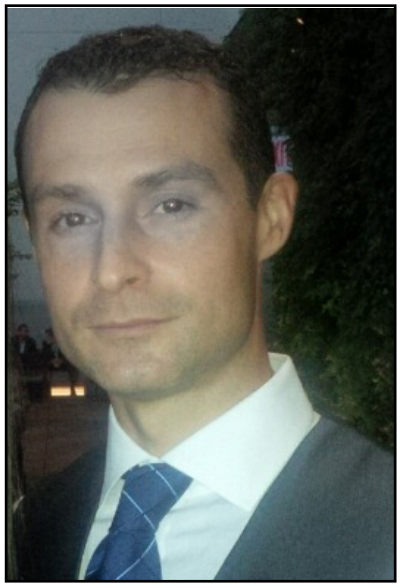
F&D Tool Company

Carbide and High Speed Cutting Tools

The Standard of Excellence

F&D Tool Co., Inc | (800) 338-6650 | www.fdtool.com | fdtoolco@gmail.com

Message from F&D Tool Co.



Welcome to our online catalog and thank you for choosing F&D Tool Company Inc. for your cutting tool needs.

Founded by Frank Falk and John Duda, Jr. in 1939 as a machine rebuilding company in Three Rivers, Massachusetts, F&D quickly began to build a reputation of excellence and expanded the business to become a manufacturer of standard and special cutting tools.

Today, F&D continues to adapt to the changing needs of its customers and is actively reinvesting in machining and other technology to help stay current with the latest innovations in the cutting tool field. F&D offers state of the art carbide and carbide tipped cutters that are designed and manufactured using the latest CAD software in a completely renovated engineering and milling department with its products being reviewed and tested in an improved quality control department.

For over 80 years, F&D has been a pioneer in the cutting tool industry. F&D began with a commitment and philosophy to produce superior quality products at competitive prices with a focus on customer satisfaction. Today, and as F&D moves into the future, the company and its third generation leader, Cort Duda, Boston College graduate and President of F&D, will honor and continue the traditions and philosophy upon which F&D was founded while maintaining and embracing flexibility to meet the ever changing demands of its customers and innovations in the industry.

F&D is proud to have served its customers and the tooling industry for over 80 years as a reliable and trusted manufacturer of cutting tools and looks forward to continuing to serve existing and new customers now and in the future.

Please contact us by phone at (800) 338-6650, by fax at (413) 289-1701, or by email at fdtoolco@gmail.com.

Thank you for your continued support and we look forward to working with you.

Cort Duda
President/CEO
F&D Tool Company

F&D Tool Company, Inc.

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Three Rivers, MA 01080
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Credit: We are able to ship open account upon your request to firms having satisfactory Dunn & Bradstreet ratings of HH2 or better. Accounts that are 45 days old are past due and put on hold. Non-rated accounts must send check with order or be shipped C.O.D. We also accept MasterCard & Visa.

Ordering: If you have never purchased from us, you can avoid delay by furnishing us with your bank's name and address, plus three trade references.

Guarantee: All material is fully guaranteed against defects in material or workmanship for 90 days from date of purchase.

Shipping Terms: All drop shipments are collect and all excelled methods of transportation are collect. We ship by United Parcel Service whenever possible. It is our objective to ship your order the same day it is placed.

Damaged, Lost, or Short Shipments UPS - Notify your local UPS office immediately. Advise us so we can reship the merchandise and place a claim. Keep damaged goods and containers for UPS inspection.

Claims: All claims for shortages, damages, or defects must be made within 5 days of receipt of goods, accompanied by an F&D invoice number.

Returns: All returns must be made within 90 days of delivery. No goods may be returned without authorization. A 10% handling charge will be made on all returns. You must include your invoice number with goods returned and goods must be in same condition as when shipped. All returns must be prepaid. Specials are non-returnable.

Terms of Payment: Standards 2/10, Net 30. Specials - Net 30. 1.5%/month surcharge over 30 days.

Bid & Quotation Service We solicit the opportunity to quote on your needs and to be placed on your bid list. Quotations are valid for 30 days.

Since we are continuously improving our products, it is possible that some tools may undergo dimensional changes without prior notice.

Any cutting tool may break or shatter under improper use. Governmental regulations require use of safety glasses and other appropriate safety equipment at all times in the vicinity of use. F&D Tool is not responsible for any cutting tool that is altered, damaged, or used subsequent to leaving the facility.

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All standard items subject to a 10% restocking fee
*Items with an * have a 15% restocking fee*

CARBIDE & HIGH SPEED CUTTING TOOLS

UNDER THE F&D TOOL TRADEMARK

In 1939, two ambitious young men, Frank Falk and John Duda, Jr., formed a machine rebuilding company in Three Rivers, Mass. They began to build upon a reputation of excellence in their work. With the war near its end, the owners decided to enter the manufacturing field of standard and special cutting tools. Theirs was a company based on a continuous policy of offering only superior products, dependable services and something that was, as yet, unheard of in the tooling industry - special cutters at standard prices. It was at this time that F&D began producing its famous "Step Tooth" milling cutters, an original design by John Duda, Jr. that has since been copied throughout the tool industry.

Today, F&D continues to adapt to the changing needs of its customers and is active in machining societies and organizations to stay current with the latest innovations in the cutting tool field. F&D offers state of the art carbide and carbide tipped cutters that are designed and manufactured using the latest CAD software in a completely renovated engineering department with its products being reviewed and tested in an improved quality control department. F&D continues to stock in-between sizes and offers twenty-four hour turnaround on specials. F&D also offers its extensive line of products on its newly revamped online website through which its customers can check the current list price, review specifications of a particular product, request a quote and place his or her order.

For over 80 years, F&D has been a pioneer in the cutting tool industry. F&D began with a commitment and philosophy to produce superior quality products at competitive prices with a focus on customer satisfaction. Today, and over the past three decades, under the leadership and management of attorney and electrical engineer Philip Duda, F&D continues to adhere to, and improve upon, that same commitment and philosophy. As F&D moves into the next generation, Philip has brought on board his son, Cort Duda, to honor and continue the traditions and philosophy upon which F&D was founded, while maintaining and embracing flexibility to meet the ever changing demands of its customers and innovations in the industry.

F&D is proud to have served its customers and the tooling industry for over 80 years as a reliable and trusted manufacturer of cutting tools and looks forward to continuing to serve existing and new customers now and in the future.

CARBIDE / HIGH SPEED STEEL

CUTTERS & SAWS

PLAIN MILLING CUTTERS

INTERLOCKING SIDE MILLING CUTTERS

N300
PLAIN TYPE
Teeth out of line

N350
STAGGERED TOOTH TYPE
Using two standards and grind hubs

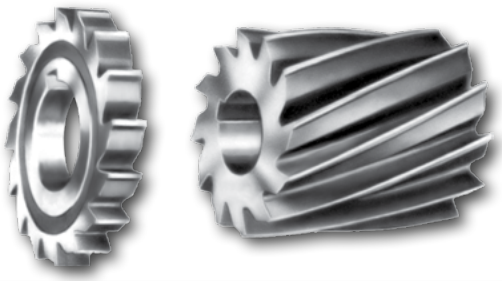
N400
PLAIN TYPE
General purpose application

N500
STAGGERED TOOTH TYPE
For Heavy duty application and deep slotting operations

N600
HERRINGBONE TYPE
Recommended for widths exceeding 1 1/2 inches

These cutters are designed for general purpose slotting operations and can be adjusted to cut a desired width. A shim inserted between the two interlocking parts permits width adjustment and maintenance of that width after resharpening. Each cutter has a 10° rake and 10° spiral in diameters up to 12" and infinite width range.

PLAIN MILLING CUTTERS
LIGHT DUTY - HIGH SPEED STEEL



These cutters are recommended for light milling or finishing cuts. Cutters less than 3/4" wide have straight teeth. Cutters 3/4" wide and over have spiral teeth and are regularly furnished with left hand spiral. **right hand spiral also available upon request**

Catalog EDI-Number	Dia	Width of Face	Hole Size
10501-A108	2 1/4	1/4	7/8
10502-A110	2 1/4	1/2	7/8
10503-A112	2 1/4	1	7/8
10504-A114	2 1/2	3/16	1
10505-A116	2 1/2	1/4	1
10506-A118	2 1/2	5/16	1
10507-A120	2 1/2	3/8	1
10508-A122	2 1/2	7/16	1
10509-A124	2 1/2	1/2	1
10510-A126	2 1/2	5/8	1
10511-A128	2 1/2	3/4	1
10513-A130	2 1/2	1	1
10515-A132	2 1/2	1 1/2	1
10516-A134	2 1/2	2	1
10518-A136	2 1/2	2 1/2	1
10520-A138	2 1/2	3	1
10522-A140	3	3/16	1
10523-A142	3	1/4	1
10524-A144	3	5/16	1
10525-A146	3	3/8	1
10526-A148	3	3/8	1 1/4
10527-A149	3	7/16	1
10528-A150	3	7/16	1 1/4
10529-A151	3	1/2	1
10530-A152	3	1/2	1 1/4

Catalog EDI-Number	Dia	Width of Face	Hole Size
10531-A153	3	5/8	1
10532-A154	3	5/8	1 1/4
10533-A156	3	3/4	1 1/4
10534-A158	3	7/8	1 1/4
10535-A160	3	1	1 1/4
10536-A162	3	1 1/4	1 1/4
10538-A164	3	1 1/2	1 1/4
10540-A166	3	2	1 1/4
10542-A167	3	2 1/2	1 1/4
10543-A168	3	3	1 1/4
10545-A169	3	4	1 1/4
10546-A170	4	1/4	1
10547-A172	4	1/4	1 1/4
10548-A174	4	5/16	1
10549-A176	4	5/16	1 1/4
10550-A178	4	3/8	1
10551-A180	4	3/8	1 1/4
10552-A182	4	1/2	1 1/4
10553-A184	4	5/8	1 1/4
10554-A186	4	3/4	1 1/4
10555-A188	4	1	1 1/4
10557-A190	4	1 1/2	1 1/4
10559-A192	4	2	1 1/4
10561-A194	4	3	1 1/4
10563-A196	4	4	1 1/4

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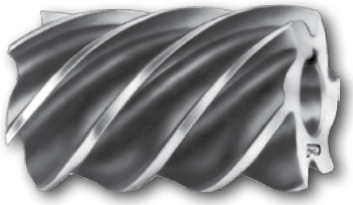
PLAIN MILLING CUTTERS
HEAVY DUTY - HIGH SPEED STEEL

- Excellent for heavy stock removal
- Regularly furnished with 45º L.H. spiral

Catalog EDI-Number	Dia.	Width of Face	Hole Size
10565-A210	2 1/2	2	1
10567-A212	2 1/2	4	1
10569-A213	3	1 1/4	1 1/4
10570-A213A	3	1 1/2	1 1/4
10571-A214	3	2	1 1/4
10573-A216	3	2 1/2	1 1/4
10575-A218	3	3	1 1/4
10577-A220	3	4	1 1/4
10579-A222	3	6	1 1/4
10581-A224	4	2	1 1/2
10583-A226	4	3	1 1/2
10585-A228	4	4	1 1/2
10587-A230	4	6	1 1/2
10588-A231	4	10	1 1/2
10589-A232	4 1/2	6	2
10590-A234	4 1/2	12	2

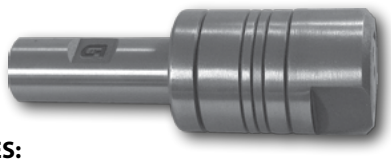
PLAIN MILLING CUTTERS
HELICAL - HIGH SPEED STEEL

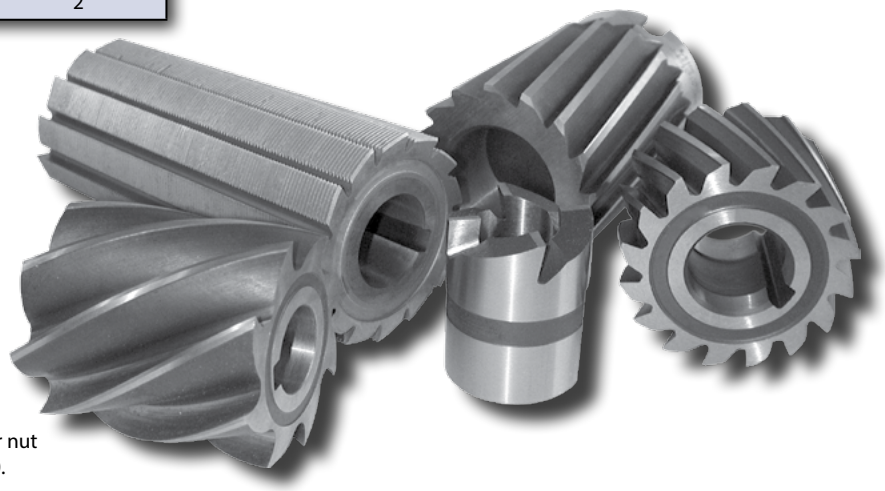


Helical Milling Cutters can be run at high speeds and will produce a smooth finish. F&D Helical Milling Cutters will not "hog" in when entering or leaving a cut and for this reason are well suited for milling thin pieces of steel or other pieces of metal which cannot be held securely in the milling machine.

Catalog EDI-Number	Dia.	Width of Face	Hole Size
10592-A308	3	3	1 1/4
10591-A310	3	4	1 1/4
10593-A312	3	6	1 1/4
10595-A313	4	3	1 1/2
10596-A314	4	4	1 1/2
10597-A316	4	6	1 1/2
10598-A318	4	8	1 1/2
10599-A320	4	10	1 1/2
10600-A322	4 1/2	6	2
10601-A324	4 1/2	12	2

STRAIGHT SHANK STUB
MILLING MACHINE ARBORS





FEATURES:
- For holding saws or small cutters
- These arbors are designed and made to fit directly into standard End Mill adapters
- Includes Spacers and nut
- Arbors furnished with standard keyways and L.H. Arbor nut
- See our full stock of arbors & holders on pages 126-130.

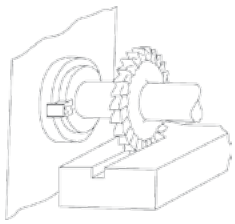
Catalog EDI-Number	Arbor Dia.	Shank Dia.	Shoulder to Nut	OAL
31094	1/2	1/2	1	3 3/8
31095	5/8	1/2	1	3 5/8
31096	3/4	1/2	1	3 7/8
31096A	1/2	3/4	1	3 5/8
31096B	5/8	3/4	1	*
31097	3/4	3/4	1	4 1/16
31098	7/8	3/4	1	4 1/4
31099	1	3/4	1	4 1/4
31100	1 1/4	3/4	1	4 7/16

Teeth Count for Plain Milling Cutters

	2 1/4	2 1/2	3	4	4 1/2
Plain Mill	14	14	16	18	
Heavy Duty Plain Mill		8	10	10	10
Helical			6	6	6

SIDE MILLING CUTTERS
HIGH SPEED STEEL

We have the largest and most varied range of sizes. Cutters can be ganged or used as straddle mills. Two different keyway locations permit interlocking. Cutters marked A & B will interlock when hubs are ground.



Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10701-A410	2	3/16	1/2	14
10702-A412	2	3/16	5/8	14
10703-A414	2	1/4	1/2	14
10704-A416	2	1/4	5/8	14
10705-A418	2	3/8	1/2	14
10706-A420	2	3/8	5/8	14
10706B-A380	2	5/8	1/2	14
10706C-A382	2	3/4	1/2	14
10706D-A384	2 1/2	3/16	1	16
10706E-A386	2 1/2	3/16	7/8	16
10707-A422	2 1/2	1/4	7/8	16
10708-A423	2 1/2	1/4	1	16
10709-A424	2 1/2	5/16	7/8	16
10710-A425	2 1/2	5/16	1	16
10711-A426	2 1/2	3/8	7/8	16
10712-A427	2 1/2	3/8	1	16
10713-A4275	2 1/2	7/16	1	16
10714-A428	2 1/2	1/2	7/8	16
10715-A429	2 1/2	1/2	1	16
10716-A4295	2 1/2	9/16	1	16
10717-A4305	2 1/2	5/8	1	16
10718-A5306	3	3/16	1	20
10719-A5307	3	3/16	1 1/4	20
10720-A3307	3	7/32	1	20
10721-A3308	3	7/32	1 1/4	20
10722-A430	3	1/4	1	20
10723-A5309	3	1/4	1 1/4	20
10724-A3309	3	9/32	1	20
10725-A3310	3	9/32	1 1/4	20
10726-A432	3	5/16	1	20
10727-A5311	3	5/16	1 1/4	20
10728-A3311	3	11/32	1	20
10729-A3312	3	11/32	1 1/4	20
10730-A434	3	3/8	1	20
10731-A5313	3	3/8	1 1/4	20
10732-A3313	3	13/32	1	20
10733-A3314	3	13/32	1 1/4	20
10734-A436	3	7/16	1	20
10735-A5315	3	7/16	1 1/4	20
10736-A438	3	1/2	1	20
10737-A5317	3	1/2	1 1/4	20
10738-A5318	3	9/16	1	20
10739-A5319	3	9/16	1 1/4	20
10740-A5320	3	5/8	1	20
10741-A5321	3	5/8	1 1/4	20
10742-A5322	3	11/16	1	20
10743-A5323	3	11/16	1 1/4	20
10744-A5324	3	3/4	1	20
10745-A5325	3	3/4	1 1/4	20
10746-A5326	3	13/16	1	20
10747-A5327	3	13/16	1 1/4	20
10748-A5328	3	7/8	1	20
10749-A5329	3	7/8	1 1/4	20
10750-A5330	3	15/16	1	20
10751-A5331	3	15/16	1 1/4	20
10752-A5332	3	1	1	20
10753-A5333	3	1	1 1/4	20
10754-A5346	3 1/2	3/16	1	20
10755-A5347	3 1/2	3/16	1 1/4	20
10756-A5348	3 1/2	1/4	1	20
10757-A5349	3 1/2	1/4	1 1/4	20
10758-A5350	3 1/2	5/16	1	20
10759-A5351	3 1/2	5/16	1 1/4	20
10760-A5352	3 1/2	3/8	1	20
10761-A5353	3 1/2	3/8	1 1/4	20
10762-A5354	3 1/2	7/16	1	20
10763-A5355	3 1/2	7/16	1 1/4	20
10764-A5356	3 1/2	1/2	1	20
10765-A5357	3 1/2	1/2	1 1/4	20
10766-A5358	3 1/2	9/16	1	20
10767-A5359	3 1/2	9/16	1 1/4	20
10768-A5360	3 1/2	5/8	1	20
10769-A5361	3 1/2	5/8	1 1/4	20
10770-A5362	3 1/2	11/16	1	20
10771-A5363	3 1/2	11/16	1 1/4	20
10772-A5364	3 1/2	3/4	1	20
10773-A5365	3 1/2	3/4	1 1/4	20
10774-A5366	3 1/2	13/16	1	20
10775-A5367	3 1/2	13/16	1 1/4	20
10776-A5368	3 1/2	7/8	1	20
10777-A5369	3 1/2	7/8	1 1/4	20
10778-A5370	3 1/2	15/16	1	20
10779-A5371	3 1/2	15/16	1 1/4	20
10780-A5372	3 1/2	1	1	20
10781-A5373	3 1/2	1	1 1/4	20

SIDE MILLING CUTTERS HSS

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10781B-A5407	4	3/16	1	24
10781C-A5408	4	3/16	1 1/4	24
10781D-A3407	4	7/32	1	24
10781E-A3408	4	7/32	1 1/4	24
10782-A440	4	1/4	1	24
10783-A5409	4	1/4	1 1/4	24
10784-A3409	4	9/32	1	24
10785-A3410	4	9/32	1 1/4	24
10786-A5410	4	5/16	1	24
10787-A5411	4	5/16	1 1/4	24
10788-A3411	4	11/32	1	24
10789-A3412	4	11/32	1 1/4	24
10790-A442	4	3/8	1	24
10791-A5413	4	3/8	1 1/4	24
10792-A3413	4	13/32	1	24
10793-A3414	4	13/32	1 1/4	24
10794-A5414	4	7/16	1	24
10795-A5415	4	7/16	1 1/4	24
10796-A3415	4	15/32	1	24
10797-A3416	4	15/32	1 1/4	24
10798-A444	4	1/2	1	24
10799-A446	4	1/2	1 1/4	24
10800-A5418	4	9/16	1	24
10801-A5419	4	9/16	1 1/4	24
10802-A448	4	5/8	1	24
10803-A450	4	5/8	1 1/4	24
10804-A5422	4	11/16	1	24
10805-A5423	4	11/16	1 1/4	24
10806-A452	4	3/4	1	24
10807-A454	4	3/4	1 1/4	24
10808-A5426	4	13/16	1	24
10809-A5427	4	13/16	1 1/4	24
10810-A456	4	7/8	1	24
10811-A458	4	7/8	1 1/4	24
10812-A5430	4	15/16	1	24
10813-A5431	4	15/16	1 1/4	24
10814-A5432	4	1	1	24
10815-A5433	4	1	1 1/4	24
10815B-A5446	4 1/2	3/16	1	24
10815C-A5447	4 1/2	3/16	1 1/4	24
10816-A5448	4 1/2	1/4	1	24
10817-A5449	4 1/2	1/4	1 1/4	24
10818-A5450	4 1/2	5/16	1	24
10819-A5451	4 1/2	5/16	1 1/4	24
10820-A5452	4 1/2	3/8	1	24
10821-A5453	4 1/2	3/8	1 1/4	24
10822-A5456	4 1/2	1/2	1	24

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10823-A5457	4 1/2	1/2	1 1/4	24
10824-A5460	4 1/2	5/8	1	24
10825-A5461	4 1/2	5/8	1 1/4	24
10826-A5464	4 1/2	3/4	1	24
10827-A5465	4 1/2	3/4	1 1/4	24
10828-A5468	4 1/2	7/8	1	24
10829-A5469	4 1/2	7/8	1 1/4	24
10830-A5472	4 1/2	1	1	24
10831-A5473	4 1/2	1	1 1/4	24
10831B-A5506	5	3/16	1	24*
10831C-A5507	5	3/16	1 1/4	24*
10831D-A3507	5	7/32	1	24*
10831E-A3508	5	7/32	1 1/4	24*
10832-A5508	5	1/4	1	24*
10833-A5509	5	1/4	1 1/4	24*
10834-A3509	5	9/32	1	24*
10835-A3510	5	9/32	1 1/4	24*
10836-A5510	5	5/16	1	24*
10837-A5511	5	5/16	1 1/4	24*
10838-A3511	5	11/32	1	24*
10839-A3512	5	11/32	1 1/4	24*
10840-A5512	5	3/8	1	24*
10841-A5513	5	3/8	1 1/4	24*
10842-A3513	5	13/32	1	24*
10843-A3514	5	13/32	1 1/4	24*
10844-A5514	5	7/16	1	24*
10845-A5515	5	7/16	1 1/4	24*
10846-A3515	5	15/32	1	24*
10847-A3516	5	15/32	1 1/4	24*
10848-A460	5	1/2	1	24*
10849-A462	5	1/2	1 1/4	24*
10850-A5518	5	9/16	1	24*
10851-A5519	5	9/16	1 1/4	24*
10852-A464	5	5/8	1	24*
10853-A466	5	5/8	1 1/4	24*
10854-A5522	5	11/16	1	24*
10855-A5523	5	11/16	1 1/4	24*
10856-A468	5	3/4	1	24*
10857-A470	5	3/4	1 1/4	24*
10858-A5526	5	13/16	1	24*
10859-A5527	5	13/16	1 1/4	24*
10860-A5528	5	7/8	1	24*
10861-A5529	5	7/8	1 1/4	24*
10862-A5530	5	15/16	1	24*
10863-A5531	5	15/16	1 1/4	24*
10864-A5532	5	1	1	24*
10865-A472	5	1	1 1/4	24*

** These cutters are available in 26 as well as 24, please specify tooth count when ordering.*

SIDE MILLING CUTTERS

SIDE MILLING CUTTERS HSS

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10865B-A5546	5 1/2	3/16	1	28
10865C-A5547	5 1/2	3/16	1 1/4	28
10866-A5548	5 1/2	1/4	1	28
10867-A5549	5 1/2	1/4	1 1/4	28
10868-A5550	5 1/2	5/16	1	28
10869-A5551	5 1/2	5/16	1 1/4	28
10870-A5552	5 1/2	3/8	1	28
10871-A5553	5 1/2	3/8	1 1/4	28
10872-A5556	5 1/2	1/2	1	28
10873-A5557	5 1/2	1/2	1 1/4	28
10874-A5560	5 1/2	5/8	1	28
10875-A5561	5 1/2	5/8	1 1/4	28
10876-A5564	5 1/2	3/4	1	28
10877-A5565	5 1/2	3/4	1 1/4	28
10877B-A390	5 1/2	13/16	1	28
10877C-A392	5 1/2	13/16	1 1/4	28
10878-A5568	5 1/2	7/8	1	28
10879-A5569	5 1/2	7/8	1 1/4	28
10879B-A394	5 1/2	15/16	1	28
10879C-A396	5 1/2	15/16	1 1/4	28
10880-A5572	5 1/2	1	1	28
10881-A5573	5 1/2	1	1 1/4	28
10882-A5580	5 1/2	1 1/4	1	28
10883-A5581	5 1/2	1 1/4	1 1/4	28
10883B-A5606	6	3/16	1	30
10883C-A5607	6	3/16	1 1/4	30
10883D-A3607	6	7/32	1	30
10883E-A3608	6	7/32	1 1/4	30
10884-A5608	6	1/4	1	30
10885-A5609	6	1/4	1 1/4	30
10886-A3609	6	9/32	1	30
10887-A3610	6	9/32	1 1/4	30
10888-A5610	6	5/16	1	30
10889-A5611	6	5/16	1 1/4	30
10890-A3611	6	11/32	1	30
10891-A3612	6	11/32	1 1/4	30
10892-A5612	6	3/8	1	30
10893-A5613	6	3/8	1 1/4	30
10894-A3613	6	13/32	1	30
10895-A3614	6	13/32	1 1/4	30
10896-A5614	6	7/16	1	30
10897-A5615	6	7/16	1 1/4	30
10898-A3615	6	15/32	1	30
10899-A3616	6	15/32	1 1/4	30
10900-A474	6	1/2	1	30
10901-A476	6	1/2	1 1/4	30
10902-A5618	6	9/16	1	30
10903-A5619	6	9/16	1 1/4	30
10904-A5620	6	5/8	1	30
10905-A478	6	5/8	1 1/4	30
10906-A5622	6	11/16	1	30

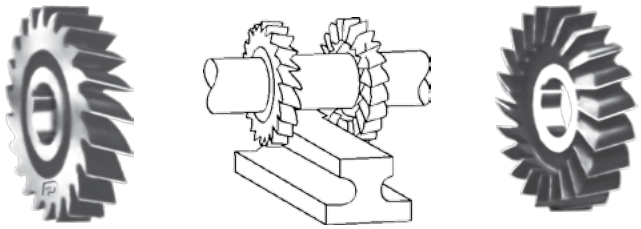
Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10907-A5623	6	11/16	1 1/4	30
10908-A480	6	3/4	1	30
10909-A482	6	3/4	1 1/4	30
10910-A5626	6	13/16	1	30
10911-A5627	6	13/16	1 1/4	30
10912-A5628	6	7/8	1	30
10913-A5629	6	7/8	1 1/4	30
10914-A5630	6	15/16	1	30
10915-A5631	6	15/16	1 1/4	30
10916-A5632	6	1	1	30
10917-A484	6	1	1 1/4	30
10918-A5708	7	1/4	1 1/4	32
10919-A5710	7	5/16	1 1/4	32
10920-A5712	7	3/8	1 1/4	32
10921-A5714	7	7/16	1 1/4	32
10922-A5716	7	1/2	1 1/4	32
10923-A5718	7	9/16	1 1/4	32
10924-A5720	7	5/8	1 1/4	32
10925-A5722	7	11/16	1 1/4	32
10926-A486	7	3/4	1 1/4	32
10927-A5726	7	13/16	1 1/4	32
10928-A5728	7	7/8	1 1/4	32
10929-A5730	7	15/16	1 1/4	32
10930-A488	7	1	1 1/4	32
10931-A5808	8	1/4	1 1/4	34
10932-A5810	8	5/16	1 1/4	34
10933-A5812	8	3/8	1 1/4	34
10934-A5814	8	7/16	1 1/4	34
10935-A5816	8	1/2	1 1/4	34
10936-A5818	8	9/16	1 1/4	34
10937-A5820	8	5/8	1 1/4	34
10938-A5822	8	11/16	1 1/4	34
10939-A490	8	3/4	1 1/4	34
10940-A5826	8	13/16	1 1/4	34
10941-A5828	8	7/8	1 1/4	34
10942-A5830	8	15/16	1 1/4	34
10943-A492	8	1	1 1/4	34
10944-A5908	9	1/4	1 1/4	36
10945-A5910	9	5/16	1 1/4	36
10946-A5912	9	3/8	1 1/4	36
10947-A5914	9	7/16	1 1/4	36
10948-A5916	9	1/2	1 1/4	36
10949-A5917	9	9/16	1 1/4	36
10950-A5918	9	5/8	1 1/4	36

SIDE MILLING CUTTERS HSS

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10951-A5920	9	11/16	1 1/4	36
10952-A5924	9	3/4	1 1/4	36
10953-A5926	9	13/16	1 1/4	36
10954-A5928	9	7/8	1 1/4	36
10955-A5930	9	15/16	1 1/4	36
10956-A5932	9	1	1 1/4	36
10957-A6009	10	1/4	1 1/2	38
10958-A6011	10	5/16	1 1/2	38
10959-A6013	10	3/8	1 1/2	38
10960-A6015	10	7/16	1 1/2	38
10961-A6017	10	1/2	1 1/2	38
10962-A6019	10	9/16	1 1/2	38
10963-A6021	10	5/8	1 1/2	38
10964-A6023	10	11/16	1 1/2	38
10965-A6025	10	3/4	1 1/2	38
10966-A6027	10	13/16	1 1/2	38

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
10967-A6029	10	7/8	1 1/2	38
10968-A6031	10	15/16	1 1/2	38
10969-A6033	10	1	1 1/2	38
10970-A6209	12	1/4	1 1/2	42
10971-A6211	12	5/16	1 1/2	42
10972-A6213	12	3/8	1 1/2	42
10973-A6215	12	7/16	1 1/2	42
10974-A6217	12	1/2	1 1/2	42
10975-A6219	12	9/16	1 1/2	42
10976-A6221	12	5/8	1 1/2	42
10977-A6223	12	11/16	1 1/2	42
10978-A6225	12	3/4	1 1/2	42
10979-A6227	12	13/16	1 1/2	42
10980-A6229	12	7/8	1 1/2	42
10981-A6231	12	15/16	1 1/2	42
10982-A6233	12	1	1 1/2	42

HALF SIDE MILLING CUTTERS
HIGH SPEED STEEL OR COBALT



HIGH SPEED STEEL ***Specify whether left or right hand cutters are required*** **COBALT**

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11801-A610R	4	3/4	1 1/4	16
11802-A610L	4	3/4	1 1/4	16
11803-A612R	5	3/4	1 1/4	18
11804-A612L	5	3/4	1 1/4	18
11804B-A602R	5 1/2	7/16	1 1/4	18
11804C-A602L	5 1/2	7/16	1 1/4	18
11804D-A604R	5 1/2	9/16	1 1/4	18
11804E-A604L	5 1/2	9/16	1 1/4	18
11804F-A606R	5 1/2	11/16	1 1/4	18
11804G-A606L	5 1/2	11/16	1 1/4	18
11805-A614R	6	3/4	1 1/4	20
11806-A614L	6	3/4	1 1/4	20
11807-A616R	6	1	1 1/2	20
11808-A616L	6	1	1 1/2	20
11809-A618R	7	3/4	1 1/2	22
11810-A618L	7	3/4	1 1/2	22
11811-A620R	7	1	1 1/2	22
11812-A620L	7	1	1 1/2	22
11813-A622R	8	3/4	1 1/2	24
11814-A622L	8	3/4	1 1/2	24
11815-A624R	8	1	1 1/2	24
11816-A624L	8	1	1 1/2	24

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11821-AX610R	4	3/4	1 1/4	16
11822-AX610L	4	3/4	1 1/4	16
11823-AX612R	5	3/4	1 1/4	18
11824-AX612L	5	3/4	1 1/4	18
11824B-AX602R	5 1/2	7/16	1 1/4	18
11824C-AX602L	5 1/2	7/16	1 1/4	18
11824D-AX604R	5 1/2	9/16	1 1/4	18
11824E-AX604L	5 1/2	9/16	1 1/4	18
11824F-AX606R	5 1/2	11/16	1 1/4	18
11824G-AX606L	5 1/2	11/16	1 1/4	18
11825-AX614R	6	3/4	1 1/4	20
11826-AX614L	6	3/4	1 1/4	20
11827-AX616R	6	1	1 1/2	20
11828-AX616L	6	1	1 1/2	20
11829-AX618R	7	3/4	1 1/2	22
11830-AX618L	7	3/4	1 1/2	22
11831-AX620R	7	1	1 1/2	22
11832-AX620L	7	1	1 1/2	22
11833-AX622R	8	3/4	1 1/2	24
11834-AX622L	8	3/4	1 1/2	24
11835-AX624R	8	1	1 1/2	24
11836-AX624L	8	1	1 1/2	24

STAG MILLING CUTTERS

STAGGERED TOOTH SIDE MILLING CUTTERS HIGH SPEED STEEL

This type of cutter is recommended for slotting operations. The alternate spiral effectively counteracts all tendency to chatter. Keyways are located so that cutters of equal diameter and equal number of teeth can be interlocked by grinding hubs to required thickness.

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11001-K114	2 1/8	3/16	3/4	14
11002-K116	2 1/8	1/4	3/4	14
11003-K118	2 1/8	5/16	3/4	14
11004-K120	2 1/8	3/8	3/4	14
11000-A509	2 1/2	3/16	1	16
11005-A510	2 1/2	1/4	7/8	16
11006-A511	2 1/2	1/4	1	16
11007-A512	2 1/2	5/16	7/8	16
11008-A513	2 1/2	5/16	1	16
11009-A514	2 1/2	3/8	7/8	16
11010-A515	2 1/2	3/8	1	16
11011-A515A	2 1/2	7/16	1	16
11012-A516	2 1/2	1/2	7/8	16
11013-A516A	2 1/2	1/2	1	16
11014-A517	2 1/2	9/16	1	16
11015-A517A	2 1/2	5/8	1	16
11016-K216	2 3/4	1/4	1	16
11017-K218	2 3/4	5/16	1	16
11018-K220	2 3/4	3/8	1	16
11019-K222	2 3/4	7/16	1	16
11020-K224	2 3/4	1/2	1	16
11021-A518	3	3/16	1	16
11022-A7307	3	3/16	1 1/4	16
11023-A2307	3	7/32	1	16
11024-A2308	3	7/32	1 1/4	16
11025-A520	3	1/4	1	16
11026-A7309	3	1/4	1 1/4	16
11027-A2309	3	9/32	1	16
11028-A2310	3	9/32	1 1/4	16
11029-A522	3	5/16	1	16
11030-A7311	3	5/16	1 1/4	16
11031-A2311	3	11/32	1	16
11032-A2312	3	11/32	1 1/4	16
11033-A524	3	3/8	1	16
11034-A7313	3	3/8	1 1/4	16
11035-A2313	3	13/32	1	16
11036-A2314	3	13/32	1 1/4	16
11037-A7314	3	7/16	1	16
11038-A7315	3	7/16	1 1/4	16
11039-A7316	3	1/2	1	16
11040-A526	3	1/2	1 1/4	16
11041-A7318	3	9/16	1	16
11042-A7319	3	9/16	1 1/4	16
11043-A7320	3	5/8	1	16
11044-A528	3	5/8	1 1/4	16
11045-A7322	3	11/16	1	16

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11046-A7323	3	11/16	1 1/4	16
11047-A7324	3	3/4	1	16
11048-A530	3	3/4	1 1/4	16
11049-A7326	3	13/16	1	16
11050-A7327	3	13/16	1 1/4	16
11051-A7328	3	7/8	1	16
11052-A7329	3	7/8	1 1/4	16
11053-A7330	3	15/16	1	16
11054-A7331	3	15/16	1 1/4	16
11055-A7332	3	1	1	16
11056-A7333	3	1	1 1/4	16
11057-A7335	3	1 1/4	1	16
11058-A7337	3	1 1/4	1 1/4	16
11059-A7340	3 1/4	1/4	1 1/4	18
11060-A7341	3 1/4	3/8	1 1/4	18
11061-A7342	3 1/4	1/2	1 1/4	18
11062-A7343	3 1/4	3/4	1 1/4	18
11365-A7346	3 1/2	7/32	1	18
11366-A7347	3 1/2	7/32	1 1/4	18
11063-A7348	3 1/2	1/4	1	18
11064-A7349	3 1/2	1/4	1 1/4	18
11065-A7350	3 1/2	5/16	1	18
11066-A7351	3 1/2	5/16	1 1/4	18
11067-K420	3 1/2	3/8	1	18
11068-A7353	3 1/2	3/8	1 1/4	18
11069-K422	3 1/2	7/16	1	18
11070-A7355	3 1/2	7/16	1 1/4	18
11071-K424	3 1/2	1/2	1	18
11072-A7357	3 1/2	1/2	1 1/4	18
11073-K426	3 1/2	9/16	1	18
11074-A7359	3 1/2	9/16	1 1/4	18
11075-K428	3 1/2	5/8	1	18
11076-A7361	3 1/2	5/8	1 1/4	18
11077-K430	3 1/2	11/16	1	18
11078-A7363	3 1/2	11/16	1 1/4	18
11079-K432	3 1/2	3/4	1	18
11080-A7365	3 1/2	3/4	1 1/4	18
11081-A7366	3 1/2	13/16	1	18
11082-A7367	3 1/2	13/16	1 1/4	18
11083-A7368	3 1/2	7/8	1	18
11084-A7369	3 1/2	7/8	1 1/4	18
11085-A7370	3 1/2	15/16	1	18
11086-A7371	3 1/2	15/16	1 1/4	18
11087-A7372	3 1/2	1	1	18
11088-A7373	3 1/2	1	1 1/4	18
11089-A7380	3 3/4	1/4	1 1/4	18

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STAGGERED TOOTH SIDE MILLING CUTTERS HSS

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11090-A7381	3 3/4	3/8	1 1/4	18
11091-A7382	3 3/4	1/2	1 1/4	18
11092-A7383	3 3/4	3/4	1 1/4	18
11093-A7406	4	3/16	1	18
11094-A7407	4	3/16	1 1/4	18
11095-A2407	4	7/32	1	18
11096-A2408	4	7/32	1 1/4	18
11097-A7408	4	1/4	1	18
11098-A532	4	1/4	1 1/4	18
11099-A2409	4	9/32	1	18
11100-A2410	4	9/32	1 1/4	18
11101-A7410	4	5/16	1	18
11102-A534	4	5/16	1 1/4	18
11103-A2411	4	11/32	1	18
11104-A2412	4	11/32	1 1/4	18
11105-A7412	4	3/8	1	18
11106-A536	4	3/8	1 1/4	18
11107-A2413	4	13/32	1	18
11108-A2414	4	13/32	1 1/4	18
11109-A7414	4	7/16	1	18
11110-A538	4	7/16	1 1/4	18
11111-A2415	4	15/32	1	18
11112-A2416	4	15/32	1 1/4	18
11113-A7416	4	1/2	1	18
11114-A540	4	1/2	1 1/4	18
11115-A7418	4	9/16	1	18
11116-A7419	4	9/16	1 1/4	18
11117-A7420	4	5/8	1	18
11118-A542	4	5/8	1 1/4	18
11119-A7422	4	11/16	1	18
11120-A7423	4	11/16	1 1/4	18
11121-A7424	4	3/4	1	18
11122-A544	4	3/4	1 1/4	18
11123-A7426	4	13/16	1	18
11124-A7427	4	13/16	1 1/4	18
11125-A7428	4	7/8	1	18
11126-A546	4	7/8	1 1/4	18
11127-A7430	4	15/16	1	18
11128-A7431	4	15/16	1 1/4	18
11129-A7432	4	1	1	18
11130-A7433	4	1	1 1/4	18
11131-A7437	4	1 1/8	1 1/4	18
11132-A7439	4	1 3/16	1 1/4	18
11133-A7441	4	1 1/4	1 1/4	18
11134-A7440	4	1 3/8	1 1/4	18
11135-A7442	4	1 1/2	1 1/4	18
11136-A7443	4 1/4	1/4	1 1/4	18

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11137-A7444	4 1/4	3/8	1 1/4	18
11138-A7445	4 1/4	1/2	1 1/4	18
11139-A7446	4 1/4	3/4	1 1/4	18
11140-A7447	4 1/2	7/32	1	18
11141-A2447	4 1/2	7/32	1 1/4	18
11142-A7448	4 1/2	1/4	1	18
11143-A7449	4 1/2	1/4	1 1/4	18
11144-A7450	4 1/2	5/16	1	18
11145-A7451	4 1/2	5/16	1 1/4	18
11146-A7452	4 1/2	3/8	1	18
11147-A7453	4 1/2	3/8	1 1/4	18
11148-A7456	4 1/2	1/2	1	18
11149-A7457	4 1/2	1/2	1 1/4	18
11150-A7460	4 1/2	5/8	1	18
11151-A7461	4 1/2	5/8	1 1/4	18
11152-A7464	4 1/2	3/4	1	18
11153-A7465	4 1/2	3/4	1 1/4	18
11154-A7468	4 1/2	7/8	1	18
11155-A7469	4 1/2	7/8	1 1/4	18
11156-A7472	4 1/2	1	1	18
11157-A7473	4 1/2	1	1 1/4	18
11158-A7480	4 1/2	1 1/4	1	18
11159-A7481	4 1/2	1 1/4	1 1/4	18
11159A-A2505	5	3/16	1	24*
11159B-A2506	5	3/16	1 1/4	24*
11160-A2507	5	7/32	1	24*
11161-A2508	5	7/32	1 1/4	24*
11162-A7508	5	1/4	1	24*
11163-A7509	5	1/4	1 1/4	24*
11164-A2509	5	9/32	1	24*
11165-A2510	5	9/32	1 1/4	24*
11166-A7510	5	5/16	1	24*
11167-A7511	5	5/16	1 1/4	24*
11168-A2511	5	11/32	1	24*
11169-A2512	5	11/32	1 1/4	24*
11170-A7512	5	3/8	1	24*
11171-A7513	5	3/8	1 1/4	24*
11172-A2513	5	13/32	1	24*
11173-A2514	5	13/32	1 1/4	24*
11174-A7514	5	7/16	1	24*
11175-A7515	5	7/16	1 1/4	24*
11176-A2515	5	15/32	1	24*
11177-A2516	5	15/32	1 1/4	24*
11178-A7516	5	1/2	1	24*
11179-A548	5	1/2	1 1/4	24*
11180-A7518	5	9/16	1	24*
11181-A7519	5	9/16	1 1/4	24*

** These cutters can come in 26 teeth as well as 24, please be sure to specify tooth count when ordering.*

STAG MILLING CUTTERS

STAGGERED TOOTH SIDE MILLING CUTTERS HSS

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11182-A7520	5	5/8	1	24*
11183-A550	5	5/8	1 1/4	24*
11184-A7522	5	11/16	1	24*
11185-A7523	5	11/16	1 1/4	24*
11186-A7524	5	3/4	1	24*
11187-A552	5	3/4	1 1/4	24*
11188-A7526	5	13/16	1	24*
11189-A7527	5	13/16	1 1/4	24*
11190-A7528	5	7/8	1	24*
11191-A7529	5	7/8	1 1/4	24*
11192-A7531	5	15/16	1 1/4	24*
11193-A7533	5	1	1 1/4	24*
11194-A7541	5	1 1/4	1 1/4	24*
11195-A7545	5	1 1/2	1 1/4	24*
11196-A7548	5 1/2	1/4	1	24
11197-A7549	5 1/2	1/4	1 1/4	24
11198-A7550	5 1/2	5/16	1	24
11199-A7551	5 1/2	5/16	1 1/4	24
11200-A7552	5 1/2	3/8	1	24
11201-A7553	5 1/2	3/8	1 1/4	24
11202-A7566	5 1/2	1/2	1	24
11203-A7557	5 1/2	1/2	1 1/4	24
11204-A7560	5 1/2	5/8	1	24
11205-A7561	5 1/2	5/8	1 1/4	24
11206-A7564	5 1/2	3/4	1	24
11207-A7565	5 1/2	3/4	1 1/4	24
11208-A7568	5 1/2	7/8	1	24
11209-A7569	5 1/2	7/8	1 1/4	24
11210-A7572	5 1/2	1	1	24
11211-A7573	5 1/2	1	1 1/4	24
11212-A7580	5 1/2	1 1/4	1	24
11213-A7581	5 1/2	1 1/4	1 1/4	24
11213A-A2605	6	3/16	1	24
11213B-A2606	6	3/16	1 1/4	24
11214-A2607	6	7/32	1	24
11215-A2608	6	7/32	1 1/4	24
11216-A4608	6	7/32	1 1/2	24
11217-A7608	6	1/4	1	24
11218-A7609	6	1/4	1 1/4	24
11219-A4609	6	1/4	1 1/2	24
11220-A2609	6	9/32	1	24
11221-A2610	6	9/32	1 1/4	24
11222-A4610	6	9/32	1 1/2	24
11223-A7610	6	5/16	1	24
11224-A7611	6	5/16	1 1/4	24
11225-A4611	6	5/16	1 1/2	24
11226-A2611	6	11/32	1	24

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11227-A2612	6	11/32	1 1/4	24
11228-A4612	6	11/32	1 1/2	24
11229-A7612	6	3/8	1	24
11230-A554	6	3/8	1 1/4	24
11231-A4613	6	3/8	1 1/2	24
11232-A2612	6	13/32	1	24
11233-A4612	6	13/32	1 1/4	24
11234-A7612	6	13/32	1 1/2	24
11235-A554	6	7/16	1	24
11236-A4613	6	7/16	1 1/4	24
11237-A4615	6	7/16	1 1/2	24
11238-A2615	6	15/32	1	24
11239-A2616	6	15/32	1 1/4	24
11240-A4616	6	15/32	1 1/2	24
11241-A7616	6	1/2	1	24
11242-A556	6	1/2	1 1/4	24
11243-A4617	6	1/2	1 1/2	24
11244-A557	6	17/32	1	24
11245-A7617	6	17/32	1 1/4	24
11246-A4618	6	17/32	1 1/2	24
11247-A7618	6	9/16	1	24
11248-A7619	6	9/16	1 1/4	24
11249-A4619	6	9/16	1 1/2	24
11250-A7620	6	5/8	1	24
11251-A558	6	5/8	1 1/4	24
11252-A4622	6	5/8	1 1/2	24
11253-A7622	6	11/16	1	24
11254-A7623	6	11/16	1 1/4	24
11255-A4623	6	11/16	1 1/2	24
11256-A7624	6	3/4	1	24
11257-A560	6	3/4	1 1/4	24
11258-A4626	6	3/4	1 1/2	24
11259-A7626	6	13/16	1	24
11260-A7627	6	13/16	1 1/4	24
11261-A4627	6	13/16	1 1/2	24
11262-A7628	6	7/8	1	24
11263-A562	6	7/8	1 1/4	24
11264-A4631	6	7/8	1 1/2	24
11265-A7631	6	15/16	1 1/4	24
11266-A4632	6	15/16	1 1/2	24
11267-A564	6	1	1 1/4	24
11268-A4637	6	1	1 1/2	24
11269-A7635	6	1 1/16	1 1/4	24
11270-A7637	6	1 1/8	1 1/4	24
11271-A7639	6	1 3/16	1 1/4	24
11272-A7641	6	1 1/4	1 1/4	24
11273-A7708	7	1/4	1 1/4	24

** These cutters can come in 26 teeth as well as 24, please be sure to specify tooth count when ordering.*

STAGGERED TOOTH SIDE MILLING CUTTERS HSS

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11274-A4708	7	1/4	1 1/2	24
11275-A7710	7	5/16	1 1/4	24
11276-A4710	7	5/16	1 1/2	24
11277-A7712	7	3/8	1 1/4	24
11278-A4712	7	3/8	1 1/2	24
11279-A7714	7	7/16	1 1/4	24
11280-A4714	7	7/16	1 1/2	24
11281-A7716	7	1/2	1 1/4	24
11282-A4716	7	1/2	1 1/2	24
11283-A7718	7	9/16	1 1/4	24
11284-A4718	7	9/16	1 1/2	24
11285-A7720	7	5/8	1 1/4	24
11286-A4720	7	5/8	1 1/2	24
11287-A7722	7	11/16	1 1/4	24
11288-A4722	7	11/16	1 1/2	24
11289-A7724	7	3/4	1 1/4	24
11290-A4724	7	3/4	1 1/2	24
11291-A7726	7	13/16	1 1/4	24
11292-A4726	7	13/16	1 1/2	24
11293-A7728	7	7/8	1 1/4	24
11294-A4728	7	7/8	1 1/2	24
11295-A7730	7	15/16	1 1/4	24
11296-A4730	7	15/16	1 1/2	24
11297-A7732	7	1	1 1/4	24
11298-A4732	7	1	1 1/2	24
11299-A7808	8	1/4	1 1/4	28
11300-A7809	8	1/4	1 1/2	28
11301-A7810	8	5/16	1 1/4	28
11302-A7811	8	5/16	1 1/2	28
11303-A7812	8	3/8	1 1/4	28
11304-A566	8	3/8	1 1/2	28
11305-A7814	8	7/16	1 1/4	28
11306-A7815	8	7/16	1 1/2	28
11307-A7816	8	1/2	1 1/4	28
11308-A568	8	1/2	1 1/2	28
11309-A7818	8	9/16	1 1/4	28
11310-A7819	8	9/16	1 1/2	28
11311-A7820	8	5/8	1 1/4	28
11312-A570	8	5/8	1 1/2	28
11313-A7822	8	11/16	1 1/4	28
11314-A7823	8	11/16	1 1/2	28
11315-A7824	8	3/4	1 1/4	28
11316-A572	8	3/4	1 1/2	28
11317-A7826	8	13/16	1 1/4	28
11318-A7827	8	13/16	1 1/2	28

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11319-A7828	8	7/8	1 1/4	28
11320-A574	8	7/8	1 1/2	28
11321-A7830	8	15/16	1 1/4	28
11322-A7831	8	15/16	1 1/2	28
11323-A7832	8	1	1 1/4	28
11324-A576	8	1	1 1/2	28
11325-A582	8	1 1/4	1 1/4	28
11326-A584	8	1 1/4	1 1/2	28
11327-A7908	9	1/4	1 1/4	28
11328-A7909	9	1/4	1 1/2	28
11329-A7912	9	3/8	1 1/4	28
11330-A7913	9	3/8	1 1/2	28
11331-A7916	9	1/2	1 1/4	28
11332-A7917	9	1/2	1 1/2	28
11333-A7920	9	5/8	1 1/4	28
11334-A7921	9	5/8	1 1/2	28
11335-A7924	9	3/4	1 1/4	28
11336-A7925	9	3/4	1 1/2	28
11337-A7932	9	1	1 1/4	28
11338-A7933	9	1	1 1/2	28
11339-A8009	10	1/4	1 1/2	32
11340-A8011	10	5/16	1 1/2	32
11341-A8013	10	3/8	1 1/2	32
11342-A8015	10	7/16	1 1/2	32
11343-A8017	10	1/2	1 1/2	32
11344-A8019	10	9/16	1 1/2	32
11345-A8021	10	5/8	1 1/2	32
11346-A8023	10	11/16	1 1/2	32
11347-A8025	10	3/4	1 1/2	32
11348-A8027	10	13/16	1 1/2	32
11349-A8029	10	7/8	1 1/2	32
11350-A8031	10	15/16	1 1/2	32
11351-A8033	10	1	1 1/2	32
11352-A8209	12	1/4	1 1/2	36
11353-A8211	12	5/16	1 1/2	36
11354-A8213	12	3/8	1 1/2	36
11355-A8215	12	7/16	1 1/2	36
11356-A8217	12	1/2	1 1/2	36
11357-A8219	12	9/16	1 1/2	36
11358-A8221	12	5/8	1 1/2	36
11359-A8223	12	11/16	1 1/2	36
11360-A8225	12	3/4	1 1/2	36
11361-A8227	12	13/16	1 1/2	36
11362-A8229	12	7/8	1 1/2	36
11363-A8231	12	15/16	1 1/2	36
11364-A8233	12	1	1 1/2	36

MILLING CUTTERS FOR ALUMINUM

STAGGERED TOOTH FOR ALUMINUM CUTTING WITH 20° DEGREE HELIX

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11718-AL2408	4	7/32	1 1/4	10
11701-AL532	4	1/4	1 1/4	10
11719-AL2410	4	9/32	1 1/4	10
11702-AL534	4	5/16	1 1/4	10
11721-AL2412	4	11/32	1 1/4	10
11703-AL536	4	3/8	1 1/4	10
11722-AL538	4	7/16	1 1/4	10
11704-AL540	4	1/2	1 1/4	10
11723-AL7419	4	9/16	1 1/4	10
11705-AL542	4	5/8	1 1/4	10
11724-AL7423	4	11/16	1 1/4	10
11706-AL544	4	3/4	1 1/4	10
11707-AL7433	4	1	1 1/4	10
11725-AL2608	6	7/32	1 1/4	16
11708-AL7609	6	1/4	1 1/4	16

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11726-AL2610	6	9/32	1 1/4	16
11709-AL7611	6	5/16	1 1/4	16
11728-AL2612	6	11/32	1 1/4	16
11710-AL554	6	3/8	1 1/4	16
11729-AL7615	6	7/16	1 1/4	16
11711-AL556	6	1/2	1 1/4	16
11730-AL7619	6	9/16	1 1/4	16
11712-AL558	6	5/8	1 1/4	16
11731-AL7623	6	11/16	1 1/4	16
11713-AL560	6	3/4	1 1/4	16
11714-AL564	6	1	1 1/4	16
11715-AL566	8	3/8	1 1/2	20
11716-AL568	8	1/2	1 1/2	20
11717-AL572	8	3/4	1 1/2	20

Form Relieve Work That is Second to None

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M-42 COBALT SIDE MILLING CUTTERS

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- Increase Tool Life
- Higher Metal Removal Rates
- Lower Inventory Costs

STRAIGHT TOOTH

Catalog EDI-Number	Cutter Dia	Width of Face	Hole Size	No. of Teeth
11551-AX5306	3	3/16	1	20
11552-AX430	3	1/4	1	20
11553-AX432	3	5/16	1	20
11554-AX434	3	3/8	1	20
11555-AX438	3	1/2	1	20
11556-AX5317	3	1/2	1 1/4	20
11557-AX440	4	1/4	1	24
11558-AX5409	4	1/4	1 1/4	24
11559-AX5410	4	5/16	1	24
11560-AX5411	4	5/16	1 1/4	24
11561-AX442	4	3/8	1	24
11562-AX5413	4	3/8	1 1/4	24
11563-AX444	4	1/2	1	24
11564-AX446	4	1/2	1 1/4	24
11565-AX452	4	3/4	1	24
11566-AX454	4	3/4	1 1/4	24
11567-AX5508	5	1/4	1	24*
11568-AX5509	5	1/4	1 1/4	24*
11569-AX5510	5	5/16	1	24*
11570-AX551	5	5/16	1 1/4	24*
11571-AX5512	5	3/8	1	24*
11572-AX5513	5	3/8	1 1/4	24*
11573-AX460	5	1/2	1	24*
11574-AX462	5	1/2	1 1/4	24*
11575-AX468	5	3/4	1	24*
11576-AX470	5	3/4	1 1/4	24*
11577-AX5609	6	1/4	1 1/4	30
11578-AX5611	6	5/16	1 1/4	30
11579-AX5613	6	3/8	1 1/4	30
11580-AX476	6	1/2	1 1/4	30
11581-AX482	6	3/4	1 1/4	30
11582-AX484	6	1	1 1/4	30

** This cutter can come in 26 Teeth as well as 24 Teeth, please request a specific tooth count when ordering*

STAGGERED TOOTH

Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11501-AX518	3	3/16	1	16
11502-AX520	3	1/4	1	16
11503-AX522	3	5/16	1	16
11504-AX524	3	3/8	1	16
11504A	3	3/8	1 1/4	16
11505-AX7316	3	1/2	1	16
11506-AX526	3	1/2	1 1/4	16
11507-AX7408	4	1/4	1	18
11508-AX532	4	1/4	1 1/4	18
11509-AX7410	4	5/16	1	18
11510-AX534	4	5/16	1 1/4	18
11511-AX7412	4	3/8	1	18
11512-AX536	4	3/8	1 1/4	18
11513-AX7416	4	1/2	1	18
11514-AX540	4	1/2	1 1/4	18
11515-AX7424	4	3/4	1	18
11516-AX544	4	3/4	1 1/4	18
11517-AX7433	4	1	1 1/4	18
11518-AX7441	4	1 1/4	1 1/4	18
11519-AX7442	4	1 1/2	1 1/4	18
11520-AX7508	5	1/4	1	24**
11521-AX7509	5	1/4	1 1/4	24**
11522-AX7510	5	5/16	1	24**
11523-AX7511	5	5/16	1 1/4	24**
11524-AX7512	5	3/8	1	24**
11525-AX7513	5	3/8	1 1/4	24**
11526-AX7516	5	1/2	1	24**
11527-AX548	5	1/2	1 1/4	24**
11528-AX7524	5	3/4	1	24**
11529-AX552	5	3/4	1 1/4	24**
11530-AX7533	5	1	1 1/4	24**
11531-AX7609	6	1/4	1 1/4	24
11532-AX7611	6	5/16	1 1/4	24
11533-AX554	6	3/8	1 1/4	24
11534-AX556	6	1/2	1 1/4	24
11535-AX560	6	3/4	1 1/4	24
11536-AX564	6	1	1 1/4	24

***This cutter can come in 22 Teeth as well as 24 Teeth, please request a specific tooth count when ordering.*

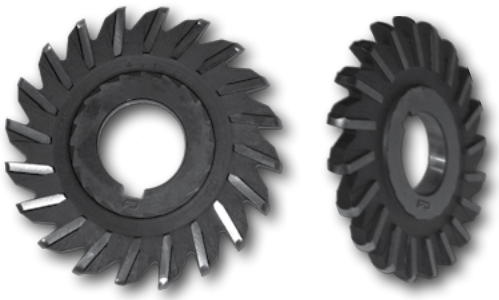
T-15 MILLING CUTTERS

SUPERIOR T-15
STAGGERED TOOTH CUTTERS

F & D performance oriented premium cutters are manufactured from superior T-15 steel and are the realistic answer to machining Hastelloy, Waspalloy, stainless steels and most other super alloys.

