flashlights

- High: 500-Lumens 2, 000-Candela 90m beam distance, runs 2 hours; Low: 50-Lumens 220-Candela 30m beam, runs 8 hours
- Pocket clip attaches to visor for hands-free use
- White LED technology, impervious to shock with a 30, 000 hour lifetime
- IPX4 water-resistant; 1 meter impact resistance tested
- Removable, multi-directional pocket clip



ITEM NO.	LUMENS	COLOR	DESCRIPTION	1	5	10	20	50
225670	500/50	Black	Rechargeable	60.68	57.61	54.83	52.31	-

Bandit® Rechargeable Led Headlamp

The Bandit® – a lightweight, sleek headlamp designed for work or play. It’s USB rechargeable and provides 180 lumens of widespread white light.

- Produces bright, even, diffused light with less shadow than spot beams; ideal for up-close tasks
- Available in yellow or black with white LED or coyote with white/red or white/green LEDs
- White LED with high, low, and emergency flash:
 - High: 180 lumens; runs 2 hours (Bandit Pro: 4 hours)
 - Low: 35 lumens; runs 9.5 hours (Bandit Pro: 21 hours)
 - Emergency flash: flashes on high (180 lumens)

- Red LED with high and low:

- High: 45 lumens; runs 2.5 hours
- Low: 10 lumens; runs 10 hours

- Green LED with high and low:

- High: 135 lumens; runs 3 hours
- Low: 25 lumens; runs 13.5 hours



ITEM NO.	DESCRIPTION	COLOR	LUMENS	1	5	10	20
225721	BANDIT Rechargeable	Yellow	180/35	\$25.27	23.99\$	\$22.83	\$21.78
225724	BANDIT Rechargeable	Black	180/35	25.27	23.99	22.83	21.78
225727	BANDIT Recharge (White/Red)	Coyote	180/35	25.27	23.99	22.83	21.78
225730	BANDIT Recharge (White/Grn)	Coyote	180/35	25.27	23.99	22.83	21.78
225741	BANDIT PRO Rechargeable	Yellow	180/35	27.60	26.20	24.94	23.79
225744	BANDIT PRO Rechargeable	Black	180/35	27.60	26.20	24.94	23.79

Waypoint® 400 Rechargeable Spotlight

- Pistol-grip spotlight with three modes:
 - High: 1,400 lumens; 400,000 candela; 1,265 m beam distance; runs 3.25 hours
 - Medium: 600 lumens; 165,000 candela; 812 m beam distance; runs 7.5 hours
 - Low: 38 lumens; 10,000 candela; 200 m beam distance; runs 84 hours
- Powered by a rechargeable lithium-ion battery; fully recharges in 4 hours
- Charge indicator LED
- Integrated stand for hands-free scene lighting
- Includes adjustable lanyard



ITEM NO.	COLOR	LUMENS	1	3	6	12	24
225700	Yellow	1400/600/38	\$144.40	\$137.09	\$130.48	\$124.48	\$120.33
225703	Black	1400/600/38	144.40	137.09	130.48	124.48	120.33

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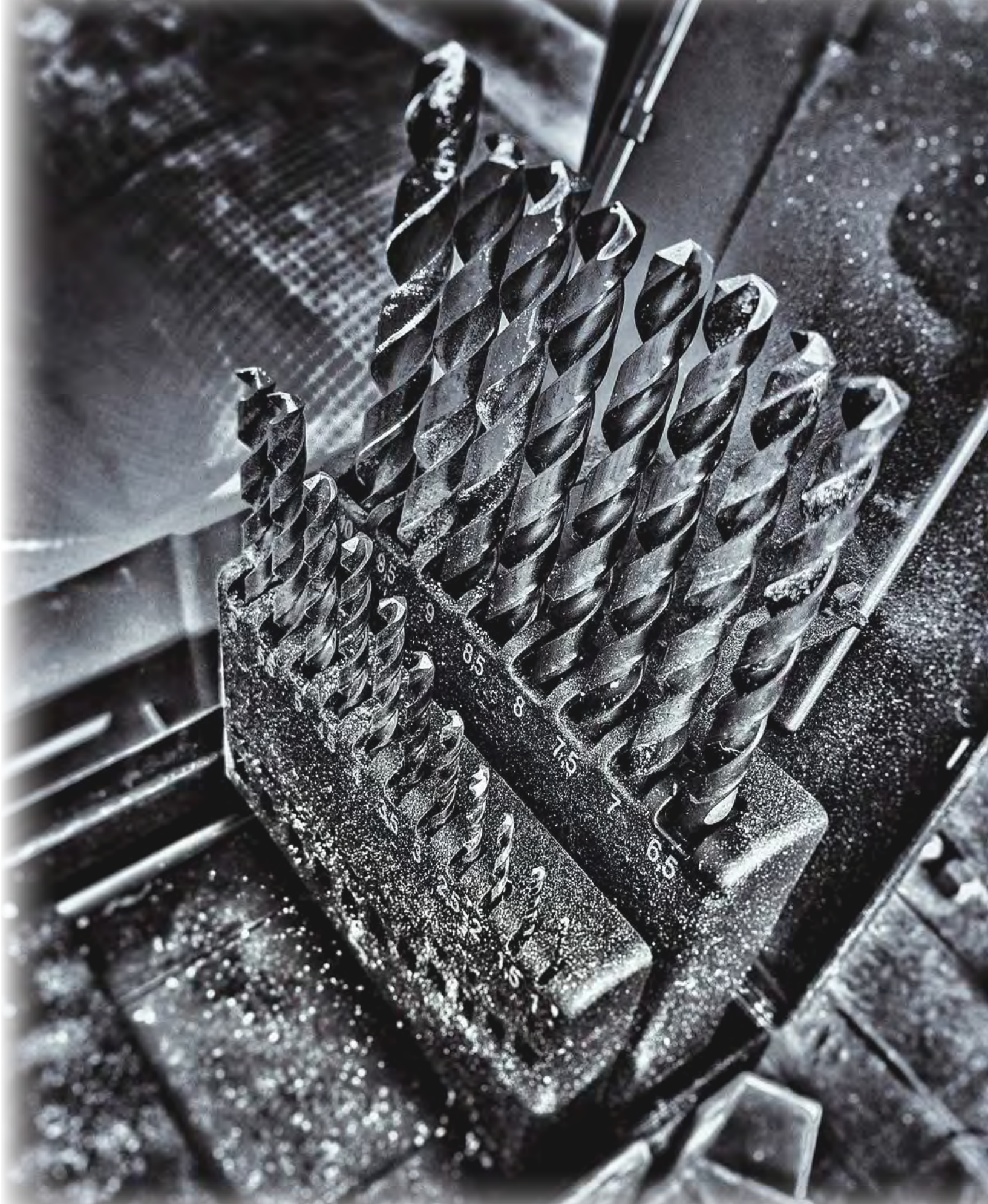
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Bolts & Fasteners in Bulk

- Hex head machine bolts
- Carriage bolts
- Shoulder bolts
- Flat washers
- Lock washers
- Nylon lock nuts
- Two-way reversible lock nuts
- Hex lags
- Self-tapping sheet metal screws
- And more

* National coarse, national fine, and metric.
* Grades 2, 5 and 8.
* Free freight thresholds.



Z-Drill

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