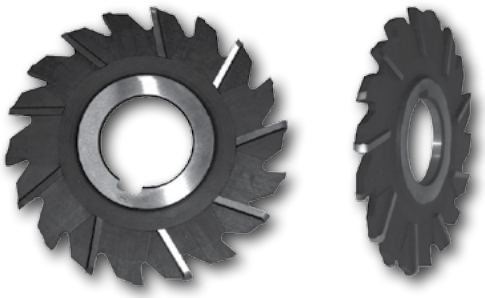
Catalog EDI-Number	Dia	Width of Face	Hole Size	No. of Teeth
11601-AV7306	3	3/16	1	18
11601B-AV7307	3	7/32	1	18
11602-AV7308	3	1/4	1	18
11602B-AV7309	3	9/32	1	18
11603-AV7310	3	5/16	1	18
11603B-AV7311	3	11/32	1	18
11604-AV7312	3	3/8	1	18
11604B-AV7313	3	13/32	1	18
11605-AV7314	3	7/16	1	18
11605B-AV7315	3	15/32	1	18
11606-AV7316	3	1/2	1	18
11606B-AV7317	4	7/32	1 1/4	22
11607-AV7409	4	1/4	1 1/4	22
11607B-AV7410	4	9/32	1 1/4	22
11608-AV7411	4	5/16	1 1/4	22
11608B-AV7412	4	11/32	1 1/4	22
11609-AV7413	4	3/8	1 1/4	22
11609B-AV7414	4	13/32	1 1/4	22
11610-AV7415	4	7/16	1 1/4	22
11610B-AV7416	4	15/32	1 1/4	22
11611-AV7417	4	1/2	1 1/4	22
11611B-AV7418	4	9/16	1 1/4	22
11612-AV7421	4	5/8	1 1/4	22
11612B-AV7422	4	11/16	1 1/4	22
11613-AV7425	4	3/4	1 1/4	22
11613B-AV7508	5	7/32	1 1/4	26
11614-AV7509	5	1/4	1 1/4	26
11614B-AV7510	5	9/32	1 1/4	26
11615-AV7511	5	5/16	1 1/4	26
11615B-AV7512	5	11/32	1 1/4	26
11616-AV7513	5	3/8	1 1/4	26
11616B-AV7514	5	13/32	1 1/4	26
11617-AV7515	5	7/16	1 1/4	26
11617B-AV7516	5	15/32	1 1/4	26
11618-AV7517	5	1/2	1 1/4	26
11618B-AV7518	5	9/16	1 1/4	26
11619-AV7521	5	5/8	1 1/4	26
11619B-AV7519	5	11/16	1 1/4	26
11620-AV7525	5	3/4	1 1/4	26
11620B-AV7520	5	13/16	1 1/4	26
11620C-AV7522	5	7/8	1 1/4	26
11620D-AV7523	5	15/16	1 1/4	26
11621-AV7526	5	1	1 1/4	26
11621B-AV7608	6	7/32	1 1/4	30
11622-AV7609	6	1/4	1 1/4	30
11622B-AV7610	6	9/32	1 1/4	30
11623-AV7611	6	5/16	1 1/4	30
11623B-AV7612	6	11/32	1 1/4	30
11624-AV7613	6	3/8	1 1/4	30
11624B-AV7614	6	13/32	1 1/4	30
11625-AV7615	6	7/16	1 1/4	30
11625B-AV7616	6	15/32	1 1/4	30
11626-AV7617	6	1/2	1 1/4	30
11626B-AV7618	6	9/16	1 1/4	30
11627-AV7621	6	5/8	1 1/4	30
11627B-AV7619	6	11/16	1 1/4	30
11628-AV7625	6	3/4	1 1/4	30
11628B-AV7620	6	13/16	1 1/4	30
11629-AV7629	6	7/8	1 1/4	30
11629B-AV7622	6	15/16	1 1/4	30
11630-AV7633	6	1	1 1/4	30

STRAIGHT TOOTH



Cobalt EDI #	HSS EDI #	Diameter	Width	I.D.	No. of Teeth
11740	11640	3	1/4	1	20
11741	11641	3	1/4	1 1/4	20
11742	11642	3	3/8	1	20
11743	11643	3	3/8	1 1/4	20
11744	11644	3	1/2	1	20
11745	11645	3	1/2	1 1/4	20
11746	11646	4	1/4	1	24
11747	11647	4	1/4	1 1/4	24
11748	11648	4	3/8	1	24
11749	11649	4	3/8	1 1/4	24
11750	11650	4	1/2	1	24
11751	11651	4	1/2	1 1/4	24
11752	11652	6	1/4	1 1/4	30
11753	11653	6	3/8	1 1/4	30
11754	11654	6	1/2	1 1/4	30

STAGGERED TOOTH



Cobalt EDI #	HSS EDI #	Diameter	Width	I.D.	No. of Teeth
11755	11655	3	1/4	1	16
11756	11656	3	1/4	1 1/4	16
11757	11657	3	3/8	1	16
11758	11658	3	3/8	1 1/4	16
11759	11659	3	1/2	1	16
11760	11660	3	1/2	1 1/4	16
11761	11661	4	1/4	1	18
11762	11662	4	1/4	1 1/4	18
11763	11663	4	3/8	1	18
11764	11664	4	3/8	1 1/4	18
11765	11665	4	1/2	1	18
11766	11666	4	1/2	1 1/4	18
11767	11667	6	1/4	1 1/4	24
11768	11668	6	3/8	1 1/4	24
11769	11669	6	1/2	1 1/4	24

FULL RADIUS SLITTING SAWS

HSS STRAIGHT TOOTH SIDE CHIP SLITTING SAW

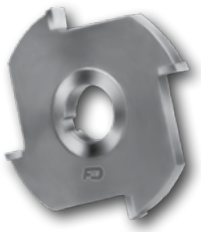
Catalog EDI-#	Diameter	Width	I.D.	No. of Teeth
11670	2 1/2	1/8	7/8	28
11671	3	1/16	1	32
11672	3	3/32	1	32
11673	3	1/8	1	32
11674	3	5/32	1	32
11675	3	3/16	1	32
11676	3	1/4	1	32
11677	4	1/16	1	36
11678	4	1/16	1 1/4	36
11679	4	3/32	1	36
11680	4	3/32	1 1/4	36
11681	4	1/8	1	36
11682	4	1/8	1 1/4	36

Catalog EDI-#	Diameter	Width	I.D.	No. of Teeth
11683	4	5/32	1	36
11684	4	5/32	1 1/4	36
11685	4	3/16	1	36
11686	4	3/16	1 1/4	36
11687	4	1/4	1	36
11688	4	1/4	1 1/4	36
11689	6	1/8	1	42
11690	6	1/8	1 1/4	42
11691	6	5/32	1	42
11692	6	5/32	1 1/4	42
11693	6	3/16	1	42
11694	6	3/16	1 1/4	42
11695	6	1/4	1	42
11696	6	1/4	1 1/4	42

CARBIDE TIPPED MILLING CUTTERS

CARBIDE TIPPED SIDE MILLING CUTTERS

Reap the benefits of faster speeds and feeds, maximum chip removal and longer tool life with these competitively priced, top quality, American-made F&D cutters. They're made from hardened tool steel with precision ground hubs and bores. In fact, hubs and ODs are ground to +.015"; widths are ground to +.001". Carbide tips are brazed on, can be easily resharpened, removed and replaced. And, as with all F&D quality cutting tools, they're available "off-the-shelf" for immediate delivery.



TOLERANCE ON CARBIDE TIPPED CUTTERS	
Cutter Diameter:	+.015"/-.000"
Face Width:	+.001"/-.000"
Arbor Hole:	+.001"/-.000"

FOR NON-FERROUS

Catalog EDI-Number 1" Arbor Hole	EDI Number 1-1/4" Arbor Hole	Dia	Width of Face	# of Teeth
12001-AC3081	-	3	1/4	4
12002-AC3101	-	3	5/16	4
12003-AC3121	-	3	3/8	4
12004-AC3141	-	3	7/16	4
12005-AC3161	-	3	1/2	4
12006-AC4081	-	4	1/4	4
12007-AC4101	-	4	5/16	4
12008-AC4121	12009-AC4122	4	3/8	4
12010-AC4141	-	4	7/16	4
12011-AC4161	12012-AC4162	4	1/2	4
12013-AC4181	-	4	9/16	4
12014-AC4201	12015-AC4202	4	5/8	4
12016-AC4241	12017-AC4242	4	3/4	4
12017B-AC5081	-	5	1/4	6
12017D-AC5101	-	5	5/16	6
-	12017G-AC5122	5	3/8	6
-	12018-AC5142	5	7/16	6
12019-AC5161	12020-AC5162	5	1/2	6
-	12021-AC5182	5	9/16	6
-	12022-AC5202	5	5/8	6
12023-AC5241	12024-AC5242	5	3/4	6
-	12024C-AC5262	5	1	6
12024D-AC6121	-	6	3/8	6
12025-AC6161	12026-AC6162	6	1/2	6
-	12027-AC6202	6	5/8	6
12028-AC6241	12029-AC6242	6	3/4	6
-	12029C-AC6262	6	1	6
-	12030-AC7242	7	3/4	8
-	12031-AC8242	8	3/4	8
-	12031C-AC8262	8	1	8
	EDI Number 1-1/2" Arbor Hole	Dia	Width of Face	# of Teeth
	12032C-AC8282	8	3/4	8
	12032-AC8302	8	1	8

FOR CAST IRON

Catalog EDI-Number 1" Arbor Hole	EDI Number 1-1/4" Arbor Hole	Dia	Width of Face	# of Teeth
12033-MC3081	-	3	1/4	6
12034-MC3101	-	3	5/16	6
12035-MC3121	-	3	3/8	6
12036-MC3141	-	3	7/16	6
12037-MC3161	-	3	1/2	6
12038-MC4081	-	4	1/4	8
12039-MC4101	-	4	5/16	8
12040-MC4121	12041-MC4122	4	3/8	8
12042-MC4141	-	4	7/16	8
12043-MC4161	12044-MC4162	4	1/2	8
12045-MC4181	-	4	9/16	8
12046-MC4201	12047-MC4202	4	5/8	8
12048-MC4101	12049-MC4242	4	3/4	8
12049B-MC4121	-	5	1/4	10
12049D-MC4141	-	5	5/16	10
-	12049G-MC5122	5	3/8	10
-	12050-MC5142	5	7/16	10
12051-MC5161	12052-MC5162	5	1/2	10
-	12053-MC5182	5	9/16	10
-	12054-MC5202	5	5/8	10
12055-MC5241	12056-MC5242	5	3/4	10
-	12056C-MC5262	5	1	10
12056D-MC6121	-	6	3/8	12
12057-MC6161	12058-MC6162	6	1/2	12
-	12059-MC6202	6	5/8	12
12060-MC6241	12061-MC6242	6	3/4	12
-	12061C-MC6202	6	1	12
-	12062-MC7242	7	3/4	12
-	12063-MC8242	8	3/4	12
-	12063C-MC8262	8	1	12
	EDI Number 1-1/2" Arbor Hole	Dia	Width of Face	# of Teeth
	12063A-MC8282	8	3/4	12
	12064	8	1	12

CARBIDE TIPPED SIDE MILLING CUTTERS

Non-Ferrous
For: cutting aluminum, brass, bronze, magnesium, plastics, zinc, and other non-iron metals
Cast-Iron
For: cutting malleable and cast iron
Steel
For: cutting steel
Stainless
Higher teeth count for cutting stainless steel

TOLERANCE ON CARBIDE TIPPED CUTTERS	
Cutter Diameter:	+.015"/-.000"
Face Width:	+.001"/-.000"
Arbor Hole:	+.001"/-.000"

FOR STAINLESS STEEL

Catalog EDI-Number 1" Arbor Hole	EDI Number 1-1/4" Arbor Hole	Dia	Width of Face	# of Teeth
12122-SSC3081	-	3	1/4	8
12123-SSC3101	-	3	5/16	8
12124-SSC3121	-	3	3/8	8
12125-SSC3161	-	3	1/2	8
12126-SSC4081	-	4	1/4	10
12127-SSC4101	-	4	5/16	10
12128-SSC4121	12129-SSC4122	4	3/8	10
12130-SSC4141	-	4	7/16	10
12131-SSC4161	12132-SSC4162	4	1/2	10
12133-SSC4201	12134-SSC4202	4	5/8	10
12135-SSC4241	12136-SSC4242	4	3/4	10
12137-SSC5161	12138-SSC5162	5	1/2	12
-	12139-SSC5202	5	5/8	12
12140-SSC5241	12141-SSC5242	5	3/4	12
12142-SSC6161	12143-SSC6162	6	1/2	14
-	12144-SSC6202	6	5/8	14
12145-SSC6241	12146-SSC6242	6	3/4	14
-	12147-SSC8242	8	3/4	14

FOR STEEL

Catalog EDI-Number 1" Arbor Hole	EDI Number 1-1/4" Arbor Hole	Dia	Width of Face	# of Teeth
12084-SC3081	-	3	1/4	6
12085-SC3101	-	3	5/16	6
12086-SC3121	-	3	3/8	6
12087-SC3141	-	3	7/16	6
12088-SC3161	-	3	1/2	6
12089-SC4081	-	4	1/4	8
12090-SC3081	-	4	5/16	8
12091-SC3101	12092-SC4122	4	3/8	8
12093-SC3121	-	4	7/16	8
12094-SC3141	12095-SC4162	4	1/2	8
12096-SC3161	-	4	9/16	8
12097-SC4081	12098-SC4202	4	5/8	8
12098B-SC4241	12098C-SC4242	4	3/4	8
12098D-SC5081	-	5	1/4	10
12098F-SC5101	-	5	5/16	10
-	12098J-SC5122	5	3/8	10
-	12099-SC5142	5	7/16	10
12100-SC5161	12101-SC5162	5	1/2	10
-	12102-SC5182	5	9/16	10
-	12103-SC5202	5	5/8	10
12103B-5241	12103C-SC5242	5	3/4	10
-	12103E-SC5262	5	1	10
12103F-SC6121	-	6	3/8	12
12104-SC6181	12105-SC6182	6	1/2	12
-	12106-SC6202	6	5/8	12
12106B-SC6241	12106C-SC6242	6	3/4	12
-	12106E-SC6262	6	1	12
-	12106G-SC7242	7	3/4	12
-	12106J-SC8242	8	3/4	12
-	12106K-SC8262	8	1	12
	EDI Number 1-1/2" Arbor Hole	Dia	Width of Face	# of Teeth
	12106L-SC8282	8	3/4	12
	12106M-SC8302	8	1	12

CARBIDE TIPPED SAWS

CARBIDE TIPPED SLITTING SAWS - COARSE TOOTH

TOLERANCE ON CARBIDE TIPPED CUTTERS	
Cutter Diameter:	+.015"/-.000"
Face Width:	+.001"/-.000"
Arbor Hole:	+.001"/-.000"

			NON-FERROUS		CAST IRON		STAINLESS STEEL		STEEL	
Dia	Width of Face	Hole Size	No. of Teeth	Catalog EDI-Number	No. of Teeth	Catalog EDI-Number	No. of Teeth	Catalog EDI-Number	No. of Teeth	Catalog EDI-Number
3	3/32	1	6	12064B-AC3031	6	12069B-MC3041	8	12083B-SSC3031	8	12076B-SC3031
3	1/8	1	6	12064C-AC3041	6	12069C-MC3041	8	12083C-SSC-3041	8	12076C-SC3041
3	3/16	1	6	12064D-AC3061	6	12069D-MC3061	8	12083D-SSC3061	6	12076D-SC3061
3	1/4	1	6	12064E-AC3086	6	12069E-MC3106	8	12083E-SSC3086	8	12076E-SC3086
3	5/16	1	6	12064F-AC3106	6	12069F-MC3106	8	12083F-SSC3106	8	12076F-SC3106
3	3/8	1	6	12064G-AC3126	6	12069G-MC3126	8	12083G-SSC3126	8	12076G-SC3126
4	3/32	1	6	12065-AC4031	6	12069H-MC4031	10	12083H-SSC4031	8	12076H-SC4031
4	1/8	1	6	12066-AC4041	8	12070-MC4041	10	12083J-SSC4041	8	12077-SC4041
4	3/16	1	6	12067-AC4061	8	12071-MC4061	10	12083K-SSC4061	8	12078-SC4061
4	1/4	1	6	12067B-AC4086	8	12071B-MC4086	10	12083L-SSC4086	8	12078B-SC4086
4	5/16	1	6	12067C-AC4106	8	12071C-MC4106	10	12083M-SSC4106	8	12078C-SC4106
4	3/8	1	6	12067D-AC4126	8	12071D-MC4126	10	12083N-SSC4126	8	12078D-SC4126
4	3/8	1 1/4	6	12067E-AC4127	8	12071E-MC4127	10	12083O-SSC4127	8	12078E-SC4127
5	3/32	1	8	12067F-AC5031	10	12071F-MC5031	12	12083P-SSC5031	10	12078F-SC5031
5	1/8	1	8	12112	10	12071G-MC5041	12	12083Q-SSC5041	10	12078G-SC5041
5	3/16	1	8	12113	10	12071H-MC5061	12	12083R-SSC5061	10	12078H-SC5061
6	1/8	1 1/4	8	12068-AC6042	12	12072-MC6042	14	12083S-SSC6042	12	12079-SC6042
6	3/16	1 1/4	8	12068B-AC6062	12	12073-MC6062	14	12083T-SSC6062	12	12080-SC6062
6	1/4	1 1/4	8	12068C-AC6082	12	12074-MC6082	14	12083U-SSC6082	12	12081-SC6082
8	1/8	1 1/4	10	12069-AC8042	-	-	-	-	-	-
8	3/16	1 1/4	-	-	16	12075-MC8062	-	-	16	12082-SC8062
8	1/4	1 1/4	-	-	16	12076-MC8082	-	-	16	12083-SC8082

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CARBIDE TIPPED SLITTING SAWS - STANDARD TOOTH

TOLERANCE ON CARBIDE TIPPED CUTTERS	
Cutter Diameter:	+.015"/-.000"
Face Width:	+.001"/-.000"
Arbor Hole:	+.001"/-.000"

NON-FERROUS		CAST IRON			STAINLESS STEEL			STEEL				
Catalog EDI-Number 1" Arbor Hole	Catalog EDI-Number 1-1/4" Arbor Hole	Catalog EDI-Number 1" Arbor Hole	Catalog EDI-Number 1-1/4" Arbor Hole	# of Teeth	Catalog EDI-Number 1" Arbor Hole	Catalog EDI-Number 1-1/4" Arbor Hole	# of Teeth	Catalog EDI-Number 1" Arbor Hole	Catalog EDI-Number 1-1/4" Arbor Hole	Dia	Width of Face	# of Teeth
14004	-	14004C	-	12	14004G	-	12	14004F	-	3	1/16	16
14005A	-	14005C	-	12	14005G	-	12	14005F	-	3	5/64	16
14006A	-	14006C	-	12	14006G	-	12	14006F	-	3	3/32	16
14007A	-	14007C	-	12	14007G	-	12	14007F	-	3	7/64	16
14005-AC3085	14006-AC3086	14105-MC3085	14106-MC2086	12	14008G	-	12	14008F	-	3	1/8	16
14007-AC3105	-	14107-MC3105	-	12	14009G	-	12	14009F	-	3	5/32	16
14008-AC3125	-	14108-MC3125	-	12	14010G	-	12	14010F	-	3	3/16	16
14009-AC3145	-	14109-MC3145	-	12	14011G	-	12	14011F	-	3	7/32	16
14010-AC3165	-	14110-MC3165	-	12	14012G	-	12	14012F	-	3	1/4	16
14011-AC3185	-	14111-MC3205	-	12	14013G	-	12	14013F	-	3	5/16	16
14012-AC3205	-	14112-MC3245	-	12	14014G	-	12	14014F	-	3	3/8	16
14020	14020B	14020C	-	14	14020G	14020H	14	14020F	-	4	1/16	20
14021A	14021B	14021C	14021D	14	14021G	14021H	14	14021F	14021J	4	5/64	20
14022A	14022B	14022C	14022D	14	14022G	14022H	14	14022F	14022J	4	3/32	20
14023A	14023B	14023C	14023D	14	14023G	14023H	14	14023F	14023J	4	7/64	20
14021-AC4085	14022-AC4086	14120-MC4085	14121-MC4086	14	14024G	14024H	14	14024F	14024J	4	1/8	20
14023-AC4105	14024-AC4106	14122-MC4105	14123-MC4106	14	14025G	14025H	14	14025F	14025J	4	5/32	20
14025-AC4125	14026-AC4126	14124-MC4125	14125-MC4126	14	14026G	14026H	14	14026F	14026J	4	3/16	20
14027-AC4145	14028-AC4146	14126-MC4145	14127-MC4146	14	14027G	14027H	14	14027F	14027J	4	7/32	20
14029-AC4165	14030-AC4166	14128-MC4165	14129-MC4166	14	14028G	14028H	14	14028F	14028J	4	1/4	20
14031-AC4205	14032-AC4206	14130-MC4205	14131-MC4206	14	14029G	14029H	14	14029F	14029J	4	5/16	20
14033-AC4245	14034-AC4246	14132-MC4245	14133-MC4246	14	14030G	14030H	14	14030F	14030J	4	3/8	20
14041A	14041B	14041C	14041D	16	14041G	14041H	16	14041F	14041J	5	5/64	24
14042A	14042B	14042C	14042D	16	14042G	14042H	16	14042F	14042J	5	3/32	24
14043A	14043B	14043C	14043D	16	14043G	14043H	16	14043F	14043J	5	7/64	24
14041-AC5085	14042-AC5086	14140-MC5085	14141-MC5086	16	14044G	14044H	16	14044F	14044J	5	1/8	24
14043-AC5105	14044-AC5106	14142-MC5085	14143-MC5106	16	14045G	14045H	16	14045F	14045J	5	5/32	24
14045-AC5125	14046-AC5145	14144-MC5125	14145-MC5126	16	14046G	14046H	16	14046F	14046J	5	3/16	24
14047-AC5145	14048-AC5146	14146-MC5145	14147-MC5146	16	14047G	14047H	16	14047F	14047J	5	7/32	24
14049-AC5165	14050-AC5166	14148-MC5165	14149-MC5166	16	14048G	14048H	16	14048F	14048J	5	1/4	24
14051-AC5205	14052-AC5206	14150-MC5205	14151-MC5206	16	14049G	14049H	16	14049F	14049J	5	5/16	24
14053-AC5245	14054-AC5246	14152-MC5245	14153-MC5246	16	14050G	14050H	16	14050F	14050J	5	3/8	24
14061A	14061B	14061C	14061D	18	14061G	14061H	18	14061F	14061J	6	5/64	28
14062A	14062B	14062C	14062D	18	14062G	14062H	18	14062F	14062J	6	3/32	28
14063A	14063B	14063C	14063D	18	14063G	14063H	18	14063F	14063J	6	7/64	28
14061-AC6085	14062-AC6086	14160-MC6085	14161-MC6086	18	14064G	14064H	18	14064F	14064J	6	1/8	28
14063-AC6105	14064-AC6106	14162-MC6105	14163-MC6106	18	14065G	14065H	18	14065F	14065J	6	5/32	28
14065-AC6125	14066-AC6126	14164-MC6125	14165-MC6126	18	14066G	14066H	18	14066F	14066J	6	3/16	28
14067-AC6145	14068-AC6146	14166-MC6145	14167-MC6146	18	14067G	14067H	18	14067F	14067J	6	7/32	28
14069-AC6165	14070-AC6166	14168-MC6165	14169-MC6166	18	14068G	14068H	18	14068F	14068J	6	1/4	28
14071-AC6205	14072-AC6206	14170-MC6205	14171-MC6206	18	14069G	14069H	18	14069F	14069J	6	5/16	28
14073-AC6245	14074-AC6246	14172-MC6245	14173-MC6246	18	14070G	14070H	18	14070F	14070J	6	3/8	28
-	14075B	-	14075D	24	-	14075H	24	-	-	8	1/8	-
-	14076B	-	14076D	24	-	14076H	24	-	-	8	5/32	-
-	14077B	-	14077D	24	-	14077H	24	-	-	8	3/16	-
-	14078B	-	14078D	24	-	14078H	24	-	-	8	1/4	-

ANGLE CUTTERS

Catalog EDI-Number	Dia	Thick	Hole Size	Included Angle	No. of Teeth
11945-A910	2 3/4	1/2	1	45	18
11946-A910	2 3/4	1/2	1	60	18
11947-A910	2 3/4	1/2	1	90	18
11948-A912	4	1/2	1 1/4	45	22
11949-A912	4	1/2	1 1/4	60	22
11950-A912	4	1/2	1 1/4	90	22
11951-A914	4	3/4	1 1/4	45	22
11952-A914	4	3/4	1 1/4	60	22
11953-A914	4	3/4	1 1/4	90	22
11954-A916	4	1	1 1/4	60	22
11955-A916	4	1	1 1/4	90	22
11956-A918	5	3/4	1 1/4	45	24
11957-A918	5	3/4	1 1/4	60	24
11958-A918	5	3/4	1 1/4	90	24
11959-A920	5	1	1 1/4	45	24
11960-A920	5	1	1 1/4	60	24
11961-A920	5	1	1 1/4	90	24
11962-A922	6	1	1 1/4	45	24
11963-A922	6	1	1 1/4	60	24
11964-A922	6	1	1 1/4	90	24
11965-A923	6	1 1/4	1 1/4	45	24
11966-A923	6	1 1/4	1 1/4	60	24
11967-A923	6	1 1/4	1 1/4	90	24
11968-A924	6	1 1/2	1 1/4	45	24
11969-A924	6	1 1/2	1 1/4	60	24
11970-A924	6	1 1/2	1 1/4	90	24

DOUBLE ANGLE CUTTERS HIGH SPEED STEEL

Double angle cutters are available in 45°, 60°, and 90° included angles. They are stocked in diameters from 2 3/4" through 6" and widths from 1/2" to 1 1/2".

RH

LH

SINGLE ANGLE CUTTERS HIGH SPEED STEEL

Dia	Thick	Hole Size	No. of Teeth	45RH Included Angle	45LH Included Angle	60RH Included Angle	60LH Included Angle
2 1/2	1/2	7/8	18	11901-A810	11902-A810	11903-A810	11904-A810
2 3/4	1/2	1	20	11905-A812	11906-A812	11907-A812	11908-A812
3	1/2	1	22	11901A	11901B	11901C	11901D
3	1/2	1 1/4	22	11909-A814	11910-A814	11911-A814	11912-A814
3	5/8	1	22	11905A	11905B	11905C	11905D
3	5/8	1 1/4	22	11906A	11906B	11906C	11906D
3	3/4	1	22	11907A	11907B	11907C	11907D
3	3/4	1 1/4	22	-	-	11908C	11908D
4	1/2	1	22	11909A	11909B	11909C	11909D
4	1/2	1 1/4	22	11913-A816	11914-A816	11915-A816	11916-A816
4	3/4	1 1/4	22	11917-A818	11918-A818	11919-A818	11920-A818
4	1	1 1/4	22	11921-A820	11922-A820	11923-A820	11924-A820
5	3/4	1 1/4	24	11925-A822	11926-A822	11927-A822	11928-A822
5	1	1 1/4	24	11929-A824	11930-A824	11931-A824	11932-A824
6	3/4	1 1/4	24	11933-A826	11934-A826	11935-A826	11936-A826
6	1	1 1/4	24	11937-A828	11938-A828	11939-A828	11940-A828
6	1 1/4	1 1/4	24	11941-A830	11942-A830	11943-A830	11944-A830

CARBIDE TIPPED ANGLE CUTTERS

RH LH

Single Angle & Double Angle cutters manufactured with carbide tips are used for higher speeds & feeds, cutting tougher materials and increased tool life

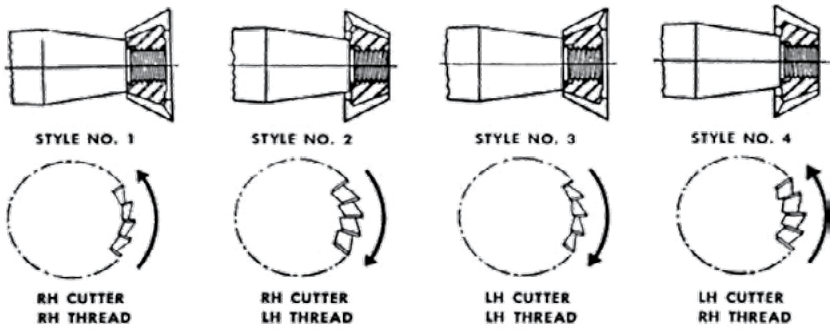
Catalog EDI-Number	Dia	Width	Arbor Hole	No. of Teeth	Included Angle
11850	3	1/2	1	8	45RH
11851	4	1/2	1 1/4	10	45RH
11852	4	3/4	1 1/4	10	45RH
11853	3	1/2	1	8	45LH
11854	4	1/2	1 1/4	10	45LH
11855	4	3/4	1 1/4	10	45LH
11856	3	1/2	1	8	60RH
11857	4	1/2	1 1/4	10	60RH
11858	4	3/4	1 1/4	10	60RH
11859	3	1/2	1	8	60LH
11860	4	1/2	1 1/4	10	60LH
11861	4	3/4	1 1/4	10	60LH

CARBIDE TIPPED DOUBLE ANGLE CUTTERS

Catalog EDI-Number	Dia	Width	Arbor Hole	No. of Teeth	Included Angle
11875	3	1/2	1	8	45
11876	4	1/2	1 1/4	10	45
11877	4	3/4	1 1/4	10	45
11878	4	1	1 1/4	10	45
11878A	2 3/4	1/2	1	8	60
11879	3	1/2	1	8	60
11880	4	1/2	1 1/4	10	60
11881	4	3/4	1 1/4	10	60
11882	4	1	1 1/4	10	60
11882A	2 3/4	1/2	1	8	90
11883	3	1/2	1	8	90
11884	4	1/2	1 1/4	10	90
11885	4	3/4	1 1/4	10	90
11886	4	1	1 1/4	10	90

THREADED ANGLE CUTTERS

THREADED HOLE ANGLE CUTTERS



Catalog EDI-Number	Dia	Width	Threaded Hole
12217-A1010-1	1 1/4	7/16	3/8 24 N.F.
12218-A1010-2	1 1/4	7/16	3/8 24 N.F.
12219-A1010-3	1 1/4	7/16	3/8 24 N.F.
12220-A1010-4	1 1/4	7/16	3/8 24 N.F.
12221-A1012-1	1 5/8	9/16	1/2 20 N.F.
12222-A1012-2	1 5/8	9/16	1/2 20 N.F.
12223-A1012-3	1 5/8	9/16	1/2 20 N.F.
12224-A1012-4	1 5/8	9/16	1/2 20 N.F.

These cutters can be furnished either right or left hand and with either right or left hand threaded hole. They have an included angle of 60°

WHEN ORDERING SPECIFY STYLE NUMBER DETERMINING THE HAND OF AN ANGLE CUTTER

THREADED ARBORS FOR ANGLE CUTTERS

TAPER SHANK

Catalog EDI-Number	Size N.F. Thread on Arbor	Taper	Dia. of Cutter
12225-A1110R	3/8-24	7	1 1/4
12226-A1110L	3/8-24	7	1 1/4
12227-A1112R	1/2-20	9	1 5/8
12228-A1112L	1/2-20	9	1 5/8

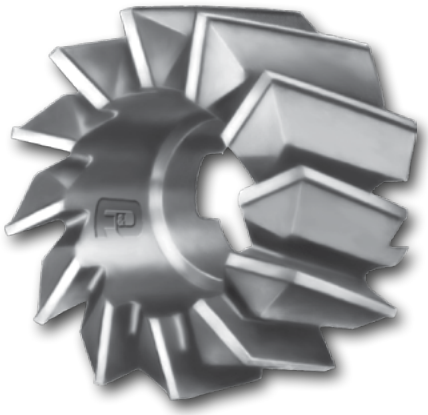
STRAIGHT SHANK

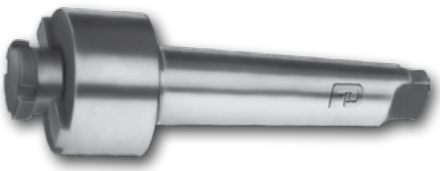
Catalog EDI-Number	Size N.F. Thread on Arbor	Shank	Dia. of Cutter
12229-A1120R	3/8-24	1/2	1 1/4
12230-A1120L	3/8-24	1/2	1 1/4
12231-A1122R	1/2-20	1/2	1 5/8
12232-A1122L	1/2-20	1/2	1 5/8

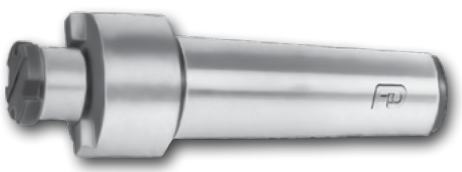
Shell Mills are designed for both end and face milling operations and conform to the American Standard for Milling Cutters. They will fit standard shell endmill arbors. Right hand cutters with right hand helix and left hand cutters with left hand helix are standard. New sizes are added for larger off-the-shelf selection.

SHELL ENDMILLS
HIGH SPEED STEEL

Catalog EDI-Number	Dia	Width of Face	Width of Drive Slot	Depth of Slot	Hole Size	No. of Teeth
14496-A1610R	1 1/4	1	1/4	5/32	1/2	8
14497-A1610L	1 1/4	1	1/4	5/32	1/2	8
14498-A1611R	1 3/8	1 1/8	1/4	5/32	1/2	8
14499-A1611L	1 3/8	1 1/8	1/4	5/32	1/2	8
14500-A1612R	1 1/2	1 1/8	1/4	5/32	1/2	8
14501-A1612L	1 1/2	1 1/8	1/4	5/32	1/2	8
14502-A1613R	1 5/8	1 1/4	5/16	3/16	3/4	8
14503-A1613L	1 5/8	1 1/4	5/16	3/16	3/4	8
14504-A1614R	1 3/4	1 1/4	5/16	3/16	3/4	8
14505-A1614L	1 3/4	1 1/4	5/16	3/16	3/4	8
14506-A1615R	1 7/8	1 3/8	5/16	3/16	3/4	10
14507-A1615L	1 7/8	1 3/8	5/16	3/16	3/4	10
14508-A1616R	2	1 3/8	5/16	3/16	3/4	10
14509-A1616L	2	1 3/8	5/16	3/16	3/4	10
14510-A1617R	2 1/8	1 1/2	3/8	7/32	1	10
14511-A1617L	2 1/8	1 1/2	3/8	7/32	1	10
14512-A1618R	2 1/4	1 1/2	3/8	7/32	1	10
14513-A1618L	2 1/4	1 1/2	3/8	7/32	1	10
14514-A1619R	2 3/8	1 5/8	3/8	7/32	1	10
14515-A1619L	2 3/8	1 5/8	3/8	7/32	1	10
14516-A1620R	2 1/2	1 5/8	3/8	7/32	1	10
14517-A1620L	2 1/2	1 5/8	3/8	7/32	1	10
14518-A1621R	2 5/8	1 5/8	3/8	7/32	1	10
14519-A1621L	2 5/8	1 5/8	3/8	7/32	1	10
14520-A1622R	2 3/4	1 5/8	3/8	7/32	1	10
14521-A1622L	2 3/4	1 5/8	3/8	7/32	1	10
14522-A1623R	2 7/8	1 3/4	1/2	9/32	1 1/4	12
14523-A1623L	2 7/8	1 3/4	1/2	9/32	1 1/4	12
14524-A1624R	3	1 3/4	1/2	9/32	1 1/4	12
14525-A1624L	3	1 3/4	1/2	9/32	1 1/4	12
14526-A1625R	3 1/4	1 7/8	1/2	9/32	1 1/4	12
14527-A1625L	3 1/4	1 7/8	1/2	9/32	1 1/4	12
14528-A1626R	3 1/2	1 7/8	1/2	9/32	1 1/4	12
14529-A1626L	3 1/2	1 7/8	1/2	9/32	1 1/4	12
14530-A1627R	3 3/4	2 1/4	5/8	3/8	1 1/2	14
14531-A1627L	3 3/4	2 1/4	5/8	3/8	1 1/2	14
14532-A1628R	4	2 1/4	5/8	3/8	1 1/2	14
14533-A1628L	4	2 1/4	5/8	3/8	1 1/2	14
14534-A1630R	4 1/2	2 1/4	5/8	3/8	1 1/2	14
14535-A1630L	4 1/2	2 1/4	5/8	3/8	1 1/2	14
14536-A1632R	5	2 1/4	5/8	3/8	1 1/2	16
14537-A1632L	5	2 1/4	5/8	3/8	1 1/2	16
14538-A1634R	5 1/2	2 1/4	3/4	7/16	2	16
14539-A1634L	5 1/2	2 1/4	3/4	7/16	2	16
14540-A1636R	6	2 1/4	3/4	7/16	2	16
14541-A1636L	6	2 1/4	3/4	7/16	2	16



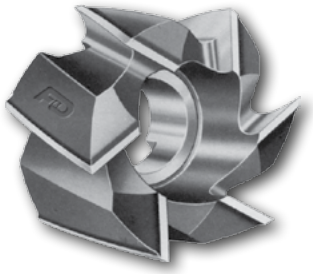




MAKE SURE TO PURCHASE ARBORS OR HOLDERS FOR YOUR SHELL MILLS

Find them on pages 126 - 127

SHELL END MILL CUTTERS



SHELL ENDMILLS FOR ALUMINUM HIGH SPEED STEEL

Shell Endmills for Aluminum have a high helix and fewer number of teeth for easy chip removal.

Catalog EDI-Number	Dia	Width of Face	Width of Drive Slot	Depth of Slot	Hole Size	No. of Teeth
14586-A1710R	1 1/4	1	1/4	5/32	1/2	4
14587-A1710L	1 1/4	1	1/4	5/32	1/2	4
14588-A1711R	1 3/8	1 1/8	1/4	5/32	1/2	4
14589-A1711L	1 3/8	1 1/8	1/4	5/32	1/2	4
14590-A1712R	1 1/2	1 1/8	1/4	5/32	1/2	4
14591-A1712L	1 1/2	1 1/8	1/4	5/32	1/2	4
14592-A1713R	1 5/8	1 1/4	5/16	3/16	3/4	4
14593-A1713L	1 5/8	1 1/4	5/16	3/16	3/4	4
14594-A1714R	1 3/4	1 1/4	5/16	3/16	3/4	4
14595-A1714L	1 3/4	1 1/4	5/16	3/16	3/4	4
14596-A1715R	1 7/8	1 3/8	5/16	3/16	3/4	4
14597-A1715L	1 7/8	1 3/8	5/16	3/16	3/4	4
14598-A1716R	2	1 3/8	5/16	3/16	3/4	4
14599-A1716L	2	1 3/8	5/16	3/16	3/4	4
14600-A1717R	2 1/8	1 1/2	3/8	7/32	1	4
14601-A1717L	2 1/8	1 1/2	3/8	7/32	1	4
14602-A1718R	2 1/4	1 1/2	3/8	7/32	1	4
14603-A1718L	2 1/4	1 1/2	3/8	7/32	1	4
14604-A1719R	2 3/8	1 5/8	3/8	7/32	1	4
14605-A1719L	2 3/8	1 5/8	3/8	7/32	1	4
14606-A1720R	2 1/2	1 5/8	3/8	7/32	1	4
14607-A1720L	2 1/2	1 5/8	3/8	7/32	1	4
14608-A1721R	2 5/8	1 5/8	3/8	7/32	1	6

Catalog EDI-Number	Dia	Width of Face	Width of Drive Slot	Depth of Slot	Hole Size	No. of Teeth
14609-A1721L	2 5/8	1 5/8	3/8	7/32	1	6
14610-A1722R	2 3/4	1 5/8	3/8	7/32	1	6
14611-A1722L	2 3/4	1 5/8	3/8	7/32	1	6
14612-A1723R	2 7/8	1 3/4	1/2	9/32	1 1/4	6
14613-A1723L	2 7/8	1 3/4	1/2	9/32	1 1/4	6
14614-A1724R	3	1 3/4	1/2	9/32	1 1/4	6
14615-A1724L	3	1 3/4	1/2	9/32	1 1/4	6
14616-A1725R	3 1/4	1 7/8	1/2	9/32	1 1/4	6
14617-A1725L	3 1/4	1 7/8	1/2	9/32	1 1/4	6
14618-A1726R	3 1/2	1 7/8	1/2	9/32	1 1/4	6
14619-A1726L	3 1/2	1 7/8	1/2	9/32	1 1/4	6
14620-A1727R	3 3/4	2 1/4	5/8	3/8	1 1/2	6
14621-A1727L	3 3/4	2 1/4	5/8	3/8	1 1/2	6
14622-A1728R	4	2 1/4	5/8	3/8	1 1/2	6
14623-A1728L	4	2 1/4	5/8	3/8	1 1/2	6
14624-A1730R	4 1/2	2 1/4	5/8	3/8	1 1/2	6
14625-A1730L	4 1/2	2 1/4	5/8	3/8	1 1/2	6
14626-A1732R	5	2 1/4	5/8	3/8	1 1/2	8
14627-A1732L	5	2 1/4	5/8	3/8	1 1/2	8
14628-A1734R	5 1/2	2 1/4	3/4	7/16	2	8
14629-A1734L	5 1/2	2 1/4	3/4	7/16	2	8
14630-A1736R	6	2 1/4	3/4	7/16	2	8
14631-A1736L	6	2 1/4	3/4	7/16	2	8

COBALT ROUGHING SHELL ENDMILLS

RIGHT HAND CUT

Cobalt Roughing Shell Endmills are used for heavy duty cuts and longer life on tougher materials. Form relieved for easy sharpening.

Catalog EDI-Number	Dia	Width of Face	Drive Slot Width	Depth of Slot	Hole Size	No. of Teeth
35100	2	1 3/8	5/16	3/16	3/4	8
35101	2 1/4	1 1/2	3/8	7/32	1	8
35102	2 1/2	1 5/8	3/8	7/32	1	8
35103	2 3/4	1 5/8	3/8	7/32	1	10
35104	3	1 3/4	1/2	9/32	1 1/4	10
35105	3 1/2	1 7/8	1/2	9/32	1 1/4	10
35106	4	2 1/4	5/8	3/8	1 1/2	10
35107	4 1/2	2 1/4	5/8	3/8	1 1/2	12
35108	5	2 1/4	5/8	3/8	1 1/2	12
35109	6	2 1/4	3/4	7/16	2	14

M-42 Cobalt shell end mills provide ground flutes with rake geometry and a resistance to cutting temperature for longer wear, resistance for your general purpose machining, and exotic metals.

Catalog EDI-Number	Dia	Width of Face	Width of Drive Slot	Depth of Slot	Hole Size	No. of Teeth
14542-AX1610R	1 1/4	1	1/4	5/32	1/2	8
14543-AX1610L	1 1/4	1	1/4	5/32	1/2	8
14544-AX1611R	1 3/8	1 1/8	1/4	5/32	1/2	8
14545-AX1611L	1 3/8	1 1/8	1/4	5/32	1/2	8
14546-AX1612R	1 1/2	1 1/8	1/4	5/32	1/2	8
14547-AX1612L	1 1/2	1 1/8	1/4	5/32	1/2	8
14548-AX1613R	1 5/8	1 1/4	5/16	3/16	3/4	8
14549-AX1613L	1 5/8	1 1/4	5/16	3/16	3/4	8
14550-AX1614R	1 3/4	1 1/4	5/16	3/16	3/4	8
14551-AX1614L	1 3/4	1 1/4	5/16	3/16	3/4	8
14552-AX1615R	1 7/8	1 3/8	5/16	3/16	3/4	10
14553-AX1615L	1 7/8	1 3/8	5/16	3/16	3/4	10
14451-AX1616R	2	1 3/8	5/16	3/16	3/4	10
14452-AX1616L	2	1 3/8	5/16	3/16	3/4	10
14554-AX1617R	2 1/8	1 1/2	3/8	7/32	1	10
14555-AX1617L	2 1/8	1 1/2	3/8	7/32	1	10
14556-AX1618R	2 1/4	1 1/2	3/8	7/32	1	10
14557-AX1618L	2 1/4	1 1/2	3/8	7/32	1	10
14558-AX1619R	2 3/8	1 5/8	3/8	7/32	1	10
14559-AX1619L	2 3/8	1 5/8	3/8	7/32	1	10
14453-AX1620R	2 1/2	1 5/8	3/8	7/32	1	10
14454-AX1620L	2 1/2	1 5/8	3/8	7/32	1	10
14560-AX1621R	2 5/8	1 5/8	3/8	7/32	1	10

Catalog EDI-Number	Dia	Width of Face	Width of Drive Slot	Depth of Slot	Hole Size	No. of Teeth
14561-AX1621L	2 5/8	1 5/8	3/8	7/32	1	10
14562-AX1622R	2 3/4	1 5/8	3/8	7/32	1	10
14563-AX1622L	2 3/4	1 5/8	3/8	7/32	1	10
14564-AX1623R	2 7/8	1 3/4	1/2	9/32	1 1/4	12
14565-AX1623L	2 7/8	1 3/4	1/2	9/32	1 1/4	12
14455-AX1624R	3	1 3/4	1/2	9/32	1 1/4	12
14456-AX1624L	3	1 3/4	1/2	9/32	1 1/4	12
14566-AX1625R	3 1/4	1 7/8	1/2	9/32	1 1/4	12
14567-AX1625L	3 1/4	1 7/8	1/2	9/32	1 1/4	12
14568-AX1626R	3 1/2	1 7/8	1/2	9/32	1 1/4	12
14569-AX1626L	3 1/2	1 7/8	1/2	9/32	1 1/4	12
14570-AX1627R	3 3/4	2 1/4	5/8	3/8	1 1/2	14
14571-AX1627L	3 3/4	2 1/4	5/8	3/8	1 1/2	14
14457-AX1628R	4	2 1/4	5/8	3/8	1 1/2	14
14458-AX1628L	4	2 1/4	5/8	3/8	1 1/2	14
14572-AX1630R	4 1/2	2 1/4	5/8	3/8	1 1/2	14
14573-AX1630L	4 1/2	2 1/4	5/8	3/8	1 1/2	14
14459-AX1632R	5	2 1/4	5/8	3/8	1 1/2	16
14460-AX1632L	5	2 1/4	5/8	3/8	1 1/2	16
14574-AX1634R	5 1/2	2 1/4	3/4	7/16	2	16
14575-AX1634L	5 1/2	2 1/4	3/4	7/16	2	16
14576-AX1636R	6	2 1/4	3/4	7/16	2	16
14577-AX1636L	6	2 1/4	3/4	7/16	2	16

CARBIDE TIPPED SHELL END MILL CUTTERS

FOR STEEL

Catalog EDI-Number	Dia. of Cut Inches	Width of Cutter	Min Tip Length Inches	Dia of Hole Inches	Width of Drive Slot	Depth of Slot	# of Teeth
14380-MC1610R	1 1/4	1	1/2	1/2	1/4	5/32	4
14381-MC1612R	1 1/2	1 1/8	1/2	1/2	1/4	5/32	4
14382-MC1614R	1 3/4	1 1/4	1/2	3/4	5/16	3/16	4
14383-MC1616R	2	1 3/8	1/2	3/4	5/16	3/16	4
14384-MC1618R	2 1/4	1 1/2	1/2	1	3/8	7/32	6
14385-MC1620R	2 1/2	1 5/8	5/8	1	3/8	7/32	6
14386-MC1622R	2 3/4	1 5/8	5/8	1	3/8	7/32	6
14387-MC1624R	3	1 3/4	3/4	1 1/4	1/2	9/32	6
14388-MC1626R	3 1/2	1 7/8	3/4	1 1/4	1/2	9/32	6
14389-MC1628R	4	2 1/4	3/4	1 1/2	5/8	3/8	6

-Right Hand Cut, Left Hand Spiral

-Designed to withstand the impact of milling steel

FOR CAST IRON

Catalog EDI-Number	Dia. of Cut Inches	Width of Cutter	Min Tip Length Inches	Dia of Hole Inches	Width of Drive Slot	Depth of Slot	# of Teeth
14465-AAC1610R	1 1/4	1	1/2	1/2	1/4	5/32	4
14466-AAC1612R	1 1/2	1 1/8	1/2	1/2	1/4	5/32	4
14467-AAC1614R	1 3/4	1 1/4	1/2	3/4	5/16	3/16	4
14468-AAC1616R	2	1 3/8	1/2	3/4	5/16	3/16	4
14469-AAC1618R	2 1/4	1 1/2	1/2	1	3/8	7/32	6
14470-AAC1620R	2 1/2	1 5/8	5/8	1	3/8	7/32	6
14471-AAC1622R	2 3/4	1 5/8	5/8	1	3/8	7/32	6
14472-AAC1624R	3	1 3/4	3/4	1 1/4	1/2	9/32	6
14473-AAC1626R	3 1/2	1 7/8	3/4	1 1/4	1/2	9/32	6
14474-AAC1628R	4	2 1/4	3/4	1 1/2	5/8	3/8	6

-Right Hand Cut, Right Hand Spiral

-Manufactured to allow greater metal removal at standard speeds & feeds

FOR NON-FERROUS MATERIALS

Catalog EDI-Number	Dia. of Cut Inches	Width of Cutter	Min Tip Length Inches	Dia of Hole Inches	Width of Drive Slot	Depth of Slot	# of Teeth
14480-AC1610R	1 1/4	1	1/2	1/2	1/4	5/32	4
14481-AC1612R	1 1/2	1 1/8	1/2	1/2	1/4	5/32	4
14482-AC1614R	1 3/4	1 1/4	1/2	3/4	5/16	3/16	4
14483-AC1616R	2	1 3/8	1/2	3/4	5/16	3/16	4
14484-AC1618R	2 1/4	1 1/2	1/2	1	3/8	7/32	6
14485-AC1620R	2 1/2	1 5/8	5/8	1	3/8	7/32	6
14486-AC1622R	2 3/4	1 5/8	5/8	1	3/8	7/32	6
14487-AC1624R	3	1 3/4	3/4	1 1/4	1/2	9/32	6
14488-AC1626R	3 1/2	1 7/8	3/4	1 1/4	1/2	9/32	6
14489-AC1628R	4	2 1/4	3/4	1 1/2	5/8	3/8	6

-Right Hand Cut, Right Hand Spiral

-Able to handle larger chiploads at higher feed rates

CONCAVE CUTTERS - HIGH SPEED STEEL
ARBOR TYPE - FORM RELIEVED

Concave milling cutters are used to produce a true convex radius. These cutters are made for milling half circles and may be sharpened without changing their form by grinding the face.

Catalog EDI-Number	Circle Dia. (in.)	Radius (in.)	Cutter Dia (in.)	Hole Size	No. of Teeth
12678-C2001	1/16	1/32	2 1/4	1	14
12679-C2003	3/32	3/64	2 1/4	1	14
12601-C2004	3/32	3/64	3	1	18
12600-C2002	1/16	1/32	3	1	18
12602-C203	1/8	1/16	2	7/8	14
12603-C204	1/8	1/16	2 1/4	1	14
12604-C2041	1/8	1/16	3	1	18
12605-C2042	1/8	1/16	4	1	20
12606-C2043	1/8	1/16	4	1 1/4	20
12680-C2045	5/32	5/64	2 1/4	1	14
12607-C2044	5/32	5/64	3	1	18
12608-C205	3/16	3/32	2	7/8	14
12609-C206	3/16	3/32	2 1/4	1	14
12610-C2061	3/16	3/32	3	1	18
12611-C2062	3/16	3/32	4	1	20
12612-C2063	3/16	3/32	4	1 1/4	20
12681-C2065	7/32	7/64	2 1/4	1	14
12613-C2064	7/32	7/64	3	1	18
12614-C207	1/4	1/8	2	7/8	14
12615-C208	1/4	1/8	2 1/2	1	12
12616-C2081	1/4	1/8	3	1	16
12617-C2082	1/4	1/8	4	1	20
12618-C2083	1/4	1/8	4	1 1/4	20
12619-C2086	9/32	9/64	4	1	20
12620-C209	5/16	5/32	2 1/4	7/8	12
12621-C210	5/16	5/32	2 3/4	1	12
12622-C2101	5/16	5/32	3	1	16
12623-C2102	5/16	5/32	4	1	20
12624-C2103	5/16	5/32	4	1 1/4	20
12625-C2107	11/32	11/64	4	1	18
12626-C211	3/8	3/16	2 1/4	7/8	12
12627-C212	3/8	3/16	2 3/4	1	12
12628-C2122	3/8	3/16	4	1	18
12629-C2123	3/8	3/16	4	1 1/4	18

Catalog EDI-Number	Circle Dia. (in.)	Radius (in.)	Cutter Dia (in.)	Hole Size	No. of Teeth
12630-C2127	13/32	13/64	4	1	18
12631-C213	7/16	7/32	2 1/4	7/8	12
12632-C214	7/16	7/32	3	1	12
12633-C2141	7/16	7/32	4	1	16
12634-C2145	15/32	15/64	4	1	16
12635-C217	1/2	1/4	2 1/4	7/8	12
12636-C218	1/2	1/4	3	1	12
12637-C2181	1/2	1/4	4	1	16
12638-C2182	1/2	1/4	4	1 1/4	16
12639-C2184	1/2	1/4	5	1 1/4	18
12640-C2186	1/2	1/4	6	1 1/4	22
12641-C2189	17/32	17/64	4	1	16
12642-C2191	9/16	9/32	3	1	12
12643-C2193	9/16	9/32	4	1 1/4	12
12644-C227	5/8	5/16	2 3/4	1	12
12645-C228	5/8	5/16	3 1/2	1 1/4	12
12646-C2284	5/8	5/16	5	1 1/4	16
12647-C2286	5/8	5/16	6	1 1/4	18
12648-C2291	11/16	11/32	3	1	10
12649-C2293	11/16	11/32	4	1 1/4	12
12650-C231	3/4	3/8	3	1	10
12651-C232	3/4	3/8	3 3/4	1 1/4	12
12652-C2324	3/4	3/8	5	1 1/4	14
12653-C2326	3/4	3/8	6	1 1/4	16
12654-C2341	13/16	13/32	3 1/4	1	10
12655-C2343	13/16	13/32	4	1 1/4	12
12656-C241	7/8	7/16	3 1/4	1	10
12657-C242	7/8	7/16	4	1 1/4	12
12658-C2424	7/8	7/16	5	1 1/4	12
12659-C2426	7/8	7/16	6	1 1/4	14
12660-C2428	15/16	15/32	3 1/4	1	10
12661-C2430	15/16	15/32	4	1 1/4	10
12662-C251	1	1/2	3 1/4	1	10
12663-C252	1	1/2	4 1/4	1 1/4	10
12664-C2524	1	1/2	5	1 1/4	12
12665-C2526	1	1/2	6	1 1/4	14
12666-C256	1 1/8	9/16	4 1/4	1 1/4	10
12667-C2564	1 1/8	9/16	5 1/2	1 1/4	12
12668-C260	1 1/4	5/8	4 1/2	1 1/4	10
12669-C2604	1 1/4	5/8	5 1/2	1 1/4	12
12670-C264	1 3/8	11/16	4 3/4	1 1/4	10
12671-C2646	1 3/8	11/16	6	1 1/4	12
12672-C268	1 1/2	3/4	5	1 1/4	10
12673-C2684	1 1/2	3/4	6	1 1/4	12
12674-C272	1 5/8	13/16	5 1/4	1 1/4	10
12675-C276	1 3/4	7/8	5 1/2	1 1/4	10
12676-C280	1 7/8	15/16	5 3/4	1 1/2	10
12677-C284	2	1	6	1 1/2	10

CONVEX CUTTERS

CONVEX CUTTERS - HIGH SPEED STEEL
ARBOR TYPE - FORM RELIEVED

Convex milling cutters are used to produce a true concave radius. These cutters are made for milling half circles and may be sharpened without changing their form by grinding the face.

Catalog EDI-Number	Circle Dia. (in.)	Radius (in.)	Cutter Dia (in.)	Hole Size	No. of Teeth
12493-C01	1/16	1/32	2 1/4	1	14
12500-C02	1/16	1/32	3	1	18
12494-C03	3/32	3/64	2 1/4	1	14
12501-C04	3/32	3/64	3	1	18
12502-C06	3/32	3/64	4	1	20
12503-C07	3/32	3/64	4	1 1/4	20
12504-C103	1/8	1/16	2	7/8	14
12505-C104	1/8	1/16	2 1/4	1	14
12506-C1041	1/8	1/16	3	1	18
12507-C1042	1/8	1/16	4	1	20
12508-C1043	1/8	1/16	4	1 1/4	20
12495-C1045	5/32	5/64	2 1/4	1	14
12509-C1044	5/32	5/64	3	1	18
12510-C1046	5/32	5/64	4	1	20
12511-C1047	5/32	5/64	4	1 1/4	20
12512-C105	3/16	3/32	2	7/8	14
12513-C106	3/16	3/32	2 1/4	1	14
12514-C1061	3/16	3/32	3	1	18
12515-C1062	3/16	3/32	4	1	20
12516-C1063	3/16	3/32	4	1 1/4	20
12496-C1065	7/32	7/64	2 1/4	1	14
12517-C1064	7/32	7/64	3	1	18
12518-C1066	7/32	7/64	4	1	20
12519-C1067	7/32	7/64	4	1 1/4	20
12520-C107	1/4	1/8	2	7/8	14
12521-C108	1/4	1/8	2 1/2	1	12
12522-C1081	1/4	1/8	3	1	16
12523-C1082	1/4	1/8	4	1	20
12524-C1083	1/4	1/8	4	1 1/4	20
12497-C1085	9/32	9/64	2 1/2	1	12
12525-C1084	9/32	9/64	3	1	16
12526-C1086	9/32	9/64	4	1	20
12527-C1087	9/32	9/64	4	1 1/4	20
12528-C109	5/16	5/32	2 1/4	7/8	12
12529-C110	5/16	5/32	2 3/4	1	12
12530-C1101	5/16	5/32	3	1	16
12531-C1102	5/16	5/32	4	1	20
12532-C1103	5/16	5/32	4	1 1/4	20
12533-C1104	5/16	5/32	5	1 1/4	18
12534-C1105	11/32	11/64	3	1	16
12535-C1107	11/32	11/64	4	1	20
12536-C1108	11/32	11/64	4	1 1/4	20
12537-C111	3/8	3/16	2 1/4	7/8	12
12538-C112	3/8	3/16	2 3/4	1	12
12539-C1122	3/8	3/16	4	1	18
12540-C1123	3/8	3/16	4	1 1/4	18
12541-C1124	3/8	3/16	5	1 1/4	18
12542-C1125	13/32	13/64	3	1	16
12543-C1127	13/32	13/64	4	1	18
12544-C1128	13/32	13/64	4	1 1/4	18
12545-C113	7/16	7/32	2 1/4	7/8	12
12546-C114	7/16	7/32	3	1	12
12547-C1141	7/16	7/32	4	1	18
12548-C1142	7/16	7/32	5	1 1/4	18
12549-C1143	15/32	15/64	3	1	12
12550-C1145	15/32	15/64	4	1	16
12551-C1146	15/32	15/64	4	1 1/4	16
12552-C117	1/2	1/4	2 1/4	7/8	12
12553-C118	1/2	1/4	3	1	12
12554-C1181	1/2	1/4	4	1	16
12555-C1182	1/2	1/4	4	1 1/4	16
12556-C1184	1/2	1/4	5	1 1/4	18
12557-C1186	1/2	1/4	6	1 1/4	18
12558-C1187	17/32	17/64	3	1	12
12559-C1189	17/32	17/64	4	1	16
12560-C1190	17/32	17/64	4	1 1/4	16
12498-C1192	9/16	9/32	2 3/4	1	12
12561-C1191	9/16	9/32	3	1	12
12562-C1194	9/16	9/32	4	1 1/4	16
12563-C127	5/8	5/16	2 3/4	1	12
12564-C128	5/8	5/16	3 1/2	1 1/4	12
12565-C1284	5/8	5/16	5	1 1/4	16
12566-C1286	5/8	5/16	6	1 1/4	18
12567-C1291	11/16	11/32	3	1	10
12568-C1294	11/16	11/32	4	1 1/4	16
12569-C131	3/4	3/8	3	1	10
12570-C132	3/4	3/8	3 3/4	1 1/4	12
12571-C1324	3/4	3/8	5	1 1/4	14
12572-C1326	3/4	3/8	6	1 1/4	16
12573-C1341	13/16	13/32	3 1/4	1	10
12574-C1344	13/16	13/32	4	1 1/4	12
12575-C141	7/8	7/16	3 1/4	1	10
12576-C142	7/8	7/16	4	1 1/4	12
12577-C1424	7/8	7/16	5	1 1/4	12
12578-C1426	7/8	7/16	6	1 1/4	14
12579-C1428	15/16	15/32	3 1/4	1	10
12580-C1430	15/16	15/32	4	1 1/4	12
12581-C151	1	1/2	3 1/4	1	10
12582-C152	1	1/2	4 1/4	1 1/4	10
12583-C1524	1	1/2	5	1 1/4	12
12584-C1526	1	1/2	6	1 1/4	14
12585-C156	1 1/8	9/16	4 1/4	1 1/4	10
12586-C1564	1 1/8	9/16	5 1/2	1 1/4	12
12587-C160	1 1/4	5/8	4 1/2	1 1/4	10
12588-C1604	1 1/4	5/8	5 1/2	1 1/4	12
12589-C162	1 1/4	5/8	6	1 1/4	12
12590-C164	1 3/8	11/16	4 3/4	1 1/4	10
12591-C1646	1 3/8	11/16	6	1 1/4	12
12592-C168	1 1/2	3/4	5	1 1/4	10
12598-C1682	1 1/2	3/4	5	1 1/2	10
12593-C1684	1 1/2	3/4	6	1 1/4	12
12594-C172	1 5/8	13/16	5 1/4	1 1/4	10
12595-C176	1 3/4	7/8	5 1/2	1 1/4	10
12596-C180	1 7/8	15/16	5 3/4	1 1/2	10
12597-C184	2	1	6	1 1/2	10

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CORNER ROUNDING CUTTERS

RH LH

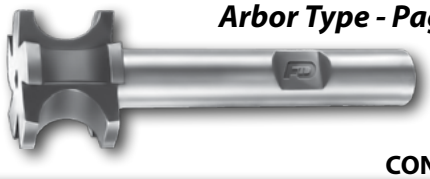
Corner rounding milling cutters are designed for radius milling on arbor type miling machines. They may be used individually or in pairs. These cutters have side and radial clearance and can be sharpened by grinding the face without changing their forms. When ordering, specify whether right hand or left hand cutters are wanted.

Catalog EDI-Number	Radius	Dia.	Width	Hole Size	No. of Teeth
12401-C303R	1/8	2	1/4	7/8	14
12402-C303L	1/8	2	1/4	7/8	14
12403-C304R	1/8	2 1/2	1/4	1	12
12404-C304L	1/8	2 1/2	1/4	1	12
12405-C306R	3/16	2 1/2	5/16	1	12
12406-C306L	3/16	2 1/2	5/16	1	12
12407-C307R	1/4	2 1/4	13/32	7/8	10
12408-C307L	1/4	2 1/4	13/32	7/8	10
12409-C308R	1/4	3	13/32	1	12
12410-C308L	1/4	3	13/32	1	12
12411-C310R	5/16	3	7/16	1	12
12412-C310L	5/16	3	7/16	1	12
12413-C311R	3/8	3	9/16	1	10
12414-C311L	3/8	3	9/16	1	10
12415-C312R	3/8	3 3/4	9/16	1 1/4	12
12416-C312L	3/8	3 3/4	9/16	1 1/4	12
12417-C313R	7/16	3 1/4	5/8	1	12
12418-C313L	7/16	3 1/4	5/8	1	12
12419-C317R	1/2	3 1/4	3/4	1	10
12420-C317L	1/2	3 1/4	3/4	1	10
12421-C318R	1/2	4 1/4	3/4	1 1/4	12
12422-C318L	1/2	4 1/4	3/4	1 1/4	12
12423-C320R	9/16	4 1/4	13/16	1 1/4	12
12424-C320L	9/16	4 1/4	13/16	1 1/4	12
12425-C327R	5/8	3 1/2	15/16	1	10
12426-C327L	5/8	3 1/2	15/16	1	10
12427-C328R	5/8	4 1/4	15/16	1 1/4	12
12428-C328L	5/8	4 1/4	15/16	1 1/4	12
12429-C332R	3/4	4 1/4	1 1/8	1 1/4	10
12430-C332L	3/4	4 1/4	1 1/8	1 1/4	10
12431-C336R	7/8	4 1/2	1 5/16	1 1/4	10
12432-C336L	7/8	4 1/2	1 5/16	1 1/4	10
12433-C340R	1	4 1/2	1 9/16	1 1/4	10
12434-C340L	1	4 1/2	1 9/16	1 1/4	10

CONVEX AND CONCAVE SHANK TYPE CUTTERS

FORM RELIEVED - HIGH SPEED STEEL

See Our Concave Cutters Arbor Type - Page 31



CONCAVE

Catalog EDI-Number	Radius (in.)	Shank (in.)	Overall Length (in.)	Cutter Dia. (in.)	# of Teeth
12476-C701	1/32	1/2	3	3/4	6
12477-C702	1/16	1/2	3	3/4	6
12478-C703	3/32	1/2	3	3/4	6
12479-C704	1/8	3/4	3 1/2	1	6
12480-C705	5/32	3/4	3 1/2	1	6
12481-C706	3/16	3/4	3 1/2	1	6
12482-C707	1/4	3/4	4	1 1/4	4
12482A-C707A	9/32	3/4	4	1 1/4	4
12483-C708	5/16	3/4	4	1 1/4	4
12484-C709	3/8	3/4	4	1 1/2	4

See Our Convex Cutters Arbor Type - Page 32

CONVEX

Catalog EDI-Number	Radius (in.)	Shank (in.)	Overall Length (in.)	Cutter Dia. (in.)	# of Teeth
12451-C601	1/32	1/2	3	3/4	6
12452-C602	1/16	1/2	3	3/4	6
12453-C603	3/32	1/2	3	7/8	6
12454-C604	1/8	3/4	3 1/2	1 1/4	6
12455-C605	5/32	3/4	3 1/2	1 5/16	6
12456-C606	3/16	3/4	3 1/2	1 3/8	6
12457-C607	1/4	3/4	4	1 1/2	4
12458-C608	5/16	3/4	4	1 5/8	4
12459-C609	3/8	3/4	4	1 3/4	4

RADIUS CUTTERS

CARBIDE TIPPED

Cutter Radius	Tool Dia.	Shank Dia.	# of Teeth	Cutter Width	Overall Length	For N-F, Cast Iron EDI #	For Steel EDI #
1/32	3/4	1/2	6	1/16	3	12460	12467
1/16	3/4	1/2	6	1/8	3	12461	12468
3/32	7/8	1/2	6	3/16	3	12462	12469
1/8	1 1/4	3/4	6	1/4	3 1/2	12463	12470
5/32	1 5/16	3/4	6	5/16	3 1/2	12464	12471
3/16	1 3/8	3/4	6	3/8	3 1/2	12465	12472
1/4	1 1/2	3/4	6	1/2	4	12466	12473

CORNER ROUNDING ENDMILLS

FRACTIONAL HIGH SPEED STEEL

Radius	Shank Dia.	Largest Dia.	Overall Length	High Speed Steel	Cobalt
1/32	3/8	7/16	2 1/2	17051-C401	34470-CX401
1/16	3/8	7/16	2 1/2	17052-C402	34471-CX402
3/32	3/8	1/2	2 1/2	17053-C403	34472-CX403
1/8	3/8	5/8	3	17053A	34472A
1/8	1/2	5/8	3	17054-C404	34473-CX404
5/32	1/2	3/4	3	17055-C405	34474-CX405
3/16	1/2	7/8	2 15/16	17056-C4051	34475-CX4051
3/16	3/4	7/8	3 1/8	17057-C406	34476-CX406
1/4	1/2	1	3 1/4	17058-C4061	34477-CX4061
1/4	3/4	1	3 1/4	17059-C408	34478-CX408
9/32	1/2	1-1/8	3-1/4	17059A	34477A
5/16	1/2	1-1/8	3-1/4	17059B	34478A
5/16	3/4	1 1/8	3 1/4	17060-C409	34479-CX409
5/16	7/8	1 1/8	3 1/2	17061-C410	34480-CX410
3/8	1/2	1-1/4	3-1/2	17061A	34480A
3/8	3/4	1 1/4	3 1/2	17062-C411	34481-CX411
3/8	7/8	1 1/4	3 3/4	17063-C412	34482-CX412
7/16	3/4	1 3/8	3 3/4	17064-C413	34483-CX413
7/16	1	1 3/8	4	17065-C414	34484-CX414
15/32	3/4	1-3/8	3-3/4	17065A	34484A
1/2	3/4	1 1/2	3 7/8	17066-C416	34485-CX416
1/2	1	1 1/2	4 1/8	17067-C418	34486-CX418
9/16	3/4	1-15/16	4	17067A	34486A
5/8	3/4	1 15/16	4	17068-C420	34487-CX420
5/8	1	1 15/16	4 1/4	17069-C422	34488-CX422
21/32	3/4	1-15/16	4	17069A	34488A
3/4	5/8	2 1/4	4 1/8	17070-C423	34489-CX423
3/4	3/4	2 1/4	4 1/8	17071-C424	34490-CX424
3/4	1	2 1/4	4 5/16	17072-C426	34491-CX426
13/16	1	2-1/4	4-5/16	17072A	34491A
7/8	1	2 1/2	4 1/2	17073-C430	34492-CX430
1	3/4	2-5/8	4-1/2	17073A	34492A
1	1	2 5/8	4 3/4	17074-C436	34493-CX436

These formed endmills are regularly furnished in right hand cut.

METRIC HIGH SPEED STEEL

Radius	Shank Dia.	Largest Dia.	Overall Length	High Speed Steel	Cobalt
1 mm	3/8	7/16	2 1/2	34501-C501	34530-CX501
1.5 mm	3/8	7/16	2 1/2	34502-C502	34531-CX502
2 mm	3/8	1/2	2 1/2	34503-C503	34532-CX503
2.5 mm	3/8	1/2	2 1/2	34504-C504	34533-CX504
3 mm	1/2	5/8	3	34505-C505	34534-CX505
3.5 mm	1/2	3/4	3	34506-C506	34535-CX506
4 mm	1/2	3/4	3	34507-C507	34536-CX507
4.5 mm	1/2	7/8	3	34508-C508	34537-CX508
5 mm	1/2	7/8	3	34509-C509	34538-CX509
6 mm	3/4	1	3 1/4	34510-C510	34539-CX510
7 mm	3/4	1	3 1/4	34511-C511	34540-CX511
8 mm	3/4	1 1/8	3 1/4	34512-C512	34541-CX512
9 mm	3/4	1 1/8	3 1/4	34513-C513	34542-CX513
10 mm	3/4	1 3/8	3 3/4	34514-C514	34543-CX514
11 mm	1	1 3/8	3 3/4	34515-C515	34544-CX515
12 mm	1	1 1/2	4 1/8	34516-C516	34545-CX516
13 mm	1	1 1/2	4 1/8	34517-C517	34546-CX517
14 mm	1	1 5/8	4 1/8	34518-C518	34547-CX518
15 mm	1	1 7/8	4 1/4	34519-C519	34548-CX519
16 mm	1	2	4 1/4	34520-C520	34549-CX520
17 mm	1	2 1/8	4 1/4	34521-C521	34550-CX521
18 mm	1	2 1/4	4 1/4	34522-C522	34551-CX522
19 mm	1	2 1/4	4 1/4	34523-C523	34552-CX523
20 mm	1	2 5/16	4 1/4	34524-C524	34553-CX524

4 PIECE HSS SET
34500A
Contains 1 piece of each:
1/2, 9/16, 5/8, 3/4, (x3/4shk)
Supplied in wood block.

8 PIECE HSS SET
34500B
Contains 1 piece of each:
1/16, 3/32,(x3/8 shk), 1/8, 5/32, 3/16, 1/4, 5/16, 3/8 (x1/2shk)
Supplied in wood block.

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CORNER ROUNDING ENDMILLS

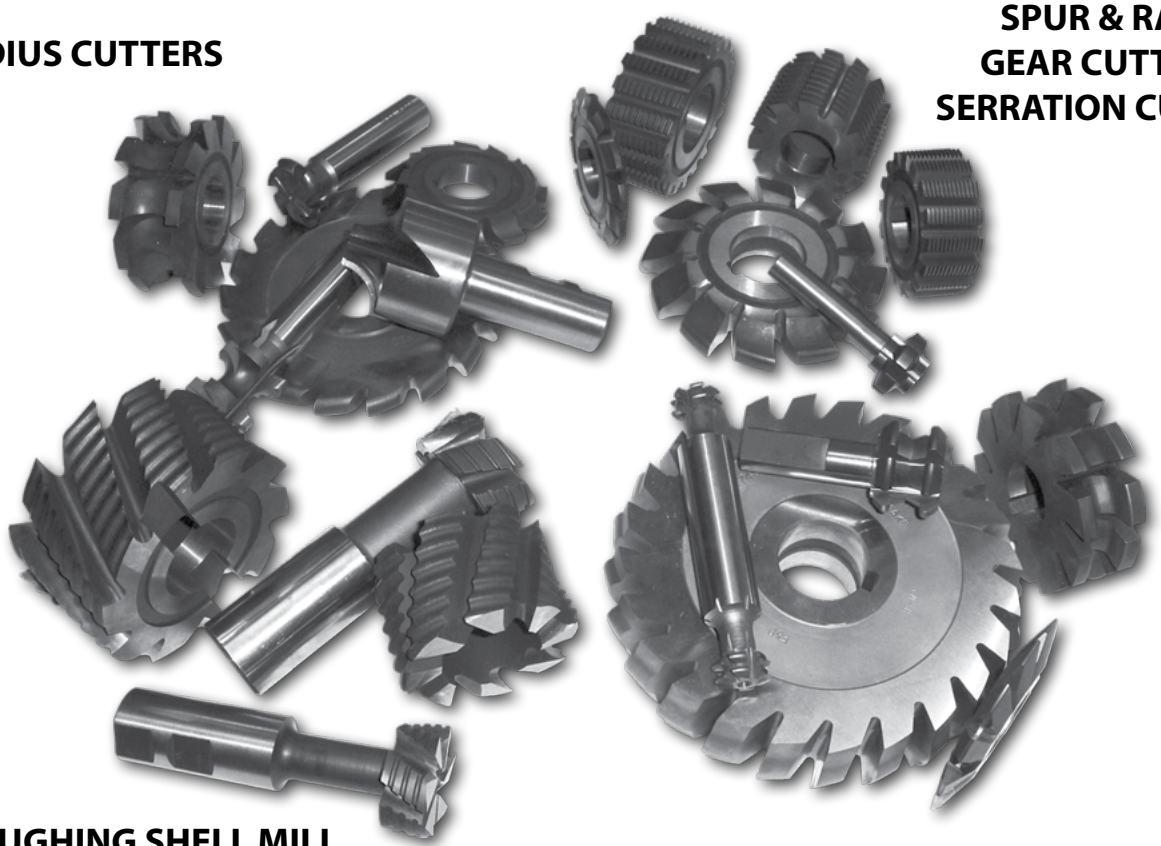
CARBIDE TIPPED

List No. 9756 - For Non-Ferrous & Cast Iron
List No. 9757 - For Steel
Use: Milling round corners on square edges.

Radius	Shank Dia.	Largest Dia.	End Dia.	Carb. Len.	Overall Length	For N-F, Cast Iron	For Steel
						EDI #	EDI #
1/16	3/8	7/16	17/64	13/32	2 3/4	10330	10341
3/32	3/8	1/2	17/64	13/32	2 3/4	10331	10342
1/8	1/2	5/8	19/64	13/32	3	10332	10343
5/32	1/2	3/4	23/64	13/32	3	10333	10344
3/16	3/4	7/8	13/32	13/32	3 1/4	10334	10345
1/4	3/4	1	13/32	15/32	3 1/4	10335	10346
5/16	7/8	1 1/8	13/32	19/32	3 1/2	10336	10347
3/8	7/8	1 1/4	13/32	25/32	3 3/4	10337	10348
7/16	1	1 3/8	13/32	7/8	4	10338	10349
1/2	1	1 1/2	13/32	1	4	10339	10350
5/8	1 1/4	2	21/32	1 7/32	4 1/4	10340	10351

RADIUS CUTTERS

SPUR & RACK GEAR CUTTERS, SERRATION CUTTERS



ROUGHING SHELL MILL & T-SLOT CUTTERS

SPECIAL FORM CUTTERS

INVOLUTE GEAR MILLING CUTTERS

High Speed Steel

14 1/2º Pressure Angle - Form Relieved

These cutters are designed to mill spur gears having a 14 1/2 degree pressure angle. They may be sharpened repeatedly without changing the original form.

Cutter No. 1 will cut gears from 135 teeth to a rack
Cutter No. 2 will cut gears from 55 teeth to 134 teeth
Cutter No. 3 will cut gears from 35 teeth to 54 teeth
Cutter No. 4 will cut gears from 26 teeth to 34 teeth
Cutter No. 5 will cut gears from 21 teeth to 25 teeth
Cutter No. 6 will cut gears from 17 teeth to 20 teeth
Cutter No. 7 will cut gears from 14 teeth to 16 teeth
Cutter No. 8 will cut gears from 12 teeth to 13 teeth

When ordering state diametral pitch and the number of cutter desired from the above chart according to the number of teeth to be cut.

LIST NO. GC14

Diametrical Pitch	Hole Size	Dia.	1	2	3	4	5	6	7	8
1	2	8 1/2	12701	12702	12703	12704	12705	12706	12707	12708
1 1/4	2	7 3/4	12709	12710	12711	12712	12713	12714	12715	12716
1 1/2	1 3/4	7	12717	12718	12719	12720	12721	12722	12723	12724
1 3/4	1 3/4	6 1/2	12725	12726	12727	12728	12729	12730	12731	12732
2	1 1/2	5 3/4	12733	12734	12735	12736	12737	12738	12739	12740
2	1 3/4	6 1/2	12741	12742	12743	12744	12745	12746	12747	12748
2 1/2	1 1/2	5 3/4	12749	12750	12751	12752	12753	12754	12755	12756
2 1/2	1 3/4	6 1/8	12757	12758	12759	12760	12761	12762	12763	12764
3	1 1/4	4 3/4	12765	12766	12767	12768	12769	12770	12771	12772
3	1 1/2	5 1/4	12773	12774	12775	12776	12777	12778	12779	12780
3	1 3/4	5 5/8	12781	12782	12783	12784	12785	12786	12787	12788
4	1	3 5/8	12789	12790	12791	12792	12793	12794	12795	12796
4	1 1/4	4 1/4	12797	12798	12799	12800	12801	12802	12803	12804
4	1 1/2	4 1/2	12805	12806	12807	12808	12809	12810	12811	12812
4	1 3/4	4 3/4	12813	12814	12815	12816	12817	12818	12819	12820
5	1	3 3/8	12821	12822	12823	12824	12825	12826	12827	12828
5	1 1/4	3 3/4	12829	12830	12831	12832	12833	12834	12835	12836
5	1 1/2	4 1/4	12837	12838	12839	12840	12841	12842	12843	12844
5	1 3/4	4 3/8	12845	12846	12847	12848	12849	12850	12851	12852
6	1	3 1/8	12853	12854	12855	12856	12857	12858	12859	12860
6	1 1/4	3 1/2	12861	12862	12863	12864	12865	12866	12867	12868
6	1 1/2	3 7/8	12869	12870	12871	12872	12873	12874	12875	12876
6	1 3/4	4 1/4	12877	12878	12879	12880	12881	12882	12883	12884
7	1	2 7/8	12885	12886	12887	12888	12889	12890	12891	12892
7	1 1/4	3 3/8	12893	12894	12895	12896	12897	12898	12899	12900
7	1 1/2	3 5/8	12901	12902	12903	12904	12905	12906	12907	12908
8	1	2 7/8	12909	12910	12911	12912	12913	12914	12915	12916
8	1 1/4	3 1/4	12917	12918	12919	12920	12921	12922	12923	12924
8	1 1/2	3 1/2	12925	12926	12927	12928	12929	12930	12931	12932
9	1	2 3/4	12933	12934	12935	12936	12937	12938	12939	12940
9	1 1/4	3 1/8	12941	12942	12943	12944	12945	12946	12947	12948
10	7/8	2 3/8	12949	12950	12951	12952	12953	12954	12955	12956
10	1	2 3/4	12957	12958	12959	12960	12961	12962	12963	12964
10	1 1/4	3	12965	12966	12967	12968	12969	12970	12971	12972
11	7/8	2 3/8	12973	12974	12975	12976	12977	12978	12979	12980
11	1	2 5/8	12981	12982	12983	12984	12985	12986	12987	12988
12	7/8	2 1/4	12989	12990	12991	12992	12993	12994	12995	12996
12	1	2 5/8	12997	12998	12999	13000	13001	13002	13003	13004
12	1 1/4	2 7/8	13005	13006	13007	13008	13009	13010	13011	13012
14	7/8	2 1/8	13013	13014	13015	13016	13017	13018	13019	13020
14	1	2 1/2	13021	13022	13023	13024	13025	13026	13027	13028
16	7/8	2 1/8	13029	13030	13031	13032	13033	13034	13035	13036
16	1	2 1/2	13037	13038	13039	13040	13041	13042	13043	13044

We Also Quote
Spline & Bevel Cutters!

INVOLUTE GEAR MILLING CUTTERS

High Speed Steel
14 1/2° Pressure Angle - Form Relieved

Diametrical Pitch	Hole Size	Dia.	1	2	3	4	5	6	7	8
18	7/8	2	13045	13046	13047	13048	13049	13050	13051	13052
18	1	2 3/8	13053	13054	13055	13056	13057	13058	13059	13060
20	7/8	2	13061	13062	13063	13064	13065	13066	13067	13068
20	1	2 3/8	13069	13070	13071	13072	13073	13074	13075	13076
22	7/8	2	13077	13078	13079	13080	13081	13082	13083	13084
22	1	2 1/4	13085	13086	13087	13088	13089	13090	13091	13092
24	7/8	1 3/4	13093	13094	13095	13096	13097	13098	13099	13100
24	1	2 1/4	13101	13102	13103	13104	13105	13106	13107	13108
26	7/8	1 3/4	13109	13110	13111	13112	13113	13114	13115	13116
26	1	2 1/4	13117	13118	13119	13120	13121	13122	13123	13124
28	7/8	1 3/4	13125	13126	13127	13128	13129	13130	13131	13132
28	1	2 1/4	13133	13134	13135	13136	13137	13138	13139	13140
30	7/8	1 3/4	13141	13142	13143	13144	13145	13146	13147	13148
30	1	2 1/4	13149	13150	13151	13152	13153	13154	13155	13156
32	7/8	1 3/4	13157	13158	13159	13160	13161	13162	13163	13164
32	1	2 1/4	13165	13166	13167	13168	13169	13170	13171	13172
36	7/8	1 3/4	13173	13174	13175	13176	13177	13178	13179	13180
36	1	2 1/4	13181	13182	13183	13184	13185	13186	13187	13188
40	7/8	1 3/4	13189	13190	13191	13192	13193	13194	13195	13196
40	1	2 1/4	13197	13198	13199	13200	13201	13202	13203	13204
48	7/8	1 3/4	13205	13206	13207	13208	13209	13210	13211	13212
48	1	2 1/4	13213	13214	13215	13216	13217	13218	13219	13220

INVOLUTE GEAR MILLING CUTTERS

High Speed Steel
20° Pressure Angle - Form Relieved

Diametral Pitch	Hole Size	Dia.	1	2	3	4	5	6	7	8
1	2	8 1/2	13251	13252	13253	13254	13255	13256	13257	13258
1 1/4	2	7 3/4	13259	13260	13261	13262	13263	13264	13265	13266
1 1/2	1 3/4	7	13267	13268	13269	13270	13271	13272	13273	13274
1 3/4	1 3/4	6 1/2	13275	13276	13277	13278	13279	13280	13281	13282
2	1 1/2	5 3/4	13283	13284	13285	13286	13287	13288	13289	13290
2	1 3/4	6 1/2	13291	13292	13293	13294	13295	13296	13297	13298
2 1/2	1 1/2	5 3/4	13299	13300	13301	13302	13303	13304	13305	13306
2 1/2	1 3/4	6 1/8	13307	13308	13309	13310	13311	13312	13313	13314
3	1 1/4	4 3/4	13315	13316	13317	13318	13319	13320	13321	13322
3	1 1/2	5 1/4	13323	13324	13325	13326	13327	13328	13329	13330
3	1 3/4	5 5/8	13331	13332	13333	13334	13335	13336	13337	13338
4	1	3 5/8	13339	13340	13341	13342	13343	13344	13345	13346
4	1 1/4	4 1/4	13347	13348	13349	13350	13351	13352	13353	13354
4	1 1/2	4 1/2	13355	13356	13357	13358	13359	13360	13361	13362
4	1 3/4	4 3/4	13363	13364	13365	13366	13367	13368	13369	13370
5	1	3 3/8	13371	13372	13373	13374	13375	13376	13377	13378
5	1 1/4	3 3/4	13379	13380	13381	13382	13383	13384	13385	13386
5	1 1/2	4 1/4	13387	13388	13389	13390	13391	13392	13393	13394
5	1 3/4	4 3/8	13395	13396	13397	13398	13399	13400	13401	13402
6	1	3 1/8	13403	13404	13405	13406	13407	13408	13409	13410
6	1 1/4	3 1/2	13411	13412	13413	13414	13415	13416	13417	13418
6	1 1/2	3 7/8	13419	13420	13421	13422	13423	13424	13425	13426
6	1 3/4	4 1/4	13427	13428	13429	13430	13431	13432	13433	13434
7	1	2 7/8	13435	13436	13437	13438	13439	13440	13441	13442
7	1 1/4	3 3/8	13443	13444	13445	13446	13447	13448	13449	13450
7	1 1/2	3 5/8	13451	13452	13453	13454	13455	13456	13457	13458

GEAR CUTTERS

INVOLUTE GEAR MILLING CUTTERS

High Speed Steel - 20° Pressure Angle - Form Relieved

Diametrical Pitch	Hole Size	Dia.	1	2	3	4	5	6	7	8
8	1	2 7/8	13459	13460	13461	13462	13463	13464	13465	13466
8	1 1/4	3 1/4	13467	13468	13469	13470	13471	13472	13473	13474
8	1 1/2	3 1/2	13475	13476	13477	13478	13479	13480	13481	13482
9	1	2 3/4	13483	13484	13485	13486	13487	13488	13489	13490
9	1 1/4	3 1/8	13491	13492	13493	13494	13495	13496	13497	13498
10	7/8	2 3/8	13499	13500	13501	13502	13503	13504	13505	13506
10	1	2 3/4	13507	13508	13509	13510	13511	13512	13513	13514
10	1 1/4	3	13515	13516	13517	13518	13519	13520	13521	13522
11	7/8	2 3/8	13523	13524	13525	13526	13527	13528	13529	13530
11	1	2 5/8	13531	13532	13533	13534	13535	13536	13537	13538
12	7/8	2 1/4	13539	13540	13541	13542	13543	13544	13545	13546
12	1	2 5/8	13547	13548	13549	13550	13551	13552	13553	13554
12	1 1/4	2 7/8	13555	13556	13557	13558	13559	13560	13561	13562
14	7/8	2 1/8	13563	13564	13565	13566	13567	13568	13569	13570
14	1	2 1/2	13571	13572	13573	13574	13575	13576	13577	13578
16	7/8	2 1/8	13579	13580	13581	13582	13583	13584	13585	13586
16	1	2 1/2	13587	13588	13589	13590	13591	13592	13593	13594
18	7/8	2	13595	13596	13597	13598	13599	13600	13601	13602
18	1	2 3/8	13603	13604	13605	13606	13607	13608	13609	13610
20	7/8	2	13611	13612	13613	13614	13615	13616	13617	13618
20	1	2 3/8	13619	13620	13621	13622	13623	13624	13625	13626
22	7/8	2	13627	13628	13629	13630	13631	13632	13633	13634
22	1	2 1/4	13635	13636	13637	13638	13639	13640	13641	13642
24	7/8	1 3/4	13643	13644	13645	13646	13647	13648	13649	13650
24	1	2 1/4	13651	13652	13653	13654	13655	13656	13657	13658
26	7/8	1 3/4	13659	13660	13661	13662	13663	13664	13665	13666
26	1	2 1/4	13667	13668	13669	13670	13671	13672	13673	13674
28	7/8	1 3/4	13675	13676	13677	13678	13679	13680	13681	13682
28	1	2 1/4	13683	13684	13685	13686	13687	13688	13689	13690
30	7/8	1 3/4	13691	13692	13693	13694	13695	13696	13697	13698
30	1	2 1/4	13699	13700	13701	13702	13703	13704	13705	13706
32	7/8	1 3/4	13707	13708	13709	13710	13711	13712	13713	13714
32	1	2 1/4	13715	13716	13717	13718	13719	13720	13721	13722
36	7/8	1 3/4	13723	13724	13725	13726	13727	13728	13729	13730
36	1	2 1/4	13731	13732	13733	13734	13735	13736	13737	13738
40	7/8	1 3/4	13739	13740	13741	13742	13743	13744	13745	13746
40	1	2 1/4	13747	13748	13749	13750	13751	13752	13753	13754
48	7/8	1 3/4	13755	13756	13757	13758	13759	13760	13761	13762
48	1	2 1/4	13763	13764	13765	13766	13767	13768	13769	13770

INVOLUTE GEAR MILLING CUTTERS FOR BEVEL GEARS

High Speed Steel - 14 1/2° Pressure Angle

Diametrical Pitch	Hole Size	Dia.	1	2	3	4	5	6	7	8
3	1 1/4	4	13800	13801	13802	13803	13804	13805	13806	13807
4	1 1/4	3 5/8	13808	13809	13810	13811	13812	13813	13814	13815
5	1 1/4	3 3/8	13816	13817	13818	13819	13820	13821	13822	13823
6	1	3 1/8	13824	13825	13826	13827	13828	13829	13830	13831
7	1	2 7/8	13832	13833	13834	13835	13836	13837	13838	13839
8	1	2 7/8	13840	13841	13842	13843	13844	13845	13846	13847
10	7/8	2 3/8	13848	13849	13850	13851	13852	13853	13854	13855
12	7/8	2 1/4	13856	13857	13858	13859	13860	13861	13862	13863
14	7/8	2 1/8	13864	13865	13866	13867	13868	13869	13870	13871
16	7/8	2 1/8	13872	13873	13874	13875	13876	13877	13878	13879
20	7/8	2	13880	13881	13882	13883	13884	13885	13886	13887
24	7/8	1 3/4	13888	13889	13890	13891	13892	13893	13894	13895

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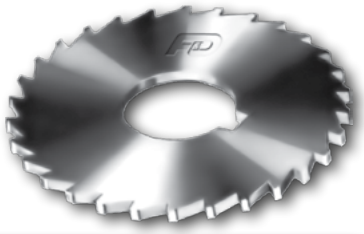
PLAIN SLITTING SAWS
HIGH SPEED STEEL

Regularly furnished with 5°-7° clearance for general purpose slitting.



Catalog EDI-Number	Dia.	Face Width	# of Teeth	Hole Size
14676-B2000	1 1/4	1/32	28	1/2
14677-B2002	1 1/4	1/16	28	1/2
14678-B2010	1 1/2	1/32	32	1/2
14679-B2012	1 1/2	1/16	26	1/2
14680-B2014	1 1/2	3/32	26	1/2
14681-B2016	1 1/2	1/8	26	1/2
14682-B2020	1 3/4	1/32	30	1/2
14683-B2022	1 3/4	1/16	24	1/2
14684-B2024	1 3/4	3/32	24	1/2
14685-B2026	1 3/4	1/8	30	1/2
14686-B2030	2	1/32	28,34	1/2
14687-B2032	2	1/16	28,34	1/2
14688-B2034	2	3/32	28,34	1/2
14689-B2036	2	1/8	28,34	1/2
14690-B2038	2	5/32	34	1/2
14691-B2040	2	3/16	34	1/2
14692-B210	2 1/2	1/32	28	7/8
14693-B212	2 1/2	3/64	28	7/8
14694-B214	2 1/2	1/16	28	7/8
14695-B216	2 1/2	3/32	28	7/8
14696-B218	2 1/2	1/8	28	7/8
14697-B219	3	1/64	30	1
14698-B220	3	1/32	30	1
14699-B222	3	3/64	30	1
14700-B224	3	1/16	30	1
14701-B225	3	5/64	30	1
14702-B226	3	3/32	30	1
14703-B227	3	7/64	30	1
14704-B228	3	1/8	30	1
14705-B229	3	9/64	30	1
14706-B230	3	5/32	30	1
14707-B2302	3	11/64	30	1
14708-B2304	3	3/16	30	1
14709-B2305	3 1/2	1/32	30	1
14710-B2306	3 1/2	3/64	30	1
14711-B2307	3 1/2	1/16	30	1
14712-B2308	3 1/2	3/32	30	1
14713-B2309	3 1/2	1/8	30	1
14713B-B2309B	3 1/2	3/16	36	1
14714-B231	4	1/64	36	1
14715-B232	4	1/32	36	1
14716-B234	4	3/64	36	1
14717-B236	4	1/16	36	1
14718-B237	4	5/64	36	1
14719-B238	4	3/32	36	1
14720-B239	4	7/64	36	1
14721-B240	4	1/8	36	1
14722-B241	4	9/64	36	1
14723-B242	4	5/32	36	1
14724-B243	4	11/64	36	1

Catalog EDI-Number	Dia.	Face Width	# of Teeth	Hole Size
14725-B244	4	3/16	36	1
14726-B2451	4 1/2	1/32	36	1
14727-B2452	4 1/2	3/64	36	1
14728-B2453	4 1/2	1/16	36	1
14729-B2454	4 1/2	3/32	36	1
14730-B2455	4 1/2	1/8	36	1
14761-B2456	5	1/32	40	1
14762-B2457	5	1/32	40	1 1/4
14731-B2458	5	3/64	40	1
14763-B2459	5	3/64	40	1 1/4
14732-B246	5	1/16	40	1
14764-B2461	5	1/16	40	1 1/4
14733-B247	5	5/64	40	1
14734-B248	5	3/32	40	1
14765-B2481	5	3/32	40	1 1/4
14735-B249	5	7/64	40	1
14766-B2491	5	7/64	40	1 1/4
14736-B250	5	1/8	40	1
14738-B252	5	1/8	40	1 1/4
14737-B251	5	9/64	40	1
14739-B253	5	9/64	40	1 1/4
14740-B254	5	5/32	40	1
14767-B255	5	5/32	40	1 1/4
14741-B256	5	3/16	40	1
14768-B2561	5	3/16	40	1 1/4
14742-B257	6	3/64	42,44	1
14743-B258	6	1/16	42,44	1
14743A-B2581	6	1/16	42,44	1 1/4
14744-B259	6	5/64	42,44	1
14745-B260	6	3/32	42,44	1
14746-B261	6	7/64	42,44	1
14747-B262	6	1/8	42,44	1
14748-B264	6	1/8	42,44	1 1/4
14749-B2650	6	9/64	42,44	1
14750-B2655	6	5/32	42,44	1
14751-B266	6	3/16	42,44	1
14752-B268	6	3/16	42,44	1 1/4
14752A-B269	8	3/32	52	1
14752B-B270	8	3/32	52	1 1/4
14753-B272	8	1/8	52	1
14754-B274	8	1/8	52	1 1/4
SP14754A-B275	8	3/16	52	1
14755-B276	8	3/16	52	1 1/4
14755A-B277	8	1/4	52	1 1/4
14756-B282	10	3/32	56	1 1/4
14757-B284	10	1/8	56	1 1/4
14758-B286	10	3/16	56	1 1/4
14759-B299	10	1/4	62	1 1/4

SAWS

SLITTING SAWS WITH SIDE CHIP CLEARANCE HIGH SPEED STEEL

This type of saw is similar to a thin side milling cutter, especially designed for slotting and particularly well adapted for deep cuts in steel. For wider cuts we recommend a staggered tooth saw.

Catalog EDI-Number	Dia.	Face Width	Hole Size	No. of Teeth
14808-B411	2	3/32	5/8	22
14809-B412	2	1/8	5/8	22
14810-B413	2	5/32	5/8	22
14811-B414	2 1/2	1/16	7/8	28
14812-B414A	2 1/2	1/16	1	28
14813-B415	2 1/2	5/64	7/8	28
14814-B416	2 1/2	3/32	7/8	28
14815-B416A	2 1/2	3/32	1	28
14816-B417	2 1/2	7/64	7/8	28
14817-B418	2 1/2	1/8	7/8	28
14818-B418A	2 1/2	1/8	1	28
14819-B419	2 1/2	9/64	7/8	28
14820-B420	2 1/2	11/64	7/8	28
14821-B421	2 1/2	3/16	7/8	28
14823-B424	3	1/16	1	32
14824-B425	3	5/64	1	32
14825-B425A	3	5/64	1 1/4	32
14826-B426	3	3/32	1	32
14827-B427	3	7/64	1	32
14828-B427A	3	7/64	1 1/4	32
14829-B428	3	1/8	1	32
14830-B429	3	9/64	1	32
14831-B429A	3	9/64	1 1/4	32
14832-B430	3	5/32	1	32
14833-B431	3	11/64	1	32
14834-B431A	3	11/64	1 1/4	32
14835-B432	3	3/16	1	32
14836-B432A	3	3/16	1 1/4	32
14836B-B433	3	13/64	1	32
14836C-B433A	3	13/64	1 1/4	32
14837-B434	3	7/32	1	32
14838-B434A	3	7/32	1 1/4	32
14838B-B434B	3	15/64	1	32
14838C-B434C	3	15/64	1 1/4	32
14839-B435	3	1/4	1	32
14840-B435A	3	1/4	1 1/4	32
14841-B436	4	1/16	1	36
14842-B436A	4	1/16	1 1/4	36

Catalog EDI-Number	Dia.	Face Width	Hole Size	No. of Teeth
14843-B437	4	5/64	1	36
14844-B437A	4	5/64	1 1/4	36
14845-B438	4	3/32	1	36
14846-B438A	4	3/32	1 1/4	36
14847-B439	4	7/64	1	36
14848-B439A	4	7/64	1 1/4	36
14849-B440	4	1/8	1	36
14850-B440A	4	1/8	1 1/4	36
14851-B441	4	9/64	1	36
14852-B441A	4	9/64	1 1/4	36
14853-B442	4	5/32	1	36
14854-B442A	4	5/32	1 1/4	36
14855-B443	4	11/64	1	36
14856-B443A	4	11/64	1 1/4	36
14857-B444	4	3/16	1	36
14858-B444A	4	3/16	1 1/4	36
14858B-B444B	4	13/64	1	36
14858C-B444C	4	13/64	1 1/4	36
14859-B445	4	7/32	1	36
14860-B445A	4	7/32	1 1/4	36
14860B-B4451	4	15/64	1	36
14860C-B4452	4	15/64	1 1/4	36
14861-B445B	4	1/4	1	36
14862-B445C	4	1/4	1 1/4	36
14863-B446	5	1/16	1	40
14864-B446A	5	1/16	1 1/4	40
14865-B448	5	3/32	1	40
14866-B448A	5	3/32	1 1/4	40
14867-B449	5	7/64	1	40
14868-B449A	5	7/64	1 1/4	40
14869-B450	5	1/8	1	40
14870-B452	5	1/8	1 1/4	40
14871-B453	5	9/64	1	40
14872-B453A	5	9/64	1 1/4	40
14873-B454	5	5/32	1	40
14874-B454A	5	5/32	1 1/4	40
14875-B455	5	11/64	1	40
14876-B455A	5	11/64	1 1/4	40
14877-B456	5	3/16	1	40

SLITTING SAWS WITH SIDE CHIP CLEARANCE
HIGH SPEED STEEL

Catalog EDI-Number	Dia.	Face Width	Hole Size	No. of Teeth
14878-B456A	5	3/16	1 1/4	40
14878C-B456C	5	7/32	1	40
14878B-B456B	5	7/32	1 1/4	40
14878E-B457A	5	1/4	1	40
14878D-B457	5	1/4	1 1/4	40
14879-B458	6	1/16	1	42
14880-B458A	6	1/16	1 1/4	42
14880C-B459A	6	5/64	1	42
14880B-B459	6	5/64	1 1/4	42
14881-B460	6	3/32	1	42
14882-B460A	6	3/32	1 1/4	42
14883-B461	6	7/64	1	42
14884-B461A	6	7/64	1 1/4	42
14885-B462	6	1/8	1	42
14886-B464	6	1/8	1 1/4	42
14887-B464A	6	9/64	1	42
14888-B464B	6	9/64	1 1/4	42
14889-B465	6	5/32	1	42
14890-B465B	6	5/32	1 1/4	42
14891-B465C	6	11/64	1	42
14892-B465F	6	11/64	1 1/4	42
14893-B466	6	3/16	1	42
14894-B468	6	3/16	1 1/4	42
14894C-B4682	6	13/64	1	42
14894B-B4681	6	13/64	1 1/4	42
14894E-B4684	6	7/32	1	42
14894D-B4683	6	7/32	1 1/4	42
14895G-B4686	6	15/64	1	42
14895F-B4685	6	15/64	1 1/4	42
14895I-B4688	6	1/4	1	42
14895H-B4687	6	1/4	1 1/4	42
14895K-B4691	6	17/64	1	42
14895J-B469	6	17/64	1 1/4	42
14895M-B4693	6	9/32	1	42
14895L-B4692	6	9/32	1 1/4	42
14895O-B4695	6	19/64	1	42
14895N-B4694	6	19/64	1 1/4	42
14895Q-B4697	6	5/16	1	42
14895P-B4696	6	5/16	1 1/4	42
14895S-B4701	6	21/64	1	42
14895R-B470	6	21/64	1 1/4	42
14895U-B4703	6	11/32	1	42
14895T-B4702	6	11/32	1 1/4	42

Catalog EDI-Number	Dia.	Face Width	Hole Size	No. of Teeth
14894W-B4705	6	23/64	1	42
14894V-B4704	6	23/64	1 1/4	42
14894Y-B4707	6	3/8	1	42
14894X-B4706	6	3/8	1 1/4	42
14895B-B4709	7	1/8	1	48
14894Z-B4708	7	1/8	1 1/4	48
14895D-B4712	7	3/16	1	48
14895C-B471	7	3/16	1 1/4	48
14895-B471A	8	3/32	1	48
14896-B471B	8	3/32	1 1/4	48
14897-B472	8	1/8	1	48
14898-B474	8	1/8	1 1/4	48
14898B-B474A	8	1/8	1 1/2	48
14898C-B475	8	5/32	1 1/4	48
14898D-B475A	8	5/32	1 1/2	48
14899-B476	8	3/16	1 1/4	48
14899B-B476A	8	3/16	1 1/2	48
14899C-B476B	8	7/32	1 1/4	48
14899D-B476C	8	7/32	1 1/2	48
14900-B477	8	1/4	1 1/4	48
14900B-B477A	8	1/4	1 1/2	48
14900C-B478	8	3/8	1 1/4	48
14900D-B478A	8	3/8	1 1/2	48
14901-B480	10	3/32	1 1/4	56
14902-B482	10	3/32	1 1/2	56
14903-B484	10	1/8	1 1/4	56
14904-B484A	10	1/8	1 1/2	56
14904B-B485	10	5/32	1 1/4	56
14905-B486	10	3/16	1 1/4	56
14906-B486A	10	3/16	1 1/2	56
14906B-B487	10	7/32	1 1/4	56
14906C-B487A	10	7/32	1 1/2	56
14907-B488	10	1/4	1 1/4	56
14908-B488A	10	1/4	1 1/2	56
14908B-B489	10	3/8	1 1/4	56
14908C-B489A	10	3/8	1 1/2	56
14909-B490	12	1/8	1 1/4	64
14910-B490A	12	1/8	1 1/2	64
14911-B494	12	3/16	1 1/4	64
14912-B494A	12	3/16	1 1/2	64
14913-B496	12	1/4	1 1/4	64
14914-B498	12	1/4	1 1/2	64
14914B-B499	12	5/16	1 1/2	64
14914C-B499A	12	3/8	1 1/2	64

SAWS

Catalog EDI-Number	Dia.	Width of Face	Hole Size	No. of Teeth
14966-B618	2 1/2	1/16	1	28
14967-B620	2 1/2	3/32	1	28
14968-B622	2 1/2	1/8	1	28
14969-B624	3	1/16	1	28/32*
14970-B624A	3	1/16	1 1/4	28/32*
14971-B625	3	5/64	1	28/32*
14972-B625A	3	5/64	1 1/4	28/32*
14973-B626	3	3/32	1	28/32*
14974-B626A	3	3/32	1 1/4	28/32*
14975-B627	3	7/64	1	28/32*
14976-B627A	3	7/64	1 1/4	28/32*
14977-B628	3	1/8	1	28/32*
14978-B628A	3	1/8	1 1/4	28/32*
14979-B629	3	9/64	1	28/32*
14980-B629A	3	9/64	1 1/4	28/32*
14981-B630	3	5/32	1	28/32*
14982-B630A	3	5/32	1 1/4	28/32*
14983-B630B	3	11/64	1	28/32*
14984-B630C	3	11/64	1 1/4	28/32*
14985-B631	3	3/16	1	28/32*
14986-B631A	3	3/16	1 1/4	28/32*
14987-B633	3	7/32	1	28/32*
14988-B633A	3	7/32	1 1/4	28/32*
14988B-B634	3	1/4	1	28/32*
14989-B636	4	1/16	1	36
14990-B636A	4	1/16	1 1/4	36
14991-B637	4	5/64	1	36
14992-B637A	4	5/64	1 1/4	36
14993-B638	4	3/32	1	36
14994-B638A	4	3/32	1 1/4	36
14995-B639	4	7/64	1	36
14996-B639A	4	7/64	1 1/4	36
14997-B640	4	1/8	1	36
14998-B640A	4	1/8	1 1/4	36
14999-B641	4	9/64	1	36
15000-B641A	4	9/64	1 1/4	36
15001-B642	4	5/32	1	36
15002-B642A	4	5/32	1 1/4	36
15003-B643	4	11/64	1	36
15004-B643A	4	11/64	1 1/4	36
15005-B644	4	3/16	1	36
15006-B644A	4	3/16	1 1/4	36
15007-B645	4	7/32	1	36
15008-B645A	4	7/32	1 1/4	36
15009-B646	4	1/4	1	36
15010-B646A	4	1/4	1 1/4	36
15010B-B648	5	3/32	1	40
15010C-B648A	5	3/32	1 1/4	40
15011-B652	5	1/8	1	40
15012-B652A	5	1/8	1 1/4	40
15013-B653	5	9/64	1	40
15014-B653A	5	9/64	1 1/4	40
15015-B654	5	5/32	1	40
15016-B654A	5	5/32	1 1/4	40
15017-B655	5	11/64	1	40
15018-B655A	5	11/64	1 1/4	40
15019-B656	5	3/16	1	40
15020-B656A	5	3/16	1 1/4	40
15020B-5656B	5	7/32	1	40

Catalog EDI-Number	Dia.	Width of Face	Hole Size	No. of Teeth
15020C-B656C	5	7/32	1 1/4	40
15021-B657	5	1/4	1	40
15022-B657A	5	1/4	1 1/4	40
15023A-B660A	6	1/16	1	42
15023-B660	6	1/16	1 1/4	42
15024-B662	6	1/8	1	42
15025-B664	6	1/8	1 1/4	42
15026-B664A	6	9/64	1	42
15027-B664B	6	9/64	1 1/4	42
15028-B665A	6	5/32	1	42
15029-B665B	6	5/32	1 1/4	42
15030-B665C	6	11/64	1	42
15031-B665F	6	11/64	1 1/4	42
15032-B666	6	3/16	1	42
15033-B668	6	3/16	1 1/4	42
15033B-B668A	6	7/32	1	42
15033C-B668B	6	7/32	1 1/4	42
15034-B669	6	1/4	1	42
15035-B670	6	1/4	1 1/4	42
15035B-B670A	6	3/8	1	42
15035C-B670B	6	3/8	1 1/4	42
15036-B6701	7	1/8	1	44
15037-B6702	7	1/8	1 1/4	44
15038-B6705	7	3/16	1	44
15039-B6706	7	3/16	1 1/4	44
15041-B6715	8	1/16	1 1/4	48
15042-B6718	8	3/32	1	48
15043-B6719	8	3/32	1 1/4	48
15044-B672	8	1/8	1	48
15045-B672A	8	1/8	1 1/4	48
15045B-B672B	8	5/32	1 1/4	48
15045C-B672C	8	5/32	1 1/2	48
15046-B675	8	3/16	1	48
15047-B676	8	3/16	1 1/4	48
15047B-B676A	8	7/32	1 1/4	48
15047C-B676B	8	7/32	1 1/2	48
15048-B677	8	1/4	1 1/4	48
15048B-B678	8	1/4	1 1/2	48
15048C-B679	8	3/8	1 1/4	48
15048D-B680	8	3/8	1 1/2	48
15048E-B681	10	3/32	1 1/4	56
15049-B682	10	1/8	1 1/4	56
15050-B682A	10	1/8	1 1/2	56
15050B-B685	10	5/32	1 1/4	56
15051-B686	10	3/16	1 1/4	56
15052-B686A	10	3/16	1 1/2	56
15052B-B687	10	7/32	1 1/4	56
15052C-B687A	10	7/32	1 1/2	56
15053-B688	10	1/4	1 1/4	56
15054-B688A	10	1/4	1 1/2	56
15054B-B689	10	3/8	1 1/4	56
15054C-B689A	10	3/8	1 1/2	56
15055-B690	12	1/8	1 1/4	64
15056-B690A	12	1/8	1 1/2	64
15057-B691	12	3/16	1 1/4	64
15058-B691A	12	3/16	1 1/2	64
15059-B692	12	1/4	1 1/2	64
15060-B694	12	5/16	1 1/2	64
15061-B695	12	3/8	1 1/2	64

SLITTING SAW WITH STAGGERED TEETH HIGH SPEED STEEL

This type of saw resembles a staggered tooth side milling cutter. It is a fast, easy cutting saw due to the alternate helical tooth form which provides a shearing action and plenty of chip space between the side teeth. It is made specifically for deeper cuts and coarser feeds.

** These saws can come in either 28 or 32 teeth, please be sure to specify when you order.*

SLITTING SAWS WITH STAGGERED TEETH M42 COBALT

Cobalt staggered tooth saws with alternate helical teeth are manufactured for heavy duty cutting.

Catalog EDI-Number	Dia.	Width	Hole Size	No. of Teeth
16164-BX628	3	1/8	1	28/32*
16166-BX630	3	5/32	1	28/32*
16168-BX631	3	3/16	1	28/32*
16170-BX634	3	1/4	1	28/32*
16172-BX640	4	1/8	1	36
16174-BX640A	4	1/8	1 1/4	36
16176-BX642	4	5/32	1	36
16178-BX642A	4	5/32	1 1/4	36
16180-BX644	4	3/16	1	36
16182-BX644A	4	3/16	1 1/4	36
16184-BX646	4	1/4	1	36
16186-BX646A	4	1/4	1 1/4	36
16188-BX664	6	1/8	1 1/4	42
16190-BX665B	6	5/32	1 1/4	42
16192-BX668	6	3/16	1 1/4	42
16194-BX670	6	1/4	1 1/4	42

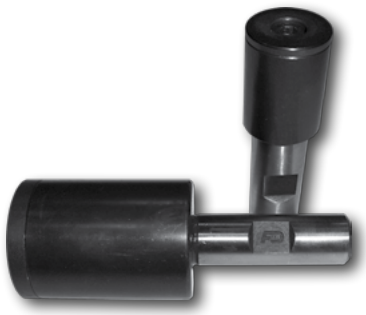
** These saws can come in either 28 or 32 teeth, please be sure to specify when you order.*

SLITTING SAWS WITH SIDE CHIP CLEARANCE M42 COBALT

Cobalt slitting saws with straight side teeth are for finer finishing & longer life. They are manufactured to make deep slotting cuts in harder machining materials.

Catalog EDI-Number	Dia.	Width	Hole Size	No. of Teeth
16120-BX424	3	1/16	1	32
16122-BX426	3	3/32	1	32
16124-BX428	3	1/8	1	32
16126-BX430	3	5/32	1	32
16128-BX432	3	3/16	1	32
16130-BX434	3	1/4	1	32
16132-BX436	4	1/16	1	36
16134-BX436A	4	1/16	1 1/4	36
16136-BX438	4	3/32	1	36
16138-BX438A	4	3/32	1 1/4	36
16140-BX440	4	1/8	1	36
16142-BX440A	4	1/8	1 1/4	36
16144-BX442	4	5/32	1	36
16146-BX442A	4	5/32	1 1/4	36
16148-BX444	4	3/16	1	36
16150-BX444A	4	3/16	1 1/4	36
16152-BX445B	4	1/4	1	36
16154-BX445C	4	1/4	1 1/4	36
16156-BX462	6	1/8	1 1/4	42
16158-BX465B	6	5/32	1 1/4	42
16160-BX468	6	3/16	1 1/4	42
16162-BX470	6	1/4	1 1/4	42

SLITTING & SLOTTING SAW ARBORS FOR SCREW AND JEWELER'S SAWS



These hardened and ground arbors provide an extended reach for general purpose slitting applications. These arbors are **not** keyed.

Standard Arbor tolerance is .002"

Premium Arbor tolerance is .0004"

STANDARD ARBORS

Catalog EDI-Number	Hole Dia.	Shank Dia.	Arbor Dia.	Overall Length
56001	1/4	1/2	1/2	2 3/4
56002	3/8	1/2	5/8	2 7/8
56003	1/2	1/2	3/4	3 1/16
56004	Set of Three 1/4 - 1/2			
56005	5/8	3/4	1	3 1/2
56006	1	3/4	1 1/2	3 3/4
56007	1 1/4	3/4	1 3/4	4 1/16
56008	Set of Three 5/8 - 1 1/4			

PREMIUM ARBORS

Catalog EDI-Number	Hole Dia.	Shank Dia.	Arbor Dia.	Overall Length
56102	3/8	1/2	5/8	2 7/8
56103	1/2	1/2	3/4	3 1/16
56104	Set of Three 1/4 - 1/2			
56105	5/8	3/4	1	3 1/2
56106	1	3/4	1 1/2	3 3/4
56107	1 1/4	3/4	1 3/4	4 1/16
56108	Set of Three 5/8 - 1 1/4			

SAWS

SCREW SLOTTING SAWS - HIGH SPEED STEEL

Catalog EDI-Number 72 Teeth	Catalog EDI-Number 56 Teeth	Dia.	Width	Hole	Gauge
15111-B810	15203-B810	2 3/4	.182	1	5
15112-B812	15204-B812	2 3/4	.162	1	6
15113-B814	15205-B814	2 3/4	.144	1	7
15114-B816	15206-B816	2 3/4	.128	1	8
15115-B817	-	2 3/4	.128	3/4	8
15116-B818	15207-B818	2 3/4	.114	1	9
15117-B819	-	2 3/4	.114	3/4	9
15118-B820	15208-B820	2 3/4	.102	1	10
15119-B821	-	2 3/4	.102	3/4	10
15120-B822	15209-B822	2 3/4	.091	1	11
15121-B823	-	2 3/4	.091	3/4	11
15122-B824	15210-B824	2 3/4	.081	1	12
15123-B825	-	2 3/4	.081	3/4	12
15124-B826	15211-B826	2 3/4	.072	1	13
15125-B827	-	2 3/4	.072	3/4	13
15126-B828	15212-B828	2 3/4	.064	1	14
15127-B829	-	2 3/4	.064	3/4	14
15128-B830	15213-B830	2 3/4	.057	1	15
15129-B831	-	2 3/4	.057	3/4	15
15130-B832	15214-B832	2 3/4	.051	1	16
15131-B833	-	2 3/4	.051	3/4	16
15132-B834	15215-B834	2 3/4	.045	1	17
15133-B835	-	2 3/4	.045	3/4	17
15134-B836	15216-B836	2 3/4	.040	1	18
15135-B837	-	2 3/4	.040	3/4	18
15136-B838	15217-B838	2 3/4	.036	1	19
15137-B839	-	2 3/4	.036	3/4	19
15138-B840	15218-B840	2 3/4	.032	1	20
15139-B841	-	2 3/4	.032	3/4	20
15140-B842	15219-B842	2 3/4	.028	1	21
15141-B843	-	2 3/4	.028	3/4	21
15142-B844	15220-B844	2 3/4	.025	1	22
15143-B845	-	2 3/4	.025	3/4	22
15144-B846	15221-B846	2 3/4	.023	1	23
15145-B847	-	2 3/4	.023	3/4	23
15146-B848	15222-B848	2 3/4	.020	1	24
15147-B849	-	2 3/4	.020	3/4	24
15148-B8481	-	2 3/4	.018	3/4	25
15149-B8491	15223-B8491	2 3/4	.018	1	25
15150-B8482	-	2 3/4	.016	3/4	26
15151-B8492	15224-B8492	2 3/4	.016	1	26
15152-B8483	-	2 3/4	.014	3/4	27
15153-B8493	15225-B8493	2 3/4	.014	1	27
15154-B8484	-	2 3/4	.012	3/4	28
15155-B8494	15226-B8494	2 3/4	.012	1	28
15156-B8485	-	2 3/4	.010	3/4	30
15157-B8495	15227-B8495	2 3/4	.010	1	30
15158-B8486	-	2 3/4	.008	3/4	32
15159-B8486	15228-B8486	2 3/4	.008	1	32
15160-B8487	-	2 3/4	.006	3/4	34
15161-B8488	15229-B8488	2 3/4	.006	1	34

These cutters are made from finely tempered high speed steel and designed for efficient milling of slots such as those on heads of screws or any other similar operations. Standard screw slotting saws are available in 1 3/4" dia. with 90T, 2 1/4" dia. with 60T and 2 3/4" dia. with 72T. Also available in a 2 3/4" dia. and 1" hole with 56T at no additional cost.

Catalog EDI-Number	Dia.	Width	Hole	Gauge
15162-B8496	2 1/4	.102	5/8	10
15163-B8497	2 1/4	.091	5/8	11
15164-B8498	2 1/4	.081	5/8	12
15165-B8499	2 1/4	.072	5/8	13
15166-B850	2 1/4	.064	5/8	14
15167-B852	2 1/4	.057	5/8	15
15168-B854	2 1/4	.051	5/8	16
15169-B856	2 1/4	.045	5/8	17
15170-B858	2 1/4	.040	5/8	18
15171-B860	2 1/4	.036	5/8	19
15172-B862	2 1/4	.032	5/8	20
15173-B864	2 1/4	.028	5/8	21
15174-B866	2 1/4	.025	5/8	22
15175-B868	2 1/4	.023	5/8	23
15176-B870	2 1/4	.020	5/8	24
15177-B8701	2 1/4	.018	5/8	25
15178-B8702	2 1/4	.016	5/8	26
15179-B8703	2 1/4	.014	5/8	27
15180-B8704	2 1/4	.012	5/8	29
15181-B8705	2 1/4	.010	5/8	30
15182-B8706	2 1/4	.008	5/8	32
15183-B8707	2 1/4	.006	5/8	34
15184-B8719	1 3/4	.072	5/8	13
15185-B872	1 3/4	.064	5/8	14
15186-B874	1 3/4	.057	5/8	15
15187-B876	1 3/4	.051	5/8	16
15188-B878	1 3/4	.045	5/8	17
15189-B880	1 3/4	.040	5/8	18
15190-B882	1 3/4	.036	5/8	19
15191-B884	1 3/4	.032	5/8	20
15192-B886	1 3/4	.028	5/8	21
15193-B888	1 3/4	.025	5/8	22
15194-B890	1 3/4	.023	5/8	23
15195-B892	1 3/4	.020	5/8	24
15196-B8921	1 3/4	.018	5/8	25
15197-B8922	1 3/4	.016	5/8	26
15198-B8923	1 3/4	.014	5/8	27
15199-B8924	1 3/4	.012	5/8	28
15200-B8925	1 3/4	.010	5/8	30
15201-B8926	1 3/4	.008	5/8	32
15202-B8927	1 3/4	.006	5/8	31

JEWELER'S SLOTTING SAWS - HIGH SPEED STEEL

These saws are designed for cutting off thin tubing, wire or like materials and for slotting very thin material.

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15251-J101	1	.006	1/4	30	98
15252-J101	1	.006	5/16	30	98
15253-J101	1	.006	3/8	30	98
15254-J101	1	.006	1/2	30	98
15255-J102	1	.008	1/4	30	98
15256-J102	1	.008	5/16	30	98
15257-J102	1	.008	3/8	30	98
15258-J102	1	.008	1/2	30	98
15259-J103	1	.010	1/4	30	98
15260-J103	1	.010	5/16	30	98
15261-J103	1	.010	3/8	30	98
15262-J103	1	.010	1/2	30	98
15263-J104	1	.012	1/4	30	98
15264-J104	1	.012	5/16	30	98
15265-J104	1	.012	3/8	30	98
15266-J104	1	.012	1/2	30	98
15267-J105	1	.014	1/4	24	76
15268-J105	1	.014	5/16	24	76
15269-J105	1	.014	3/8	24	76
15270-J105	1	.014	1/2	24	76
15271-J106	1	.016	1/4	24	76
15272-J106	1	.016	5/16	24	76
15273-J106	1	.016	3/8	24	76
15274-J106	1	.016	1/2	24	76
15275-J107	1	.018	1/4	24	76
15276-J107	1	.018	5/16	24	76
15277-J107	1	.018	3/8	24	76
15278-J107	1	.018	1/2	24	76
15279-J108	1	.020	1/4	24	76
15280-J108	1	.020	5/16	24	76
15281-J108	1	.020	3/8	24	76
15282-J108	1	.020	1/2	24	76
15283-J109	1	.023	1/4	24	76
15284-J109	1	.023	5/16	24	76
15285-J109	1	.023	3/8	24	76
15286-J109	1	.023	1/2	24	76
15287-J110	1	.025	1/4	24	76
15288-J110	1	.025	5/16	24	76
15289-J110	1	.025	3/8	24	76
15290-J110	1	.025	1/2	24	76

SOME SAWS SUPPLIED WITHOUT KEYWAYS

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15291-J111	1	.028	1/4	24	76
15292-J111	1	.028	5/16	24	76
15293-J111	1	.028	3/8	24	76
15294-J111	1	.028	1/2	24	76
15295-J112	1	.032	1/4	24	76
15296-J112	1	.032	5/16	24	76
15297-J112	1	.032	3/8	24	76
15298-J112	1	.032	1/2	24	76
15299-J113	1 1/4	.006	5/16	30	120
15300-J113	1 1/4	.006	3/8	30	120
15301-J113	1 1/4	.006	1/2	30	120
15302-J114	1 1/4	.008	5/16	30	120
15303-J114	1 1/4	.008	3/8	30	120
15304-J114	1 1/4	.008	1/2	30	120
15305-J115	1 1/4	.010	5/16	30	120
15306-J115	1 1/4	.010	3/8	30	120
15307-J115	1 1/4	.010	1/2	30	120
15308-J116	1 1/4	.012	5/16	30	120
15309-J116	1 1/4	.012	3/8	30	120
15310-J116	1 1/4	.012	1/2	30	120
15311-J117	1 1/4	.014	5/16	24	98
15312-J117	1 1/4	.014	3/8	24	98
15313-J117	1 1/4	.014	1/2	24	98
15314-J118	1 1/4	.016	5/16	24	98
15315-J118	1 1/4	.016	3/8	24	98
15316-J118	1 1/4	.016	1/2	24	98
15317-J119	1 1/4	.018	5/16	24	98
15318-J119	1 1/4	.018	3/8	24	98
15319-J119	1 1/4	.018	1/2	24	98
15320-J120	1 1/4	.020	5/16	24	98
15321-J120	1 1/4	.020	3/8	24	98
15322-J120	1 1/4	.020	1/2	24	98
15323-J121	1 1/4	.023	5/16	24	98
15324-J121	1 1/4	.023	3/8	24	98
15325-J121	1 1/4	.023	1/2	24	98
15326-J122	1 1/4	.025	5/16	24	98
15327-J122	1 1/4	.025	3/8	24	98
15328-J122	1 1/4	.025	1/2	24	98
15329-J123	1 1/4	.028	5/16	24	98
15330-J123	1 1/4	.028	3/8	24	98

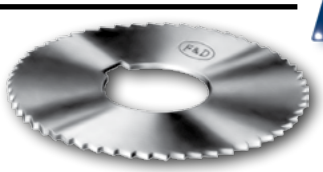
SAWS

JEWELER'S SLOTTING SAWS - HIGH SPEED STEEL

SOME SAWS SUPPLIED WITHOUT KEYWAYS

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15331-J123	1 1/4	.028	1/2	24	98
15332-J124	1 1/4	.032	5/16	24	98
15333-J124	1 1/4	.032	3/8	24	98
15334-J124	1 1/4	.032	1/2	24	98
15335-J125	1 1/2	.006	3/8	30	140
15336-J125	1 1/2	.006	1/2	30	140
15337-J126	1 1/2	.008	3/8	30	140
15338-J126	1 1/2	.008	1/2	30	140
15339-J127	1 1/2	.010	3/8	30	140
15340-J127	1 1/2	.010	1/2	30	140
15341-J128	1 1/2	.012	3/8	30	140
15342-J128	1 1/2	.012	1/2	30	140
15343-J129	1 1/2	.014	3/8	24	110
15344-J129	1 1/2	.014	1/2	24	110
15345-J130	1 1/2	.016	3/8	24	110
15346-J130	1 1/2	.016	1/2	24	110
15347-J131	1 1/2	.018	3/8	24	110
15348-J131	1 1/2	.018	1/2	24	110
15349-J132	1 1/2	.020	3/8	24	110
15350-J132	1 1/2	.020	1/2	24	110
15351-J133	1 1/2	.023	3/8	24	110
15352-J133	1 1/2	.023	1/2	24	110
15353-J134	1 1/2	.025	3/8	24	110
15354-J134	1 1/2	.025	1/2	24	110
15355-J135	1 1/2	.028	3/8	24	110
15356-J135	1 1/2	.028	1/2	24	110
15357-J136	1 1/2	.032	3/8	24	110
15358-J136	1 1/2	.032	1/2	24	110
15359-J137	1 3/4	.006	5/16	30	160
15360-J137	1 3/4	.006	3/8	30	160
15361-J137	1 3/4	.006	1/2	30	160
15362-J138	1 3/4	.008	5/16	30	160
15363-J138	1 3/4	.008	3/8	30	160
15364-J138	1 3/4	.008	1/2	30	160
15365-J138	1 3/4	.010	5/16	30	160
15366-J139	1 3/4	.010	3/8	30	160
15367-J139	1 3/4	.010	1/2	30	160
15368-J140	1 3/4	.012	5/16	30	160
15369-J140	1 3/4	.012	3/8	30	160
15370-J140	1 3/4	.012	1/2	30	160
15371-J141	1 3/4	.014	3/8	24	132
15372-J141	1 3/4	.014	1/2	24	132
15373-J142	1 3/4	.016	3/8	24	132
15374-J142	1 3/4	.016	1/2	24	132
15375-J143	1 3/4	.018	3/8	24	132
15376-J143	1 3/4	.018	1/2	24	132
15377-J144	1 3/4	.020	3/8	24	132
15378-J144	1 3/4	.020	1/2	24	132

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15379-J145	1 3/4	.023	3/8	24	132
15380-J145	1 3/4	.023	1/2	24	132
15381-J146	1 3/4	.025	3/8	24	132
15382-J146	1 3/4	.025	1/2	24	132
15383-J147	1 3/4	.028	3/8	24	132
15384-J147	1 3/4	.028	1/2	24	132
15385-J148	1 3/4	.032	3/8	24	132
15386-J148	1 3/4	.032	1/2	24	132
15387-J149	2	.006	1/2	30	190
15388-J150	2	.008	1/2	30	190
15389-J151	2	.010	1/2	30	190
15390-J152	2	.012	1/2	30	190
15391-J153	2	.014	3/8	24	152
15392-J153	2	.014	1/2	24	152
15393-J154	2	.016	3/8	24	152
15394-J154	2	.016	1/2	24	152
15395-J155	2	.018	3/8	24	152
15396-J155	2	.018	1/2	24	152
15397-J156	2	.020	3/8	24	152
15398-J156	2	.020	1/2	24	152
15399-J157	2	.023	3/8	24	152
15400-J157	2	.023	1/2	24	152
15401-J158	2	.025	3/8	24	152
15402-J158	2	.025	1/2	24	152
15403-J159	2	.028	3/8	24	152
15404-J159	2	.028	1/2	24	152
15405-J160	2	.032	3/8	18	110
15406-J160	2	.032	1/2	18	110
15407-J161	2	.035	3/8	18	110
15408-J161	2	.035	1/2	18	110
15409-J162	2	.040	3/8	18	110
15410-J162	2	.040	1/2	18	110
15411-J163	2	.045	3/8	18	110
15412-J163	2	.045	1/2	18	110
15413-J164	2	.051	3/8	18	110
15414-J164	2	.051	1/2	18	110
15415-J165	2	.057	3/8	18	110
15416-J165	2	.057	1/2	18	110
15417-J166	2 1/4	.008	1/2	30	210
15418-J167	2 1/4	.010	1/2	30	210
15419-J168	2 1/4	.012	1/2	30	210
15420-J169	2 1/2	.006	1/2	30	240
15421-J170	2 1/2	.008	1/2	30	240
15422-J171	2 1/2	.010	1/2	30	240
15423-J172	2 1/2	.012	1/2	30	240
15424-J173	2 1/2	.014	1/2	24	190
15425-J174	2 1/2	.016	1/2	24	190
15426-J175	2 1/2	.018	1/2	24	190



JEWELER'S SLOTTING SAWS - HIGH SPEED STEEL

SOME SAWS SUPPLIED WITHOUT KEYWAYS

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15427-J176	2 1/2	.020	1/2	24	190
15428-J177	2 1/2	.023	1/2	24	190
15429-J178	2 1/2	.025	1/2	24	190
15430-J179	2 1/2	.028	1/2	24	190
15431-J180	2 1/2	.032	1/2	18	140
15432-J181	2 1/2	.035	1/2	18	140
15433-J182	2 1/2	.040	1/2	18	140
15434-J183	2 1/2	.045	1/2	18	140
15435-J184	2 1/2	.051	1/2	18	140
15436-J185	2 1/2	.057	1/2	18	140
15437-J186	3	.006	1/2	30	280
15438-J186	3	.006	3/4	30	280
15439-J186	3	.006	1	30	280
15440-J187	3	.008	1/2	30	280
15441-J187	3	.008	3/4	30	280
15442-J187	3	.008	1	30	280
15443-J188	3	.010	1/2	30	280
15444-J188	3	.010	3/4	30	280
15445-J188	3	.010	1	30	280
15446-J189	3	.012	1/2	30	280
15447-J189	3	.012	3/4	30	280
15448-J189	3	.012	1	30	280
15449-J190	3	.014	1/2	24	230
15450-J190	3	.014	3/4	24	230
15451-J190	3	.014	1	24	230
15452-J191	3	.016	1/2	24	230
15453-J191	3	.016	3/4	24	230
15454-J191	3	.016	1	24	230
15455-J192	3	.018	1/2	24	230
15456-J192	3	.018	3/4	24	230
15457-J192	3	.018	1	24	230
15458-J193	3	.020	1/2	24	230
15459-J193	3	.020	3/4	24	230
15460-J193	3	.020	1	24	230
15461-J194	3	.023	1/2	24	230
15462-J194	3	.023	3/4	24	230
15463-J194	3	.023	1	24	230
15464-J195	3	.025	1/2	24	230
15465-J195	3	.025	3/4	24	230
15466-J195	3	.025	1	24	230
15467-J196	3	.028	1/2	24	230
15468-J196	3	.028	3/4	24	230
15469-J196	3	.028	1	24	230
15470-J197	3	.032	1/2	18	168
15471-J197	3	.032	3/4	18	168
15472-J197	3	.032	1	18	168
15473-J198	3	.035	1/2	18	168
15474-J198	3	.035	3/4	18	168
15475-J198	3	.035	1	18	168
15476-J199	3	.040	1/2	18	168
15477-J199	3	.040	3/4	18	168
15478-J199	3	.040	1	18	168
15479-J200	3	.045	1/2	18	168
15480-J200	3	.045	3/4	18	168
15481-J200	3	.045	1	18	168
15482-J201	3	.051	1/2	18	168
15483-J201	3	.051	3/4	18	168
15484-J201	3	.051	1	18	168
15485-J202	3	.057	1/2	18	168
15486-J202	3	.057	3/4	18	168
15487-J202	3	.057	1	18	168
15488-J203	4	.012	1/2	24	310
15489-J203	4	.012	3/4	24	310
15490-J203	4	.012	1	24	310
15491-J204	4	.014	1/2	24	310
15492-J204	4	.014	3/4	24	310
15493-J204	4	.014	1	24	310
15494-J205	4	.016	1/2	24	310
15495-J205	4	.016	3/4	24	310
15496-J205	4	.016	1	24	310
15497-J206	4	.018	1/2	24	310
15498-J206	4	.018	3/4	24	310
15499-J206	4	.018	1	24	310
15500-J207	4	.020	1/2	24	310
15501-J207	4	.020	3/4	24	310
15502-J207	4	.020	1	24	310
15503-J208	4	.023	1/2	24	310
15504-J208	4	.023	3/4	24	310
15505-J208	4	.023	1	24	310
15506-J209	4	.025	1/2	24	310
15507-J209	4	.025	3/4	24	310
15508-J209	4	.025	1	24	310
15509-J210	4	.028	1/2	24	310
15510-J210	4	.028	3/4	24	310
15511-J210	4	.028	1	24	310
15512-J211	4	.032	1/2	18	220
15513-J211	4	.032	3/4	18	220
15514-J211	4	.032	1	18	220
15515-J212	4	.035	1/2	18	220
15516-J212	4	.035	3/4	18	220
15517-J212	4	.035	1	18	220
15518-J213	4	.040	1/2	18	220
15519-J213	4	.040	3/4	18	220
15520-J213	4	.040	1	18	220
15521-J214	4	.045	1/2	18	220
15522-J214	4	.045	3/4	18	220
15523-J214	4	.045	1	18	220
15524-J215	4	.051	1/2	18	220

SAWS

JEWELER'S SLOTTING SAWS - HIGH SPEED STEEL

SOME SAWS SUPPLIED WITHOUT KEYWAYS

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15525-J215	4	.051	3/4	18	220
15526-J215	4	.051	1	18	220
15527-J216	4	.057	1/2	18	220
15528-J216	4	.057	3/4	18	220
15529-J216	4	.057	1	18	220
15530-J217	4	.064	1/2	18	220
15531-J217	4	.064	3/4	18	220
15532-J217	4	.064	1	18	220
15533-J218	5	.016	1/2	24	380
15534-J218	5	.016	3/4	24	380
15535-J218	5	.016	1	24	380
15536-J219	5	.018	1/2	24	380
15537-J219	5	.018	3/4	24	380
15538-J219	5	.018	1	24	380
15539-J220	5	.020	1/2	24	380
15540-J220	5	.020	3/4	24	380
15541-J220	5	.020	1	24	380
15542-J221	5	.023	1/2	24	380
15543-J221	5	.023	3/4	24	380
15544-J221	5	.023	1	24	380
15545-J222	5	.025	1/2	24	380
15546-J222	5	.025	3/4	24	380
15547-J222	5	.025	1	24	380
15548-J223	5	.028	1/2	18	280
15549-J223	5	.028	3/4	18	280
15550-J223	5	.028	1	18	280
15551-J224	5	.032	1/2	18	280
15552-J224	5	.032	3/4	18	280
15553-J224	5	.032	1	18	280
15554-J225	5	.035	1/2	18	280
15555-J225	5	.035	3/4	18	280
15556-J225	5	.035	1	18	280
15557-J226	5	.040	1/2	18	280
15558-J226	5	.040	3/4	18	280
15559-J226	5	.040	1	18	280
15560-J227	5	.045	1/2	18	280
15561-J227	5	.045	3/4	18	280
15562-J227	5	.045	1	18	280
15563-J228	5	.051	1/2	18	280
15564-J228	5	.051	3/4	18	280
15565-J228	5	.051	1	18	280
15566-J229	5	.057	1/2	18	280
15567-J229	5	.057	3/4	18	280
15568-J229	5	.057	1	18	280
15569-J230	5	.064	1/2	18	280
15570-J230	5	.064	3/4	18	280
15571-J230	5	.064	1	18	280
15572-J231	6	.020	1/2	24	460
15573-J231	6	.020	3/4	24	460

Catalog EDI-Number	Dia.	Width	Hole	Teeth Per Inch	Teeth Per Saw
15574-J231	6	.020	1	24	460
15575-J232	6	.023	1/2	24	460
15576-J232	6	.023	3/4	24	460
15577-J232	6	.023	1	24	460
15578-J233	6	.025	1/2	24	460
15579-J233	6	.025	3/4	24	460
15580-J233	6	.025	1	24	460
15581-J234	6	.028	1/2	18	340
15582-J234	6	.028	3/4	18	340
15583-J234	6	.028	1	18	340
15584-J235	6	.032	1/2	18	340
15585-J235	6	.032	3/4	18	340
15586-J235	6	.032	1	18	340
15587-J236	6	.035	1/2	18	340
15588-J236	6	.035	3/4	18	340
15589-J236	6	.035	1	18	340
15590-J237	6	.040	1/2	18	340
15591-J237	6	.040	3/4	18	340
15592-J237	6	.040	1	18	340
15593-J238	6	.045	1/2	18	340
15594-J238	6	.045	3/4	18	340
15595-J238	6	.045	1	18	340
15596-J239	6	.051	1/2	12	232
15597-J239	6	.051	3/4	12	232
15598-J239	6	.051	1	12	232
15599-J240	6	.057	1/2	12	232
15600-J240	6	.057	3/4	12	232
15601-J240	6	.057	1	12	232
15602-J241	6	.064	1/2	12	232
15603-J241	6	.064	3/4	12	232
15604-J241	6	.064	1	12	232
15605-J242	6	.072	1/2	12	232
15606-J242	6	.072	3/4	12	232
15607-J242	6	.072	1	12	232
15608-J243	6	.081	1/2	12	232
15609-J243	6	.081	3/4	12	232
15610-J243	6	.081	1	12	232
15611-J244	6	.091	1/2	12	232
15612-J244	6	.091	3/4	12	232
15613-J244	6	.091	1	12	232
15614-J245	6	.102	1/2	12	232
15615-J245	6	.102	3/4	12	232
15616-J245	6	.102	1	12	232
15617-J246	6	.114	1/2	12	232
15618-J246	6	.114	3/4	12	232
15619-J246	6	.114	1	12	232
15620-J247	6	.128	1/2	12	232
15621-J247	6	.128	3/4	12	232
15622-J247	6	.128	1	12	232

Tel: (800) 338-6650 • Fax: (413) 289-1701 • www.fdtool.com

SOLID CARBIDE SLITTING SAWS

To order - Specify saw diameter, thickness & hole diameter.
Example: 1-1/4" x .053 x 1/2"

Hollow Ground For Side Clearance
Metric Sizes Available
Keyways optional at extra cost

TiN, TiCN, and other surface coatings are available.

Tolerances

O.D:	± .005"
Thickness:	+ .0005"
I.D:	± .0003

Width Ranges between .005-.009 offered as specials, call for Pricing

Catalog EDI-No.	Dia.	Width Range	Hole Size	# of Teeth
16001.005	1/4	.005-.007	1/8	10
16001.008	1/4	.008-.009	1/8	10
16002	1/4	.010-.045	1/8	12
16003.005	5/16	.005-.007	1/8	12
16003.008	5/16	.008-.009	1/8	12
16004	5/16	.010-.045	1/8	14
16005.005	3/8	.005-.007	1/8	14
16005.008	3/8	.008-.009	1/8	14
16006	3/8	.010-.045	1/8	14
16006A	3/8	.010-.045	3/16	14
16006B	7/16	.010-.045	1/8	14
16006C	1/2	.010-.045	1/8	14
16008	1/2	.010-.045	3/16	14
16011A	9/16	.010-.045	1/4	16
16014	5/8	.010-.065	1/4	16
16017	3/4	.010-.065	1/4	18
16017A	3/4	.010-.065	5/16	18
16020	7/8	.010-.065	5/16	20
16020A	1	.010-.065	9/32	20
16020B	1	.010-.065	1/4	20
16023	1	.010-.065	5/16	20
16024	1	.010-.065	3/8	20
16024A	1 1/8	.010-.065	5/16	22
16024B	1 1/8	.010-.065	3/8	22
16029	1 1/4	.010-.065	5/16	24
16030	1 1/4	.010-.065	3/8	24
16030A	1 1/4	.010-.065	1/2	24
16030B	1 3/8	.010-.065	3/8	24
16037	1 1/2	.010-.019	1/2	36
16038	1 1/2	.020-.030	1/2	36
16039	1 1/2	.031-.050	1/2	36
16040	1 1/2	.051-.070	1/2	36
16040.071	1 1/2	.071-.090	1/2	36
16040.091	1 1/2	.091-.110	1/2	36
16040.111	1 1/2	.111-.130	1/2	36
16040.131	1 1/2	.131-.150	1/2	36
16040.151	1 1/2	.151-.170	1/2	36
16040.171	1 1/2	.171-.190	1/2	36
16040.191	1 1/2	.191-.210	1/2	36
16040.211	1 1/2	.211-.230	1/2	36
16040.231	1 1/2	.231-.250	1/2	36
16041	1 3/4	.010-.019	1/2	38
16042	1 3/4	.020-.030	1/2	38
16043	1 3/4	.031-.050	1/2	38
16044	1 3/4	.051-.070	1/2	38
16044.071	1 3/4	.071-.090	1/2	38
16044.091	1 3/4	.091-.110	1/2	38
16044.111	1 3/4	.111-.130	1/2	38
16044.131	1 3/4	.131-.150	1/2	38
16044.151	1 3/4	.151-.170	1/2	38
16044.171	1 3/4	.171-.190	1/2	38
16044.191	1 3/4	.191-.210	1/2	38
16044.211	1 3/4	.211-.230	1/2	38
16044.231	1 3/4	.231-.250	1/2	38
16044A.010	1 3/4	.010-.019	7/8	38
16044A.020	1 3/4	.020-.030	7/8	38
16044A.031	1 3/4	.031-.050	7/8	38
16044A.051	1 3/4	.051-.070	7/8	38
16044A.071	1 3/4	.071-.090	7/8	38
16044A.091	1 3/4	.091-.110	7/8	38
16044A.111	1 3/4	.111-.130	7/8	38
16044A.131	1 3/4	.131-.150	7/8	38
16044A.151	1 3/4	.151-.170	7/8	38
16044A.171	1 3/4	.171-.190	7/8	38
16044A.191	1 3/4	.191-.210	7/8	38
16044A.211	1 3/4	.211-.230	7/8	38
16044A.231	1 3/4	.231-.250	7/8	38
16045	2	.010-.019	1/2	40
16047	2	.020-.030	1/2	40
16049	2	.031-.050	1/2	40
16051	2	.051-.070	1/2	40
16051.071	2	.071-.090	1/2	40
16051.091	2	.091-.110	1/2	40
16051.111	2	.111-.130	1/2	40
16051.131	2	.131-.150	1/2	40
16051.151	2	.151-.170	1/2	40
16051.171	2	.171-.190	1/2	40
16051.191	2	.191-.210	1/2	40
16051.211	2	.211-.230	1/2	40
16051.231	2	.231-.250	1/2	40
16051A.010	2	.010-.019	1	40
16051A.020	2	.020-.030	1	40
16051A.031	2	.031-.050	1	40
16051A.051	2	.051-.070	1	40
16051A.071	2	.071-.090	1	40
16051A.091	2	.091-.110	1	40
16051A.111	2	.111-.130	1	40
16051A.131	2	.131-.150	1	40
16051A.151	2	.151-.170	1	40
16051A.171	2	.171-.190	1	40
16051A.191	2	.191-.210	1	40
16051A.211	2	.211-.230	1	40
16051A.231	2	.231-.250	1	40
16054	2 1/4	.010-.019	5/8	44
16056	2 1/4	.020-.030	5/8	44
16058	2 1/4	.031-.050	5/8	44
16060	2 1/4	.051-.070	5/8	44
16060.071	2 1/4	.071-.090	5/8	44
16060.091	2 1/4	.091-.110	5/8	44
16060.111	2 1/4	.111-.130	5/8	44
16060.131	2 1/4	.131-.150	5/8	44
16060.151	2 1/4	.151-.170	5/8	44
16060.171	2 1/4	.171-.190	5/8	44
16060.191	2 1/4	.191-.210	5/8	44
16060.211	2 1/4	.211-.230	5/8	44
16060.231	2 1/4	.231-.250	5/8	44
16060A.010	2 1/4	.010-.019	1	44
16060A.020	2 1/4	.020-.030	1	44
16060A.031	2 1/4	.031-.050	1	44

Call for 3 & 6 piece pricing

Specials with any variation of tooth types specs above can be ordered

SAWS

SOLID CARBIDE SLITTING SAWS

To order - Specify saw diameter, thickness & hole diameter.
Example: 1-1/4" x .053 x 1/2"

Tolerances

O.D:	± .005"
Thickness:	+ .0005"
I.D:	± .0003

Hollow Ground For Side Clearance
Metric Sizes Available
Keyways optional at extra cost

TiN, TiCN, and other surface coatings are available.

Width Ranges between .005-.009 offered as specials, call for Pricing

Catalog EDI-No.	Dia.	Width Range	Hole Size	# of Teeth
16060A.051	2 1/4	.051-.070	1	44
16060A.071	2 1/4	.071-.090	1	44
16060A.091	2 1/4	.091-.110	1	44
16060A.111	2 1/4	.111-.130	1	44
16060A.131	2 1/4	.131-.150	1	44
16060A.151	2 1/4	.151-.170	1	44
16060A.171	2 1/4	.171-.190	1	44
16060A.191	2 1/4	.191-.210	1	44
16060A.211	2 1/4	.211-.230	1	44
16060A.231	2 1/4	.231-.250	1	44
16062	2 1/2	.010-.019	1	48
16064	2 1/2	.020-.030	1	48
16066	2 1/2	.031-.050	1	48
16066.051	2 1/2	.051-.070	1	48
16066.071	2 1/2	.071-.090	1	48
16066.091	2 1/2	.091-.110	1	48
16066.111	2 1/2	.111-.130	1	48
16066.131	2 1/2	.131-.150	1	48
16066.151	2 1/2	.151-.170	1	48
16066.171	2 1/2	.171-.190	1	48
16066.191	2 1/2	.191-.210	1	48
16066.211	2 1/2	.211-.230	1	48
16066.231	2 1/2	.231-.250	1	48
16068	2 3/4	.010-.019	1	60
16070	2 3/4	.020-.030	1	60
16072	2 3/4	.031-.050	1	60
16072.051	2 3/4	.051-.070	1	60
16072.071	2 3/4	.071-.090	1	60
16072.091	2 3/4	.091-.110	1	60
16072.111	2 3/4	.111-.130	1	60
16072.131	2 3/4	.131-.150	1	60
16072.151	2 3/4	.151-.170	1	60
16072.171	2 3/4	.171-.190	1	60
16072.191	2 3/4	.191-.210	1	60
16072.211	2 3/4	.211-.230	1	60
16072.231	2 3/4	.231-.250	1	60
16074	3	.010-.019	1	72
16076	3	.020-.030	1	72
16078	3	.031-.050	1	72
16080	3	.051-.070	1	72
16082	3	.071-.090	1	72
16084	3	.091-.110	1	72
16084.111	3	.111-.130	1	72
16084.131	3	.131-.150	1	72
16084.151	3	.151-.170	1	72
16084.171	3	.171-.190	1	72
16084.191	3	.191-.210	1	72
16084.211	3	.211-.230	1	72
16084.231	3	.231-.250	1	72
16095	4	.020-.030	1	80
16096	4	.030-.050	1	80
16097	4	.051-.070	1	80
16098	4	.071-.090	1	80

Catalog EDI-No.	Dia.	Width Range	Hole Size	# of Teeth
16099	4	.091-.110	1	80
16100	4	.111-.130	1	80
16100.131	4	.131-.150	1	80
16100.151	4	.151-.170	1	80
16100.171	4	.171-.190	1	80
16100.191	4	.191-.210	1	80
16100.211	4	.211-.230	1	80
16100.231	4	.231-.250	1	80
16101	5	.031-.050	1	100
16102	5	.051-.070	1	100
16103	5	.071-.090	1	100
16104	5	.091-.110	1	100
16105	5	.111-.130	1	100
16105.131	5	.131-.150	1	100
16105.151	5	.151-.170	1	100
16105.171	5	.171-.190	1	100
16105.191	5	.191-.210	1	100
16105.211	5	.211-.230	1	100
16105.231	5	.231-.250	1	100
16106.031	6	.031-.050	1	120
16106	6	.051-.070	1	120
16107	6	.071-.090	1	120
16108	6	.091-.110	1	120
16109	6	.111-.130	1	120
16109.131	6	.131-.150	1	120
16109.151	6	.151-.170	1	120
16109.171	6	.171-.190	1	120
16109.191	6	.191-.210	1	120
16109.211	6	.211-.230	1	120
16109.231	6	.231-.250	1	120

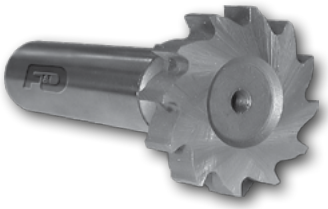
Discounts offered when ordering 2-5 Pcs or 6-11 Pcs, call for additional information.

Call for 3 & 6 piece pricing

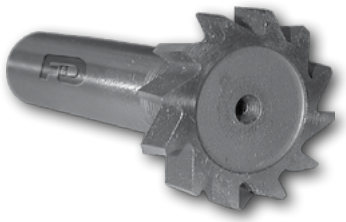
Specials with any variation of tooth types specs above can be ordered

WOODRUFF KEYSEAT CUTTERS
SHANK TYPE - HIGH SPEED STEEL

All sizes have a uniform 1/2" diameter shank. Right hand cutters are standard. Left hand cutters are made to order with prices on application.



HIGH SPEED STEEL - K600
COBALT - KX600



HIGH SPEED STEEL - K700
COBALT - KX700

				Straight Tooth		Staggered Tooth	
				HSS	COBALT	HSS	COBALT
American Standard	Dia.	Width of Face	Overall Length	Catalog EDI-No.	Catalog EDI-No.	Catalog EDI-No.	Catalog EDI-No.
202	1/4	1/16	2 1/16	12301	35270	12342	35311
202 1/2	5/16	1/16	2 1/16	12302	35271	12343	35312
302 1/2	5/16	3/32	2 3/32	12303	35272	12344	35313
203	3/8	1/16	2 1/16	12304	35273	12345	35314
303	3/8	3/32	2 3/32	12305	35274	12346	35315
403	3/8	1/8	2 1/8	12306	35275	12347	35316
204	1/2	1/16	2 1/16	12307	35276	12348	35317
304	1/2	3/32	2 3/32	12308	35277	12349	35318
305	5/8	3/32	2 3/32	12309	35278	12350	35319
404	1/2	1/8	2 1/8	12310	35279	12351	35320
405	5/8	1/8	2 1/8	12311	35280	12352	35321
406	3/4	1/8	2 1/8	12312	35281	12353	35322
505	5/8	5/32	2 5/32	12313	35282	12354	35323
605	5/8	3/16	2 3/16	12314	35283	12355	35324
506	3/4	5/32	2 5/32	12315	35284	12356	35325
806	3/4	1/4	2 1/4	12316	35285	12357	35326
507	7/8	5/32	2 5/32	12317	35286	12358	35327
606	3/4	3/16	2 3/16	12318	35287	12359	35328
607	7/8	3/16	2 3/16	12319	35288	12360	35329
707	7/8	7/32	2 7/32	12320	35289	12361	35330
608	1	3/16	2 3/16	12321	35290	12362	35331
708	1	7/32	2 7/32	12322	35291	12363	35332
1208	1	3/8	2 3/8	12323	35292	12364	35333
609	1 1/8	3/16	2 3/16	12324	35293	12365	35334
807	7/8	1/4	2 1/4	12325	35294	12366	35335
808	1	1/4	2 1/4	12326	35295	12367	35336
709	1 1/8	7/32	2 7/32	12327	35296	12368	35337
809	1 1/8	1/4	2 1/4	12328	35297	12369	35338
610	1 1/4	3/16	2 3/16	12329	35298	12370	35339
710	1 1/4	7/32	2 7/32	12330	35299	12371	35340
810	1 1/4	1/4	2 1/4	12331	35300	12372	35341
811	1 3/8	1/4	2 1/4	12332	35301	12373	35342
812	1 1/2	1/4	2 1/4	12333	35302	12374	35343
1008	1	5/16	2 5/16	12334	35303	12375	35344
1009	1 1/8	5/16	2 5/16	12335	35304	12376	35345
1010	1 1/4	5/16	2 5/16	12336	35305	12377	35346
1011	1 3/8	5/16	2 5/16	12337	35306	12378	35347
1012	1 1/2	5/16	2 5/16	12338	35307	12379	35348
1210	1 1/4	3/8	2 3/8	12339	35308	12380	35349
1211	1 3/8	3/8	2 3/8	12340	35309	12381	35350
1212	1 1/2	3/8	2 3/8	12341	35310	12382	35351

WOODRUFF KEYSEAT CUTTERS

HSS WOODRUFF KEY-SEAT CUTTER SET

10 Piece Set
Contains one of each American Standard: 204, 305, 403, 404, 406, 505, 606, 608, 806, 808.
Supplied in a wooden box.
Straight Tooth EDI#-12300

Staggered Tooth EDI#-12299

Woodruff Keyseat Cutters
Narrow Width
HIGH SPEED STEEL
1/2" Shank - Right Hand Cut NEW!

Catalog No.	Dia. x Width
70000	1/4 x 1/64
70001	1/4 x 1/32
70002	1/4 x 3/64
70003	5/16 x 1/64
70004	5/16 x 1/32
70005	5/16 x 3/64
70006	3/8 x1/64
70007	3/8 x 1/32
70008	3/8 x 3/64
70009	1/2 x 1/64
70010	1/2 x .020
70011	1/2 x1/32
70012	1/2 x 3/64
70013	5/8 x 1/64
70014	5/8 x .020
70015	5/8 x1/32
70016	5/8 x 3/64
70017	5/8 x 1/16
70018	5/8 x 5/64
70019	3/4 x 1/32
70020	3/4 x 3/64
70021	3/4 x 1/16
70022	3/4 x 5/64
70023	3/4 x 3/32
70024	3/4 x 7/64
70025	7/8 x 3/64
70026	7/8 x1/16

Catalog No.	Dia. x Width
70027	7/8 x 5/64
70028	7/8 x 3/32
70029	7/8 x 7/64
70030	7/8 x 1/8
70031	7/8 x 9/64
70032	1 x 3/64
70033	1 x 1/16
70034	1 x 5/64
70035	1 x 3/32
70036	1 x 7/64
70037	I x 1/8
70038	1 x 9/64
70039	1 x 5/32
70040	1 x 11/64
70041	1-1/8 x 3/64
70042	1-1/8 x 1/16
70043	1-1/8 x 5/64
70044	1-1/8 x 3/32
70045	1-1/8 x 7/64
70046	1-1/8 x 1/8
70047	1-1/8 x 9/64
70048	1-1/8 x 5/32
70049	1-1/8 x 11/64
70050	1-1/4 x 3/64
70051	1-1/4x1/16
70052	1-1/4 x 5/64
70053	1-1/4 x 3/32

Catalog No.	Diam. x Width
70054	1-1/4 x 7/64
70055	1-1/4 x 1/8
70056	1-1/4 x 9/64
70057	1-1/4 x 5/32
70058	1-1/4 x 11/64
70059	1-1/4 x 3/16
70060	1-1/4 x 7/32
70061	1-3/8 x 1/16
70062	1-3/8 x 5/64
70063	1-3/8 x 3/32
70064	1-3/8 x 7/64
70065	1-3/8 x 1/8
70066	1-3/8 x 9/64
70067	1-3/8 x 5/32
70068	1-3/8 x11/64
70069	1-3/8 x 3/16
70070	1-3/8 x 7/32
70071	1-1/2 x 1/16
70072	1-1/2 x 5/64
70073	1-1/2 x 3/32
70074	1-1/2 x 7/64
70075	1-1/2 x 1/8
70076	1-1/2 x 9/64
70077	1-1/2 x 5/32
70078	1-1/2 x 11/64
70079	1-1/2 x 3/16
70080	1-1/2 x 7/32

Large Diameter Keyseat Cutters
HIGH SPEED STEEL

Catalog EDI-Number	Dia x Width	Shank
70096	1-3/4 x 1/8	1/2
70097	1 3/4 x 3/16	1/2
70098	1 3/4 x 1/4	1/2
70099	1 3/4 x 5/16	1/2
70100	1 3/4 x 3/8	1/2
70101	1 3/4 x 1/2	1/2

Catalog EDI-Number	Dia x Width	Shank
70108	2 x 1/8	1/2
70109	2 x 3/16	1/2
70110	2 x 1/4	1/2
70111	2 x 5/16	1/2
70112	2 x 3/8	1/2
70113	2 x 1/2	1/2

WOODRUFF KEYSEAT CUTTERS SHANK TYPE - CARBIDE TIPPED

All sizes have uniform 1/2" diameter shank. Right hand cutters are standard. Chip breakers are on all tools 5/32" wide and greater.

KCT-600 & 650

KCT-700 & 750

					FOR STEEL			
					KCT-600 Straight Tooth	KCT-700 Staggered Tooth	KCT-650 Straight Tooth	KCT-750 Staggered Tooth
American Standard	Dia.	Width of Face	Overall Length	Number of Teeth	Catalog EDI-No.	Catalog EDI-No.	Catalog EDI-No.	Catalog EDI-No.
204	1/2	1/16	2 1/16	6	35200	35235	35200S	35235S
304	1/2	3/32	2 3/32	6	35201	35236	35201S	35236S
404	1/2	1/8	2 1/8	6	35202	35237	35202S	35237S
305	5/8	3/32	2 3/32	6	35203	35238	35203S	35238S
405	5/8	1/8	2 1/8	6	35204	35239	35204S	35239S
505	5/8	5/32	2 5/32	6	35205	35240	35205S	35240S
605	5/8	3/16	2 3/16	6	35206	35241	35206S	35241S
406	3/4	1/8	2 1/8	6	35207	35242	35207S	35242S
506	3/4	5/32	2 5/32	6	35208	35243	35208S	35243S
606	3/4	3/16	2 3/16	6	35209	35244	35209S	35244S
806	3/4	1/4	2 1/4	6	35210	35245	35210S	35245S
507	7/8	5/32	2 5/32	6	35211	35246	35211S	35246S
607	7/8	3/16	2 3/16	6	35212	35247	35212S	35247S
707	7/8	7/32	2 7/32	6	35213	35248	35213S	35248S
807	7/8	1/4	2 1/4	6	35214	35249	35214S	35249S
608	1	3/16	2 3/16	8	35215	35250	35215S	35250S
708	1	7/32	2 7/32	8	35216	35251	35216S	35251S
808	1	1/4	2 1/4	8	35217	35252	35217S	35252S
1008	1	5/16	2 5/16	8	35218	35253	35218S	35253S
1208	1	3/8	2 3/8	8	35219	35254	35219S	35254S
609	1 1/8	3/16	2 3/16	8	35220	35255	35220S	35255S
709	1 1/8	7/32	2 7/32	8	35221	35256	35221S	35256S
809	1 1/8	1/4	2 1/4	8	35222	35257	35222S	35257S
1009	1 1/8	5/16	2 5/16	8	35223	35258	35223S	35258S
610	1 1/4	3/16	2 3/16	8	35224	35259	35224S	35259S
710	1 1/4	7/32	2 7/32	8	35225	35260	35225S	35260S
810	1 1/4	1/4	2 1/4	8	35226	35261	35226S	35261S
1010	1 1/4	5/16	2 5/16	8	35227	35262	35227S	35262S
1210	1 1/4	3/8	2 3/8	8	35228	35263	35228S	35263S
811	1 3/8	1/4	2 1/4	8	35229	35264	35229S	35264S
1011	1 3/8	5/16	2 5/16	8	35230	35265	35230S	35265S
1211	1 3/8	3/8	2 3/8	8	35231	35266	35231S	35266S
812	1 1/2	1/4	2 1/4	8	35232	35267	35232S	35267S
1012	1 1/2	5/16	2 5/16	8	35233	35268	35233S	35268S
1212	1 1/2	3/8	2 3/8	8	35234	35269	35234S	35269S

WOODRUFF KEYSEAT CUTTERS SHANK TYPE - SOLID CARBIDE

Solid Carbide construction, made with side cutting teeth.
+.001-.002 tolerance on ODs, +.0005-.0005 tolerance on widths

Catalog EDi-Number	Amer. Std.	Dia	Face Width	OAL	No. of Flutes
35353	203	3/8	1/16	2 1/4	6
35355	303	3/8	3/32	2 1/4	6
35357	403	3/8	1/8	2 1/4	6
35359	204	1/2	1/16	2 1/4	8
35361	304	1/2	3/32	2 1/4	8
35363	404	1/2	1/8	2 1/4	8
35365	305	5/8	3/32	2 1/4	8
35367	405	5/8	1/8	2 1/4	8
35369	505	5/8	5/32	2 1/4	8
35371	605	5/8	3/16	2 1/4	8
35373	406	3/4	1/8	2 1/4	8
35375	506	3/4	5/32	2 1/4	8

Catalog EDi-Number	Amer. Std.	Dia	Face Width	OAL	No. of Flutes
35377	606	3/4	3/16	2 1/4	8
35379	806	3/4	1/4	2 1/4	8
35381	507	7/8	5/32	2 1/4	10
35383	607	7/8	3/16	2 1/4	10
35385	707	7/8	7/32	2 1/4	10
35387	807	7/8	1/4	2 1/4	10
35389	608	1	3/16	2 1/4	10
35391	708	1	7/32	2 1/4	10
35393	808	1	1/4	2 1/4	10
35395	610	1 1/4	3/16	2 1/4	12
35397	710	1 1/4	7/32	2 1/4	12
35399	810	1 1/4	1/4	2 1/4	12

KEYSEAT CUTTERS - FOR ALUMINUM

CARBIDE TIPPED

High Performance - For Aluminum

These straight tooth cutters are designed primarily for use on aluminum. The fewer flute geometry allows higher speeds and fees and better finishes. Tools up to 1 1/2" diameter, 1/2" shank. Tools 1 3/4" diameter and larger, 3/4" shank

Face width tolerance: +.0005" / -.0005"
Tool diameter tolerance: +.020" / +.015"

American Standard	Dia.	Width of Face	Neck Dia	No. Of Teeth	Catalog EDI-No.
-	5/8	1/16	.160	2	10100
305	5/8	3/32	.191	2	10101
405	5/8	1/8	.223	2	10102
505	5/8	5/32	.252	2	10103
605	5/8	3/16	.279	2	10104
-	5/8	7/32	.342	2	10105
-	5/8	1/4	.342	2	10106
-	3/4	1/16	.160	2	10107
-	3/4	3/32	.191	2	10108
406	3/4	1/8	.217	2	10109
506	3/4	5/32	.246	2	10110
606	3/4	3/16	.279	2	10111
-	3/4	7/32	.342	2	10112
806	3/4	1/4	.342	2	10113
-	7/8	1/16	.160	2	10114
-	7/8	3/32	.191	2	10115
-	7/8	1/8	.217	2	10116
507	7/8	5/32	.246	2	10117
607	7/8	3/16	.279	2	10118
707	7/8	7/32	.312	2	10119
807	7/8	1/4	.342	2	10120
-	1	3/32	.191	2	10121
-	1	1/8	.217	2	10122
-	1	5/32	.246	2	10123
608	1	3/16	.279	2	10124
708	1	7/32	.312	2	10125
808	1	1/4	.342	2	10126
	1	9/32	.401	2	10127
1008	1	5/16	.401	2	10128
-	1	11/32	.467	2	10129
1208	1	3/8	.467	2	10130
-	1 1/8	3/32	.217	2	10131
-	1 1/8	1/8	.246	2	10132
-	1 1/8	5/32	.279	2	10133
609	1 1/8	3/16	.312	2	10134
709	1 1/8	7/32	.342	2	10135
809	1 1/8	1/4	.374	2	10136
-	1 1/8	9/32	.435	2	10137
1009	1 1/8	5/16	.435	2	10138
-	1 1/8	11/32	.467	2	10139
-	1 1/8	3/8	.467	2	10140
-	1 1/4	3/32	.217	3	10141
-	1 1/4	1/8	.246	3	10142
-	1 1/4	5/32	.279	3	10143
610	1 1/4	3/16	.312	3	10144
710	1 1/4	7/32	.342	3	10145
810	1 1/4	1/4	.374	3	10146
-	1 1/4	9/32	.435	3	10147
1010	1 1/4	5/16	.435	3	10148
-	1 1/4	11/32	.467	3	10149
1210	1 1/4	3/8	.467	3	10150

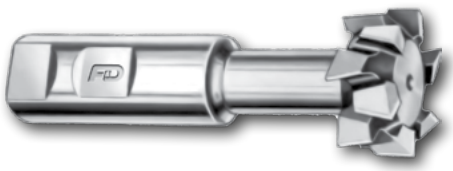
American Standard	Dia.	Width of Face	Neck Dia	No. Of Teeth	Catalog EDI-No
-	1 3/8	3/32	.312	3	10151
-	1 3/8	1/8	.342	3	10152
-	1 3/8	5/32	.374	3	10153
-	1 3/8	3/16	.401	3	10154
-	1 3/8	7/32	.401	3	10155
811	1 3/8	1/4	.401	3	10156
-	1 3/8	9/32	.467	3	10157
1011	1 3/8	5/16	.467	3	10158
-	1 3/8	11/32	.467	3	10159
1211	1 3/8	3/8	.467	3	10160
-	1 1/2	3/32	.435	3	10161
-	1 1/2	1/8	.435	3	10162
-	1 1/2	5/32	.435	3	10163
-	1 1/2	3/16	.435	3	10164
-	1 1/2	7/32	.435	3	10165
812	1 1/2	1/4	.435	3	10166
-	1 1/2	11/32	.467	3	10167
1012	1 1/2	5/16	.467	3	10168
-	1 1/2	13/32	.467	3	10169
1212	1 1/2	3/8	.467	3	10170
-	1 1/2	7/16	.467	3	10171
-	1 1/2	15/32	.467	3	10172
-	1 1/2	1/2	.467	3	10173
-	1 1/2	1/8	.718	4	10174
-	1 3/4	5/32	.718	4	10175
-	1 3/4	3/16	.718	4	10176
-	1 3/4	7/32	.718	4	10177
-	1 3/4	1/4	.718	4	10178
-	1 3/4	9/32	.718	4	10179
-	1 3/4	5/16	.718	4	10180
-	1 3/4	11/32	.718	4	10181
-	1 3/4	3/8	.718	4	10182
-	1 3/4	13/32	.718	4	10183
-	1 3/4	7/16	.718	4	10184
-	1 3/4	15/32	.718	4	10185
-	1 3/4	1/2	.718	4	10186
-	1 3/4	1/8	.718	4	10187
-	2	5/32	.718	4	10188
-	2	3/16	.718	4	10189
-	2	7/32	.718	4	10190
-	2	1/4	.718	4	10191
-	2	9/32	.718	4	10192
-	2	5/16	.718	4	10193
-	2	11/32	.718	4	10194
-	2	3/8	.718	4	10195
-	2	13/32	.718	4	10196
-	2	7/16	.718	4	10197
-	2	15/32	.718	4	10198
-	2	1/2	.718	4	10199

T-SLOT CUTTERS
HIGH SPEED STEEL

Regularly furnished right hand cut with staggered teeth.

Catalog EDI-Number	Bolt Size	Cutter Dia	Shank Dia	Width	Neck Dia	Overall Length	# of Teeth
14426-A1310	1/4	9/16	1/2	15/64	17/64	2 19/32	8
14427-A1312	5/16	21/32	1/2	17/64	21/64	2 11/16	8
14428-A1314	3/8	25/32	3/4	21/64	13/32	3 1/4	8
14429-A1316	1/2	31/32	3/4	25/64	17/32	3 7/16	8
14410-A1327	-	1	3/4	3/32	1/2	3 1/8	8
14411-A1328	-	1	3/4	1/8	1/2	3 1/8	8
14412-A1329	-	1	3/4	5/32	1/2	3 3/16	8
14413-A1330	-	1	3/4	3/16	1/2	3 3/16	8
14414-A1331	-	1	3/4	1/4	1/2	3 1/4	8
14415-A1332	-	1	3/4	5/16	1/2	3 5/16	8
14416-A1333	-	1	3/4	3/8	1/2	3 3/8	8
14417-A1334	-	1	3/4	1/2	1/2	3 1/2	8
14430-A1318	5/8	1 1/4	1	31/64	21/32	3 15/16	10
14431-A1320	3/4	1 15/32	1	5/8	25/32	4 7/16	10
14418-A1335	-	1 1/2	1	3/32	3/4	4 1/8	10
14419-A1336	-	1 1/2	1	1/8	3/4	4 1/8	10
14420-A1337	-	1 1/2	1	5/32	3/4	4 3/16	10
14421-A1338	-	1 1/2	1	3/16	3/4	4 3/16	10
14422-A1339	-	1 1/2	1	1/4	3/4	4 1/4	10
14423-A1340	-	1 1/2	1	5/16	3/4	4 5/16	10
14424-A1341	-	1 1/2	1	3/8	3/4	4 3/8	10
14425-A1342	-	1 1/2	1	1/2	3/4	4 1/2	10
14432-A1322	1	1 27/32	1 1/4	53/64	1 1/32	4 13/16	12
14435-A1343	-	2	1 1/4	3/32	1 1/8	4 1/2	12
14436-A1344	-	2	1 1/4	1/8	1 1/8	4 1/2	12
14437-A1345	-	2	1 1/4	5/32	1 1/8	4 9/16	12
14438-A1346	-	2	1 1/4	3/16	1 1/8	4 9/16	12
14439-A1347	-	2	1 1/4	1/4	1 1/8	4 5/8	12
14440-A1348	-	2	1 1/4	5/16	1 1/8	4 11/16	12
14441-A1349	-	2	1 1/4	3/8	1 1/8	4 3/4	12
14442-A1350	-	2	1 1/4	1/2	1 1/8	4 7/8	12
14433-A1324	1 1/4	2 7/32	1 1/4	1 3/32	1 7/32	5 3/8	12
14434-A1326	1 1/2	2 21/32	1 1/4	1 11/32	1 17/32	5 29/32	12

STRAIGHT SHANK

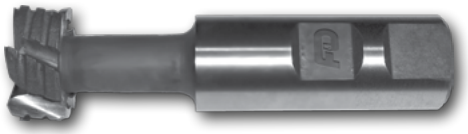


Catalog EDI-Number	Bolt Size	Cutter Dia.	Width	Neck Dia.	Overall Length	B&S Taper Shank No.	# of Teeth
14401-A1210	1/4	9/16	15/64	17/64	2 5/8	5	8
14402-A1212	5/16	21/32	17/64	21/64	2 23/32	5	8
14403-A1214	3/8	25/32	21/64	13/32	4 13/16	7	8
14404-A1216	1/2	31/32	25/64	17/32	5	7	8
14405-A1218	5/8	1 1/4	31/64	21/32	5 1/4	7	10
14406-A1220	3/4	1 15/32	5/8	25/32	6 7/8	9	10
14407-A1222	1	1 27/32	53/64	1 1/32	7 1/4	9	10
14408-A1224	1 1/4	2 7/32	1 3/32	1 9/32	7 13/16	9	12
14409-A1226	1 1/2	2 21/32	1 11/32	1 17/32	10 3/8	10	12

TAPER SHANK

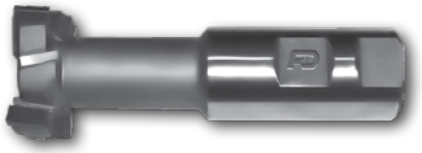
* Sizes other than listed are special. If special sizes are needed, please call (800) 338-6650 for quote.

T-SLOT - CHAMFERING CARBIDE TIPPED CUTTERS



HEAVY DUTY COBALT ROUGHING T-SLOT CUTTERS

Catalog EDI-Number	Bolt Size	Cutter Dia	Cutter Width	Overall Length	Shank Dia	No. of Teeth
34920	1/2	31/32	25/64	3 7/16	3/4	5
34921	5/8	1 1/4	31/64	3 15/16	1	6
34922	3/4	1 15/32	5/8	4 7/16	1	6
34923	1	1 27/32	53/64	4 13/16	1 1/4	6
34924	1 1/4	2 7/32	1 3/32	5 3/8	1 1/4	8
34925	1 1/2	2 21/32	1 11/32	5 29/32	1 1/4	10



CARBIDE TIPPED T-SLOT CUTTERS

Bolt Size	Cutter Dia	Cutter Width	Neck Dia	Shank Dia	Overall Length	No. of Teeth	Non-Ferrous/ Cast Iron EDI-#	Steel EDI-#
1/4	9/16	15/64	17/64	1/2	2 19/32	6	12191	12280
5/16	21/32	17/64	21/64	1/2	2 11/16	6	12192	12281
3/8	25/32	21/64	13/32	3/4	3 1/4	6	12193	12282
1/2	31/32	25/64	17/32	3/4	3 7/16	6	12194	12283
5/8	1 1/4	31/64	21/32	1	3 15/16	6	12195	12284
3/4	1 15/32	5/8	25/32	1	4 7/16	6	12196	12285
1	1 27/32	53/64	1 1/32	1 1/4	4 13/16	8	12197	12286
1 1/4	2 7/32	1 3/32	1 7/32	1 1/4	5 3/8	8	12198	12287
1 1/2	2 21/32	1 11/32	1 17/32	1 1/4	5 29/32	8	12199	12288

Furnished in 45° and 60°

SINGLE ANGLE CHAMFERING CUTTERS

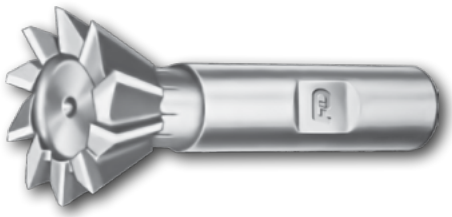
Catalog EDI-Number	Included Chamfer Angle	Cutter Dia	Face Width	Shank Dia	Overall Length	No. of Teeth
26301	45°	1/2	1/8	3/8	2 1/8	8
26302	45°	3/4	3/16	3/8	2 1/8	8
26303	45°	1	5/16	1/2	2 1/2	10
26304	45°	1 1/2	1/2	3/4	2 3/4	12
26305	60°	1/2	7/32	3/8	2 1/8	8
26306	60°	3/4	5/16	3/8	2 1/8	8
26307	60°	1	7/16	1/2	2 1/2	10
26308	60°	1 1/2	5/8	3/4	2 3/4	12

CARBIDE TIPPED CHAMFERING CUTTERS

Chamfer Angle	Cutter Dia.	Shank Dia.	No. Of Teeth	Overall Length	Cutter Width	Non-Ferrous/ Cast Iron EDI-# (10°-12° OD Clear)	Steel EDI-# (10°-12° OD Clear)
45°	1/2	3/8	4	2 1/8	1/8	69901	69921
45°	3/4	3/8	6	2 1/8	3/16	69902	69922
45°	1	1/2	6	2 1/2	5/16	69903	69923
45°	1 1/2	3/4	8	2 3/4	1/2	69904	69924
60°	1/2	3/8	4	2 1/8	7/32	69905	69925
60°	3/4	3/8	6	2 1/8	5/16	69906	69926
60°	1	1/2	6	2 1/2	7/16	69907	69927
60°	1 1/2	3/4	8	2 3/4	5/8	69908	69928

DOVETAIL MILLING CUTTERS SHANK TYPE HIGH SPEED STEEL

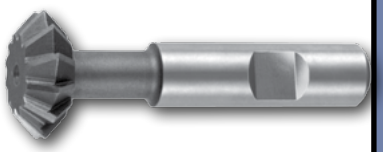
New range of sizes will aid in reducing set up time and increasing production of dovetail milling. Recommended for use in place of arbor and threaded hole type cutters.



Catalog EDI #	Dia.	Cutter Width	Shank Dia.	Overall Length	Included Angle	No. of Teeth
12201-A1406-45	3/8	1/8	3/8	2 1/8	45°	6
12202-A1408-45	1/2	1/8	3/8	2 1/8	45°	6
12203-A1410-45	3/4	3/16	3/8	2 1/8	45°	8
12204-A1420-45	1 3/8	3/8	5/8	2 7/8	45°	10
12205-A1424-45	1 3/8	3/8	1/2	2 7/8	45°	10
12206-A1430-45	1 7/8	1/2	7/8	3 1/4	45°	12
12207-A1440-45	2 1/4	11/16	1	3 3/4	45°	14
12208-A1460-45	2 1/2	3/4	1	3 3/4	45°	14
12209-A1406-60	3/8	3/16	3/8	2 1/8	60°	6
12210-A1408-60	1/2	7/32	3/8	2 1/8	60°	6
12211-A1410-60	3/4	5/16	3/8	2 1/8	60°	8
12212-A1420-60	1 3/8	9/16	5/8	2 7/8	60°	10
12213-A1424-60	1 3/8	9/16	1/2	2 7/8	60°	10
12214-A1430-60	1 7/8	13/16	7/8	3 1/4	60°	12
12215-A1440-60	2 1/4	1 1/16	1	3 3/4	60°	14
12216-A1460-60	2 1/2	1 1/8	1	3 3/4	60°	14

CARBIDE TIPPED DOVETAIL CUTTERS

Catalog EDI #	Dia.	Width	Shank	# of Teeth	Overall Length	Inc. Angle
12175	1/2	5/32	3/8	3	2 1/8	45°
12176	3/4	1/4	3/8	3	2 1/4	45°
12177	1	5/16	1/2	4	2 1/2	45°
12178	1 1/4	3/8	5/8	4	2 3/4	45°
12179	1 1/2	1/2	3/4	4	3 1/4	45°
12180	2	5/8	1	6	4 1/4	45°
12181	2 1/2	3/4	1 1/4	6	4 3/8	45°
12182	3	1	1 1/4	6	4 1/2	45°
12183	1/2	7/32	3/8	3	2 1/8	60°
12184	3/4	1/4	3/8	3	2 1/4	60°
12185	1	3/8	1/2	4	2 1/2	60°
12186	1 1/4	1/2	5/8	4	2 3/4	60°
12187	1 1/2	5/8	3/4	4	3 1/4	60°
12188	2	3/4	1	6	4 1/4	60°
12189	2 1/2	7/8	1 1/4	6	4 3/8	60°
12190	3	1 1/8	1 1/4	6	4 1/2	60°



DOUBLE ANGLE SHANK TYPE CUTTERS

Furnished in 60° and 90°

Catalog EDI #	Dia.	Cutter Width	Shank Dia.	Overall Length	Inc. Angle
11981-A952-60	3/4	3/16	3/8	2 3/8	60°
11982-A952-90	3/4	1/4	3/8	2 7/16	90°
11983-A954-60	1	5/16	1/2	2 17/32	60°
11984-A954-90	1	3/8	1/2	2 29/32	90°
11987-A956-60	1 3/8	7/16	5/8	3 7/32	60°
11988-A956-90	1 3/8	1/2	5/8	3 9/32	90°
11989-A958-60	1 1/2	1/2	5/8	3 3/8	60°
11990-A958-90	1 1/2	9/16	5/8	3 7/16	90°
11993-A960-60	1 7/8	5/8	3/4	3 25/32	60°
11994-A960-90	1 7/8	5/8	3/4	3 25/32	90°
11995-A962-60	2 1/4	3/4	7/8	4 5/32	60°
11996-A962-90	2 1/4	3/4	7/8	4 5/32	90°

CARBIDE TIPPED DOUBLE ANGLE SHANK TYPE CUTTERS

Comer radius: .010"-.015"

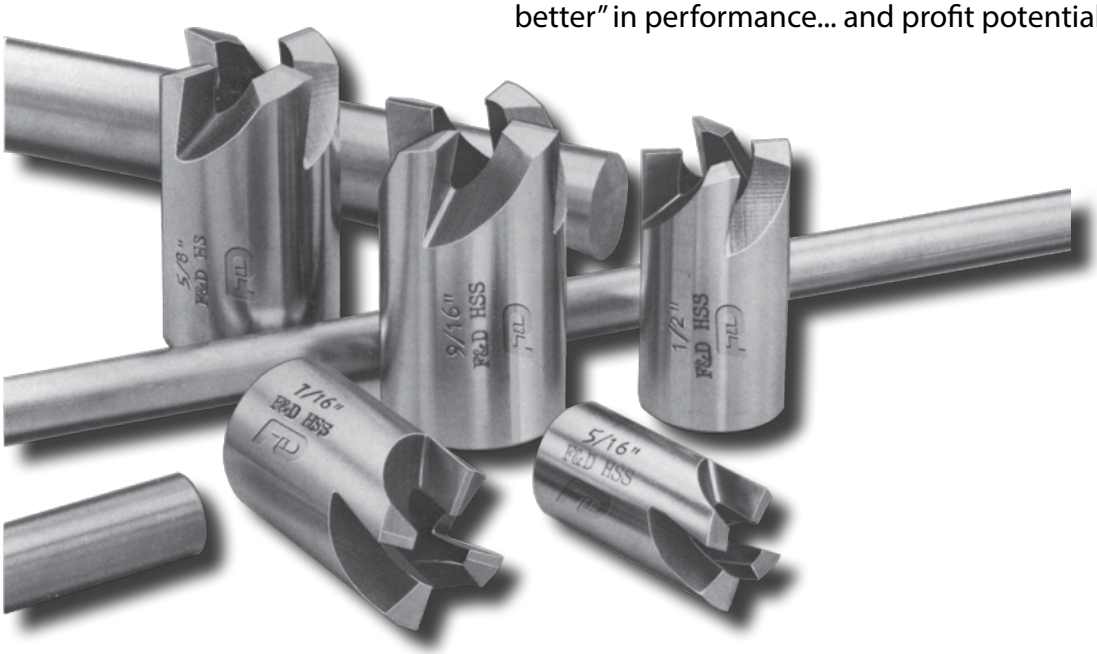
Tool Dia	Shank Dia	# of Teeth	60° INCLUDED ANGLE				90° INCLUDED ANGLE			
			OAL	Cutter Width	N-F, Cast Iron EDI #	Steel EDI #	OAL	Cutter Width	N-F, Cast Iron EDI #	Steel EDI #
3/4	3/8	6	2 3/8	3/16	10300	10307	2 3/8	1/4	10313	10320
1	1/2	6	2 27/32	5/16	10301	10308	2 29/32	3/8	10314	10321
1 3/8	5/8	6	3 7/32	7/16	10302	10309	3 9/32	1/2	10315	10322
1 1/2	5/8	6	3 3/8	1/2	10304	10310	3 7/16	9/16	10316	10323
1 7/8	3/4	6	3 25/32	5/8	10305	10311	3 25/32	5/8	10317	10324
2 1/4	7/8	6	4 5/32	3/4	10306	10312	4 5/32	3/4	10319	10325

HOLLOW MILLS

F&D Hollow Mills are manufactured right here in Three Rivers, Massachusetts. These solid type hollow mills are made from high speed steel and are used principally in screw machines or turret lathes for sizing material such as studs, screw blanks, etc. on production work. They're tough, hard,wear resistant cutting tools. They will assure faster cuts and longer life for productive, cost effective turning operations.

F&D hollow mills are available with either 3 or 4 teeth, undercut with a 10º rake for milling steel, in diameters from 5/8" to 1-1/4" and hole diameters from 3/32" to 1".

At F&D, we know the importance of getting a reliable quality-built product to you on time. That's why we have 21 different types of hollow mills and over 9,100 standard and special cutting tools in stock, ready for prompt delivery from regional warehouses and authorized industrial distributors nationwide. At F&D "the best just keeps on getting better" in performance... and profit potential.



21 different Hollow Mills to meet any job requirement.

Catalog EDI-Number	Hole Dia.	Shank Dia.	Overall Length	# of Teeth
17001-HM1003	3/32	5/8	1 1/2	3
17002-HM1004	1/8	5/8	1 1/2	3
17003-HM1005	5/32	5/8	1 1/2	3
17004-HM1006	3/16	5/8	1 1/2	3
17005-HM1007	7/32	5/8	1 1/2	3
17006-HM1008	1/4	5/8	1 1/2	3
17007-HM1009	9/32	3/4	1 1/2	4
17008-HM1010	5/16	3/4	1 1/2	4
17009-HM1011	11/32	3/4	1 1/2	4
17010-HM1012	3/8	1	1 3/4	4
17011-HM1013	13/32	1	1 3/4	4

Catalog EDI-Number	Hole Dia.	Shank Dia.	Overall Length	# of Teeth
17012-HM1014	7/16	1	1 3/4	4
17013-HM1018	1/2	1	1 3/4	4
17014-HM1019	17/32	1	1 3/4	4
17015-HM1020	9/16	1 1/4	2	4
17017-HM1028	5/8	1 1/4	2	4
17016-HM1024	21/32	1 1/4	2	4
17018-HM1032	3/4	1 1/2	2	4
17019-HM1040	25/32	1 1/2	2	4
17020-HM1042	7/8	1 3/4	2	4
17021-HM1052	1	1 3/4	2	4

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ANNULAR CUTTERS

- Eliminate multi-step drilling.
- Lower cost per hole.
- Better finishing.
- More accurate, cleaner holes.
- Longer tool life.
- 3/4" shank diameter with two flats for both inch and metric cutters.
- Cutters are interchangeable with other standard hole cutting systems.

	HIGH SPEED STEEL			COBALT		
Inch Sizes	1" Depth EDI-Number	2" Depth EDI-Number	3" Depth EDI-Number	1" Depth EDI-Number	2" Depth EDI-Number	3" Depth EDI-Number
7/16	50002-HC2002	50030-HC2030	--	50086-HCX2002	50114-HCX2030	--
1/2	50003-HC2003	50031-HC2031	--	50087-HCX2003	50115-HCX2031	--
9/16	50004-HC2004	50032-HC2032	--	50088-HCX2004	50116-HCX2032	--
5/8	50005-HC2005	50033-HC2033	--	50089-HCX2005	50117-HCX2033	--
11/16	50006-HC2006	50034-HC2034	--	50090-HCX2006	50118-HCX2034	--
3/4	50007-HC2007	50035-HC2035	50063-HC2063	50091-HCX2007	50119-HCX2035	50147-HCX2063
13/16	50008-HC2008	50036-HC2036	50064-HC2064	50092-HCX2008	50120-HCX2036	50148-HCX2064
7/8	50009-HC2009	50037-HC2037	50065-HC2065	50093-HCX2009	50121-HCX2037	50149-HCX2065
15/16	50010-HC2010	50038-HC2038	50066-HC2066	50094-HCX2010	50122-HCX2038	50150-HCX2066
1	50011-HC2011	50039-HC2039	50067-HC2067	50095-HCX2011	50123-HCX2039	50151-HCX2067
1 1/16	50012-HC2012	50040-HC2040	50068-HC2068	50096-HCX2012	50124-HCX2040	50152-HCX2068
1 1/8	50013-HC2013	50041-HC2041	50069-HC2069	50097-HCX2013	50125-HCX2041	50153-HCX2069
1 3/16	50014-HC2014	50042-HC2042	50070-HC2070	50098-HCX2014	50126-HCX2042	50154-HCX2070
1 1/4	50015-HC2015	50043-HC2043	50071-HC2071	50099-HCX2015	50127-HCX2043	50155-HCX2071
1 5/16	50016-HC2016	50044-HC2044	50072-HC2072	50100-HCX2016	50128-HCX2044	50156-HCX2072
1 3/8	50017-HC2017	50045-HC2045	50073-HC2073	50101-HCX2017	50129-HCX2045	50157-HCX2073
1 7/16	50018-HC2018	50046-HC2046	50074-HC2074	50102-HCX2018	50130-HCX2046	50158-HCX2074
1 1/2	50019-HC2019	50047-HC2047	50075-HC2075	50103-HCX2019	50131-HCX2047	50159-HCX2075
1 9/16	50020-HC2020	50048-HC2048	50076-HC2076	50104-HCX2020	50132-HCX2048	50160-HCX2076
1 5/8	50021-HC2021	50049-HC2049	50077-HC2077	50105-HCX2021	50133-HCX2049	50161-HCX2077
1 11/16	50022-HC2022	50050-HC2050	50078-HC2078	50106-HCX2022	50134-HCX2050	50162-HCX2078
1 3/4	50023-HC2023	50051-HC2051	50079-HC2079	50107-HCX2023	50135-HCX2051	50163-HCX2079
1 13/16	50024-HC2024	50052-HC2052	50080-HC2080	50108-HCX2024	50136-HCX2052	50164-HCX2080
1 7/8	50025-HC2025	50053-HC2053	50081-HC2081	50109-HCX2025	50137-HCX2053	50165-HCX2081
1 15/16	50026-HC2026	50054-HC2054	50082-HC2082	50110-HCX2026	50138-HCX2054	50166-HCX2082
2	50027-HC2027	50055-HC2055	50083-HC2083	50111-HCX2027	50139-HCX2055	50167-HCX2083
2 1/16	50028-HC2028	50056-HC2056	50084-HC2084	--	--	--
Set of 5 Includes 9/16, 11/16 13/16, 15/16, 1 1/16	50029-HC2029	50057-HC2057	--	50113-HCX2029	50141-HCX2057	--

METRIC SIZES

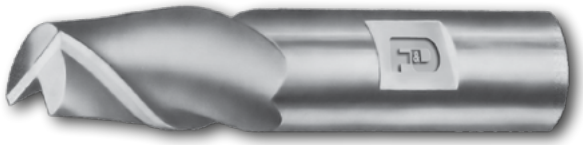
	HIGH SPEED STEEL		COBALT	
Inch Sizes	1" Depth EDI-#	2" Depth EDI-#	1" DepthEDI-#	2" Depth EDI-#
14mm	50170-HCM2002	50181-HCM2013	50192-HCMX2002	50203-HCMX2013
16mm	50171-HCM2003	50182-HCM2014	50193-HCMX2003	50204-HCMX2014
18mm	50172-HCM2004	50183-HCM2015	50194-HCMX2004	50205-HCMX2015
20mm	50173-HCM2005	50184-HCM2016	50195-HCMX2005	50206-HCMX2016
22mm	50174-HCM2006	50185-HCM2017	50196-HCMX2006	50207-HCMX2017
24mm	50175-HCM2007	50186-HCM2018	50197-HCMX2007	50208-HCMX2018
25mm	50176-HCM2008	50187-HCM2019	50198-HCMX2008	50209-HCMX2019
26mm	50177-HCM2009	50188-HCM2020	50199-HCMX2009	50210-HCMX2020
28mm	50178-HCM2010	50189-HCM2021	50200-HCMX2010	50211-HCMX2021
30mm	50179-HCM2011	50190-HCM2022	50201-HCMX2011	50212-HCMX2022
32mm	50180-HCM2012	50191-HCM2023	50202-HCMX2012	50213-HCMX2023

CARBIDE / HIGH SPEED STEEL

ENDMILLS

TWO FLUTE ENDMILL
SINGLE END
HIGH SPEED STEEL

Regularly furnished with right hand cut - right hand spiral.
(Endmills with left hand cut - left hand spiral shown in following series.)



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17431-T304	1/8	3/8	3/8	2 5/16
17432-T305	5/32	3/8	3/8	2 5/16
17433-T306	3/16	3/8	3/8	2 5/16
17434-T307	7/32	3/8	1/2	2 5/16
17435-T308	1/4	3/8	1/2	2 5/16
17436-T309	9/32	3/8	9/16	2 5/16
17437-T310	5/16	3/8	9/16	2 5/16
17438-T311	11/32	3/8	9/16	2 5/16
17439-T312	3/8	3/8	9/16	2 3/8
17440-T314	7/16	3/8	13/16	2 1/2
17441-T316	1/2	3/8	13/16	2 1/2
17442-T318	1/2	1/2	1	3
17443-T320	9/16	1/2	1 1/8	3 1/8
17444-T322	5/8	1/2	1 1/8	3 1/8
17447-T328	5/8	5/8	1 5/16	3 7/16
17445-T324	11/16	1/2	1 5/16	3 5/16
17448-T330	11/16	5/8	1 5/16	3 7/16
17446-T326	3/4	1/2	1 5/16	3 5/16
17449-T332	3/4	5/8	1 5/16	3 7/16
17458-T341	3/4	3/4	1 5/16	3 9/16
17450-T333	13/16	1/2	1 1/2	3 5/8
17451-T334	13/16	5/8	1 1/2	3 5/8
17459-T341A	13/16	3/4	1 1/2	3 3/4
17452-T335	7/8	1/2	1 1/2	3 1/2
17453-T336	7/8	5/8	1 1/2	3 5/8
17460-T341B	7/8	3/4	1 1/2	3 3/4

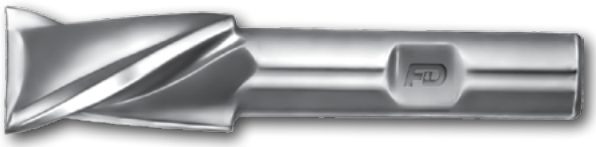
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17461-T342	7/8	7/8	1 1/2	3 3/4
17454-T337	15/16	1/2	1 1/2	3 1/2
17455-T338	15/16	5/8	1 1/2	3 5/8
17462-T343	15/16	3/4	1 1/2	3 3/4
17463-T344	15/16	7/8	1 1/2	3 3/4
17456-T339	1	1/2	1 1/2	3 1/2
17457-T340	1	5/8	1 1/2	3 5/8
17464-T345	1	3/4	1 1/2	3 3/4
17465-T346	1	7/8	1 1/2	3 3/4
17472-T352	1	1	1 5/8	4 1/8
17466-T347	1 1/8	3/4	1 5/8	3 7/8
17467-T348	1 1/8	7/8	1 5/8	3 7/8
17473-T354	1 1/8	1	1 5/8	4 1/8
17468-T349	1 1/4	3/4	1 5/8	3 7/8
17469-T350	1 1/4	7/8	1 5/8	3 7/8
17474-T356	1 1/4	1	1 5/8	4 1/8
17477-T362	1 1/4	1 1/4	1 5/8	4 1/8
17470-T351	1 3/8	3/4	1 5/8	3 7/8
17475-T358	1 3/8	1	1 5/8	4 1/8
17471-T351A	1 1/2	3/4	1 5/8	3 7/8
17476-T360	1 1/2	1	1 5/8	4 1/8
17478-T364	1 1/2	1 1/4	1 5/8	4 1/8
17479-T366	1 5/8	1 1/4	1 5/8	4 1/8
17480-T368	1 3/4	1 1/4	1 5/8	4 1/8
17481-T370	1 7/8	1 1/4	1 5/8	4 1/8
17482-T372	2	1 1/4	1 5/8	4 1/8
17483-T374	2	2	2	5 3/4

TWO FLUTE ENDMILL - SINGLE END - LONG
HIGH SPEED STEEL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17701-TL308	1/4	3/8	1	3 1/16
17702-TL310	5/16	3/8	1 1/4	3 5/16
17703-TL312	3/8	3/8	1	2 13/16
17704-TL712	3/8	3/8	1 1/2	3 5/16
17705-TL314	7/16	1/2	1 1/2	3 9/16
17706-TL318	1/2	1/2	1 1/2	3 9/16
17707-TL718	1/2	1/2	2	4 1/16
17708-TL818	1/2	1/2	2 1/2	4 9/16
17709-TL918	1/2	1/2	3	5 1/16
17710-TL322	5/8	1/2	2 3/8	4 1/2
17711-TL326	3/4	1/2	3 1/8	5 1/8
17712-TL328	5/8	5/8	2	4 1/8
17713-TL728	5/8	5/8	2 1/2	4 5/8
17714-TL928	5/8	5/8	3	5 1/8
17715-TL341	3/4	3/4	2 1/4	4 1/2
17716-TL741	3/4	3/4	2 1/2	5
17717-TL841	3/4	3/4	3	5 1/2
17718-TL941	3/4	3/4	3 1/2	6
17719-TL342	7/8	7/8	2 1/2	4 3/4

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17720-TL742	7/8	7/8	3 5/8	6 1/16
17721-TL352	1	1	2	4 7/16
17722-TL552	1	1	2 1/2	5 1/16
17723-TL652	1	1	3	5 9/16
17724-TL752	1	1	3 1/2	6 1/16
17725-TL852	1	1	4	6 9/16
17726-TL952	1	1	4 5/8	7 5/16
17727-TL354	1 1/8	1	3	5 1/2
17728-TL356	1 1/4	1	3	5 1/2
17729-TL362	1 1/4	1 1/4	3	5 9/16
17730-TL762	1 1/4	1 1/4	3 1/2	6 1/16
17731-TL962	1 1/4	1 1/4	4 3/4	7 5/16
17732-TL358	1 3/8	1	3	5 1/2
17733-TL764	1 1/2	1 1/4	3	5 1/2
17734-TL766	1 5/8	1 1/4	3	5 1/2
17735-TL768	1 3/4	1 1/4	3	5 1/2
17736-TL770	1 7/8	1 1/4	3	5 1/2
17737-TL772	2	1 1/4	3	5 1/2

2 FLUTE ENDMILLS



TWO FLUTE ENDMILL
SINGLE END
HIGH SPEED STEEL

LH

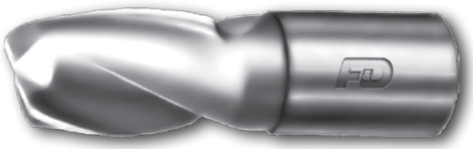
Regularly furnished with left hand cut-left hand spiral.
(Endmills with right hand cut-right hand spiral are shown in preceding series.)

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17551-T304L	1/8	3/8	3/8	2 3/8
17552-T306L	3/16	3/8	3/8	2 3/8
17553-T308L	1/4	3/8	1/2	2 3/8
17554-T310L	5/16	3/8	9/16	2 3/8
17555-T312L	3/8	3/8	9/16	2 3/8
17556-T314L	7/16	3/8	13/16	2 1/2
17557-T318L	1/2	1/2	1	3
17558-T328L	5/8	5/8	1 5/16	3 7/16
17559-T332L	3/4	5/8	1 1/2	3 7/16
17560-T334L	13/16	5/8	1 1/2	3 5/8
17561-T336L	7/8	5/8	1 1/2	3 5/8
17562-T338L	15/16	5/8	1 1/2	3 5/8
17563-T340L	1	5/8	1 1/2	3 5/8
17564-T342L	7/8	7/8	1 1/2	3 3/4
17565-T344L	15/16	7/8	1 1/2	3 3/4
17566-T346L	1	7/8	1 1/2	3 3/4

TWO FLUTE ENDMILL
SINGLE END - STRAIGHT FLUTE
HIGH SPEED STEEL

Regularly furnished with right hand straight flutes.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17611-T608	1/4	1/4	3/8	1 7/16
17612-T610	5/16	5/16	15/32	1 9/16
17613-T612	3/8	3/8	9/16	1 5/8
17614-T614	7/16	7/16	21/32	2
17615-T618	1/2	1/2	3/4	2 1/16
17616-T628	5/8	5/8	15/16	2 5/16
17617-T632	3/4	3/4	1 1/8	2 1/2
17618-T642	7/8	7/8	1 1/2	3 3/4
17619-T646	1	7/8	1 1/2	3 3/4
17620-T648	1 1/8	7/8	1 5/8	3 7/8
17621-T650	1 1/4	7/8	1 5/8	3 7/8



TWO FLUTE ENDMILL
SINGLE END - SHORT SERIES
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.
Diameter of shank is the same as diameter of cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17581-T508	1/4	1/4	3/8	1 7/16
17582-T510	5/16	5/16	15/32	1 9/16
17583-T512	3/8	3/8	9/16	1 5/8
17584-T514	7/16	7/16	21/32	2
17585-T518	1/2	1/2	3/4	2 1/16
17586-T528	5/8	5/8	15/16	2 5/16
17587-T532	3/4	3/4	1 1/8	2 1/2

TWO FLUTE ENDMILL
SINGLE END LONG - EXTENSION TYPE
HIGH SPEED STEEL

These mills are designed for longer reach required to mill some slots or pockets.
Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17641-T708	1/4	3/8	5/8	3 1/16
17642-T710	5/16	3/8	3/4	3 5/16
17643-T712	3/8	3/8	3/4	3 5/16
17644-T718	1/2	1/2	1	4 1/16
17645-T728	5/8	5/8	1 3/8	4 11/16
17646-T732	3/4	3/4	1 5/8	5 7/16
17647-T742	7/8	7/8	2	6 1/16
17648-T752	1	1	2 1/2	7 5/16
17649-T762	1 1/4	1 1/4	3	7 5/16

TWO FLUTE ENDMILL – DOUBLE END HIGH SPEED STEEL

64th Sizes

Regularly furnished with right hand cut-right hand spiral.
(Endmills with left hand cut-left hand spiral are shown in the following series.)

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17341-T204	1/8	3/8	3/8	3 1/8
17342-T204A	9/64	3/8	7/16	3 1/8
17343-T205	5/32	3/8	7/16	3 1/8
17344-T205A	11/64	3/8	7/16	3 1/8
17345-T206	3/16	3/8	7/16	3 1/8
17346-T206A	13/64	3/8	1/2	3 1/8
17347-T207	7/32	3/8	1/2	3 1/8
17348-T207A	15/64	3/8	1/2	3 1/8
17349-T208	1/4	3/8	1/2	3 1/8
17350-T208A	17/64	3/8	9/16	3 1/8
17351-T209	9/32	3/8	9/16	3 1/8
17352-T209A	19/64	3/8	9/16	3 1/8
17353-T210	5/16	3/8	9/16	3 1/8
17354-T210A	21/64	3/8	9/16	3 1/8
17355-T211	11/32	3/8	9/16	3 1/8
17356-T211A	23/64	3/8	9/16	3 1/8
17357-T212	3/8	3/8	9/16	3 1/8
17358-T212A	25/64	1/2	13/16	3 3/4
17359-T213	13/32	1/2	13/16	3 3/4
17360-T213A	27/64	1/2	13/16	3 3/4
17361-T214	7/16	1/2	13/16	3 3/4
17362-T214A	29/64	1/2	13/16	3 3/4
17363-T215	15/32	1/2	13/16	3 3/4

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17364-T216	31/64	1/2	13/16	3 3/4
17365-T218	1/2	1/2	13/16	3 3/4
17366-T219	17/32	5/8	1 1/8	4 1/2
17367-T220	9/16	5/8	1 1/8	4 1/2
17368-T224	19/32	5/8	1 1/8	4 1/2
17369-T228	5/8	5/8	1 1/8	4 1/2
17370-T229	21/32	3/4	1 5/16	5
17371-T230	11/16	3/4	1 5/16	5
17372-T231	23/32	3/4	1 5/16	5
17373-T232	3/4	3/4	1 5/16	5
17374-T233	25/32	7/8	1 9/16	5 1/2
17375-T234	13/16	7/8	1 9/16	5 1/2
17376-T238	27/32	7/8	1 9/16	5 1/2
17377-T242	7/8	7/8	1 9/16	5 1/2
17378-T243	29/32	1	1 5/8	5 7/8
17379-T244	15/16	1	1 5/8	5 7/8
17380-T248	31/32	1	1 5/8	5 7/8
17381-T252	1	1	1 5/8	5 7/8
17382-T254	1 1/8	1 1/8	1 5/8	6 1/4
17383-T256	1 1/4	1 1/4	1 3/4	6 1/2
17384-T258	1 3/8	1 3/8	2	7 1/2
17385-T260	1 1/2	1 1/2	2	7 1/2

TWO FLUTE ENDMILL – DOUBLE END HIGH SPEED STEEL

LH

Regularly furnished with left hand cut-left hand spiral.
(Endmills with right hand cut-right hand spiral are shown in preceding series.)

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17401-T204L	1/8	3/8	3/8	3 1/8
17402-T205L	5/32	3/8	7/16	3 1/8
17403-T206L	3/16	3/8	7/16	3 1/8
17404-T207L	7/32	3/8	1/2	3 1/8
17405-T208L	1/4	3/8	1/2	3 1/8
17406-T209L	9/32	3/8	9/16	3 1/8
17407-T210L	5/16	3/8	9/16	3 1/8
17408-T211L	11/32	3/8	9/16	3 1/8
17409-T212L	3/8	3/8	9/16	3 1/8

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17410-T213L	13/32	1/2	13/16	3 3/4
17411-T214L	7/16	1/2	13/16	3 3/4
17412-T215L	15/32	1/2	13/16	3 3/4
17413-T218L	1/2	1/2	13/16	3 3/4
17414-T220L	9/16	5/8	1 1/8	4 1/2
17415-T228L	5/8	5/8	1 1/8	4 1/2
17416-T232L	3/4	3/4	1 5/16	5
17417-T242L	7/8	7/8	1 9/16	5 1/2
17418-T252L	1	1	1 5/8	5 7/8

TWO FLUTE SMALL DIAMETER ENDMILL – DOUBLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17291-T12	1/16	3/16	7/32	2 1/4
17292-T12A	5/64	3/16	1/4	2 1/4
17293-T13	3/32	3/16	5/16	2 1/4
17294-T13A	7/64	3/16	11/32	2 1/4

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17295-T14	1/8	3/16	3/8	2 1/4
17296-T14A	9/64	3/16	13/32	2 1/4
17297-T15	5/32	3/16	7/16	2 1/4
17298-T15A	11/64	3/16	15/32	2 1/4
17299-T16	3/16	3/16	1/2	2 1/4

2 FLUTE ENDMILLS

TWO FLUTE SMALL DIAMETER ENDMILL DOUBLE END - LONG HIGH SPEED STEEL

Regularly furnished with right hand cut - right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17321-T102	1/16	3/16	7/32	2 1/2
17322-T103	3/32	3/16	9/32	2 5/8
17323-T104	1/8	3/16	3/4	3 1/8
17324-T105	5/32	3/16	7/8	3 1/4
17325-T106	3/16	3/16	1	3 3/8

TWO FLUTE ENDMILL DOUBLE END – HIGH SPEED STEEL

Regularly furnished with right hand cut, straight flutes

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17671-T804	1/8	3/8	3/8	3
17672-T806	3/16	3/8	7/16	3
17673-T808	1/4	3/8	1/2	3
17674-T810	5/16	3/8	9/16	3
17675-T812	3/8	3/8	9/16	3
17676-T814	7/16	1/2	13/16	3 3/4
17677-T818	1/2	1/2	13/16	3 3/4
17678-T828	5/8	5/8	1 1/8	4 1/2
17679-T832	3/4	3/4	1 5/16	5
17680-T842	7/8	7/8	1 9/16	5 1/2
17681-T852	1	1	1 5/8	5 7/8

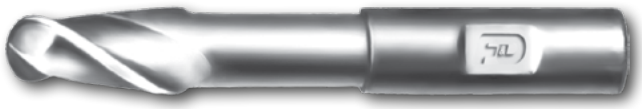
TWO FLUTE BALL ENDMILL DOUBLE END - HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17761-T1004	1/8	3/8	3/8	3 1/16
17762-T1006	3/16	3/8	7/16	3 1/8
17763-T1008	1/4	3/8	1/2	3 3/16
17764-T1010	5/16	3/8	9/16	3 3/16
17765-T1012	3/8	3/8	9/16	3 3/16
17766-T1014	7/16	1/2	13/16	3 7/8
17767-T1018	1/2	1/2	13/16	3 7/8
17768-T1028	5/8	5/8	1 1/8	4 9/16
17769-T1032	3/4	3/4	1 5/16	5
17770-T1042	7/8	7/8	1 9/16	5 1/2
17771-T1052	1	1	1 5/8	5 7/8

TWO FLUTE BALL ENDMILLS SINGLE END HIGH SPEED STEEL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17821-T1104	1/8	3/8	3/8	2 1/4
17822-T1106	3/16	3/8	1/2	2 3/8
17823-T1108	1/4	3/8	5/8	2 1/2
17824-T1110	5/16	3/8	3/4	2 9/16
17825-T1112	3/8	3/8	3/4	2 9/16
17826-T1114	7/16	1/2	1	3 1/16
17827-T1118	1/2	1/2	1	3 1/16
17828-T1120	9/16	1/2	1	3 1/16
17829-T1122	5/8	1/2	1 3/8	3 3/8
17830-T1126	3/4	1/2	1 5/8	3 5/8
17831-T1128	5/8	5/8	1 3/8	3 9/16
17832-T1132	3/4	3/4	1 5/8	3 15/16
17833-T1141A	13/16	3/4	2	4 1/4
17834-T1141B	7/8	3/4	2	4 1/4
17835-T1142	7/8	7/8	2	4 5/16
17836-T1143	15/16	3/4	2 1/4	4 1/2
17837-T1145	1	3/4	2 1/4	4 1/2
17838-T1147	1 1/8	3/4	2 1/4	4 1/2
17839-T1149	1 1/4	3/4	2 1/2	4 3/4
17840-T1151	1 3/8	3/4	2 1/2	4 3/4
17841-T1151A	1 1/2	3/4	2 1/2	4 3/4
17842-T1152	1	1	2 1/4	4 13/16
17843-T1154	1 1/8	1	2 1/4	4 13/16
17844-T1162	1 1/4	1 1/4	2 1/2	5 1/16
17845-T1163	1 3/8	1 1/4	2 1/2	5 1/16
17846-T1164	1 1/2	1 1/4	2 1/2	5 1/16



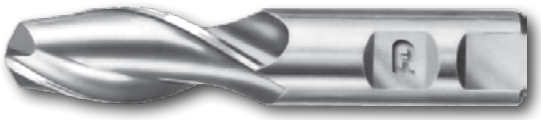
TWO FLUTE BALL ENDMILL SINGLE END LONG EXTENSION TYPE HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17791-T1218	1/2	1/2	1	4 1/16
17792-T1228	5/8	5/8	1 3/8	4 11/16
17793-T1232	3/4	3/4	1 5/8	5 7/16
17794-T1242	7/8	7/8	2	6 1/16
17795-T1252	1	1	2 1/2	7 5/16
17796-T1262	1 1/4	1 1/4	3	7 5/16

TWO FLUTE ENDMILL FOR ALUMINUM SINGLE END - HIGH SPEED STEEL

Regularly furnished with right hand cut.



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17091-AT308	1/4	3/8	5/8	2 7/16
17092-AT310	5/16	3/8	3/4	2 1/2
17093-AT312	3/8	3/8	3/4	2 1/2
17094-AT314	7/16	3/8	1	2 11/16
17095-AT318	1/2	1/2	1 1/4	3 1/4
17096-AT322	5/8	1/2	1 3/8	3 3/8
17097-AT326	3/4	1/2	1 5/8	3 5/8
17098-AT328	5/8	5/8	1 5/8	3 3/4
17099-AT341	3/4	3/4	1 5/8	3 7/8
17100-AT341B	7/8	3/4	1 7/8	4 1/8
17101-AT342	7/8	7/8	1 7/8	4 1/8
17102-AT345	1	3/4	1 7/8	4 1/8
17103-AT347	1 1/8	3/4	2	4 1/4
17104-AT349	1 1/4	3/4	2	4 1/4
17105-AT351	1 3/8	3/4	2	4 1/4
17106-AT351A	1 1/2	3/4	2	4 1/4
17107-AT352	1	1	2	4 1/2
17108-AT362	1 1/4	1 1/4	2	4 1/2
17109-AT364	1 1/2	1 1/4	2	4 1/2
17110-AT368	1 3/4	1 1/4	2	4 1/2
17111-AT372	2	1 1/4	2	4 1/2

TWO FLUTE BALL ENDMILL FOR ALUMINUM SINGLE END - HIGH SPEED STEEL

Regularly furnished with right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17191-AT1308	1/4	3/8	5/8	2 1/2
17192-AT1310	5/16	3/8	3/4	2 1/2
17193-AT1312	3/8	3/8	3/4	2 1/2
17194-AT1314	7/16	3/8	1	2 11/16
17195-AT1318	1/2	1/2	1 1/4	3 1/4
17196-AT1322	5/8	1/2	1 3/8	3 3/8
17197-AT1326	3/4	1/2	1 5/8	3 5/8
17198-AT1328	5/8	5/8	1 5/8	3 3/4
17199-AT1332	3/4	3/4	1 5/8	3 7/8
17200-AT1341B	7/8	3/4	1 7/8	4 1/8
17201-AT1342	7/8	7/8	1 7/8	4 1/8
17202-AT1345	1	3/4	1 7/8	4 1/8
17203-AT1347	1 1/8	3/4	2	4 1/4
17204-AT1349	1 1/4	3/4	2	4 1/4
17205-AT1351	1 3/8	3/4	2	4 1/4
17206-AT1351A	1 1/2	3/4	2	4 1/4
17207-AT1352	1	1	2	4 1/2
17208-AT1362	1 1/4	1 1/4	2	4 1/2
17209-AT1364	1 1/2	1 1/4	2	4 1/2
17210-AT1368	1 3/4	1 1/4	2	4 1/2
17211-AT1372	2	1 1/4	2	4 1/2

TWO FLUTE FOR ALUMINUM SINGLE END - LONG HIGH SPEED STEEL

Regularly furnished with right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17131-AT708	1/4	3/8	1 1/4	3 1/8
17132-AT710	5/16	3/8	1 3/8	3 1/8
17133-AT712	3/8	3/8	1 1/2	3 1/4
17134-AT714	7/16	1/2	1 3/4	3 3/4
17135-AT718	1/2	1/2	2	4
17136-AT728	5/8	5/8	2 1/2	4 5/8
17137-AT732	3/4	3/4	3	5 1/4
17138-AT742	7/8	7/8	3 1/2	5 3/4
17139-AT752	1	1	4	6 1/2
17140-AT762	1 1/4	1 1/4	4	6 1/2
17141-AT764	1 1/2	1 1/4	4	6 1/2
17142-AT768	1 3/4	1 1/4	4	6 1/2
17143-AT772	2	1 1/4	4	6 1/2

TWO FLUTE ENDMILL FOR ALUMINUM SINGLE END - EXTRA LONG HIGH SPEED STEEL

Regularly furnished with right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17161-AT908	1/4	3/8	1 3/4	3 1/2
17162-AT910	5/16	3/8	2	3 3/4
17163-AT912	3/8	3/8	2 1/2	4 1/4
17164-AT914	7/16	1/2	2 3/4	4 3/4
17165-AT918	1/2	1/2	3	5
17166-AT928	5/8	5/8	4	6 1/8
17167-AT932	3/4	3/4	4	6 1/4
17168-AT942	7/8	7/8	5	7 1/4
17169-AT952	1	1	6	8 1/2
17170-AT962	1 1/4	1 1/4	6	8 1/2
17171-AT964	1 1/2	1 1/4	8	10 1/2

2 FLUTE ENDMILLS

TWO FLUTE BALL ENDMILL FOR ALUMINUM SINGLE END - LONG HIGH SPEED STEEL

Regularly furnished with right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17231-AT1708	1/4	3/8	1 1/4	3 1/8
17232-AT1710	5/16	3/8	1 3/8	3 1/8
17233-AT1712	3/8	3/8	1 1/2	3 1/4
17234-AT1714	7/16	1/2	1 3/4	3 3/4
17235-AT1718	1/2	1/2	2	4
17236-AT1728	5/8	5/8	2 1/2	4 5/8
17237-AT1732	3/4	3/4	3	5 1/4
17238-AT1742	7/8	7/8	3 1/2	5 3/4
17239-AT1752	1	1	4	6 1/2
17240-AT1762	1 1/4	1 1/4	4	6 1/2
17241-AT1764	1 1/2	1 1/4	4	6 1/2
17242-AT1768	1 3/4	1 1/4	4	6 1/2
17243-AT1772	2	1 1/4	4	6 1/2

TWO FLUTE BALL ENDMILL FOR ALUMINUM SINGLE END - EXTRA LONG HIGH SPEED STEEL

Regularly furnished with right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17261-AT1908	1/4	3/8	1 3/4	3 1/2
17262-AT1910	5/16	3/8	2	3 3/4
17263-AT1912	3/8	3/8	2 1/2	4 1/4
17264-AT1914	7/16	1/2	2 3/4	4 3/4
17265-AT1918	1/2	1/2	3	5
17266-AT1928	5/8	5/8	4	6 1/8
17267-AT1932	3/4	3/4	4	6 1/4
17268-AT1942	7/8	7/8	5	7 1/4
17269-AT1952	1	1	6	8 1/2
17270-AT1962	1 1/4	1 1/4	6	8 1/2
17271-AT1960	1 1/2	1 1/4	6	8 1/2
17272-AT1964	1 1/2	1 1/4	8	10 1/2

TWO FLUTE SLOTTING ENDMILL B&S TAPER SHANK - HIGH SPEED STEEL

These endmills are ideally suited for slotting operations.
Regularly furnished in right hand cut-right hand spiral.
#5 B&S shank furnished with plain end - all others with tang.
LHC & LHS also available from stock*

Catalog EDI-Number	Dia. of Mill	B&S Taper Shank	Flute Length	Overall Length
18781-S607	1/4	#5	3/8	2 9/16
18782-S608	1/4	#7	3/8	4 3/8
18783-S609	5/16	#5	15/32	2 21/32
18784-S610	5/16	#7	15/32	4 15/32
18785-S612	3/8	#7	9/16	4 9/16
18786-S614	7/16	#7	21/32	4 21/32
18787-S618	1/2	#7	3/4	4 3/4
18788-S628	5/8	#7	15/16	4 15/16
18789-S632	3/4	#7	1 1/8	5 1/8
18790-S642	7/8	#7	1 5/16	5 5/16
18791-S652	1	#9	1 1/2	6 3/4
18792-S662	1 1/4	#9	1 7/8	7 1/8
18793-S664	1 1/2	#9	2 1/4	7 1/2

TWO FLUTE SLOTTING ENDMILL B&S TAPER SHANK - HIGH SPEED STEEL

These endmills are furnished with straight flutes.
#5 B&S shank furnished with plain end - all others with tang.

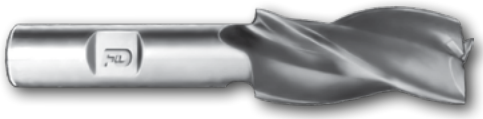
Catalog EDI-Number	Dia. of Mill	B&S Taper Shank	Flute Length	Overall Length
18811-S707	1/4	#5	3/8	2 9/16
18812-S708	1/4	#7	3/8	4 3/8
18813-S709	5/16	#5	15/32	2 21/32
18814-S710	5/16	#7	15/32	4 15/32
18815-S712	3/8	#7	9/16	4 9/16
18816-S714	7/16	#7	21/32	4 21/32
18817-S716	1/2	#7	3/4	4 3/4
18818-S728	5/8	#7	15/16	4 15/16
18819-S732	3/4	#7	1 1/8	5 1/8
18820-S742	7/8	#7	1 5/16	5 5/16
18821-S752	1	#9	1 1/2	6 3/4
18822-S762	1 1/4	#9	1 7/8	7 1/8
18823-S764	1 1/2	#9	2 1/4	7 1/2

THREE FLUTE ENDMILL – DOUBLE END HIGH SPEED STEEL

RIGHT HAND CUT RIGHT HAND SPIRAL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17861-FF204	1/8	3/8	3/8	3 1/8
17862-FF206	3/16	3/8	1/2	3 1/8
17863-FF208	1/4	3/8	5/8	3 3/8
17864-FF210	5/16	3/8	3/4	3 3/8
17865-FF212	3/8	3/8	3/4	3 3/8
17866-FF214	7/16	1/2	1	4 1/4
17867-FF218	1/2	1/2	1	4 1/4
17868-FF220	9/16	5/8	1 3/8	5
17869-FF228	5/8	5/8	1 3/8	5
17870-FF232	3/4	3/4	1 5/8	5 5/8
17871-FF242	7/8	7/8	1 7/8	6 1/4
17872-FF252	1	1	1 7/8	6 1/2

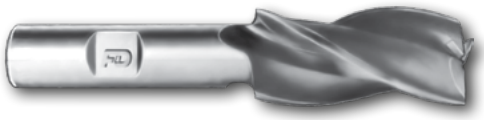
THREE FLUTE ENDMILL – SINGLE END - LONG



RIGHT HAND CUT RIGHT HAND SPIRAL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17941-FF708	1/4	3/8	1 1/4	3 1/8
17942-FF710	5/16	3/8	1 3/8	3 1/8
17943-FF712	3/8	3/8	1 1/2	3 1/4
17944-FF714	7/16	1/2	1 3/4	3 3/4
17945-FF718	1/2	1/2	2	4
17946-FF728	5/8	5/8	2 1/2	4 5/8
17947-FF732	3/4	3/4	3	5 1/4
17948-FF742	7/8	7/8	3 1/2	5 3/4
17949-FF752	1	1	4	6 1/2
17950-FF762	1 1/4	1 1/4	4	6 1/2
17951-FF764	1 1/2	1 1/4	4	6 1/2
17952-FF768	1 3/4	1 1/4	4	6 1/2
17953-FF772	2	1 1/4	4	6 1/2

THREE FLUTE ENDMILL – SINGLE END



RIGHT HAND CUT RIGHT HAND SPIRAL

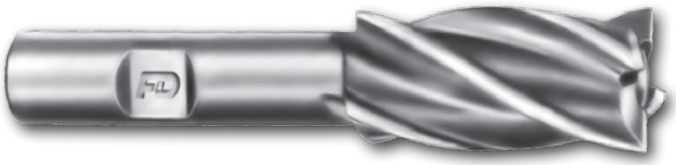
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17891-FF304	1/8	3/8	3/8	2 5/16
17892-FF306	3/16	3/8	1/2	2 3/8
17893-FF308	1/4	3/8	5/8	2 1/2
17894-FF310	5/16	3/8	3/4	2 1/2
17895-FF312	3/8	3/8	3/4	2 1/2
17896-FF314	7/16	3/8	1	2 11/16
17897-FF316	1/2	3/8	1	2 11/16
17898-FF318	1/2	1/2	1 1/4	3 1/4
17899-FF320	9/16	1/2	1 3/8	3 3/8
17900-FF322	5/8	1/2	1 3/8	3 3/8
17901-FF326	3/4	1/2	1 5/8	3 5/8
17902-FF328	5/8	5/8	1 5/8	3 3/4
17903-FF332	3/4	5/8	1 5/8	3 3/4
17904-FF336	7/8	5/8	1 7/8	4
17905-FF340	1	5/8	1 7/8	4
17906-FF341	3/4	3/4	1 5/8	3 7/8
17907-FF341B	7/8	3/4	1 7/8	4 1/8
17908-FF342	7/8	7/8	1 7/8	4 1/8
17909-FF345	1	3/4	1 7/8	4 1/8
17910-FF346	1	7/8	1 7/8	4 1/8
17911-FF352	1	1	2	4 1/2
17912-FF354	1 1/8	1	2	4 1/2
17913-FF356	1 1/4	1	2	4 1/2
17914-FF358	1 3/8	1	2	4 1/2
17915-FF360	1 1/2	1	2	4 1/2
17916-FF362	1 1/4	1 1/4	2	4 1/2
17917-FF364	1 1/2	1 1/4	2	4 1/2
17918-FF368	1 3/4	1 1/4	2	4 1/2
17919-FF372	2	1 1/4	2	4 1/2
17920-FF374	2	2	2	5 3/4

MULTIPLE FLUTE ENDMILLS

MULTIPLE FLUTE ENDMILL – SINGLE END
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral. Endmills with left hand cut-left hand spiral are shown on page 68

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18101-F304	1/8	3/8	3/8	2 5/16	4
18102-F305	5/32	3/8	7/16	2 5/16	4
18103-F306	3/16	3/8	1/2	2 3/8	4
18104-F307	7/32	3/8	9/16	2 3/8	4
18105-F308	1/4	3/8	5/8	2 1/2	4
18106-F309	9/32	3/8	11/16	2 1/2	4
18107-F310	5/16	3/8	3/4	2 1/2	4
18108-F311	11/32	3/8	3/4	2 1/2	4
18109-F312	3/8	3/8	3/4	2 1/2	4
18110-F314	7/16	3/8	1	2 11/16	4
18111-F316	1/2	3/8	1	2 11/16	4
18112-F318	1/2	1/2	1 1/4	3 1/4	4
18113-F320	9/16	1/2	1 3/8	3 3/8	4
18114-F322	5/8	1/2	1 3/8	3 3/8	4
18117-F328	5/8	5/8	1 5/8	3 3/4	4
18115-F324	11/16	1/2	1 5/8	3 5/8	4
18118-F330	11/16	5/8	1 5/8	3 3/4	4
18116-F326	3/4	1/2	1 5/8	3 5/8	4
18119-F332	3/4	5/8	1 5/8	3 3/4	4
18128-F341	3/4	3/4	1 5/8	3 3/4	4
18120-F333	13/16	1/2	1 7/8	3 7/8	4
18121-F334	13/16	5/8	1 7/8	4	6
18129-F341A	13/16	3/4	1 7/8	4 1/8	4
18122-F335	7/8	1/2	1 7/8	3 7/8	4
18123-F336	7/8	5/8	1 7/8	4	6



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18130-F341B	7/8	3/4	1 7/8	4 1/8	4
18131-F342	7/8	7/8	1 7/8	4 1/8	4
18124-F337	15/16	1/2	1 7/8	3 7/8	4
18125-F338	15/16	5/8	1 7/8	4	6
18132-F343	15/16	3/4	1 7/8	4 1/8	4
18133-F344	15/16	7/8	1 7/8	4 1/8	4
18126-F339	1	1/2	1 7/8	3 7/8	4
18127-F340	1	5/8	1 7/8	4	6
18134-F345	1	3/4	1 7/8	4 1/8	4
18135-F346	1	7/8	1 7/8	4 1/8	4
18142-F352	1	1	2	4 1/2	4
18136-F347	1 1/8	3/4	2	4 1/4	6
18137-F348	1 1/8	7/8	2	4 1/4	6
18143-F354	1 1/8	1	2	4 1/2	6
18138-F349	1 1/4	3/4	2	4 1/4	6
18139-F350	1 1/4	7/8	2	4 1/4	6
18144-F356	1 1/4	1	2	4 1/2	6
18147-F362	1 1/4	1 1/4	2	4 1/2	6
18140-F351	1 3/8	3/4	2	4 1/4	6
18145-F358	1 3/8	1	2	4 1/2	6
18141-F351A	1 1/2	3/4	2	4 1/4	6
18146-F360	1 1/2	1	2	4 1/2	6
18148-F364	1 1/2	1 1/4	2	4 1/2	6
18149-F366	1 5/8	1 1/4	2	4 1/2	6
18150-F368	1 3/4	1 1/4	2	4 1/2	6
18151-F370	1 7/8	1 1/4	2	4 1/2	8
18152-F372	2	1 1/4	2	4 1/2	8
18153-F374	2	2	2	5 3/4	6

FOUR FLUTE ENDMILL – SHORT SERIES
SINGLE END
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18251-F504	1/8	1/8	5/16	1 1/4	4
18252-F505	5/32	5/32	5/16	1 1/4	4
18253-F506	3/16	3/16	1/2	1 3/8	4
18254-F507	7/32	7/32	9/16	1 5/8	4
18255-F508	1/4	1/4	5/8	1 11/16	4
18256-F510	5/16	5/16	11/16	1 3/4	4
18257-F512	3/8	3/8	3/4	1 13/16	4
18258-F514	7/16	7/16	7/8	2 3/16	4
18259-F518	1/2	1/2	15/16	2 1/4	4
18260-F520	9/16	9/16	1	2 5/16	4
18261-F528	5/8	5/8	1 1/8	2 1/2	4
18262-F532	3/4	3/4	1 1/4	2 5/8	4

MULTIPLE FLUTE ENDMILL – SINGLE END
MEDIUM LENGTH
HIGH SPEED STEEL

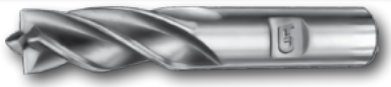
Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18281-F652	1	1	3	5 1/2	4
18282-F662	1 1/4	1 1/4	3	5 1/2	4
18283-F664	1 1/2	1 1/4	3	5 1/2	4
18284-F668	1 3/4	1 1/4	3	5 1/2	4
18285-F672	2	1 1/4	3	5 1/2	4
18286-F672A	2	1 1/4	3	5 1/2	6

MULTIPLE FLUTE ENDMILL – SINGLE END LONG - HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

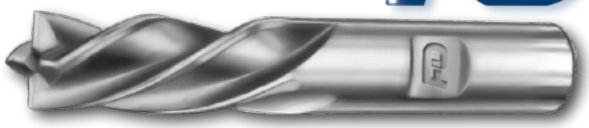
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18301-F708	1/4	3/8	1 1/4	3 1/8	4
18302-F710	5/16	3/8	1 3/8	3 1/8	4
18303-F712	3/8	3/8	1 1/2	3 1/4	4
18304-F714	7/16	1/2	1 3/4	3 3/4	4
18305-F718	1/2	1/2	2	4	4
18306-F728	5/8	5/8	2 1/2	4 5/8	4
18307-F732	3/4	3/4	3	5 1/4	4
18308-F742	7/8	7/8	3 1/2	5 3/4	4
18309-F752	1	1	4	6 1/2	4
18310-F754	1 1/8	1	4	6 1/2	6
18311-F756	1 1/4	1	4	6 1/2	6
18312-F758	1 3/8	1	4	6 1/2	6
18313-F760	1 1/2	1	4	6 1/2	6
18314-F762	1 1/4	1 1/4	4	6 1/2	6
18315-F764	1 1/2	1 1/4	4	6 1/2	6
18316-F768	1 3/4	1 1/4	4	6 1/2	6
18317-F772	2	1 1/4	4	6 1/2	8
18318-F782	2	2	4	7 3/4	4
18319-F784	2	2	4	7 3/4	6
18320-F786	2	2	6	9 3/4	4
18321-F788	2	2	8	11 3/4	6
18322-F794	2 1/2	2	4	7 5/8	6
18323-F796	2 1/2	2	6	9 5/8	6



MULTIPLE FLUTE ENDMILL – SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-left hand spiral.

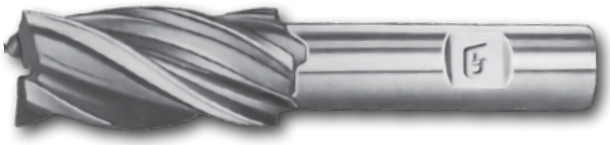
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18211-F408	1/4	3/8	5/8	2 1/2	4
18212-F410	5/16	3/8	3/4	2 1/2	4
18213-F412	3/8	3/8	3/4	2 1/2	4
18214-F414	7/16	3/8	1	2 11/16	4
18215-F418	1/2	1/2	1 1/4	3 1/4	4
18216-F428	5/8	5/8	1 5/8	3 3/4	4
18217-F432	3/4	3/4	1 3/4	4	4
18218-F442	7/8	7/8	1 7/8	4 1/8	4
18219-F452	1	1	2	4 1/2	4
18220-F454	1 1/8	1	2	4 1/2	6
18221-F456	1 1/4	1	2	4 1/2	6
18222-F458	1 3/8	1	2	4 1/2	6
18223-F460	1 1/2	1	2	4 1/2	6
18224-F462	1 1/4	1 1/4	2	4 1/2	6
18225-F464	1 1/2	1 1/4	2	4 1/2	6
18226-F466	1 5/8	1 1/4	2	4 1/2	6
18227-F468	1 3/4	1 1/4	2	4 1/2	6
18228-F470	1 7/8	1 1/4	2	4 1/2	8
18229-F472	2	1 1/4	2	4 1/2	8



MULTIPLE FLUTE ENDMILL – SINGLE END LONG - HIGH SPEED STEEL

Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18341-F805	1/4	3/8	1 1/4	3 1/8	4
18342-F810	5/16	3/8	1 3/8	3 1/8	4
18343-F812	3/8	3/8	1 1/2	3 1/4	4
18344-F814	7/16	1/2	1 3/4	3 3/4	4
18345-F818	1/2	1/2	2	4	4
18346-F828	5/8	5/8	2 1/2	4 5/8	4
18347-F832	3/4	3/4	3	5 1/4	4
18348-F842	7/8	7/8	3 1/2	5 3/4	4
18349-F852	1	1	4	6 1/2	4
18350-F854	1 1/8	1	4	6 1/2	6
18351-F856	1 1/4	1	4	6 1/2	6
18352-F858	1 3/8	1	4	6 1/2	6
18353-F860	1 1/2	1	4	6 1/2	6
18354-F862	1 1/4	1 1/4	4	6 1/2	6
18355-F864	1 1/2	1 1/4	4	6 1/2	6
18356-F868	1 3/4	1/4	4	6 1/2	6
18357-F872	2	1 1/4	4	6 1/2	8



LH MULTIPLE FLUTE ENDMILL – SINGLE END HIGH SPEED STEEL

Regularly furnished with left hand cut-left hand spiral

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18171-F304L	1/8	3/8	3/8	2 5/16	4
18172-F306L	3/16	3/8	1/2	2 3/8	4
18173-F308L	1/4	3/8	5/8	2 1/2	4
18174-F310L	5/16	3/8	3/4	2 1/2	4
18175-F312L	3/8	3/8	3/4	2 1/2	4
18176-F314L	7/16	3/8	1	2 11/16	4
18177-F318L	1/2	1/2	1 1/4	3 1/4	4
18178-F322L	5/8	1/2	1 3/8	3 3/8	4
18179-F326L	3/4	1/2	1 5/8	3 5/8	4
18180-F328L	5/8	5/8	1 5/8	3 3/4	4
18181-F330L	11/16	5/8	1 5/8	3 3/4	4
18182-F332L	3/4	5/8	1 5/8	3 3/4	4
18183-F334L	13/16	5/8	1 7/8	4	6
18184-F335L	7/8	1/2	1 7/8	3 7/8	4
18185-F336L	7/8	5/8	1 7/8	4	6
18186-F339L	1	1/2	1 7/8	3 7/8	4
18187-F340L	1	5/8	1 7/8	4	6
18188-F342L	7/8	7/8	1 7/8	4 1/8	4
18189-F344L	15/16	7/8	1 7/8	4 1/8	4
18190-F346L	1	7/8	1 7/8	4 1/8	4

MULTIPLE FLUTE ENDMILLS

MULTIPLE FLUTE ENDMILL – SINGLE END EXTRA LONG - HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18381-F908	1/4	3/8	1 3/4	3 1/2	4
18382-F910	5/16	3/8	2	3 3/4	4
18383-F912	3/8	3/8	2 1/2	4 1/4	4
18384-F918	1/2	1/2	3	5	4
18385-F928	5/8	5/8	4	6 1/8	4
18386-F932	3/4	3/4	4	6 1/4	4
18387-F942	7/8	7/8	5	7 1/4	4
18388-F952	1	1	6	8 1/2	4
18389-F962	1 1/4	1 1/4	6	8 1/2	6
18390-F964	1 1/2	1 1/4	8	10 1/2	6

MULTIPLE FLUTE BALL ENDMILL – SINGLE END LONG - HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

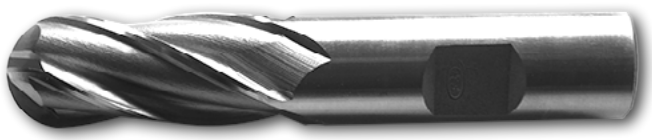
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18441-F1208	1/4	3/8	1 1/4	3 1/8	4
18442-F1208A	1/4	3/8	1 3/4	3 1/2	4
18443-F1210	5/16	3/8	1 3/8	3 1/8	4
18444-F1210A	5/16	3/8	2	3 3/4	4
18445-F1212	3/8	3/8	1 1/2	3 1/4	4
18446-F1212A	3/8	3/8	2 1/2	4 1/4	4
18447-F1218	1/2	1/2	2	4	4
18448-F1218A	1/2	1/2	3	5	4
18449-F1228	5/8	5/8	2 1/2	4 5/8	4
18450-F1228A	5/8	5/8	4	6 1/8	4
18451-F1232	3/4	3/4	3	5 1/4	4
18452-F1232A	3/4	3/4	4	6 1/4	4
18453-F1242	7/8	7/8	3 1/2	5 3/4	4
18454-F1242A	7/8	7/8	5	7 1/4	4
18455-F1252	1	1	4	6 1/2	4
18456-F1252A	1	1	6	8 1/2	4
18457-F1262	1 1/4	1 1/4	4	6 1/2	4
18458-F1262A	1 1/4	1 1/4	4	6 1/2	6
18459-F1262B	1 1/4	1 1/4	6	8 1/2	4
18460-F1262C	1 1/4	1 1/4	6	8 1/2	6
18461-F1264	1 1/2	1 1/4	4	6 1/2	4
18462-F1264A	1 1/2	1 1/4	4	6 1/2	6
18463-F1264B	1 1/2	1 1/4	6	8 1/2	6

MULTIPLE FLUTE CENTER CUTTING ENDMILL SINGLE END - EXTRA LONG HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral, with two flutes cutting to center for plunge cutting.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18591-FC908	1/4	3/8	1 3/4	3 1/2	4
18592-FC910	5/16	3/8	2	3 3/4	4
18593-FC912	3/8	3/8	2 1/2	4 1/4	4
18594-FC918	1/2	1/2	3	5	4
18595-FC928	5/8	5/8	4	6 1/8	4
18596-FC932	3/4	3/4	4	6 1/4	4
18597-FC942	7/8	7/8	5	7 1/4	4
18598-FC952	1	1	6	8 1/2	4
18599-FC962	1 1/4	1 1/4	6	8 1/2	4
18600-FC962A	1 1/4	1 1/4	6	8 1/2	6
18601-FC964	1 1/2	1 1/4	6	8 1/2	4
18602-FC964A	1 1/2	1 1/4	6	8 1/2	6
18603-FC964B	1 1/2	1 1/4	8	10 1/2	6

MULTIPLE FLUTE BALL ENDMILL SINGLE END HIGH SPEED STEEL



Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18411-F1108	1/4	3/8	5/8	2 1/2	4
18412-F1110	5/16	3/8	3/4	2 1/2	4
18413-F1112	3/8	3/8	3/4	2 1/2	4
18414-F1118	1/2	1/2	1 1/4	3 1/4	4
18415-F1128	5/8	5/8	1 5/8	3 3/4	4
18416-F1132	3/4	3/4	1 5/8	3 7/8	4
18417-F1142	7/8	7/8	1 7/8	4 1/8	4
18418-F1152	1	1	2	4 1/2	4
18419-F1162	1 1/4	1 1/4	2	4 1/2	4
18420-F1164	1 1/2	1 1/4	2	4 1/2	4

MULTIPLE FLUTE ENDMILL CENTER CUTTING - SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral with two flutes cutting to center for plunge cutting.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18511-FC304	1/8	3/8	3/8	2 5/16	4
18512-FC306	3/16	3/8	1/2	2 3/8	4
18513-FC308	1/4	3/8	5/8	2 1/2	4
18514-FC310	5/16	3/8	3/4	2 1/2	4
18515-FC312	3/8	3/8	3/4	2 1/2	4
18534-FC314	7/16	3/8	1	2 3/4	4
18516-FC318	1/2	1/2	1 1/4	3 1/4	4
18517-FC318A	1/2	1/2	1 1/4	3 1/4	6
18518-FC328	5/8	5/8	1 5/8	3 3/4	4
18519-FC328A	5/8	5/8	1 5/8	3 3/4	6
18520-FC330	11/16	5/8	1 5/8	3 3/4	4
18521-FC341	3/4	3/4	1 5/8	3 7/8	4
18522-FC341A	3/4	3/4	1 5/8	3 7/8	6
18523-FC342	7/8	7/8	1 7/8	4 1/8	4
18524-FC342A	7/8	7/8	1 7/8	4 1/8	6
18525-FC352	1	1	2	4 1/2	4
18526-FC352A	1	1	2	4 1/2	6
18527-FC354	1 1/8	1	2	4 1/2	4
18528-FC362	1 1/4	1 1/4	2	4 1/2	4
18529-FC362A	1 1/4	1 1/4	2	4 1/2	6
18530-FC364	1 1/2	1 1/4	2	4 1/2	4
18531-FC364A	1 1/2	1 1/4	2	4 1/2	6
18532-FC368	1 3/4	1 1/4	2	4 1/2	6
18533-FC372	2	1 1/4	2	4 1/2	6

FOUR FLUTE ENDMILL DOUBLE END – HIGH SPEED STEEL

Regularly furnished in left hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
18071-F204L	1/8	3/8	3/8	3 1/4
18072-F205L	5/32	3/8	7/16	3 1/4
18073-F206L	3/16	3/8	1/2	3 1/4
18074-F207L	7/32	3/8	9/16	3 1/4
18075-F208L	1/4	3/8	5/8	3 3/8
18076-F209L	9/32	3/8	11/16	3 3/8
18077-F210L	5/16	3/8	3/4	3 3/8
18078-F211L	11/32	3/8	3/4	3 3/8
18079-F212L	3/8	3/8	3/4	3 3/8
18080-F214L	7/16	1/2	1	4 1/8
18081-F218L	1/2	1/2	1	4 1/8
18082-F220L	9/16	5/8	1 3/8	5
18083-F228L	5/8	5/8	1 3/8	5
18084-F232L	3/4	3/4	1 5/8	5 5/8
18085-F242L	7/8	7/8	1 7/8	6 1/4
18086-F252L	1	1	1 7/8	6 1/2

MULTIPLE FLUTE ENDMILL CENTER CUTTING - SINGLE END - LONG HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral with two flutes cutting to center for plunge cutting.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18551-FC708	1/4	3/8	1 1/4	3 1/8	4
18552-FC710	5/16	3/8	1 3/8	3 1/8	4
18553-FC712	3/8	3/8	1 1/2	3 1/4	4
18554-FC718	1/2	1/2	2	4	4
18555-FC718A	1/2	1/2	2	4	6
18556-FC728	5/8	5/8	2 1/2	4 5/8	4
18557-FC728A	5/8	5/8	2 1/2	4 5/8	6
18558-FC732	3/4	3/4	3	5 1/4	4
18559-FC732A	3/4	3/4	3	5 1/4	6
18560-FC742	7/8	7/8	3 1/2	5 3/4	4
18561-FC742A	7/8	7/8	3 1/2	5 3/4	6
18562-FC752	1	1	4	6 1/2	4
18563-FC752A	1	1	4	6 1/2	6
18564-FC762	1 1/4	1 1/4	4	6 1/2	4
18565-FC762A	1 1/4	1 1/4	4	6 1/2	6
18566-FC764	1 1/2	1 1/4	4	6 1/2	4
18567-FC764A	1 1/2	1 1/4	4	6 1/2	6
18568-FC768	1 3/4	1 1/4	4	6 1/2	6
18569-FC772	2	1 1/4	4	6 1/2	6

MULTIPLE FLUTE ENDMILLS

FOUR FLUTE ENDMILL
DOUBLE END
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
18011-F204	1/8	3/8	3/8	3 1/4
18012-F204A	9/64	3/8	7/16	3 1/4
18013-F205	5/32	3/8	7/16	3 1/4
18014-F205A	11/64	3/8	1/2	3 1/4
18015-F206	3/16	3/8	1/2	3 1/4
18016-F206A	13/64	3/8	9/16	3 1/4
18017-F207	7/32	3/8	9/16	3 1/4
18018-F207A	15/64	3/8	5/8	3 3/8
18019-F208	1/4	3/8	5/8	3 3/8
18020-F208A	17/64	3/8	11/16	3 3/8
18021-F209	9/32	3/8	11/16	3 3/8
18022-F209A	19/64	3/8	3/4	3 3/8
18023-F210	5/16	3/8	3/4	3 3/8
18024-F210A	21/64	3/8	3/4	3 3/8
18025-F211	11/32	3/8	3/4	3 3/8
18026-F211A	23/64	3/8	3/4	3 3/8
18027-F212	3/8	3/8	3/4	3 3/8
18028-F212A	25/64	1/2	1	4 1/8
18029-F213	13/32	1/2	1	4 1/8
18030-F213A	27/64	1/2	1	4 1/8
18031-F214	7/16	1/2	1	4 1/8
18032-F214A	29/64	1/2	1	4 1/8
18033-F215	15/32	1/2	1	4 1/8
18034-F216	31/64	1/2	1	4 1/8
18035-F218	1/2	1/2	1	4 1/8
18036-F219	17/32	5/8	1 3/8	5
18037-F220	9/16	5/8	1 3/8	5
18038-F224	19/32	5/8	1 3/8	5
18039-F228	5/8	5/8	1 3/8	5
18040-F229	21/32	3/4	1 5/8	5 5/8
18041-F230	11/16	3/4	1 5/8	5 5/8
18042-F231	23/32	3/4	1 5/8	5 5/8
18043-F232	3/4	3/4	1 5/8	5 5/8
18044-F233	25/32	7/8	1 7/8	6 1/4
18045-F234	13/16	7/8	1 7/8	6 1/4
18046-F238	27/32	7/8	1 7/8	6 1/4
18047-F242	7/8	7/8	1 7/8	6 1/4
18048-F243	29/32	1	1 7/8	6 3/8
18049-F244	15/16	1	1 7/8	6 3/8
18050-F248	31/32	1	1 7/8	6 1/2
18051-F252	1	1	1 7/8	6 1/2
18052-F256	1 1/4	1 1/4	2	7 1/4
18053-F258	1 3/8	1 3/8	2 1/8	7 3/8
18054-F260	1 1/2	1 1/2	2 1/4	8

FOUR FLUTE SMALL DIAMETER ENDMILL
DOUBLE END - HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17971-F13	3/32	3/16	5/16	2 1/4
17972-F14	1/8	3/16	3/8	2 1/4
17973-F15	5/32	3/16	7/16	2 1/4
17974-F16	3/16	3/16	1/2	2 1/4

FOUR FLUTE SMALL DIAMETER ENDMILL
DOUBLE END - LONG
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17991-F103	3/32	3/16	9/32	2 5/8
17992-F104	1/8	3/16	3/4	3 1/8
17993-F105	5/32	3/16	7/8	3 1/4
17994-F106	3/16	3/16	1	3 3/8

FOUR FLUTE ENDMILL
CENTER CUTTING - DOUBLE END
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
18481-FC204	1/8	3/8	3/8	3 1/8
18482-FC206	3/16	3/8	1/2	3 1/8
18483-FC208	1/4	3/8	5/8	3 3/8
18484-FC210	5/16	3/8	3/4	3 3/8
18485-FC212	3/8	3/8	3/4	3 3/8
18485A-FC214	7/16	1/2	1	4 1/8
18486-FC218	1/2	1/2	1	4 1/4
18487-FC228	5/8	5/8	1 3/8	5
18488-FC232	3/4	3/4	1 5/8	5 5/8
18489-FC242	7/8	7/8	1 7/8	6 1/4
18490-FC252	1	1	1 7/8	6 1/2

MULTIPLE FLUTE HEAVY DUTY ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

F & D heavy duty endmills are designed and constructed especially for use when large cuts and extra lengths of flutes are desired. These mills are made of solid high speed steel. Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes
18751-S502	2	#5	4	10 5/8	6
18752-S503	2	#5	6	12 5/8	6
18753-S504	2	#5	8	14 5/8	6
18754-S512	2 1/2	#5	6	12 5/8	6
18755-S513	2 1/2	#5	8	14 5/8	6
18756-S514	2 1/2	#5	10	16 5/8	6
18757-S522	3	#6	6	15 1/16	8
18758-S523	3	#6	8	17 1/16	8
18759-S524	3	#6	10	19 1/16	8
18760-S532	3 1/2	#6	6	15 1/16	8
18761-S533	3 1/2	#6	8	17 1/16	8
18762-S534	3 1/2	#6	10	19 1/16	8

MULTIPLE FLUTE LIGHT DUTY ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

F&D light duty endmills are designed with fine flutes for light finishing cuts. Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes
18651-SF308	1/4	#1	5/8	3 1/2	6
18652-SF310	5/16	#1	11/16	3 9/16	6
18653-SF312	3/8	#1	3/4	3 5/8	6
18654-SF314	7/16	#1	7/8	3 3/4	6
18655-SF316	1/2	#1	15/16	3 13/16	6
18656-SF318	1/2	#2	15/16	4 7/16	6
18657-SF328	5/8	#2	1 1/8	4 5/8	6
18658-SF332	3/4	#2	1 1/4	4 3/4	6
18659-SF334	3/4	#3	1 1/4	5 9/16	6
18660-SF336	7/8	#2	1 7/16	4 15/16	8
18661-SF342	7/8	#3	1 7/16	5 3/4	8
18662-SF346	1	#2	1 5/8	5 1/8	8
18663-SF352	1	#3	1 5/8	5 15/16	8
18664-SF354	1 1/8	#3	1 3/4	6 1/16	8
18665-SF362	1 1/4	#3	2	6 5/16	8

MULTIPLE FLUTE HEAVY DUTY ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral. Coarse flutes permit heavier cuts. LHC, LHS also available from stock.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes
18681-S308	1/4	#1	5/8	3 1/2	4
18682-S310	5/16	#1	11/16	3 9/16	4
18683-S312	3/8	#1	3/4	3 5/8	4
18684-S314	7/16	#1	7/8	3 3/4	4
18685-S316	1/2	#1	15/16	3 13/16	4
18686-S318	1/2	#2	15/16	4 7/16	4
18687-S328	5/8	#2	1 1/8	4 5/8	4
18688-S332	3/4	#2	1 1/4	4 3/4	4
18689-S334	3/4	#3	1 1/4	5 9/16	4
18690-S336	7/8	#2	1 7/16	4 15/16	4
18691-S342	7/8	#3	1 7/16	5 3/4	4
18692-S346	1	#2	1 5/8	5 1/8	4
18693-S352	1	#3	1 5/8	5 15/16	4
18694-S354	1 1/8	#3	1 3/4	6 1/16	6
18695-S362	1 1/4	#3	2	6 5/16	6

MULTIPLE FLUTE FINISHING ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

Recommended for fine finishing cuts. Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes
18721-S408	1/4	#1	5/8	3 1/2	4
18722-S410	5/16	#1	11/16	3 9/16	4
18723-S412	3/8	#1	3/4	3 5/8	4
18724-S414	7/16	#1	7/8	3 3/4	4
18725-S416	1/2	#1	15/16	3 13/16	4
18726-S418	1/2	#2	15/16	4 7/16	4
18727-S428	5/8	#2	1 1/8	4 5/8	4
18728-S432	3/4	#2	1 1/4	4 3/4	4
18729-S434	3/4	#3	1 1/4	5 9/16	4
18730-S436	7/8	#2	1 7/16	4 15/16	4
18731-S442	7/8	#3	1 7/16	5 3/4	4
18732-S446	1	#2	1 5/8	5 1/8	4
18733-S452	1	#3	1 5/8	5 15/16	4
18734-S454	1 1/8	#3	1 3/4	6 1/16	6
18735-S462	1 1/4	#3	2	6 5/16	6

TAPER SHANK ENDMILLS

MULTIPLE FLUTE LIGHT DUTY ENDMILL
B & S TAPER SHANK
HIGH SPEED STEEL

Designed with fine flutes for light finishing cuts. Regularly furnished with right hand cut-right hand spiral. #5 B & S shank furnished with plain end. All others with tang.

Catalog EDI-Number	Mill Dia.	B&S Taper Shank	Flute Length	Overall Length	# of Flutes
18876-SF108	1/4	#5	5/8	2 13/16	6
18877-SF110	5/16	#5	11/16	2 7/8	6
18878-SF112	3/8	#5	3/4	2 15/16	6
18879-SF114	7/16	#5	7/8	3 1/16	6
18880-SF116	1/2	#5	15/16	3 1/8	6
18881-SF118	1/2	#7	15/16	4 15/16	6
18882-SF120	9/16	#7	1	5	6
18883-SF128	5/8	#7	1 1/8	5 1/8	6
18884-SF132	3/4	#7	1 1/4	5 1/4	6
18885-SF142	7/8	#7	1 7/16	5 7/16	8
18886-SF152	1	#7	1 5/8	5 5/8	8
18887-SF154	1 1/8	#9	1 3/4	7	8
18888-SF162	1 1/4	#9	2	7 1/4	8
18889-SF164	1 1/2	#9	2 1/4	7 1/2	10
18890-SF168	1 3/4	#9	2 1/2	7 3/4	10
18891-SF172	2	#9	2 3/4	8	12

MULTIPLE FLUTE HEAVY DUTY ENDMILL
B & S TAPER SHANK
HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral-coarse flute. #5 B & S shank furnished with plain end. All others with tang. LHC, LHS are also available from stock.

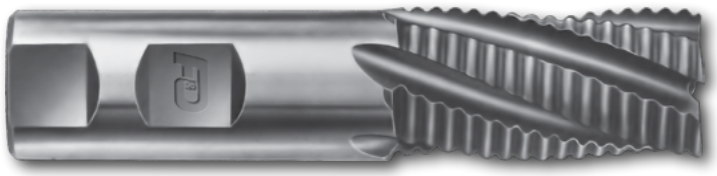
Catalog EDI-Number	Mill Dia.	B&S Taper Shank	Flute Length	Overall Length	# of Flutes
18841-S108	1/4	#5	5/8	2 13/16	4
18842-S110	5/16	#5	11/16	2 7/8	4
18843-S112	3/8	#5	3/4	2 15/16	4
18844-S114	7/16	#5	7/8	3 1/16	4
18845-S116	1/2	#5	15/16	3 1/8	4
18846-S118	1/2	#7	15/16	4 15/16	4
18847-S120	9/16	#7	1	5	4
18848-S128	5/8	#7	1 1/8	5 1/8	4
18849-S132	3/4	#7	1 1/4	5 1/4	4
18850-S142	7/8	#7	1 7/16	5 7/16	4
18851-S152	1	#7	1 5/8	5 5/8	4
18852-S154	1 1/8	#9	1 3/4	7	6
18853-S162	1 1/4	#9	2	7 1/4	6
18854-S164	1 1/2	#9	2 1/4	7 1/2	6
18855-S168	1 3/4	#9	2 1/2	7 3/4	6
18856-S172	2	#9	2 3/4	8	8

MULTIPLE FLUTE FINISHING ENDMILL
B & S TAPER SHANK
HIGH SPEED STEEL

Recommended for fine finishing cuts. Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	B&S Taper Shank	Flute Length	Overall Length	# of Flutes
18621-S208	1/4	#5	5/8	2 13/16	4
18622-S210	5/16	#5	11/16	2 7/8	4
18623-S212	3/8	#5	3/4	2 15/16	4
18624-S214	7/16	#5	7/8	3 1/16	4
18625-S216	1/2	#5	15/16	3 1/8	4
18626-S218	1/2	#7	15/16	4 15/16	4
18627-S220	9/16	#7	1	5	4
18628-S228	5/8	#7	1 1/8	5 1/8	4
18629-S232	3/4	#7	1 1/4	5 1/4	4
18630-S242	7/8	#7	1 7/16	5 7/16	4
18631-S252	1	#7	1 5/8	5 5/8	4
18632-S254	1 1/8	#9	1 3/4	7	6
18633-S262	1 1/4	#9	2	7 1/4	6
18634-S264	1 1/2	#9	2 1/4	7 1/2	6
18635-S268	1 3/4	#9	2 1/2	7 3/4	6
18636-S272	2	#9	2 3/4	8	6

MULTIPLE FLUTE SINGLE END STRAIGHT SHANK ROUGHING ENDMILL
PREMIUM COBALT STEEL
NON-CENTER CUTTING

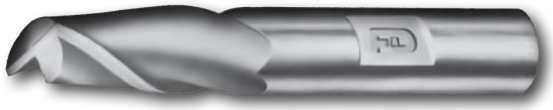


LIST NO. FCR 300

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
19301	3/16	3/8	1/2	2 3/8	4
19271	1/4	3/8	5/8	2 7/16	4
19302	1/4	3/8	1 1/4	3 1/16	4
19272	5/16	3/8	3/4	2 1/2	4
19303	5/16	3/8	1 3/8	3 1/8	4
19273	3/8	3/8	3/4	2 1/2	4
19305	3/8	3/8	1 1/2	3 1/4	4
19306	7/16	3/8	1	2 11/16	4
19274	1/2	1/2	1 1/4	3 1/4	4
19275	1/2	1/2	2	4	4
19308	9/16	1/2	1 3/8	3 3/8	4
19276	5/8	5/8	1 5/8	3 3/4	4
19277	5/8	5/8	2 1/2	4 5/8	4
19277A	11/16	5/8	1 5/8	3 3/4	4
19279	3/4	3/4	1 5/8	3 3/4	4
19280	3/4	3/4	3	5 1/4	4
19310	3/4	3/4	3/4	3	4
19278	3/4	5/8	1 5/8	3 3/4	4
19278A	13/16	3/4	1 7/8	4 1/8	4
19278B	7/8	3/4	1 7/8	4 1/8	5
19281	7/8	3/4	1 5/8	3 5/8	5
19311	7/8	3/4	3 1/2	5 3/4	5
19312	7/8	7/8	1 7/8	4 1/8	5
19314	7/8	7/8	3 1/2	5 3/4	5
19283	1	1	2	4 1/2	5
19315	1	1	3	5 1/2	5
19284	1	1	4	6 1/2	5
19316	1	1	6	8 1/2	5
19282	1	3/4	2	4	5
19318	1	3/4	3/4	3	5
19285	1 1/8	1	2	4 1/2	6
19285A	1 1/4	3/4	2	4 1/2	6
19286	1 1/4	1 1/4	2	4 1/2	6
19319	1 1/4	1 1/4	3	5 1/2	6
19321	1 1/4	1 1/4	4	6 1/2	6
19322	1 1/4	1 1/4	6	8 1/2	6
19323	1 1/4	3/4	1 1/2	3 3/4	6
19324	1 1/4	3/4	3/4	3	6

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
19287	1 1/2	1 1/4	2	4 1/2	6
19326	1 1/2	1 1/4	3	5 1/2	6
19327	1 1/2	1 1/4	4	6 1/2	6
19328	1 1/2	1 1/4	5	7 1/2	6
19329	1 1/2	1 1/4	6	8 1/2	6
19331	1 1/2	1 1/4	8	10 1/2	6
19332	1 1/2	3/4	1 1/2	3 3/4	6
19333	1 1/2	3/4	3/4	3	6
19288	1 3/4	1 1/4	2	4 1/2	6
19334	1 3/4	1 1/2	2 1/2	5 3/8	6
19336	1 3/4	1 1/4	4	6 1/2	6
19337	1 3/4	1 1/2	4 1/2	7 3/8	8
19338	2	3/4	3/4	3	8
19339	2	1 1/4	2	4 1/2	8
19340	2	1 1/4	4	6 1/2	8
19289	2	2	2	5 1/2	8
19342	2	2	3	6 3/4	8
19290	2	2	4	7 3/4	8
19343	2	2	5	8 3/4	8
19291	2	2	6	9 3/4	8
19345	2	2	7	10 3/4	8
19292	2	2	8	11 3/4	8
19346	2	2	10	13 3/4	8
19347	2	2	12	15 3/4	8
19348	2 1/2	2	4	7 3/4	8
19350	2 1/2	2	6	9 3/4	8
19351	2 1/2	2	8	11 3/4	8
19352	2 1/2	2	10	13 3/4	8
19353	2 1/2	2	12	15 3/4	8
19354	3	2 1/2	4	7 3/4	10
19356	3	2 1/2	6	9 3/4	10
19357	3	2 1/2	8	11 3/4	10
19358	3	2 1/2	10	13 3/4	10
19359	3	2 1/2	12	15 3/4	10

COBALT 2 FLUTE ENDMILLS



TWO FLUTE COBALT ENDMILL
SINGLE END
PREMIUM COBALT STEEL

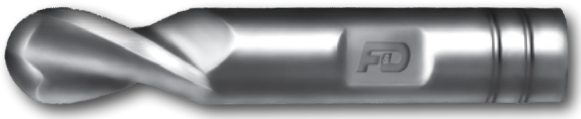
Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
19021-TXL304	1/8	3/8	3/8	2 5/16
19022-TXL306	3/16	3/8	3/8	2 5/16
19023-TXL308	1/4	3/8	1/2	2 5/16
19024-TXL310	5/16	3/8	9/16	2 5/16
19025-TXL312	3/8	3/8	9/16	2 3/8
19026-TXL318	1/2	1/2	1	3
19027-TXL328	5/8	5/8	1 5/16	3 7/16
19028-TXL341	3/4	3/4	1 5/16	3 9/16
19029-TXL341B	7/8	3/4	1 1/2	3 3/4
19030-TXL345	1	3/4	1 1/2	3 3/4
19031-TXL347	1 1/8	3/4	1 5/8	3 7/8
19032-TXL349	1 1/4	3/4	1 5/8	3 7/8
19033-TXL351	1 3/8	3/4	1 5/8	3 7/8
19034-TXL351A	1 1/2	3/4	1 5/8	3 7/8
19035-TXL352	1	1	1 5/8	4 1/8
19036-TXL362	1 1/4	1 1/4	1 5/8	4 1/8
19037-TXL364	1 1/2	1 1/4	1 5/8	4 1/8
19038-TXL368	1 3/4	1 1/4	1 5/8	4 1/8
19039-TXL372	2	1 1/4	1 5/8	4 1/8

TWO FLUTE T-15 COBALT ENDMILL
SINGLE END
T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
19121-TXV304	1/8	3/8	3/8	2 5/16
19122-TXV306	3/16	3/8	7/16	2 5/16
19123-TXV308	1/4	3/8	1/2	2 5/16
19124-TXV310	5/16	3/8	9/16	2 5/16
19125-TXV312	3/8	3/8	9/16	2 5/16
19126-TXV314	7/16	3/8	13/16	2 1/2
19127-TXV316	1/2	1/2	1	3
19128-TXV318	5/8	5/8	1 5/16	3 7/16
19129-TXV341	3/4	3/4	1 5/16	3 9/16
19130-TXV342	7/8	7/8	1 1/2	3 3/4
19131-TXV352	1	1	1 5/8	4 1/8
19132-TXV362	1 1/4	1 1/4	1 5/8	4 1/8
19133-TXV364	1 1/2	1 1/4	1 5/8	4 1/8
19134-TXV372	2	1 1/4	1 5/8	4 1/8

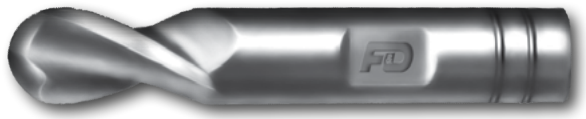


TWO FLUTE COBALT BALL ENDMILL
SINGLE END

PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Radius	Mill Dia.	Shank Dia.	Flute Length	Overall Length
19061-TXL1104	1/16	1/8	3/8	3/8	2 1/4
19062-TXL1106	3/32	3/16	3/8	1/2	2 3/8
19063-TXL1108	1/8	1/4	3/8	5/8	2 1/2
19064-TXL1110	5/32	5/16	3/8	3/4	2 9/16
19065-TXL1112	3/16	3/8	3/8	3/4	2 9/16
19066-TXL1118	1/4	1/2	1/2	1	3 1/16
19067-TXL1128	5/16	5/8	5/8	1 3/8	3 9/16
19068-TXL1132	3/8	3/4	3/4	1 5/8	3 15/16
19069-TXL1145	1/2	1	3/4	2 1/4	4 9/16
19070-TXL1149	5/8	1 1/4	3/4	2 1/2	4 13/16
19071-TXL1151	1/2	1	3/4	2 1/2	4 13/16
19072-TXL1152	1/2	1	1	2 1/4	4 13/16
19073-TXL1162	5/8	1 1/4	1 1/4	2 1/2	5 1/16
19074-TXL1164	3/4	1 1/2	1 1/4	2 1/2	5 1/16



TWO FLUTE T-15 COBALT BALL ENDMILL
SINGLE END

T-15 COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Radius	Mill Dia.	Shank Dia.	Flute Length	Overall Length
19151-TXV1104	1/16	1/8	3/8	3/8	2 5/16
19152-TXV1106	3/32	3/16	3/8	1/2	2 3/8
19153-TXV1108	1/8	1/4	3/8	5/8	2 7/16
19154-TXV1110	5/32	5/16	3/8	3/4	2 1/2
19155-TXV1112	3/16	3/8	3/8	3/4	2 1/2
19156-TXV1118	1/4	1/2	1/2	1	3
19157-TXV1128	5/16	5/8	5/8	1 3/8	3 1/2
19158-TXV1132	3/8	3/4	3/4	1 5/8	3 7/8
19159-TXV1152	1/2	1	1	2 1/4	4 3/4
19160-TXV1162	5/8	1 1/4	1 1/4	2 1/2	5
19161-TXV1164	3/4	1 1/2	1 1/4	2 1/2	5

MULTIPLE FLUTE ENDMILL
SINGLE END
PREMIUM COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18911-XL304	1/8	3/8	3/8	2 5/16	4
18912-XL306	3/16	3/8	1/2	2 3/8	4
18913-XL308	1/4	3/8	5/8	2 1/2	4
18914-XL310	5/16	3/8	3/4	2 1/2	4
18915-XL312	3/8	3/8	3/4	2 1/2	4
18916-XL314	7/16	3/8	1	2 11/16	4
18917-XL318	1/2	1/2	1 1/4	3 1/4	4
18918-XL318A	1/2	1/2	1 1/4	3 1/4	6
18919-XL328	5/8	5/8	1 5/8	3 3/4	4
18920-XL328A	5/8	5/8	1 5/8	3 3/4	6
18921-XL341	3/4	3/4	1 5/8	3 3/4	4
18922-XL341C	3/4	3/4	1 5/8	3 3/4	6
18923-XL341B	7/8	3/4	1 7/8	4 1/8	4
18924-XL342	7/8	7/8	1 7/8	4 1/8	4
18925-XL345	1	3/4	1 7/8	4 1/8	4
18926-XL347	1 1/8	3/4	2	4 1/4	6
18927-XL349	1 1/4	3/4	2	4 1/4	6
18928-XL351	1 3/8	3/4	2	4 1/4	6
18929-XL351A	1 1/2	3/4	2	4 1/4	6
18930-XL352	1	1	2	4 1/2	4
18931-XL352A	1	1	2	4 1/2	6
18932-XL362	1 1/4	1 1/4	2	4 1/2	4
18933-XL362A	1 1/4	1 1/4	2	4 1/2	6
18934-XL364	1 1/2	1 1/4	2	4 1/2	4
18935-XL364A	1 1/2	1 1/4	2	4 1/2	6
18936-XL368	1 3/4	1 1/4	2	4 1/2	6
18937-XL372	2	1 1/4	2	4 1/2	8

MULTIPLE FLUTE BALL ENDMILL
SINGLE END
PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
19091-XL1104	1/8	3/8	3/8	2 5/16	4
19092-XL1106	3/16	3/8	1/2	2 3/8	4
19093-XL1108	1/4	3/8	5/8	2 7/16	4
19094-XL1110	5/16	3/8	3/4	2 1/2	4
19095-XL1112	3/8	3/8	3/4	2 1/2	4
19096-XL1118	1/2	1/2	1 1/4	3 1/4	4
19097-XL1128	5/8	5/8	1 5/8	3 3/4	4
19098-XL1132	3/4	3/4	1 5/8	3 7/8	4
19099-XL1145	1	3/4	1 7/8	4 1/8	4
19100-XL1149	1 1/4	3/4	2	4 1/4	6
19101-XL1151	1 1/2	3/4	2	4 1/4	6
19102-XL1152	1	1	2	4 1/2	4
19103-XL1162	1 1/4	1 1/4	2	4 1/2	6
19104-XL1164	1 1/2	1 1/4	2	4 1/2	6
19106-XL1166	1 3/4	1 1/4	2	4 1/2	6
19108-XL1168	2	2	6	9 3/4	6

MULTIPLE FLUTE ENDMILL
SINGLE END - EXTRA LONG
PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18991-XL912	3/8	3/8	2 1/2	4 1/4	4
18992-XL918	1/2	1/2	3	5	4
18993-XL928	5/8	5/8	4	6 1/8	4
18994-XL932	3/4	3/4	4	6 1/4	4
18995-XL932A	3/4	3/4	4	6 1/4	6
18996-XL942	7/8	7/8	5	7 1/4	4
18997-XL952	1	1	6	8 1/2	4
18998-XL952A	1	1	6	8 1/2	6
18999-XL960	1 1/4	1 1/4	6	8 1/2	4
19000-XL962	1 1/4	1 1/4	6	8 1/2	6

MULTIPLE FLUTE ENDMILL
SINGLE END - LONG
PREMIUM COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

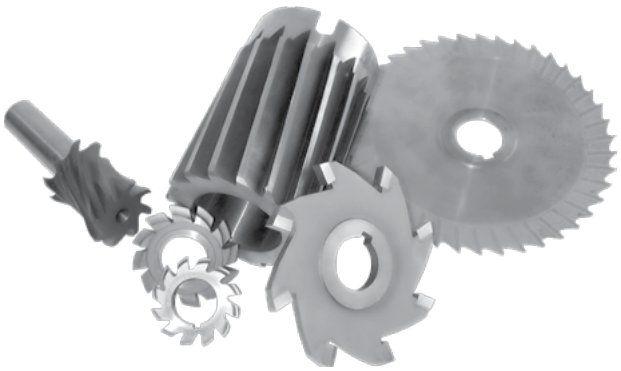
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
18961-XL712	3/8	3/8	1 1/2	3 1/4	4
18962-XL714	7/16	1/2	1 3/4	3 3/4	4
18963-XL718	1/2	1/2	2	4	4
18964-XL728	5/8	5/8	2 1/2	4 5/8	4
18965-XL732	3/4	3/4	3	5 1/4	4
18966-XL732A	3/4	3/4	3	5 1/4	6
18967-XL752	1	1	4	6 1/2	4
18968-XL752A	1	1	4	6 1/2	6
18969-XL760	1 1/4	1	4	6 1/2	6
18970-XL762	1 1/4	1 1/4	4	6 1/2	4
18971-XL762A	1 1/4	1 1/4	4	6 1/2	6
18972-XL764	1 1/2	1 1/4	4	6 1/2	4
18973-XL764A	1 1/2	1 1/4	4	6 1/2	6
18974-XL772	2	1 1/4	4	6 1/2	8

COBALT MULTIPLE FLUTE ENDMILLS

MULTIPLE FLUTE ENDMILL
SINGLE END
T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
19181-XV304	1/8	3/8	3/8	2 5/16	4
19182-XV306	3/16	3/8	1/2	2 3/8	4
19183-XV308	1/4	3/8	5/8	2 1/2	4
19184-XV310	5/16	3/8	3/4	2 1/2	4
19185-XV312	3/8	3/8	3/4	2 1/2	4
19186-XV314	7/16	3/8	1	2 11/16	4
19187-XV318	1/2	1/2	1 1/4	3 1/4	4
19188-XV328	5/8	5/8	1 5/8	3 3/4	4
19189-XV341	3/4	3/4	1 5/8	3 3/4	4
19190-XV342	7/8	7/8	1 7/8	4 1/8	4
19191-XV352	1	1	2	4 1/2	4
19192-XV362	1 1/4	1 1/4	2	4 1/2	6
19193-XV364	1 1/2	1 1/4	2	4 1/2	6
19194-XV368	1 3/4	1 1/4	2	4 1/2	6
19195-XV372	2	1 1/4	2	4 1/2	6
19196-XV372A	2	1 1/4	2	4 1/2	8



MULTIPLE FLUTE ENDMILL
SINGLE END - LONG
T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
19216-XV708	1/4	3/8	1 1/4	3 1/16	4
19217-XV710	5/16	3/8	1 3/8	3 1/8	4
19218-XV712	3/8	3/8	1 1/2	3 1/4	4
19219-XV718	1/2	1/2	2	4	4
19220-XV728	5/8	5/8	2 1/2	4 5/8	4
19221-XV732	3/4	3/4	3	5 1/4	4
19222-XV742	7/8	7/8	3 1/2	5 3/4	4
19223-XV752	1	1	4	6 1/2	4
19224-XV762	1 1/4	1 1/4	4	6 1/2	6
19225-XV764	1 1/2	1 1/4	4	6 1/2	6
19226-XV772	2	1 1/4	4	6 1/2	6
19227-XV772A	2	1 1/4	4	6 1/2	8

MULTIPLE FLUTE ENDMILL
SINGLE END - EXTRA LONG
T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes
19241-XV910	5/16	3/8	2	3 3/4	4
19242-XV912	3/8	3/8	2 1/2	4 1/4	4
19243-XV918	1/2	1/2	3	5	4
19244-XV928	5/8	5/8	4	6 1/8	4
19245-XV932	3/4	3/4	4	6 1/8	4
19246-XV942	7/8	7/8	5	7 1/4	4
19247-XV952	1	1	6	8 1/2	4
19248-XV962	1 1/4	1 1/4	6	8 1/2	6
19249-XV964	1 1/2	1 1/4	6	8 1/2	4

SOLID CARBIDE ENDMILLS – CENTER CUTTING

TWO FLUTE – SINGLE END
LIST NO. TCE-300

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23001	1/32	1/8	1/8	1 1/2
23002	1/16	1/8	3/16	1 1/2
23003	5/64	1/8	1/4	1 1/2
23004	3/32	1/8	5/16	1 1/2
23005	7/64	1/8	3/8	1 1/2
23006	1/8	1/8	1/2	1 1/2
23007	9/64	3/16	1/2	2
23008	5/32	3/16	9/16	2
23009	11/64	3/16	9/16	2
23010	3/16	3/16	5/8	2
23011	13/64	1/4	5/8	2 1/2
23012	7/32	1/4	5/8	2 1/2
23013	15/64	1/4	3/4	2 1/2
23014	1/4	1/4	3/4	2 1/2
23015	17/64	5/16	3/4	2 1/2
23016	9/32	5/16	3/4	2 1/2
23017	19/64	5/16	13/16	2 1/2
23018	5/16	5/16	13/16	2 1/2
23019	21/64	3/8	7/8	2 1/2
23020	11/32	3/8	7/8	2 1/2
23021	23/64	3/8	7/8	2 1/2
23022	3/8	3/8	7/8	2 1/2
23023	25/64	7/16	1	2 3/4
23024	13/32	7/16	1	2 3/4
23025	27/64	7/16	1	2 3/4
23026	7/16	7/16	1	2 3/4
23027	29/64	1/2	1	3
23028	15/32	1/2	1	3
23029	31/64	1/2	1	3
23030	1/2	1/2	1	3
23031	9/16	9/16	1 1/8	3 1/2
23032	5/8	5/8	1 1/4	3 1/2
23033	11/16	3/4	1 3/8	4
23034	3/4	3/4	1 1/2	4
23035	1	1	1 1/2	4

TWO FLUTE – DOUBLE END - BALL
LIST NO. TCE-1000

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23261	1/16	1/8	1/8	1 1/2
23262	3/32	1/8	3/16	1 1/2
23263	1/8	1/8	1/4	1 1/2
23264	5/32	3/16	5/16	2
23265	3/16	3/16	3/8	2
23266	1/4	1/4	1/2	2 1/2
23267	5/16	5/16	1/2	2 1/2
23268	3/8	3/8	1/2	2 1/2
23269	7/16	7/16	9/16	2 3/4
23270	1/2	1/2	5/8	3

TWO FLUTE – SINGLE END – BALL
LIST NO. TCE-1100

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23181	1/32	1/8	1/8	1 1/2
23182	1/16	1/8	3/16	1 1/2
23183	3/32	1/8	5/16	1 1/2
23184	1/8	1/8	1/2	1 1/2
23185	5/32	3/16	9/16	2
23186	3/16	3/16	5/8	2
23187	7/32	1/4	5/8	2 1/2
23188	1/4	1/4	3/4	2 1/2
23189	9/32	5/16	3/4	2 1/2
23190	5/16	5/16	13/16	2 1/2
23191	3/8	3/8	7/8	2 1/2
23192	7/16	7/16	1	2 3/4
23193	1/2	1/2	1	3
23194	9/16	9/16	1 1/8	3 1/2
23195	5/8	5/8	1 1/4	3 1/2
23196	11/16	3/4	1 3/8	4
23197	3/4	3/4	1 1/2	4
23199	1	1	1 1/2	4

TWO FLUTE – DOUBLE END
LIST NO. TCE-200

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23121	1/16	1/8	1/8	1 1/2
23122	3/32	1/8	3/16	1 1/2
23123	1/8	1/8	1/4	1 1/2
23124	5/32	3/16	5/16	2
23125	3/16	3/16	3/8	2
23126	7/32	1/4	1/2	2 1/2
23127	1/4	1/4	1/2	2 1/2
23128	5/16	5/16	1/2	2 1/2
23129	3/8	3/8	1/2	2 1/2
23130	7/16	7/16	9/16	2 3/4
23131	1/2	1/2	5/8	3

CARBIDE 4 FLUTE ENDMILLS

SOLID CARBIDE ENDMILLS – CENTER CUTTING

FOUR FLUTE – SINGLE END LIST NO. FCE-300

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23061	1/32	1/8	1/8	1 1/2
23062	1/16	1/8	3/16	1 1/2
23063	5/64	1/8	1/4	1 1/2
23064	3/32	1/8	5/16	1 1/2
23065	7/64	1/8	3/8	1 1/2
23066	1/8	1/8	1/2	1 1/2
23067	9/64	3/16	1/2	2
23068	5/32	3/16	9/16	2
23069	11/64	3/16	9/16	2
23070	3/16	3/16	5/8	2
23071	13/64	1/4	5/8	2 1/2
23072	7/32	1/4	5/8	2 1/2
23073	15/64	1/4	3/4	2 1/2
23074	1/4	1/4	3/4	2 1/2
23075	17/64	5/16	3/4	2 1/2
23076	9/32	5/16	3/4	2 1/2
23077	19/64	5/16	13/16	2 1/2
23078	5/16	5/16	13/16	2 1/2
23079	21/64	3/8	7/8	2 1/2
23080	11/32	3/8	7/8	2 1/2
23081	23/64	3/8	7/8	2 1/2
23082	3/8	3/8	7/8	2 1/2
23083	25/64	7/16	1	2 3/4
23084	13/32	7/16	1	2 3/4
23085	27/64	7/16	1	2 3/4
23086	7/16	7/16	1	2 3/4
23087	29/64	1/2	1	3
23088	15/32	1/2	1	3
23089	31/64	1/2	1	3
23090	1/2	1/2	1	3
23091	9/16	9/16	1 1/4	3 1/2
23092	5/8	5/8	1 1/4	3 1/2
23093	11/16	3/4	1 1/2	4
23094	3/4	3/4	1 1/2	4
23095	1	1	1 1/2	4

FOUR FLUTE – DOUBLE END LIST NO. FCE-200

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23151	1/16	1/8	1/8	1 1/2
23152	3/32	1/8	3/16	1 1/2
23153	1/8	1/8	1/4	1 1/2
23154	5/32	3/16	5/16	2
23155	3/16	3/16	3/8	2
23156	7/32	1/4	1/2	2 1/2
23157	1/4	1/4	1/2	2 1/2
23158	5/16	5/16	1/2	2 1/2
23159	3/8	3/8	1/2	2 1/2
23160	7/16	7/16	9/16	2 3/4
23161	1/2	1/2	5/8	3

FOUR FLUTE – SINGLE END – BALL LIST NO. FCE-1100

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23221	1/32	1/8	1/8	1 1/2
23222	1/16	1/8	3/16	1 1/2
23223	3/32	1/8	5/16	1 1/2
23224	1/8	1/8	1/2	1 1/2
23225	5/32	3/16	9/16	2
23226	3/16	3/16	5/8	2
23227	7/32	1/4	5/8	2 1/2
23228	1/4	1/4	3/4	2 1/2
23229	9/32	5/16	3/4	2 1/2
23230	5/16	5/16	13/16	2 1/2
23231	3/8	3/8	7/8	2 1/2
23232	7/16	7/16	1	2 3/4
23233	1/2	1/2	1	3
23234	9/16	9/16	1 1/8	3 1/2
23235	5/8	5/8	1 1/4	3 1/2
23236	11/16	3/4	1 3/8	4
23237	3/4	3/4	1 1/2	4
23239	1	1	1 1/2	4

FOUR FLUTE – DOUBLE END – BALL LIST NO. FCE-1000

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
23291	1/16	1/8	1/8	1 1/2
23292	3/32	1/8	3/16	1 1/2
23294	1/8	1/8	1/4	1 1/2
23295	5/32	3/16	5/16	2
23296	3/16	3/16	3/8	2
23297	1/4	1/4	1/2	2 1/2
23298	5/16	5/16	1/2	2 1/2
23299	3/8	3/8	1/2	2 1/2
23300	7/16	7/16	9/16	2 3/4
23301	1/2	1/2	5/8	3

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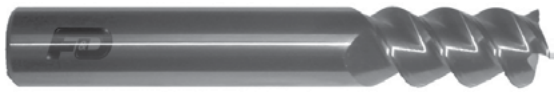
45 AND 60 DEGREE HIGH HELIX
3 FLUTE CENTER CUTTING

Mill Dia.	Shank Dia.	Flute Length	Overall Length	45 Degree	60 Degree
1/8	1/8	1/2	1-1/2	17800	27800
3/16	3/16	5/8	2	17801	27801
1/4	1/4	3/4	2-1/2	17802	27802
5/16	5/16	13/16	2-1/2	17803	27803
3/8	3/8	7/8	2-1/2	17804	27804
1/2	1/2	1	3	17805	27805
5/8	5/8	1-1/4	3-1/2	17806	27806
3/4	3/4	1-1/2	4	17807	27807
1	1	1-1/2	4	17808	27808



45 DEGREE HELIX WITH CORNER RADIUS
6 FLUTE SINGLE END

Mill Dia.	Shank Dia.	Flute Length	Overall Length	Corner Radius	Catalog EDI-Number
1/4	1/4	3/4	2 1/2	.015	37800
5/16	5/16	13/16	2 1/2	.020	37801
3/8	3/8	1	2 1/2	.020	37802
1/2	1/2	1	3	.025	37803
5/8	5/8	1 1/4	3 1/2	.030	37804
3/4	3/4	1 1/2	4	.035	37805
1	1	1 1/2	4	.035	37806

4 FLUTE VARIABLE HELIX
CORNER RADIUS

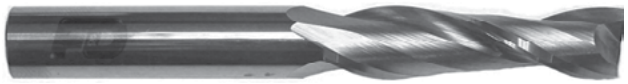
Mill Dia.	Shank Dia.	Flute Length	Overall Length	Corner Radius	Catalog EDI-Number
1/8	1/8	1/2	1 1/2	.010-.015	47800
3/16	3/16	5/8	2	.015-.020	47801
1/4	1/4	1/2	2	.015-.020	47802
1/4	1/4	3/4	2 1/2	.015-.020	47803
1/4	1/4	1 1/8	3	.015-.020	47804
5/16	5/16	1/2	2	.015-.020	47805
5/16	5/16	13/16	2 1/2	.015-.020	47806
5/16	5/16	1 1/8	3	.015-.020	47807
3/8	3/8	5/8	2	.015-.020	47808
3/8	3/8	1	2 1/2	.015-.020	47809
3/8	3/8	1 1/8	3	.015-.020	47810
7/16	7/16	1	2 3/4	.015-.020	47811
1/2	1/2	5/8	2 1/2	.025-.030	47812
1/2	1/2	1	3	.025-.030	47813
1/2	1/2	2	4	.025-.030	47814
5/8	5/8	3/4	3	.030-.035	47815
5/8	5/8	1 1/4	3 1/2	.030-.035	47816
5/8	5/8	2 1/4	5	.030-.035	47817
3/4	3/4	1	3	.030-.035	47818
3/4	3/4	1 1/2	4	.030-.035	47819
3/4	3/4	2 1/4	5	.030-.035	47820
1	1	1 1/2	4	.030-.035	47821

5 FLUTE VARIABLE HELIX
CORNER RADIUS

Mill Dia.	Shank Dia.	Flute Length	Overall Length	Corner Radius	Catalog EDI-Number
1/4	1/4	3/4	2 1/2	.015-.020	57800
3/8	3/8	1	2 1/2	.015-.020	57801
1/2	1/2	1	3	.025-.030	57802
5/8	5/8	1 1/4	3 1/2	.030-.035	57803
3/4	3/4	1 1/2	4	.030-.035	57804
1	1	1 1/2	4	.030-.035	57805

CARBIDE ENDMILLS

PREMIUM MICRO GRAIN – 10% COBALT



2 FLUTE EXTRA LONG LENGTH SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
16650	1/8	1/8	1	3
16651	3/16	3/16	1 1/8	3
16652	1/4	1/4	1 1/2	4
16653	3/8	3/8	1 3/4	4
16654	1/2	1/2	3	6
16655	5/8	5/8	3	6
16656	3/4	3/4	3	6
16657	1	1	3	6

2 FLUTE EXTRA LONG LENGTH BALL NOSE – SINGLE END

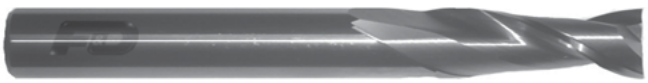
Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
17750	1/8	1/8	1	3
17751	3/16	3/16	1 1/8	3
17752	1/4	1/4	1 1/2	4
17753	3/8	3/8	1 3/4	4
17754	1/2	1/2	3	6
17755	5/8	5/8	3	6
17756	3/4	3/4	3	6
17757	1	1	3	6

4 FLUTE EXTRA LONG LENGTH SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
16670	1/8	1/8	1	3
16671	3/16	3/16	1 1/8	3
16672	1/4	1/4	1 1/2	4
16673	3/8	3/8	1 3/4	4
16674	1/2	1/2	3	6
16675	5/8	5/8	3	6
16676	3/4	3/4	3	6
16677	1	1	3	6
17690	3/4	3/4	4	7
17691	1	1	4	7

4 FLUTE EXTRA LONG LENGTH BALL NOSE – SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
16660	1/8	1/8	1	3
16661	3/16	3/16	1 1/8	3
16662	1/4	1/4	1 1/2	4
16663	3/8	3/8	1 3/4	4
16664	1/2	1/2	3	6
16665	5/8	5/8	3	6
16666	3/4	3/4	3	6
16667	1	1	3	6



2 FLUTE STANDARD LENGTH SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	2 Flute Corner Radius
16680	1/4	1/4	1/2	2	.010
16681	5/16	5/16	1/2	2	.010
16682	3/8	3/8	5/8	2	.015
16683	1/2	1/2	5/8	2 1/2	.020
16684	5/8	5/8	3/4	3	.020
16685	3/4	3/4	1	3	.030

3 FLUTE STANDARD LENGTH SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length
16690	1/4	1/4	3/4	2 1/2
16691	5/16	5/16	13/16	2 1/2
16692	3/8	3/8	7/8	2 1/2
16693	7/16	7/16	1	2 3/4
16694	1/2	1/2	1	3
16695	5/8	5/8	1 1/4	3 1/2
16696	3/4	3/4	1 1/2	4
16697	1	1	1 1/2	4

CARBIDE - HIGH SPEED STEEL DRILLS, & COUNTERBORES

COUNTERBORES

SHORT SET COUNTERBORES

These Short Set Counterbores are made from top grade High Speed Steel. You can depend on the ruggedness and durability of these tools, as the counterbore-cutter and shank are integral with the cutting edges strongly backed up.

For interchangeable Pilots, refer to Page 84

TAPER SHANK LIST NO. 375

STRAIGHT SHANK LIST NO. 376

					TAPER SHANK		STRAIGHT SHANK		
Dia.	OAL	# of Flutes	Hole Dia.	Range of Pilot Size	Taper Shank	Catalog EDI #	Shank Dia.	Shank Length	Catalog EDI-#
3/16	3 13/16	3	3/32	1/8-3/16	1	26851	15/64	3 1/16	26921
7/32	3 13/16	3	3/32	1/8-3/16	1	26852	15/64	3 1/16	26922
1/4	3 13/16	3	3/32	1/8-3/16	1	26853	15/64	3 1/16	26923
9/32	3 13/16	3	3/32	1/8-7/32	1	26854	17/64	3 1/16	26924
5/16	3 13/16	3	3/32	1/8-1/4	1	26855	19/64	3 1/16	26925
11/32	3 13/16	3	3/32	1/8-9/32	1	26856	5/16	3 1/16	26926
3/8	4 1/16	3	5/32	3/16-5/16	1	26857	5/16	3 1/16	26927
13/32	4 1/16	3	5/32	3/16-11/32	1	26858	3/8	3 1/16	26928
7/16	4 1/16	3	5/32	3/16-3/8	1	26859	3/8	3 1/16	26929
15/32	4 5/16	3	3/16	1/4-13/32	1	26860	7/16	3 1/16	26930
1/2	4 5/16	3	3/16	1/4-7/16	1	26861	7/16	3 1/16	26931
17/32	4 5/16	3	3/16	1/4-15/32	1	26862	1/2	3 1/16	26932
9/16	4 5/16	3	3/16	1/4-1/2	1	26863	1/2	3 1/16	26933
19/32	5 1/8	3	3/16	1/4-17/32	2	26864	1/2	3 7/8	26934
5/8	5 1/8	3	3/16	1/4-9/16	2	26865	1/2	3 7/8	26935
21/32	5 1/8	3	3/16	1/4-19/32	2	26866	1/2	3 7/8	26936
11/16	5 1/8	3	3/16	1/4-5/8	2	26867	1/2	3 7/8	26937
23/32	5 3/8	3	1/4	5/16-21/32	2	26868	1/2	3 7/8	26938
3/4	5 3/8	3	1/4	5/16-11/16	2	26869	1/2	3 7/8	26939
25/32	5 3/8	3	1/4	5/16-23/32	2	26870	5/8	3 7/8	26940
13/16	5 3/8	3	1/4	5/16-3/4	2	26871	5/8	3 7/8	26941
7/8	5 3/8	3	1/4	5/16-13/16	2	26872	3/4	3 7/8	26942
15/16	6 1/8	3	1/4	5/16-7/8	3	26873	3/4	4 5/8	26943
1	6 3/8	3	5/16	3/8-15/16	3	26874	3/4	4 5/8	26944
1 1/16	6 3/8	3	5/16	3/8-1	3	26875	3/4	4 5/8	26945
1 1/8	6 3/8	3	5/16	3/8-1 1/16	3	26876	1	4 5/8	26946
1 3/16	6 3/8	3	5/16	3/8-1 1/8	3	26877	1	4 5/8	26947
1 1/4	6 5/8	5	3/8	7/16-1 3/16	3	26878	1	4 5/8	26948
1 5/16	6 5/8	5	3/8	7/16-1 1/4	3	26879	1	4 5/8	26949
1 3/8	6 5/8	5	3/8	7/16-1 5/16	3	26880	1	4 5/8	26950
1 7/16	7 7/8	5	3/8	7/16-1 3/8	4	26881	1 1/4	5 7/8	26951
1 1/2	7 7/8	5	3/8	7/16-1 7/16	4	26882	1 1/4	5 7/8	26952
1 9/16	8 1/8	5	7/16	1/2-1 1/2	4	26883	1 1/4	5 7/8	26953
1 5/8	8 1/8	5	7/16	1/2-1 9/16	4	26884	1 1/4	5 7/8	26954
1 11/16	8 1/8	5	7/16	1/2-1 5/8	4	26885	1 1/4	5 7/8	26955
1 3/4	8 1/8	5	7/16	1/2-1 11/16	4	26886	1 1/4	5 7/8	26956
1 13/16	8 1/8	5	7/16	1/2-1 3/4	4	26887	1 1/2	5 7/8	26957
1 7/8	8 1/8	5	7/16	1/2-1 13/16	4	26888	1 1/2	5 7/8	26958
1 15/16	8 1/8	5	7/16	1/2-1 7/8	4	26889	1 1/2	5 7/8	26959
2	8 3/8	5	1/2	9/16-1 15/16	4	26890	1 1/2	5 7/8	26960
2 1/8	9 7/8	5	1/2	9/16-2 1/16	5	26891	1 1/2	7 3/8	26961
2 1/4	9 7/8	5	1/2	9/16-2 3/16	5	26892	1 1/2	7 3/8	26962
2 3/8	9 7/8	5	1/2	9/16-2 5/16	5	26893	1 3/4	7 3/8	26963
2 1/2	9 7/8	5	1/2	9/16-2 7/16	5	26894	1 3/4	7 3/8	26964
2 5/8	9 7/8	5	1/2	9/16-2 9/16	5	26895	1 3/4	7 3/8	26965
2 3/4	9 7/8	5	1/2	9/16-2 11/16	5	26896	1 3/4	7 3/8	26966
2 7/8	9 7/8	5	1/2	9/16-2 13/16	5	26897	1 3/4	7 3/8	26967
3	9 7/8	5	1/2	9/16-2 15/16	5	26898	1 3/4	7 3/8	26968

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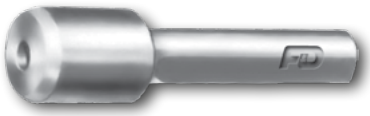
HSS INTERCHANGEABLE PILOT COUNTERBORES SET
EDI#-28991

Pilots in a fitted case. Each set includes: 13 counterbores - 26 pilots.
Counterbores: 1/4" to 1" by 16ths
Pilots: 1/8, 5/32, 3/16, and 1/4 with 3/32 shanks, 3/16, 7/32, 1/4, 9/32, and 5/16 with 5/32 shanks, 1/4, 5/16, 3/8, 7/16, and 1/2 with 3/16 shanks, 5/16, 3/8, 7/16, 1/2, 9/16, and 5/8 with 1/4 shanks, 3/8, 7/16, 1/2, 9/16, 5/8, and 3/4 with 5/16 shanks.

15 PIECE SET
EDI#-28990

5 Counterbores - 1/4" - 1/2" by 16ths
Pilots:
1/8, 5/32, 3/16, and 1/4 with a 3/32 shank, 3/16, 7/32, 1/4, and 5/16 with a 5/32 shank, 1/4 and 5/16 with a 3/16 shank.

PILOTS FOR COUNTERBORES
LIST NO. P100



These pilots are made from carbon tool steel properly hardened and carefully ground. They have straight shanks with a flat for a set screw. The pilot diameter is made with an undersize allowance suitable for a running fit. When ordering, kindly specify stock number, or complete pilot specifications.

Pilot Dia.	Pilot Shank Dia.	Catalog EDI-Number
3/32	1/8	26110
1/8	3/32	26111
1/8	1/8	26111B
5/32	3/32	26112
5/32	1/8	26112A
3/16	3/32	26113
3/16	1/8	26113A
3/16	5/32	26114
7/32	3/32	26115
7/32	1/8	26115A
7/32	5/32	26116
1/4	3/32	26117
1/4	1/8	26117F
1/4	5/32	26118
1/4	3/16	26119
9/32	1/8	26119B
5/16	1/8	26119C
5/16	5/32	26120
5/16	3/16	26121
5/16	1/4	26122
11/32	1/8	26122A
3/8	1/8	26122B
3/8	5/32	26123
3/8	3/16	26124
3/8	1/4	26125
3/8	5/16	26126
13/32	1/8	26126A
7/16	1/8	26126B
7/16	3/16	26127
7/16	1/4	26128
7/16	5/16	26129
7/16	3/8	26130
15/32	1/8	26130A
1/2	1/8	26130B
1/2	3/16	26131
1/2	1/4	26132
1/2	5/16	26133
1/2	3/8	26134
1/2	7/16	26135
9/32	1/8	26135A
9/16	3/16	26136
9/16	1/4	26137
9/16	5/16	26138
9/16	3/8	26139
9/16	7/16	26140

Pilot Dia.	Pilot Shank Dia.	Catalog EDI-Number
9/16	1/2	26141
5/8	3/16	26142
5/8	1/4	26143
5/8	5/16	26144
5/8	3/8	26145
5/8	7/16	26146
5/8	1/2	26147
11/16	1/4	26148
11/16	5/16	26149
11/16	3/8	26150
11/16	7/16	26151
11/16	1/2	26152
3/4	1/4	26153
3/4	5/16	26154
3/4	3/8	26155
3/4	7/16	26156
3/4	1/2	26157
13/16	1/4	26158
13/16	5/16	26159
13/16	3/8	26160
13/16	7/16	26161
13/16	1/2	26162
7/8	1/4	26163
7/8	5/16	26164
7/8	3/8	26165
7/8	7/16	26166
7/8	1/2	26167
15/16	5/16	26168
15/16	3/8	26169
15/16	7/16	26170
15/16	1/2	26171
1	5/16	26172
1	3/8	26173
1	7/16	26174
1	1/2	26175
1 1/16	5/16	26176
1 1/16	3/8	26177
1 1/16	7/16	26178
1 1/16	1/2	26179
1 1/8	5/16	26180
1 1/8	3/8	26181
1 1/8	7/16	26182
1 1/8	1/2	26183
1 3/16	3/8	26184
1 3/16	7/16	26185

Pilot Dia.	Pilot Shank Dia.	Catalog EDI-Number
1 3/16	1/2	26186
1 1/4	3/8	26187
1 1/4	7/16	26188
1 1/4	1/2	26189
1 5/16	3/8	26190
1 5/16	7/16	26191
1 5/16	1/2	26192
1 3/8	3/8	26193
1 3/8	7/16	26194
1 3/8	1/2	26195
1 7/16	3/8	26196
1 7/16	7/16	26197
1 7/16	1/2	26198
1 1/2	7/16	26199
1 1/2	1/2	26200
1 9/16	7/16	26201
1 9/16	1/2	26202
1 5/8	7/16	26203
1 5/8	1/2	26204
1 11/16	7/16	26205
1 11/16	1/2	26206
1 3/4	7/16	26207
1 3/4	1/2	26208
1 13/16	7/16	26209
1 13/16	1/2	26210
1 7/8	7/16	26211
1 7/8	1/2	26212
1 15/16	1/2	26213
2	1/2	26214
2 1/16	1/2	26215
2 1/8	1/2	26216
2 3/16	1/2	26217
2 1/4	1/2	26218
2 5/16	1/2	26219
2 3/8	1/2	26220
2 7/16	1/2	26221
2 1/2	1/2	26222
2 9/16	1/2	26223
2 5/8	1/2	26224
2 11/16	1/2	26225
2 3/4	1/2	26226
2 13/16	1/2	26227
2 7/8	1/2	26228
2 15/16	1/2	26229
3	1/2	26230

COUNTERBORES

CARBIDE TIPPED

List No. 375C - Tapered Shank - Three/Four Flutes - For Steel

List No. 376C - Straight Shank - Three/Four Flutes - For Steel

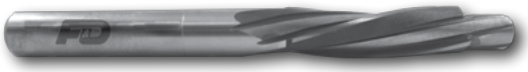
Use: Designed with right hand helix, proper grade carbide and cutting edge clearance for heavier feeds. Hardened alloy steel bodies with brazed on carbide tips.

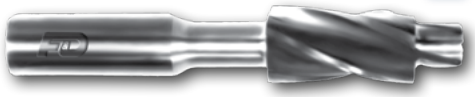
Tool diameter tolerance: +.001"/-0"
Shank diameter tolerance: +0"/-.0005" (Straight shank)

Tapered Shank - List No. 375C

Straight Shank - List No. 376C

Tool Diameter		Min. Cut Diam.	Pilot Hole Diam.	OAL	STRAIGHT SHANK			TAPER SHANK		
Decimal	Frac.				Shank Diam.	3 Flute EDI Number	4 Flute EDI Number	Morse Taper	3 Flute EDI Number	4 Flute EDI Number
.2500	1/4	.114	3/32	3 13/16	15/64	57001	-	1	57101	-
.2812	9/32	.114	3/32	3 13/16	17/64	57002	-	1	57102	-
.3125	5/16	.114	3/32	3 13/16	19/64	57003	-	1	57103	-
.3438	11/32	.114	3/32	3 13/16	5/16	57004	-	1	57104	-
.3750	3/8	.182	5/32	4 1/16	5/16	57005	-	1	57105	-
.4062	13/32	.182	5/32	4 1/16	3/8	57006	-	1	57106	-
.4375	7/16	.182	5/32	4 1/16	3/8	57007	-	1	57107	-
.4688	15/32	.228	3/16	4 5/16	7/16	57008	-	1	57108	-
.5000	1/2	.228	3/16	4 5/16	7/16	57009	57009A	1	57109	57109A
.5312	17/32	.228	3/16	4 5/16	1/2	57010	57010A	1	57110	57110A
.5625	9/16	.228	3/16	4 5/16	1/2	57011	57011A	1	57111	57111A
.5938	19/32	.228	3/16	5 1/8	1/2	57012	57012A	2	57112	57112A
.6250	5/8	.228	3/16	5 1/8	1/2	57013	57013A	2	57113	57113A
.6562	21/32	.228	3/16	5 1/8	1/2	57014	57014A	2	57114	57114A
.6875	11/16	.228	3/16	5 1/8	1/2	57015	57015A	2	57115	57115A
.7188	23/32	.290	1/4	5 3/8	1/2	57016	57016A	2	57116	57116A
.7500	3/4	.290	1/4	5 3/8	1/2	57017	57017A	2	57117	57117A
.7812	25/32	.290	1/4	5 3/8	5/8	57018	57018A	2	57118	57118A
.8125	13/16	.290	1/4	5 3/8	5/8	57019	57019A	2	57119	57119A
.8438	27/32	.290	1/4	5 3/8	3/4	57020	57020A	2	57120	57120A
.8750	7/8	.290	1/4	5 3/8	3/4	57021	57021A	2	57121	57121A
.9062	29/32	.290	1/4	6 1/8	3/4	57022	57022A	3	57122	57122A
.9375	15/16	.290	1/4	6 1/8	3/4	57023	57023A	3	57123	57123A
.9688	31/32	.353	5/16	6 3/8	3/4	57024	57024A	3	57124	57124A
1.0000	1	.353	5/16	6 3/8	3/4	57025	57025A	3	57125	57125A
1.0625	1 1/16	.353	5/16	6 3/8	3/4	57026	57026A	3	57126	57126A
1.1250	1 1/8	.353	5/16	6 3/8	1	57027	57027A	3	57127	57127A
1.1875	1 3/16	.353	5/16	6 3/8	1	57028	57028A	3	57128	57128A
1.2500	1 1/4	.426	3/8	6 5/8	1	-	57029	3	-	57129
1.3125	1 5/16	.426	3/8	6 5/8	1	-	57030	3	-	57130
1.3750	1 3/8	.426	3/8	6 5/8	1	-	57031	3	-	57131
1.4375	1 7/16	.426	3/8	7 7/8	1 1/4	-	57032	4	-	57132
1.5000	1 1/2	.426	3/8	7 7/8	1 1/4	-	57033	4	-	57133
1.5625	1 9/16	.489	7/16	8 1/8	1 1/4	-	57034	4	-	57134
1.6250	1 5/8	.489	7/16	8 1/8	1 1/4	-	57035	4	-	57135
1.6875	1 11/16	.489	7/16	8 1/8	1 1/4	-	57036	4	-	57136
1.7500	1 3/4	.489	7/16	8 1/8	1 1/4	-	57037	4	-	57137
1.8125	1 13/16	.489	7/16	8 1/8	1 1/2	-	57038	4	-	57138
1.8750	1 7/8	.489	7/16	8 1/8	1 1/2	-	57039	4	-	57139
1.9375	1 15/16	.489	7/16	8 1/8	1 1/2	-	57040	4	-	57140
2.0000	2	.551	1/2	8 3/8	1 1/2	-	57041	4	-	57141





CONTINUOUS PILOT COUNTERBORES

Catalog EDI-Number	For U.S.S Cap Screw	Counter-bore Dia.	Pilot Dia.	Shank Dia.	OAL
26240	No. 6	.242	.150	7/32	3
26241	No. 8	.286	.178	1/4	3
26242	No. 10	.332	.204	5/16	3 1/2
26243	1/4	13/32	9/32	3/8	4 3/4
26244	5/16	1/2	11/32	7/16	5
26245	3/8	19/32	13/32	1/2	5 1/2
26246	7/16	11/16	15/32	1/2	6
26247	1/2	25/32	17/32	1/2	6 1/4
26248	9/16	13/16	9/16	3/4	6 1/2
26249	5/8	31/32	21/32	3/4	6 1/2
26250	3/4	1 3/16	13/16	1	7 1/8

SOLID PILOT COUNTERBORES

List No. CB269

For U.S.S Cap Screw	Shank Dia.	OAL	CB Dia.	EDI #	Pilot Dia.	EDI #	Pilot Dia.	EDI #	Pilot Dia.
No. 6	3/8	3 1/4	.242	26270	.136	26281	.150	--	--
No. 8	3/8	3 1/4	.290	26271	.162	26282	.178	--	--
No. 10	3/8	3 1/4	.332	26272	.188	26283	.204	--	--
1/4	3/8	3 1/2	13/32	26273	1/4	26284	17/64	26292	9/32
5/16	3/8	3 3/4	1/2	26274	5/16	26285	21/64	26293	11/32
3/8	1/2	4	19/32	26275	3/8	26286	25/64	26294	13/32
7/16	1/2	4 1/2	11/16	26276	7/16	26287	29/64	26295	15/32
1/2	3/4	5	25/32	26277	1/2	26288	33/64	26296	17/32
9/16	3/4	6 1/2	7/8	26278	9/16	26289	37/64	26297	19/32
5/8	3/4	6 1/2	1	26279	5/8	26290	41/64	26298	21/32
3/4	3/4	7 1/8	1 3/16	26280	3/4	26291	49/64	26299	25/32

CAP SCREW COUNTERBORES

Head and Body

Catalog EDI #	Screw Dia.	Counterbore Dia.	Pilot Shank	Shank Dia.	OAL
25991-CC408	1/4	13/32	1/4	3/8	5 3/4
25992-CC410	5/16	1/2	5/16	7/16	6 1/8
25993-CC412	3/8	19/32	3/8	9/16	6 1/2
25994-CC414	7/16	11/16	7/16	5/8	7
25995-CC418	1/2	25/32	1/2	3/4	7 1/4

STRAIGHT SHANK
HIGH SPEED STEEL
List No. CPS376

AIRCRAFT COUNTERBORES

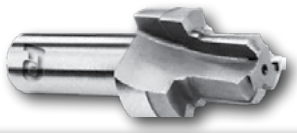
Short Length

Body Dia.	Shank Dia.	For Pilot Shank Dia.	OAL	EDI #
1/4	1/4	3/32	2 3/8	20201
9/32	1/4	3/32	2 3/8	20202
5/16	1/4	3/32	2 3/8	20203
11/32	1/4	3/32	2 3/8	20204
3/8	1/4	3/32	2 3/8	20205
13/32	1/4	1/8	2 13/16	20206
7/16	1/4	1/8	2 13/16	20207
15/32	1/4	1/8	2 13/16	20208
1/2	1/4	1/8	2 13/16	20209
17/32	1/4	1/8	2 13/16	20210
9/16	1/4	1/8	2 13/16	20211
19/32	1/4	1/8	2 13/16	20212
5/8	1/4	1/8	2 13/16	20213
21/32	1/4	3/16	3 1/8	20214
11/16	1/4	3/16	3 1/8	20215
23/32	1/4	3/16	3 1/8	20216
3/4	1/4	3/16	3 1/8	20217
25/32	1/4	3/16	3 1/8	20218
13/16	1/4	3/16	3 1/8	20219
27/32	1/4	3/16	3 1/8	20219A
7/8	1/4	3/16	3 1/8	20220
29/32	1/4	3/16	3 1/8	20220A
15/16	1/4	3/16	3 1/8	20221
31/32	1/4	3/16	3 1/8	20221A
1	1/4	3/16	3 1/8	20222

PORT CONTOUR CUTTERS

CARBIDE TIPPED

S.A.E. Ports - MS 16142 - J514F - J1926 - Straight Shank
For Non-Ferrous Materials and Cast Irons
For Steels



TUBE		DIMENSIONS									For N-F, Cast Irons EDI #	For Steels EDI #
No.	Size	Thread Size	DIAMETER			Sealing Seat Angle	LENGTH					
			Reamer	Spotface	Shank		Shank	Reamer	Head	OAL		
2	1/8	5/16-24	.2720	.6820	.5000	12°	2	.4730	1 1/8	3 1/8	10250	10262
3	3/16	3/8-24	.3350	.7600	.5000	12°	2	.4730	1 1/4	3 1/4	10251	10263
4	1/4	7/16-20	.3890	.8380	.5000	12°	2	.5520	1 1/4	3 1/4	10252	10264
5	5/16	1/2-20	.4520	.9160	.5000	12°	2	.5520	1 1/4	3 1/4	10253	10265
6	3/8	9/16-18	.5090	.9790	.5000	12°	2	.6140	1 1/4	3 1/4	10254	10266
8	1/2	3/4-16	.6890	1.1980	.7500	15°	2	.6930	1 3/8	3 3/8	10255	10267
10	5/8	7/8-14	.8060	1.3540	.7500	15°	2	.7860	1 5/8	3 5/8	10256	10268
12	3/4	1 1/16-12	9810	1.6350	.7500	15°	2 1/4	.9110	1 7/8	4 1/8	10257	10269
14	7/8	1 3/16-12	1.1060	1.7750	.7500	15°	2 1/4	.9110	1 7/8	4 1/8	10258	10270
16	1	1 5/16-12	1.2310	1.9200	.7500	15°	2 1/4	.9110	1 7/8	4 1/8	10259	10271
20	1 1/4	1 5/8-12	1.5440	2.2800	1.0000	15°	2 1/4	.9110	2	4 1/4	10260	10272
24	1 1/2	1 7/8-12	1.7940	2.5700	1.0000	15°	2 1/4	.9110	2	4 1/4	10261	10273
32	2	2 1/2-12	2.4190	3.4900	1.0000	15°	2 1/4	.9110	2 1/4	4 1/2	10261A	10274

S.A.E. Ports - MS 16142 - J514F - J1926 - Taper Shank
For Non-Ferrous Materials and Cast Irons
For Steels

TUBE		DIMENSIONS								For N-F, Cast Irons EDI #	For Steels EDI #
No.	Size	Thread Size	DIAMETER		Taper Shank #	Sealing Seat Angle	LENGTH				
			Reamer	Spotface			Reamer	Head	OAL		
2	1/8	5/16-24	.2720	.6820	2	12	.4730	1 5/8	4 3/4	10201	10214
3	3/16	3/8-24	.3350	.7600	2	12°	.4730	1 5/8	4 3/4	10202	10215
4	1/4	7/16-20	.3890	.8380	2	12°	.5520	1 5/8	4 3/4	10203	10216
5	5/16	1/2-20	.4520	.9160	2	12°	.5520	1 5/8	4 3/4	10204	10217
6	3/8	9/16-18	.5090	.9790	2	12°	.6140	1 5/8	4 3/4	10205	10218
8	1/2	3/4-16	.6890	1.1980	3	15°	.6930	1 3/4	5 5/8	10206	10219
10	5/8	7/8-14	.8060	1.3540	3	15°	.7860	1 7/8	5 3/4	10207	10220
12	3/4	1 1/16-12	.9810	1.635	3	15°	.9110	2	5 7/8	10208	10221
14	7/8	1 3/16-12	1.1060	1.7750	3	15°	.9110	2	5 7/8	10209	10222
16	1	1 5/16-12	1.2310	1.9200	3	15°	.9110	2	5 7/8	-	10223
20	1 1/4	1 5/8-12	1.5440	2.2800	4	15°	.9110	2 1/4	7 1/8	10211	10224
24	1 1/2	1 7/8-12	1.7940	2.5700	4	15°	.9110	2 1/4	7 1/8	10212	10225
32	2	2 1/2-12	2.4190	3.4900	4	15°	.9110	2 1/4	7 1/8	10213	10226

S.A.E. Ports - MS 16142 - J514F - J1926 - Extra Long Reamer - Taper Shank
For Non-Ferrous Materials and Cast Irons
For Steels

TUBE		DIMENSIONS								For N-F, Cast Irons EDI #	For Steels EDI #
No.	Size	Thread Size	DIAMETER		Taper Shank #	Sealing Seat Angle	LENGTH				
			Reamer	Spotface			Reamer	Head	OAL		
2	1/8	5/16-24	.2720	.6820	2	12°	.5800	1 3/4	4 7/8	10352	10365
3	3/16	3/8-24	.3350	.7600	2	12°	.5800	1 3/4	4 7/8	10353	10366
4	1/4	7/16-20	.3890	.8380	2	12°	.6900	1 3/4	4 7/8	10354	10367
5	5/16	1/2-20	.4520	.9160	2	12°	.6900	1 3/4	4 7/8	10355	10368
6	3/8	9/16-18	.5090	.9790	2	12°	.7500	1 3/4	4 7/8	10356	10369
8	1/2	3/4-16	.6890	1.1980	3	15°	.8400	2	5 7/8	10357	10370
10	5/8	7/8-14	.8060	1.3540	3	15°	.9700	2	5 7/8	10358	10371
12	3/4	1 1/16-12	.9810	1.6350	3	15°	1.1250	2 1/4	6 1/8	10359	10372
14	7/8	1 3/16-12	1.1060	1.7750	3	15°	1.1250	2 1/4	6 1/8	10360	10373
16	1	1 5/16-12	1.2310	1.9200	3	15°	1.1250	2 1/4	6 1/8	10361	10374
20	1 1/14	1 5/8-12	1.5440	2.2800	4	15°	1.1250	2 1/2	7 3/8	10362	10375
24	1 1/2	1 7/8-12	1.7940	2.5700	4	15°	1.1250	2 1/2	7 3/8	10363	10376
32	2	2 1/2-12	2.4190	3.4900	4	15°	1.1250	2 1/2	7 3/8	10364	10377

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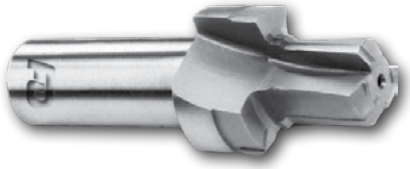
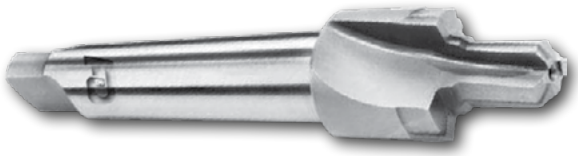
CARBIDE TIPPED



A.N.D. 10050 Integral Reamer Pilot - Straight Shank

For Non-Ferrous Materials and Cast Irons
For Steels

TUBE		DIMENSIONS								For N-F, Cast Irons EDI #	For Steel EDI #
No.	Size	Thread Size	DIAMETER			LENGTH					
			Reamer	Spotface	Shank	Shank	Reamer	Head	Overall		
1	1/16	1/4-28	.2110	.6500	.5000	2	.4500	1	3	10400	10414
2	1/8	5/16-24	.2710	.7420	.5000	2	.6090	1 1/8	3 1/8	10401	10415
3	3/16	3/8-24	.3330	.8050	.5000	2	.6090	1 1/4	3 1/4	10402	10416
4	1/4	7/16-20	.3860	.8880	.5000	2	.6870	1 1/4	3 1/4	10403	10417
5	5/16	1/2-20	.4490	.9500	.5000	2	.6870	1 1/4	3 1/4	10404	10418
6	3/8	9/16-18	.5060	1.0120	.5000	2	.7340	1 1/2	3 1/2	10405	10419
8	1/2	3/4-16	.6870	1.2400	.7500	2	.8590	1 5/8	3 5/8	10406	10420
10	5/8	7/8-14	.8020	1.4150	.7500	2 1/4	.9530	1 7/8	4 1/8	10407	10421
12	3/4	1 1/16-12	.9760	1.6650	.7500	2 1/4	1.0930	2 1/8	4 3/8	10408	10422
16	1	1 5/16-12	1.2260	1.9650	.7500	2 1/4	1.0930	2 1/8	4 3/8	10409	10423
20	1 1/4	1 5/8-12	1.5380	2.3100	1.0000	2 1/4	1.1400	2 1/4	4 1/2	10410	10424
24	1 1/2	1 7/8-12	1.7880	2.6000	1.0000	2 1/4	1.1400	2 1/4	4 1/2	10411	10425
28	1 3/4	2 1/4-12	2.1630	3.0500	1.0000	2 1/4	1.2650	2 1/4	4 1/2	10412	10426
32	2	2 1/2-12	2.4140	3.5200	1.0000	2 1/2	1.3900	2 1/2	5	10413	10427



Metric Port Reamer Pilot Series - Taper Shank

For Non-Ferrous Materials and Cast Irons
For Steels

Thread Size	DIMENSIONS							For N-F, Cast Irons EDI #	For Steel EDI #
	DIAMETER		Taper Shank #	Sealing Seat Angle	LENGTH				
	Reamer	Spotface			Reamer	Head	Overall		
M 8X1	.2770	.6690	2	12°	.5510	1 3/4	4 7/8	10428	10441
M 10X1	.3560	.7870	2	12°	.5510	1 3/4	4 7/8	10429	10442
M 12X1.5	.4150	.8660	2	15°	.6610	1 3/4	4 7/8	10430	10443
M 14X1.5	.4930	.9840	2	15°	.7200	1 3/4	4 7/8	10431	10444
M 16X1.5	.5720	1.0630	2	15°	.7200	1 3/4	4 7/8	10432	10445
M 18X1.5	.6510	1.1420	3	15°	.8110	1 7/8	5 3/4	10433	10446
M 20X1.5	.7300	1.2600	3	15°	.6890	2	5 7/8	10434	10447
M 22X1.5	.8080	1.3390	3	15°	.9370	2	5 7/8	10435	10448
M 27X2	.9850	1.5750	3	15°	1.0940	2 1/8	6	10436	10449
M 33X2	1.2210	1.8110	3	15°	1.0940	2 1/8	6	10437	10450
M 42X2	1.5760	2.2050	3	15°	1.0940	2 1/8	6	10438	10451
M 48X2	1.8120	2.5980	4	15°	1.0940	2 1/8	7	10439	10452
M 60X2	2.2840	2.9920	4	15°	1.0940	2 1/8	7	10440	10453

PORT CONTOUR CUTTERS

ISO6149-1 Metric Port Without I.D. Groove - Straight Shank

For Non-Ferrous Materials and Cast Irons
For Steels

Thread Size	DIMENSIONS									For N-F, Cast Iron EDI #	For Steel EDI #
	DIAMETER			No. of Flts.	Sealing Seat Angle	LENGTH					
	Reamer	Spotface	Shank			Shank	Reamer	Head	Overall		
M 8X1	.2770	.6690	.5000	3	12°	2	.4530	1 1/8	3 1/8	10602	10615
M 10X1	.3560	.7870	.5000	3	12°	2	.4530	1 1/4	3 1/4	10603	10616
M 12X1.5	.4150	.9060	.5000	3	15°	2	.5510	1 1/4	3 1/4	10604	10617
M 14X1.5	.4930	.9840	.5000	3	15"	2	.5510	1 1/4	3 1/4	10605	10618
M 16X1.5	.5720	1.1020	.5000	3	15°	2	.6100	1 1/4	3 1/4	10606	10619
M 18X1.5	.6510	1.1810	.7500	3	15"	2	.6690	1 3/8	3 3/8	10607	10620
M 20X1.5	.7300	1.2600	.7500	3	15°	2	.6890	1 3/8	3 3/8	10608	10621
M 22X1.5	.8080	1.3390	.7500	3	15°	2	.7090	1 5/8	3 5/8	10609	10622
M 27X2	.9850	1.5750	.7500	3	15°	2 1/4	.8660	1 7/8	4 1/8	10610	10623
M 33X2	1.2210	1.9290	.7500	3	15°	2 1/4	.8660	1 7/8	4 1/8	10611	10624
M 42X2	1.5760	2.3620	1.0000	3	15°	2 1/4	.8860	1 7/8	4 1/8	10612	10625
M 48X2	1.8120	2.5890	1.0000	4	15°	2 1/4	.9840	2	4 1/4	10613	10626
M 60X2	2.2840	2.9920	1.0000	4	15°	2 1/4	1.0830	2	4 1/4	10614	10627

MS 33649 Integral Reamer Pilot - Straight Shank

For Non-Ferrous Materials and Cast Irons
For Steels

TUBE		DIMENSIONS								For N-F, Cast Iron EDI #	For Steel EDI #
No.	Size	Thread Size	DIAMETER			LENGTH					
			Reamer	Spotface	Shank	Shank	Reamer	Head	Overall		
1	1/16	1/4-28	.2150	.6500	.5000	2	.4070	1	3	10630	10649
2	1/8	5/16-24	.2750	.7420	.5000	2	.5820	1 1/8	3 1/8	10631	10650
3	3/16	3/8-24	.3390	.8050	.5000	2	.5880	1 1/4	3 1/4	10632	10651
4	1/4	7/16-20	.3930	.8880	.5000	2	.6610	1 1/4	3 1/4	10633	10652
5	5/16	1/2-20	.4550	.9500	.5000	2	.6610	1 1/4	3 1/4	10634	10653
6	3/8	9/16-18	.5120	1.0120	.5000	2	.7140	1 1/2	3 1/2	10635	10654
7	7/16	5/8-18	.5750	1.1050	.5000	2	.7300	1 1/2	3 1/2	10636	10655
8	1/2	3/4-16	.6930	1.2400	.7500	2	.8390	1 5/8	3 5/8	10637	10656
9	9/16	13/16-16	.7560	1.3020	.7500	2	.8550	1 5/8	3 5/8	10638	10657
10	5/8	7/8-14	.8100	1.4150	.7500	2 1/4	.9350	1 7/8	4 1/8	10639	10658
11	11/16	1-12	.9250	1.6020	.7500	2 1/4	1.0690	2 1/8	4 3/8	10640	10659
12	3/4	1 1/16-12	.9870	1.6650	.7500	2 1/4	1.0690	2 1/8	4 3/8	10641	10660
14	7/8	1 3/16-12	1.1120	1.7900	.7500	2 1/4	1.0690	2 1/8	4 3/8	10642	10661
16	1	1 5/16-12	1.2370	1.9650	.7500	2 1/4	1.0690	2 1/8	4 3/8	10643	10662
18	1 1/8	1 1/2-12	1.4250	2.0900	.7500	2 1/4	1.1210	2 1/4	4 1/2	10644	10663
20	1 1/4	1 5/8-12	1.5500	2.3100	1.0000	2 1/4	1.1210	2 1/4	4 1/2	10645	10664
24	1 1/2	1 7/8-12	1.8000	2.6000	1.0000	2 1/4	1.1320	2 1/4	4 1/2	10646	10665
28	1 3/4	2 1/4-12	2.1750	3.0500	1.0000	2 1/4	1.2480	2 1/4	4 1/2	10647	10666
32	2	2 1/2-12	2.4250	3.5200	1.0000	2 1/4	1.3730	2 1/2	5	10648	10667

THREE GROOVE COUNTERSINKS
HIGH SPEED STEEL

Regularly furnished with an included angle of 82 degrees; and with straight shanks in all sizes, 1/2 inch diameter, 2 inches long.

Catalog EDI-Number	Diameter	Overall Length	Flute Length	Length Body (in)
27791-X312	3/8	4 3/8	2 1/8	2 3/8
27792-X318	1/2	4 1/2	2 1/4	2 1/2
27793-X328	5/8	4 5/8	2 3/8	2 5/8
27794-X332	3/4	4 3/4	2 1/2	2 3/4
27795-X342	7/8	4 7/8	2 5/8	2 7/8
27796-X352	1	5	2 3/4	3

MACHINE COUNTERSINKS
HIGH SPEED STEEL

Utilized in countersinking for screwheads and for centering lathe work. Furnished with 60º and 82º angles.

60°: Catalog EDI-Number	82°: Catalog EDI-Number	Dia.	Shank Diameter	Overall Length
27861-X518-60	27866-X518-82	1/2	1/2	3 1/2
27862-X528-60	27867-X528-82	5/8	1/2	3 3/4
27863-X532-60	27868-X532-82	3/4	1/2	3 3/4
27864-X542-60	27869-X542-82	7/8	1/2	4
27865-X552-60	27870-X552-82	1	1/2	4 1/4

SINGLE FLUTE COUNTERSINKS
HIGH SPEED STEEL

Dia.	60°: Catalog EDI-Number	82°: Catalog EDI-Number	90°: Catalog EDI-Number	100°: Catalog EDI-Number	120°: Catalog EDI-Number
1/4	26401-X110	26402-X110	26403-X110	26404-X110	26405-X110
3/8	26406-X112	26407-X112	26408-X112	26409-X112	26410-X112
1/2	26411-X114	26412-X114	26413-X114	26414-X114	26415-X114
5/8	26416-X116	26417-X116	26418-X116	26419-X116	26420-X116
3/4	26421-X118	26422-X118	26423-X118	26424-X118	26425-X118
1	26426-X120	26427-X120	26428-X120	26429-X120	26430-X120

CENTER REAMER
HIGH SPEED STEEL

Furnished either with 60º, 82º 90º, 100º, 110º, included angle.

Catalog EDI-Number	Degree	Dia	Shank	Length Shank	Overall Length
27811-X410	60º	1/4	3/16	3/4	1 1/2
27812-X410	82º	1/4	3/16	3/4	1 1/2
27813-X410	90º	1/4	3/16	3/4	1 1/2
27814-X410	100º	1/4	3/16	3/4	1 1/2
27815-X410	110º	1/4	3/16	3/4	1 1/2
27816-X412	60º	3/8	1/4	7/8	1 3/4
27817-X412	82º	3/8	1/4	7/8	1 3/4
27818-X412	90º	3/8	1/4	7/8	1 3/4
27819-X412	100º	3/8	1/4	7/8	1 3/4
27820-X412	110º	3/8	1/4	7/8	1 3/4
27821-X414	60º	1/2	3/8	1	2
27822-X414	82º	1/2	3/8	1	2
27823-X414	90º	1/2	3/8	1	2
27824-X414	100º	1/2	3/8	1	2
27825-X414	110º	1/2	3/8	1	2
27826-X416	60º	5/8	3/8	1	2 1/4
27827-X416	82º	5/8	3/8	1	2 1/4
27828-X416	90º	5/8	3/8	1	2 1/4
27829-X416	100º	5/8	3/8	1	2 1/4
27830-X416	110º	5/8	3/8	1	2 1/4
27831-X418	60º	3/4	1/2	1 1/4	2 5/8
27832-X418	82º	3/4	1/2	1 1/4	2 5/8
27833-X418	90º	3/4	1/2	1 1/4	2 5/8
27834-X418	100º	3/4	1/2	1 1/4	2 5/8
27835-X418	110º	3/4	1/2	1 1/4	2 5/8
27836-X420	60º	1	1/2	1 1/2	3 1/2
27837-X420	82º	1	1/2	1 1/2	3 1/2
27838-X420	90º	1	1/2	1 1/2	3 1/2
27839-X420	100º	1	1/2	1 1/2	3 1/2
27840-X420	110º	1	1/2	1 1/2	3 1/2

COMBINED DRILLS

COMBINED DRILLS & COUNTERSINKS PLAIN TYPE

HIGH SPEED STEEL

LIST D271
NEW AND OLD STANDARD

Catalog EDI-Number	New Std.	Old Std.	Body Dia.	Drill Dia.
27031	00	-	1/8	.020
27032	01	-	1/8	.025
27033	0	-	1/8	.031
27034	1	A-1	1/8	3/64
27035	-	C-2	13/64	1/16
27036	2	-	3/16	5/64
27037	-	D-1	15/64	5/64
27038	3	-	1/4	7/64
27039	-	E-1	.300	3/32
27040	-	E-2	.300	1/8
27041	4	-	5/16	1/8
27042	-	F-1	7/16	5/32
27043	5	F-2	7/16	3/16
27044	6	J-1	1/2	7/32
27045	-	J-2	1/2	9/32
27046	-	M-1	5/8	7/32
27047	7		5/8	1/4
27048	-	M-2	5/8	9/32
27049	-	N-1	3/4	1/4
27050	8	N-2	3/4	5/16

COMBINED DRILLS & COUNTERSINKS BELL TYPE

HIGH SPEED STEEL

LIST D272
NEW AND OLD STANDARD

Catalog EDI-Number	New Std.	Old Std.	Body Dia.	Drill dia.
27071	11	A-1	1/8	3/64
27072	-	C-2	13/64	1/16
27073	12	-	3/16	1/16
27074	-	D-1	15/64	5/64
27075	13	-	1/4	3/32
27076	-	E-1	.300	3/32
27077	-	E-2	.300	1/8
27078	14	-	5/16	7/64
27079	15	F-1	7/16	5/32
27080	-	F-2	7/16	3/16
27081	16	-	1/2	3/16
27082	-	J-1	1/2	7/32
27083	-	J-2	1/2	9/32
27084	17	M-1	5/8	7/32
27085	-	M-2	5/8	9/32
27086	18	N-1	3/4	1/4
27087	-	N-2	3/4	5/16

COMBINED DRILLS & COUNTERSINKS PLAIN TYPE

HIGH SPEED STEEL

LIST D270
STANDARD LONG SERIES

Catalog EDI-Number	New Std.	OAL	Body Dia.	Drill Dia.
26991	1	3	1/8	3/64
26992	1	4	1/8	3/64
26993	1	5	1/8	3/64
26994	1	6	1/8	3/64
26995	2	4	3/16	5/64
26996	2	5	3/16	5/64
26997	2	6	3/16	5/64
26998	3	4	1/4	7/64
26999	3	5	1/4	7/64
27000	3	6	1/4	7/64
27001	4	4	5/16	1/8
27002	4	5	5/16	1/8
27003	4	6	5/16	1/8
27004	4 1/2	4	3/8	9/64
27005	4 1/2	5	3/8	9/64
27006	4 1/2	6	3/8	9/64
27007	5	5	7/16	3/16
27008	5	6	7/16	3/16
27009	6	5	1/2	7/32
27010	6	6	1/2	7/32
27011	7	6	5/8	1/4
27012	8	6	3/4	5/16

SOLID CARBIDE PLAIN TYPE 60°

Catalog EDI-Number	New Std.	Drill Dia.	Body Dia.	Drill Length	OAL
27015	0	1/32	1/8	1/32	1 1/4
27016	1	3/64	1/8	3/64	1 1/4
27017	2	5/64	3/16	5/64	1 7/8
27018	3	7/64	1/4	7/64	2
27019	4	1/8	5/16	1/8	2 1/8
27020	5	3/16	7/16	3/16	2 3/4
27021	6	7/32	1/2	7/32	3
27022	7	1/4	5/8	1/4	3
27023	8	5/16	3/4	5/16	3

JOBBERS DRILLS - GENERAL PURPOSE STRAIGHT SHANK - HIGH SPEED STEEL

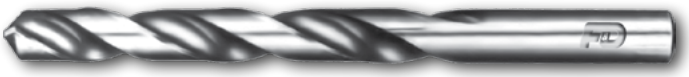
These drills are recommended for the great bulk of drilling operations. The helix angle and flute construction have been developed from experience on many different materials and have been found most effective for general purpose drilling.

Catalog EDI-Number	Fraction Size	Decimal Equiv.	OAL	Flute Length
25301	1/64	.0156	3/4	3/16
25302	1/32	.0312	1 3/8	1/2
25303	3/64	.0469	1 3/4	3/4
25304	1/16	.0625	1 7/8	7/8
25305	5/64	.0781	2	1
25306	3/32	.0937	2 1/4	1 1/4
25307	7/64	.1094	2 5/8	1 1/2
25308	1/8	.1250	2 3/4	1 5/8
25309	9/64	.1406	2 7/8	1 3/4
25310	5/32	.1562	3 1/8	2
25311	11/64	.1719	3 1/4	2 1/8
25312	3/16	.1875	3 1/2	2 5/16
25313	13/64	.2031	3 5/8	2 7/16
25314	7/32	.2187	3 3/4	2 1/2
25315	15/64	.2344	3 7/8	2 5/8
25316	1/4	.2500	4	2 3/4
25317	17/64	.2656	4 1/8	2 7/8
25318	9/32	.2812	4 1/4	2 15/16
25319	19/64	.2969	4 3/8	3 1/16
25320	5/16	.3125	4 1/2	3 3/16
25321	21/64	.3281	4 5/8	3 5/16
25322	11/32	.3437	4 3/4	3 7/16

No. D220

Catalog EDI-Number	Fraction Size	Decimal Equiv.	OAL	Flute Length
25323	23/64	.3594	4 7/8	3 1/2
25324	3/8	.3750	5	3 5/8
25325	25/64	.3906	5 1/8	3 3/4
25326	13/32	.4062	5 1/4	3 7/8
25327	27/64	.4219	5 3/8	3 15/16
25328	7/16	.4375	5 1/2	4 1/16
25329	29/64	.4531	5 5/8	4 3/16
25330	15/32	.4687	5 3/4	4 5/16
25331	31/64	.4844	5 7/8	4 3/8
25332	1/2	.5000	6	4 1/2
25333	33/64	.5156	6 5/8	4 13/16
25334	17/32	.5312	6 5/8	4 13/16
25335	35/64	.5469	6 5/8	4 13/16
25336	9/16	.5625	6 5/8	4 13/16
25337	37/64	.5781	6 5/8	4 13/16
25338	19/32	.5938	7 1/8	5 3/16
25339	39/64	.6094	7 1/8	5 3/16
25340	5/8	.6250	7 1/8	5 3/16
25341	41/64	.6406	7 1/8	5 3/16
25342	21/32	.6562	7 1/8	5 3/16
25343	43/64	.6719	7 5/8	5 5/8
25344	11/16	.6875	7 5/8	5 5/8

LETTER DRILLS - GENERAL PURPOSE STRAIGHT SHANK -HIGH SPEED STEEL



Catalog EDI-Number	Letter Size	Decimal Equiv.	OAL	Flute Length
25361	A	.2340	3 7/8	2 5/8
25362	B	.2380	4	2 3/4
25363	C	.2420	4	2 3/4
25364	D	.2460	4	2 3/4
25365	E	.2500	4	2 3/4
25366	F	.2570	4 1/8	2 7/8
25367	G	.2610	4 1/8	2 7/8
25368	H	.2660	4 1/8	2 7/8
25369	I	.2720	4 1/8	2 7/8
25370	J	.2770	4 1/8	2 7/8
25371	K	.2810	4 1/4	2 15/16
25372	L	.2900	4 1/4	2 15/16
25373	M	.2950	4 3/8	3 1/16

No. D221

Catalog EDI-Number	Letter Size	Decimal Equiv.	OAL	Flute Length
25374	N	.3020	4 3/8	3 1/16
25375	O	.3160	4 1/2	3 3/16
25376	P	.3230	4 5/8	3 5/16
25377	Q	.3320	4 3/4	3 7/16
25378	R	.3390	4 3/4	3 7/16
25379	S	.3480	4 7/8	3 1/2
25380	T	.3580	4 7/8	3 1/2
25381	U	.3680	5	3 5/8
25382	V	.3770	5	3 5/8
25383	W	.3860	5 1/8	3 3/4
25384	X	.3970	5 1/8	3 3/4
25385	Y	.4040	5 1/4	3 7/8
25386	Z	.4130	5 1/4	3 7/8

WIRE DRILLS - GENERAL PURPOSE
STRAIGHT SHANK - HIGH SPEED STEEL

No. D222

Catalog EDI-Number	Wire Gauge	Decimal Equiv.	OAL	Flute Length
25401	1	.2280	3 7/8	2 5/8
25402	2	.2210	3 7/8	2 5/8
25403	3	.2130	3 3/4	2 1/2
25404	4	.2090	3 3/4	2 1/2
25405	5	.2055	3 3/4	2 1/2
25406	6	.2040	3 3/4	2 1/2
25407	7	.2010	3 5/8	2 7/16
25408	8	.1990	3 5/8	2 7/16
25409	9	.1960	3 5/8	2 7/16
25410	10	.1935	3 5/8	2 7/16
25411	11	.1910	3 1/2	2 5/16
25412	12	.1890	3 1/2	2 5/16
25413	13	.1850	3 1/2	2 5/16
25414	14	.1820	3 3/8	2 3/16
25415	15	.1800	3 3/8	2 3/16
25416	16	.1770	3 3/8	2 3/16
25417	17	.1730	3 3/8	2 3/16
25418	18	.1695	3 1/4	2 1/8
25419	19	.1660	3 1/4	2 1/8
25420	20	.1610	3 1/4	2 1/8
25421	21	.1590	3 1/4	2 1/8
25422	22	.1570	3 1/8	2
25423	23	.1540	3 1/8	2
25424	24	.1520	3 1/8	2
25425	25	.1495	3	1 7/8
25426	26	.1470	3	1 7/8
25427	27	.1440	3	1 7/8
25428	28	.1405	2 7/8	1 3/4
25429	29	.1360	2 7/8	1 3/4
25430	30	.1285	2 3/4	1 5/8
25431	31	.1200	2 3/4	1 5/8
25432	32	.1160	2 3/4	1 5/8
25433	33	.1130	2 5/8	1 1/2
25434	34	.1110	2 5/8	1 1/2
25435	35	.1100	2 5/8	1 1/2
25436	36	.1065	2 1/2	1 7/16
25437	37	.1040	2 1/2	1 7/16
25438	38	.1015	2 1/2	1 7/16
25439	39	.0995	2 3/8	1 3/8
25440	40	.0980	2 3/8	1 3/8

Catalog EDI-Number	Wire Gauge	Decimal Equiv.	OAL	Flute Length
25441	41	.0960	2 3/8	1 3/8
25442	42	.0935	2 1/4	1 1/4
25443	43	.0890	2 1/4	1 1/4
25444	44	.0860	2 1/8	1 1/8
25445	45	.0820	2 1/8	1 1/8
25446	46	.0810	2 1/8	1 1/8
25447	47	.0785	2	1
25448	48	.0760	2	1
25449	49	.0730	2	1
25450	50	.0700	2	1
25451	51	.0670	2	1
25452	52	.0635	1 7/8	7/8
25453	53	.0595	1 7/8	7/8
25454	54	.0550	1 7/8	7/8
25455	55	.0520	1 7/8	7/8
25456	56	.0465	1 3/4	3/4
25457	57	.0430	1 3/4	3/4
25458	58	.0420	1 5/8	11/16
25459	59	.0410	1 5/8	11/16
25460	60	.0400	1 5/8	11/16
25461	61	.0390	1 5/8	11/16
25462	62	.0380	1 1/2	5/8
25463	63	.0370	1 1/2	5/8
25464	64	.0360	1 1/2	5/8
25465	65	.0350	1 1/2	5/8
25466	66	.0330	1 3/8	1/2
25467	67	.0320	1 3/8	1/2
25468	68	.0310	1 3/8	1/2
25469	69	.0292	1 3/8	1/2
25470	70	.0280	1 1/4	3/8
25471	71	.0260	1 1/4	3/8
25472	72	.0250	1 1/8	5/16
25473	73	.0240	1 1/8	5/16
25474	74	.0225	1	1/4
25475	75	.0210	1	1/4
25476	76	.0200	7/8	3/16
25477	77	.0180	7/8	3/16
25478	78	.0160	7/8	3/16
25479	79	.0145	3/4	3/16
25480	80	.0135	3/4	3/16

SHORT LENGTH SCREW MACHINE DRILLS

No. D240

FRACTIONAL SIZES - STRAIGHT SHANK HIGH SPEED STEEL

These drills are primarily used for screw machine applications. The short overall and flute length makes it a more sturdy drill. It is also used for portable drilling, sheet metal, and body work.

Catalog EDI-Number	Fraction Size	Decimal Equiv.	OAL	Flute Length
25501	3/64	.0469	1 5/8	5/8
25502	1/16	.0625	1 5/8	5/8
25503	5/64	.0781	1 3/4	3/4
25504	3/32	.0937	1 13/16	13/16
25505	7/64	.1094	1 13/16	13/16
25506	1/8	.1250	1 15/16	15/16
25507	9/64	.1406	1 15/16	15/16
25508	5/32	.1562	2 1/6	1
25509	11/64	.1719	2 1/8	1 1/16
25510	3/16	.1875	2 3/16	1 1/8
25511	13/64	.2031	2 1/4	1 3/16
25512	7/32	.2187	2 3/8	1 1/4
25513	15/64	.2344	2 7/16	1 5/16
25514	1/4	.2500	2 1/2	1 3/8
25515	17/64	.2656	2 5/8	1 7/16
25516	9/32	.2812	2 11/16	1 1/2
25517	19/64	.2969	2 3/4	1 9/16
25518	5/16	.3125	2 13/16	1 5/8
25519	21/64	.3281	2 15/16	1 11/16
25520	11/32	.3437	3	1 11/16
25521	23/64	.3594	3 1/16	1 3/4
25522	3/8	.3750	3 1/8	1 13/16
25523	25/64	.3906	3 1/4	1 7/8
25524	13/32	.4062	3 5/16	1 15/16
25525	27/64	.4219	3 3/8	2
25526	7/16	.4375	3 7/16	2 1/16
25527	29/64	.4531	3 9/16	2 1/8
25528	15/32	.4687	3 5/8	2 1/8
25529	31/64	.4844	3 11/16	2 3/16
25530	1/2	.5000	3 3/4	2 1/4

SHORT LENGTH SCREW MACHINE DRILLS

No. D240

LETTER DRILLS - STRAIGHT SHANK HIGH SPEED STEEL

These drills are primarily used for screw machine applications. The short overall and flute length makes it a more sturdy drill. It is also used for portable drilling, sheet metal, and body work.

Catalog EDI-Number	Letter Size	Decimal Equiv.	OAL	Flute Length
25551	A	.2340	2 7/16	1 5/16
25552	B	.2380	2 1/2	1 3/8
25553	C	.2420	2 1/2	1 3/8
25554	D	.2460	2 1/2	1 3/8
25555	E	.2500	2 1/2	1 3/8
25556	F	.2570	2 5/8	1 7/16
25557	G	.2610	2 5/8	1 7/16
25558	H	.2660	2 11/16	1 1/2
25559	I	.2720	2 11/16	1 1/2
25560	J	.2770	2 11/16	1 1/2
25561	K	.2810	2 11/16	1 1/2
25562	L	.2900	2 3/4	1 9/16
25563	M	.2950	2 3/4	1 9/16
25564	N	.3020	2 13/16	1 5/8
25565	O	.3160	2 15/16	1 11/16
25566	P	.3230	2 15/16	1 11/16
25567	Q	.3320	3	1 11/16
25568	R	.3390	3	1 11/16
25569	S	.3480	3 1/16	1 3/4
25570	T	.3580	3 1/16	1 3/4
25571	U	.3680	3 1/8	1 13/16
25572	V	.3770	3 1/4	1 7/8
25573	W	.3860	3 1/4	1 7/8
25574	X	.3970	3 5/16	1 15/16
25575	Y	.4040	3 5/16	1 15/16
25576	Z	.4130	3 3/8	2

SHORT LENGTH SCREW MACHINE DRILLS
WIRE GAGE SIZES

No. D242

STRAIGHT SHANK - HIGH SPEED STEEL

Catalog EDI-Number	Wire Gauge	Decimal Equiv.	OAL	Flute Length
25601	1	.2280	2 7/16	1 5/16
25602	2	.2210	2 7/16	1 5/16
25603	3	.2130	2 3/8	1 1/4
25604	4	.2090	2 3/8	1 1/4
25605	5	.2055	2 3/8	1 1/4
25606	6	.2040	2 3/8	1 1/4
25607	7	.2010	2 1/4	1 3/16
25608	8	.1990	2 1/4	1 3/16
25609	9	.1960	2 1/4	1 3/16
25610	10	.1935	2 1/4	1 3/16
25611	11	.1910	2 1/4	1 3/16
25612	12	.1890	2 1/4	1 3/16
25613	13	.1850	2 3/16	1 1/8
25614	14	.1820	2 3/16	1 1/8
25615	15	.1800	2 3/16	1 1/8
25616	16	.1770	2 3/16	1 1/8
25617	17	.1730	2 3/16	1 1/8
25618	18	.1695	2 1/8	1 1/16
25619	19	.1660	2 1/8	1 1/16
25620	20	.1610	2 1/8	1 1/16
25621	21	.1590	2 1/8	1 1/16
25622	22	.1570	2 1/8	1 1/16
25623	23	.1540	2 1/16	1
25624	24	.1520	2 1/16	1
25625	25	.1495	2 1/16	1
25626	26	.1470	2 1/16	1
25627	27	.1440	2 1/16	1
25628	28	.1405	1 15/16	15/16
25629	29	.1360	1 15/16	15/16
25630	30	.1285	1 15/16	15/16
25631	31	.1200	1 7/8	7/8
25632	32	.1160	1 7/8	7/8
25633	33	.1130	1 7/8	7/8
25634	34	.1110	1 7/8	7/8
25635	35	.1100	1 7/8	7/8
25636	36	.1065	1 13/16	13/16
25637	37	.1040	1 13/16	13/16
25638	38	.1015	1 13/16	13/16
25639	39	.0995	1 13/16	13/16
25640	40	.0980	1 13/16	13/16
25641	41	.0960	1 13/16	13/16
25642	42	.0935	1 3/4	3/4
25643	43	.0890	1 3/4	3/4
25644	44	.0860	1 3/4	3/4
25645	45	.0820	1 3/4	3/4
25646	46	.0810	1 3/4	3/4
25647	47	.0785	1 3/4	3/4
25648	48	.0760	1 11/16	11/16
25649	49	.0730	1 11/16	11/16
25650	50	.0700	1 11/16	11/16
25651	51	.0670	1 11/16	11/16
25652	52	.0635	1 11/16	11/16
25653	53	.0595	1 5/8	5/8
25654	54	.0550	1 5/8	5/8
25655	55	.0520	1 5/8	5/8
25656	56	.0465	1 3/8	1/2
25657	57	.0430	1 3/8	1/2
25658	58	.0420	1 3/8	1/2
25659	59	.0410	1 3/8	1/2
25660	60	.0400	1 3/8	1/2

Body Dia.	Overall Length	Flute Length	90°	120°
1/4	2 1/2	3/4	60001	60051
1/4	4	3/4	60002	60052
1/4	6	3/4	60003	60053
3/8	3 1/8	1 1/8	60004	60054
3/8	5	1 1/8	60005	60055
3/8	7	1 1/8	60006	60056
1/2	3 3/4	1 3/8	60007	60057
1/2	6	1 3/8	60008	60058
1/2	8	1 3/8	60009	60059
5/8	4 3/8	1 5/8	60010	60060
5/8	7	1 5/8	60011	60061
5/8	9	1 5/8	60012	60062
3/4	5	1 7/8	60013	60063
3/4	8	1 7/8	60014	60064
3/4	10	1 7/8	60015	60065
1	6	2 1/4	60016	60066
1	8	2 1/4	60017	60067
1	10	2 1/4	60018	60068

SPOTTING DRILLS

90º and 120º point angles - right hand cut.

SILVER & DEMING DRILLS

HIGH SPEED STEEL - RIGHT HAND 6-INCH OVERALL LENGTH

Size of Shank, 1/2" Diameter and 2 1/4" Long

Catalog EDI-Number	Dia	Decimal Equiv.	OAL	Flute Length
25141	1/4	.2500	6	2 7/8
25142	9/32	.2812	6	2 7/8
25143	5/16	.3125	6	2 7/8
25144	11/32	.3438	6	2 7/8
25145	3/8	.3750	6	3
25146	13/32	.4062	6	3
25147	7/16	.4375	6	3
25148	15/32	.4688	6	3
25149	1/2	.5000	6	3
25150	33/64	.5156	6	3
25151	17/32	.5312	6	3
25152	35/64	.5469	6	3
25153	9/16	.5625	6	3
25154	37/64	.5781	6	3
25155	19/32	.5938	6	3
25156	39/64	.6094	6	3
25157	5/8	.6250	6	3
25158	41/64	.6406	6	3
25159	21/32	.6562	6	3
25160	43/64	.6719	6	3
25161	11/16	.6875	6	3
25162	45/64	.7031	6	3
25163	23/32	.7188	6	3
25164	47/64	.7344	6	3
25165	3/4	.7500	6	3
25166	49/64	.7656	6	3
25167	25/32	.7812	6	3
25168	51/64	.7969	6	3
25169	13/16	.8125	6	3
25170	53/64	.8281	6	3
25171	27/32	.8438	6	3
25172	55/64	.8594	6	3
25173	7/8	.8750	6	3
25174	57/64	.8906	6	3
25175	29/32	.9062	6	3
25176	59/64	.9219	6	3
25177	15/16	.9375	6	3
25178	61/64	.9531	6	3
25179	31/32	.9688	6	3
25180	63/64	.9844	6	3
25181	1	1.0000	6	3
25182	1 1/32	1.0312	6	3
25183	1 1/16	1.0625	6	3
25184	1 1/8	1.1250	6	3
25185	1 3/16	1.1875	6	3
25186	1 1/4	1.2500	6	3

COBALT DRILLS - HEAVY DUTY

135° SPLIT POINT - JOBBERS LENGTH

More heavily constructed, size for size, than General Purpose designs for use in the harder, tougher alloy steels of the stainless and manganese types, castings, forgings, and chilled cast iron. These drills can be run approximately 25% faster than those of high speed steel, because of cobalt steel's ability to withstand high cutting temperatures. They should be used in a heavy duty setup with positive power feed, capable of producing heavy, uniform point pressure.

No. D321

Catalog EDI-Number	Dia	Decimal Equiv.	OAL	Flute Length
24251	25/64	.3906	5 1/8	3 3/4
24252	13/32	.4062	5 1/4	3 7/8
24253	27/64	.4219	5 3/8	3 15/16
24254	7/16	.4375	5 1/2	4 1/16
24255	29/64	.4531	5 5/8	4 3/16
24256	15/32	.4687	5 3/4	4 5/16
24257	31/64	.4844	5 7/8	4 3/8
24258	1/2	.5000	6	4 1/2

Same as D321 with a 3/8" shank

No. D320

Catalog EDI-Number	Dia	Decimal Equiv.	OAL	Flute Length
24201	3/64	.0469	1 3/4	3/4
24202	1/16	.0625	1 7/8	7/8
24203	5/64	.0781	2	1
24204	3/32	.0937	2 1/4	1 1/4
24205	7/64	.1094	2 5/8	1 1/2
24206	1/8	.1250	2 3/4	1 5/8
24207	9/64	.1406	2 7/8	1 3/4
24208	5/32	.1562	3 1/8	2
24209	11/64	.1719	3 1/4	2 1/8
24210	3/16	.1875	3 1/2	2 5/16
24211	13/64	.2031	3 5/8	2 7/16
24212	7/32	.2187	3 3/4	2 1/2
24213	15/64	.2344	3 7/8	2 5/8
24214	1/4	.2500	4	2 3/4
24215	17/64	.2656	4 1/8	2 7/8
24216	9/32	.2812	4 1/4	2 15/16
24217	19/64	.2969	4 3/8	3 1/16
24218	5/16	.3125	4 1/2	3 3/16
24219	21/64	.3281	4 5/8	3 5/16
24220	11/32	.3437	4 3/4	3 7/16
24221	23/64	.3594	4 7/8	3 1/2
24222	3/8	.3750	5	3 5/8
24223	25/64	.3906	5 1/8	3 3/4
24224	13/32	.4062	5 1/4	3 7/8
24225	27/64	.4219	5 3/8	3 15/16
24226	7/16	.4375	5 1/2	4 1/16
24227	29/64	.4531	5 5/8	4 3/16
24228	15/32	.4687	5 3/4	4 5/16
24229	31/64	.4844	5 7/8	4 3/8
24230	1/2	.5000	6	4 1/2

DRILLS

STRAIGHT SHANK TAPER LENGTH DRILLS No. D251

FRACTIONAL SIZES - RIGHT HAND
HIGH SPEED STEEL

Catalog EDI-Number	Dia.	Decimal Equiv.	OAL	Flute Length
24721	1/64	.0156	1 1/2	5/16
24722	1/32	.0312	2 1/4	3/4
24723	3/64	.0469	3	1 1/2
24724	1/16	.0625	3	1 1/2
24725	5/64	.0781	3 3/4	2 1/2
24726	3/32	.0938	4 1/4	2 3/4
24727	7/64	.1094	4 5/8	2 3/4
24728	1/8	.1250	5 1/8	2 3/4
24729	9/64	.1406	5 3/8	3
24730	5/32	.1562	5 3/8	3
24731	11/64	.1719	5 3/4	3 3/8
24732	3/16	.1875	5 3/4	3 3/8
24733	13/64	.2031	6	3 5/8
24734	7/32	.2188	6	3 5/8
24735	15/64	.2344	6 1/8	3 3/4
24736	1/4	.2500	6 1/8	3 3/4
24737	17/64	.2656	6 1/4	3 7/8
24738	9/32	.2812	6 1/4	3 7/8
24739	19/64	.2969	6 3/8	4
24740	5/16	.3125	6 3/8	4
24741	21/64	.3281	6 1/2	4 1/8
24742	11/32	.3438	6 1/2	4 1/8
24743	23/64	.3594	6 3/4	4 1/4
24744	3/8	.3750	6 3/4	4 1/4
24745	25/64	.3906	7	4 3/8
24746	13/32	.4062	7	4 3/8
24747	27/64	.4219	7 1/4	4 5/8
24748	7/16	.4375	7 1/4	4 5/8
24749	29/64	.4531	7 1/2	4 3/4
24750	15/32	.4688	7 1/2	4 3/4
24751	31/64	.4844	7 3/4	4 3/4
24752	1/2	.5000	7 3/4	4 3/4
24753	33/64	.5156	8	4 3/4
24754	17/32	.5312	8	4 3/4
24755	35/64	.5469	8 1/4	4 7/8
24756	9/16	.5625	8 1/4	4 7/8
24757	37/64	.5781	8 3/4	4 7/8
24758	19/32	.5938	8 3/4	4 7/8
24759	39/64	.6094	8 3/4	4 7/8
24760	5/8	.6250	8 3/4	4 7/8
24761	41/64	.6406	9	5 1/8
24762	21/32	.6562	9	5 1/8
24763	43/64	.6719	9 1/4	5 3/8
24764	11/16	.6875	9 1/4	5 3/8
24765	45/64	.7031	9 1/2	5 5/8
24766	23/32	.7188	9 1/2	5 5/8

Catalog EDI-Number	Dia.	Decimal Equiv.	OAL	Flute Length
24767	47/64	.7344	9 3/4	5 7/8
24768	3/4	.7500	9 3/4	5 7/8
24769	49/64	.7656	9 7/8	6
24770	25/32	.7812	9 7/8	6
24771	51/64	.7969	10	6 1/8
24772	13/16	.8125	10	6 1/8
24773	53/64	.8281	10	6 1/8
24774	27/32	.8438	10	6 1/8
24775	55/64	.8594	10	6 1/8
24776	7/8	.8750	10	6 1/8
24777	57/64	.8906	10	6 1/8
24778	29/32	.9062	10	6 1/8
24779	59/64	.9219	10 3/4	6 1/8
24780	15/16	.9375	10 3/4	6 1/8
24781	61/64	.9531	11	6 3/8
24782	31/32	.9688	11	6 3/8
24783	63/64	.9844	11	6 3/8
24784	1	1.0000	11	6 3/8
24785	1 1/64	1.0156	11 1/8	6 1/2
24786	1 1/32	1.0312	11 1/8	6 1/2
24787	1 3/64	1.0469	11 1/4	6 5/8
24788	1 1/16	1.0625	11 1/4	6 5/8
24789	1 5/64	1.0781	11 1/2	6 7/8
24790	1 3/32	1.0938	11 1/2	6 7/8
24791	1 7/64	1.1094	11 3/4	7 1/8
24792	1 1/8	1.1250	11 3/4	7 1/8
24793	1 9/64	1.1406	11 7/8	7 1/4
24794	1 5/32	1.1562	11 7/8	7 1/4
24795	1 11/64	1.1719	12	7 3/8
24796	1 3/16	1.1875	12	7 3/8
24797	1 13/64	1.2031	12 1/8	7 1/2
24798	1 7/32	1.2188	12 1/8	7 1/2
24799	1 15/64	1.2344	12 1/2	7 7/8
24800	1 1/4	1.2500	12 1/2	7 7/8
24801	1 9/32	1.2812	14 1/8	8 1/2
24802	1 5/16	1.3125	14 1/4	8 5/8
24803	1 11/32	1.3438	14 3/8	8 3/4
24804	1 3/8	1.3750	14 1/2	8 7/8
24805	1 13/32	1.4062	14 5/8	9
24806	1 7/16	1.4375	14 3/4	9 1/8
24807	1 15/32	1.4688	14 7/8	9 1/4
24808	1 1/2	1.5000	15	9 3/8
24809	1 9/16	1.5625	15 1/4	9 5/8
24810	1 5/8	1.6250	15 5/8	9 7/8
24811	1 3/4	1.7500	16 1/4	10 1/2

TAPER SHANK TWIST DRILLS No. D209
WITH REGULAR SHANKS
HIGH SPEED STEEL

Catalog EDI-Number	Dia.	Taper Shank No.	OAL	Flute Length
24401	1/8	1	5 1/8	1 7/8
24402	9/64	1	5 3/8	2 1/8
24403	5/32	1	5 3/8	2 1/8
24404	11/64	1	5 3/4	2 1/2
24405	3/16	1	5 3/4	2 1/2
24406	13/64	1	6	2 3/4
24407	7/32	1	6	2 3/4
24408	15/64	1	6 1/8	2 7/8
24409	1/4	1	6 1/8	2 7/8
24410	17/64	1	6 1/4	3
24411	9/32	1	6 1/4	3
24412	19/64	1	6 3/8	3 1/8
24413	5/16	1	6 3/8	3 1/8
24414	21/64	1	6 1/2	3 1/4
24415	11/32	1	6 1/2	3 1/4
24416	23/64	1	6 3/4	3 1/2
24417	3/8	1	6 3/4	3 1/2
24418	25/64	1	7	3 5/8
24419	13/32	1	7	3 5/8
24420	27/64	1	7 1/4	3 7/8
24421	7/16	1	7 1/4	3 7/8
24422	29/64	1	7 1/2	4 1/8
24423	15/32	1	7 1/2	4 1/8
24424	31/64	2	8 1/4	4 3/8
24425	1/2	2	8 1/4	4 3/8
24426	33/64	2	8 1/2	4 5/8
24427	17/32	2	8 1/2	4 5/8
24428	35/64	2	8 3/4	4 7/8
24429	9/16	2	8 3/4	4 7/8
24430	37/64	2	8 3/4	4 7/8
24431	19/32	2	8 3/4	4 7/8
24432	39/64	2	8 3/4	4 7/8
24433	5/8	2	8 3/4	4 7/8
24434	41/64	2	9	5 1/8
24435	21/32	2	9	5 1/8
24436	43/64	2	9 1/4	5 3/8
24437	11/16	2	9 1/4	5 3/8
24438	45/64	2	9 1/2	5 5/8
24439	23/32	2	9 1/2	5 5/8
24440	47/64	2	9 3/4	5 7/8
24441	3/4	2	9 3/4	5 7/8

Catalog EDI-Number	Dia.	Taper Shank No.	OAL	Flute Length
24442	49/64	2	9 7/8	6
24443	25/32	2	9 7/8	6
24444	51/64	3	10 3/4	6 1/8
24445	13/16	3	10 3/4	6 1/8
24446	53/64	3	10 3/4	6 1/8
24447	27/32	3	10 3/4	6 1/8
24448	55/64	3	10 3/4	6 1/8
24449	7/8	3	10 3/4	6 1/8
24450	57/64	3	10 3/4	6 1/8
24451	29/32	3	10 3/4	6 1/8
24452	59/64	3	10 3/4	6 1/8
24453	15/16	3	10 3/4	6 1/8
24454	61/64	3	11	6 3/8
24455	31/32	3	11	6 3/8
24456	63/64	3	11	6 3/8
24457	1	3	11	6 3/8
24458	1 1/64	3	11 1/8	6 1/2
24459	1 1/32	3	11 1/8	6 1/2
24460	1 3/64	3	11 1/4	6 5/8
24461	1 1/16	3	11 1/4	6 5/8
24462	1 5/64	4	12 1/2	6 7/8
24463	1 3/32	4	12 1/2	6 7/8
24464	1 7/64	4	12 3/4	7 1/8
24465	1 1/8	4	12 3/4	7 1/8
24466	1 9/64	4	12 7/8	7 1/4
24467	1 5/32	4	12 7/8	7 1/4
24468	1 11/64	4	13	7 3/8
24469	1 3/16	4	13	7 3/8
24470	1 13/64	4	13 1/8	7 1/2
24471	1 7/32	4	13 1/8	7 1/2
24472	1 15/64	4	13 1/2	7 7/8
24473	1 1/4	4	13 1/2	7 7/8
24474	1 17/64	4	14 1/8	8 1/2
24475	1 9/32	4	14 1/8	8 1/2
24476	1 19/64	4	14 1/4	8 5/8
24477	1 5/16	4	14 1/4	8 5/8
24478	1 21/64	4	14 3/8	8 3/4
24479	1 11/32	4	14 3/8	8 3/4
24480	1 23/64	4	14 1/2	8 7/8
24481	1 3/8	4	14 1/2	8 7/8
24482	1 25/64	4	14 5/8	9

TAPER SHANK TWIST DRILLS CONTINUED

No. D209

Catalog EDI-Number	Dia.	Taper Shank No.	OAL	Flute Length
24483	1 13/32	4	14 5/8	9
24484	1 27/64	4	14 3/4	9 1/8
24485	1 7/16	4	14 3/4	9 1/8
24486	1 29/64	4	14 7/8	9 1/4
24487	1 15/32	4	14 7/8	9 1/4
24488	1 31/64	4	15	9 3/8
24489	1 1/2	4	15	9 3/8
24490	1 33/64	5	16 3/8	9 3/8
24491	1 17/32	5	16 3/8	9 3/8
24492	1 35/64	5	16 5/8	9 5/8
24493	1 9/16	5	16 5/8	9 5/8
24494	1 37/64	5	16 7/8	9 7/8
24495	1 19/32	5	16 7/8	9 7/8
24496	1 39/64	5	17	10
24497	1 5/8	5	17	10
24498	1 41/64	5	17 1/8	10 1/8
24499	1 21/32	5	17 1/8	10 1/8
24500	1 43/64	5	17 1/8	10 1/8
24501	1 11/16	5	17 1/8	10 1/8
24502	1 45/64	5	17 1/8	10 1/8
24503	1 23/32	5	17 1/8	10 1/8
24504	1 47/64	5	17 1/8	10 1/8
24505	1 3/4	5	17 1/8	10 1/8
24506	1 25/32	5	17 1/8	10 1/8
24507	1 13/16	5	17 1/8	10 1/8
24508	1 27/32	5	17 1/8	10 1/8
24509	1 7/8	5	17 3/8	10 1/4
24510	1 29/32	5	17 3/8	10 1/4
24511	1 15/16	5	17 3/8	10 1/4
24512	1 31/32	5	17 3/8	10 1/4
24513	2	5	17 3/8	10 1/4
24514	2 1/32	5	17 3/8	10 1/4
24515	2 1/16	5	17 3/8	10 1/4
24516	2 3/32	5	17 3/8	10 1/4
24517	2 1/8	5	17 3/8	10 1/4
24518	2 5/32	5	17 3/8	10 1/4
24519	2 3/16	5	17 3/8	10 1/4
24520	2 7/32	5	17 3/8	10 5/8
24521	2 1/4	5	17 3/8	10 5/8
24522	2 5/16	5	17 3/8	10 5/8
24523	2 3/8	5	17 3/8	10 5/8
24524	2 7/16	5	18 3/4	11 1/4
24525	2 1/2	5	18 3/4	11 1/4
24526	2 9/16	5	19 1/2	11 7/8
24527	2 5/8	5	19 1/2	11 7/8
24528	2 11/16	5	20 3/8	12 3/4
24529	2 3/4	5	20 3/8	12 3/4
24530	2 13/16	5	21 1/8	13 3/8
24531	2 7/8	5	21 1/8	13 3/8
24532	2 15/16	5	21 3/4	14
24533	3	5	21 3/4	14
24534	3 1/16	6	24 1/2	14 5/8
24535	3 1/8	6	24 1/2	14 5/8
24536	3 3/16	6	24 1/2	14 5/8
24537	3 1/4	6	25 1/2	15 1/2
24538	3 5/16	6	25 1/2	15 1/2
24539	3 3/8	6	25 1/2	15 1/2
24540	3 7/16	6	25 1/2	15 1/2
24541	3 1/2	6	26 1/2	16 3/8

TAPER SHANK TWIST DRILLS SHANKS LARGER THAN REGULAR

No. L209

Catalog EDI-Number	Dia.	Taper Shank No.	OAL	Approx. Twist Length
24601	3/8	2	7 3/8	3 1/2
24602	25/64	2	7 1/2	3 5/8
24603	13/32	2	7 1/2	3 5/8
24604	27/64	2	7 3/4	3 7/8
24605	7/16	2	7 3/4	3 7/8
24606	29/64	2	8	4 1/8
24607	15/32	2	8	4 1/8
24608	41/64	3	9 3/4	5 1/8
24609	21/32	3	9 3/4	5 1/8
24610	43/64	3	10	5 3/8
24611	11/16	3	10	5 3/8
24612	45/64	3	10 1/4	5 5/8
24613	23/32	3	10 1/4	5 5/8
24614	47/64	3	10 1/2	5 7/8
24615	3/4	3	10 1/2	5 7/8
24616	49/64	3	10 5/8	6
24617	25/32	3	10 5/8	6
24618	1	4	12	6 3/8
24619	1 1/32	4	12 1/8	6 1/2
24620	1 1/16	4	12 1/4	6 5/8

TAPER SHANK TWIST DRILLS
SHANKS SMALLER THAN REGULAR

HIGH SPEED STEEL

No. S209

Catalog EDI-Number	Dia.	Taper Shank No.	OAL	Flute Length
24651	31/64	1	7 3/4	4 3/8
24652	1/2	1	7 3/4	4 3/8
24653	33/64	1	8	4 5/8
24654	17/32	1	8	4 5/8
24655	35/64	1	8 1/4	4 7/8
24656	9/16	1	8 1/4	4 7/8
24657	51/64	2	10	6 1/8
24658	13/16	2	10	6 1/8
24659	53/64	2	10	6 1/8
24660	27/32	2	10	6 1/8
24661	55/64	2	10	6 1/8
24662	7/8	2	10	6 1/8
24663	57/64	2	10	6 1/8
24664	29/32	2	10	6 1/8
24665	1 5/64	3	11 1/2	6 7/8
24666	1 3/32	3	11 1/2	6 7/8
24667	1 7/64	3	11 3/4	7 1/8
24668	1 1/8	3	11 3/4	7 1/8
24669	1 9/64	3	11 7/8	7 1/4
24670	1 5/32	3	11 7/8	7 1/4
24671	1 11/64	3	12	7 3/8
24672	1 3/16	3	12	7 3/8
24673	1 13/64	3	12 1/8	7 1/2
24674	1 7/32	3	12 1/8	7 1/2
24675	1 15/64	3	12 1/2	7 7/8
24676	1 1/4	3	12 1/2	7 7/8
24677	1 33/64	4	15	9 3/8
24678	1 17/32	4	15	9 3/8
24679	1 35/64	4	15 1/4	9 5/8
24680	1 9/16	4	15 1/4	9 5/8
24681	1 37/64	4	15 1/2	9 7/8
24682	1 19/32	4	15 1/2	9 7/8
24683	1 39/64	4	15 5/8	10
24684	1 5/8	4	15 5/8	10
24685	1 41/64	4	15 3/4	10 1/8
24686	1 21/32	4	15 3/4	10 1/8
24687	1 43/64	4	15 3/4	10 1/8
24688	1 11/16	4	15 3/4	10 1/8
24689	1 45/64	4	15 3/4	10 1/8
24690	1 23/32	4	15 3/4	10 1/8
24691	1 47/64	4	16 1/4	10 3/8
24692	1 3/4	4	16 1/4	10 3/8
24693	1 25/32	4	16 1/4	10 3/8
24694	1 13/16	4	16 1/4	10 3/8
24695	1 27/32	4	16 1/4	10 3/8
24696	1 7/8	4	16 1/2	10 1/2
24697	1 29/32	4	16 1/2	10 1/2
24698	1 15/16	4	16 5/8	10 5/8
24699	1 31/32	4	16 5/8	10 5/8
24700	2	4	16 5/8	10 5/8
24701	3 1/8	5	22	14 1/4
24702	3 1/4	5	23	15 1/4
24703	3 1/2	5	24	16 1/4

MASONRY DRILLS
FAST SPIRAL - STANDARD LENGTH

CARBIDE TIPPED
For drillling brick, concrete, plaster, etc

No. D88

Catalog EDI-Number	Dia. Inches	OAL	Shank Dia.
25211	1/8	3	1/8
25212	11/64	3	11/64
25213	3/16	3	3/16
25214	15/64	4	15/64
25215	1/4	4	1/4
25216	1/4	6	1/4
25217	9/32	4	1/4
25218	9/32	6	1/4
25219	5/16	4	1/4
25220	5/16	6	1/4
25221	3/8	4	1/4
25222	3/8	6	1/4
25223	7/16	4	1/4
25224	7/16	6	1/4
25225	1/2	4	1/4
25226	1/2	6	3/8
25227	9/16	6	3/8
25228	5/8	6	1/2
25229	11/16	6	1/2
25230	3/4	6	1/2
25231	7/8	6	1/2
25232	1	6	1/2

TAPER SHANK CORE DRILLS
HIGH SPEED STEEL

Used to enlarge cored, drilled, or punched holes. They will not drill solid metal.

THREE FLUTE - No. D211

Catalog EDI-Number	Dia	Morse Taper Shank	Flute Length	OAL
24831	1/4	1	2 7/8	6 1/8
24832	9/32	1	3	6 1/4
24833	5/16	1	3 1/8	6 3/8
24834	11/32	1	3 1/4	6 1/2
24835	3/8	1	3 1/2	6 3/4
24836	13/32	1	3 5/8	7
24837	7/16	1	3 7/8	7 1/4
24838	15/32	1	4 1/8	7 1/2
24839	1/2	2	4 3/8	8 1/4
24840	17/32	2	4 5/8	8 1/2
24841	9/16	2	4 7/8	8 3/4
24842	19/32	2	4 7/8	8 3/4
24843	5/8	2	4 7/8	8 3/4
24844	21/32	2	5 1/8	9
24845	11/16	2	5 3/8	9 1/4
24846	23/32	2	5 5/8	9 1/2

Catalog EDI-Number	Dia	Morse Taper Shank	Flute Length	OAL
24847	3/4	2	5 7/8	9 3/4
24848	25/32	2	6	9 7/8
24849	13/16	3	6 1/8	10 3/4
24850	27/32	3	6 1/8	10 3/4
24851	7/8	3	6 1/8	10 3/4
24852	29/32	3	6 1/8	10 3/4
24853	15/16	3	6 1/8	10 3/4
24854	31/32	3	6 3/8	11
24855	1	3	6 3/8	11
24856	1 1/32	3	6 1/2	11 1/8
24857	1 1/16	3	6 1/2	11 1/8
24858	1 3/32	4	6 7/8	12 1/2
24859	1 1/8	4	7 1/8	12 3/4
24860	1 5/32	4	7 1/4	12 7/8
24861	1 3/16	4	7 3/8	13
24862	1 7/32	4	7 1/2	13 1/8
24863	1 1/4	4	7 7/8	13 1/2

FOUR FLUTE - No. D212

Catalog EDI-Number	Dia	Morse Taper Shank	Flute Length	OAL
24881	1/2	2	4 3/8	8 1/4
24882	17/32	2	4 5/8	8 1/2
24883	9/16	2	4 7/8	8 3/4
24884	19/32	2	4 7/8	8 3/4
24885	5/8	2	4 7/8	8 3/4
24886	21/32	2	5 1/8	9
24887	11/16	2	5 3/8	9 1/4
24888	23/32	2	5 5/8	9 1/2
24889	3/4	2	5 7/8	9 3/4
24890	25/32	2	6	9 7/8
24891	13/16	3	6 1/8	10 3/4
24892	27/32	3	6 1/8	10 3/4
24893	7/8	3	6 1/8	10 3/4
24894	29/32	3	6 1/8	10 3/4
24895	15/16	3	6 1/8	10 3/4
24896	31/32	3	6 3/8	11
24897	1	3	6 3/8	11
24898	1 1/32	3	6 1/2	11 1/8
24899	1 1/16	3	6 1/2	11 1/8
24900	1 3/32	4	6 7/8	12 1/2
24901	1 1/8	4	7 1/8	12 3/4
24902	1 5/32	4	7 1/4	12 7/8
24903	1 3/16	4	7 3/8	13
24904	1 7/32	4	7 1/2	13 1/8
24905	1 1/4	4	7 7/8	13 1/2
24906	1 9/32	4	8	14 1/8
24907	1 5/16	4	8 5/8	14 1/4
24908	1 11/32	4	8 3/4	14 3/8
24909	1 3/8	4	8 7/8	14 1/2
24910	1 13/32	4	9	14 5/8
24911	1 7/16	4	9 1/8	14 3/4
24912	1 15/32	4	9 1/4	14 7/8
24913	1 1/2	4	9 3/8	15

Catalog EDI-Number	Dia	Morse Taper Shank	Flute Length	OAL
24914	1 17/32	5	9 3/8	16 3/8
24915	1 9/16	5	9 5/8	16 5/8
24916	1 19/32	5	9 7/8	16 7/8
24917	1 5/8	5	10	17
24918	1 21/32	5	10 1/8	17 1/8
24919	1 11/16	5	10 1/8	17 1/8
24920	1 23/32	5	10 1/8	17 1/8
24921	1 3/4	5	10 1/8	17 1/8
24922	1 25/32	5	10 1/8	17 1/8
24923	1 13/16	5	10 1/8	17 1/8
24924	1 27/32	5	10 1/8	17 1/8
24925	1 7/8	5	10 3/8	17 3/8
24926	1 29/32	5	10 3/8	17 3/8
24927	1 15/16	5	10 3/8	17 3/8
24928	1 31/32	5	10 3/8	17 3/8
24929	2	5	10 3/8	17 3/8
24930	2 1/32	5	10 3/8	17 3/8
24931	2 1/16	5	10 1/4	17 3/8
24932	2 1/8	5	10 1/4	17 3/8
24933	2 3/16	5	10 1/4	17 3/8
24934	2 1/4	5	10 1/8	17 3/8
24935	2 5/16	5	10 1/8	17 3/8
24936	2 3/8	5	10 1/8	17 3/8
24937	2 7/16	5	11 1/4	18 3/4
24938	2 1/2	5	11 1/4	18 3/4
24939	2 9/16	5	11 7/8	19 1/2
24940	2 5/8	5	11 7/8	19 1/2
24941	2 11/16	5	12 3/4	20 3/8
24942	2 3/4	5	12 3/4	20 3/8
24943	2 13/16	5	13 3/8	21 1/8
24944	2 7/8	5	13 3/8	21 1/8
24945	2 15/16	5	14	21 3/4
24946	3	5	14	21 3/4

STRAIGHT SHANK CORE DRILLS HIGH SPEED STEEL

Used to enlarge a hole previously drilled, cored, or punched. Will not drill solid metal.

D253 THREE FLUTE

Catalog EDI-Number	Dia	Decimal Equiv.	Flute Length	OAL
24971	1/4	.2500	3 3/4	6 1/8
24972	9/32	.2812	3 7/8	6 1/4
24973	5/16	.3125	4	6 3/8
24974	11/32	.3438	4 1/8	6 1/2
24975	3/8	.3750	4 1/4	6 3/4
24976	13/32	.4062	4 3/8	7
24977	7/16	.4375	4 5/8	7 1/4
24978	15/32	.4688	4 3/4	7 1/2
24979	1/2	.5000	4 3/4	7 3/4
24980	17/32	.5312	4 3/4	8
24981	9/16	.5625	4 7/8	8 1/4
24982	19/32	.5938	4 7/8	8 3/4
24983	5/8	.6250	4 7/8	8 3/4
24984	21/32	.6562	5 1/8	9
24985	11/16	.6875	5 3/8	9 1/4
24986	23/32	.7188	5 5/8	9 1/2
24987	3/4	.7500	5 7/8	9 3/4
24988	25/32	.7812	6	9 7/8
24989	13/16	.8125	6 1/8	10
24990	27/32	.8438	6 1/8	10
24991	7/8	.8750	6 1/8	10
24992	29/32	.9062	6 1/8	10
24993	15/16	.9375	6 1/8	10 3/4
24994	31/32	.9688	6 3/8	11
24995	1	1.0000	6 3/8	11
24996	1 1/32	1.0312	6 1/2	11 1/8
24997	1 1/16	1.0625	6 5/8	11 1/4
24998	1 3/32	1.0938	6 7/8	11 1/2
24999	1 1/8	1.1250	7 1/8	11 3/4
25000	1 1/4	1.2500	7 7/8	12 1/2

D254 FOUR FLUTE

Catalog EDI-Number	Dia	Decimal Equiv.	Flute Length	OAL
25083	1/4	.2500	3 3/4	6 1/8
25084	9/32	.2812	3 7/8	6 1/4
25085	5/16	.3125	4	6 3/8
25086	11/32	.3438	4 1/8	6 1/2
25087	3/8	.3750	4 1/4	6 3/4
25088	13/32	.4062	4 3/8	7
25089	7/16	.4375	4 5/8	7 1/4
25090	15/32	.4688	4 3/4	7 1/2
25091	1/2	.5000	4 3/4	7 3/4
25092	17/32	.5312	4 3/4	8
25093	9/16	.5625	4 7/8	8 1/4
25094	19/32	.5938	4 7/8	8 3/4
25095	5/8	.6250	4 7/8	8 3/4
25096	21/32	.6562	5 1/8	9
25097	11/16	.6875	5 3/8	9 1/4
25098	23/32	.7188	5 5/8	9 1/2
25099	3/4	.7500	5 7/8	9 3/4
25100	25/32	.7812	6	9 7/8
25101	13/16	.8125	6 1/8	10
25102	27/32	.8438	6 1/8	10
25103	7/8	.8750	6 1/8	10
25104	29/32	.9062	6 1/8	10
25105	15/16	.9375	6 1/8	10 3/4
25106	31/32	.9688	6 3/8	11
25107	1	1.0000	6 3/8	11
25108	1 1/32	1.0312	6 1/2	11 1/8
25109	1 1/16	1.0625	6 5/8	11 1/4
25110	1 3/32	1.0938	6 7/8	11 1/2
25111	1 1/8	1.1250	7 1/8	11 3/4
25112	1 1/4	1.2500	7 7/8	12 1/2

DRILLS

DRILL SETS - In Indexed Cases

JOBBERS LENGTH GENERAL PURPOSE DRILLS
Straight Shank - High Speed Steel

Catalog EDI-Number	Size Range	Set No.
25251	1/16 to 1/2 by 64THS	29J
25252	1/16 to 1/2 by 32NDS	15J
25253	Nos. 1 to 60	60J
25254	A to Z	26J
25255	1/16 to 1/4 by 64THS	13J
25256	Nos. 61 to 80	20J

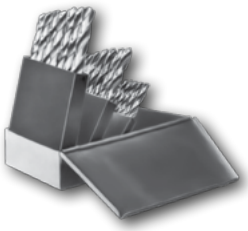
D263
DRILL BLANKS
LETTER SIZES

High Speed Steel
Tolerances: Under 1/4 +.0000-.0005
1/4 and larger +.0000-.0010

Catalog EDI-Number	Letter Size	Decimal Equiv.	OAL
26021	A	.2340	3 7/8
26022	B	.2380	4
26023	C	.2420	4
26024	D	.2460	4
26025	E	.2500	4
26026	F	.2570	4 1/8
26027	G	.2610	4 1/8
26028	H	.2660	4 1/8
26029	I	.2720	4 1/8
26030	J	.2770	4 1/8
26031	K	.2810	4 1/4
26032	L	.2900	4 1/4
26033	M	.2950	4 3/8
26034	N	.3020	4 3/8
26035	O	.3160	4 1/2
26036	P	.3230	4 5/8
26037	Q	.3320	4 3/4
26038	R	.3390	4 3/4
26039	S	.3480	4 7/8
26040	T	.3580	4 7/8
26041	U	.3680	5
26042	V	.3770	5
26043	W	.3860	5 1/8
26044	X	.3970	5 1/8
26045	Y	.4040	5 1/4
26046	Z	.4130	5 1/4

DRILL BLANK SETS - In Indexed Cases

JOBBERS LENGTH - High Speed Steel



Catalog EDI-Number	Size Range	Set No.
25281	1/16 to 1/2 by 64THS	29B
25282	Nos. 1 to 60	15B
25283	A to Z	26B
25284	1/16 to 1/4 by 64THS	13B
25285	Nos. 61 to 80	20B

D260
DRILL BLANKS
FRACTIONAL SIZES

Hardened and Ground - Manufactured without backtaper. - High Speed Steel

Catalog EDI-Number	Fraction Size	Decimal Equiv.	OAL
25691	1/64	.0156	3/4
25692	1/32	.0312	1 3/8
25693	3/64	.0469	1 3/4
25694	1/16	.0625	1 7/8
25695	5/64	.0781	2
25696	3/32	.0937	2 1/4
25697	7/64	.1094	2 5/8
25698	1/8	.1250	2 3/4
25699	9/64	.1406	2 7/8
25700	5/32	.1562	3 1/8
25701	11/64	.1719	3 1/4
25702	3/16	.1875	3 1/2
25703	13/64	.2031	3 5/8
25704	7/32	.2187	3 3/4
25705	15/64	.2344	3 7/8
25706	1/4	.2500	4
25707	17/64	.2656	4 1/8
25708	9/32	.2812	4 1/4
25709	19/64	.2969	4 3/8
25710	5/16	.3125	4 1/2
25711	21/64	.3281	4 5/8
25712	11/32	.3437	4 3/4
25713	23/64	.3594	4 7/8
25714	3/8	.3750	5
25715	25/64	.3906	5 1/8
25716	13/32	.4062	5 1/4
25717	27/64	.4219	5 3/8
25718	7/16	.4375	5 1/2
25719	29/64	.4531	5 5/8
25720	15/32	.4687	5 3/4
25721	31/64	.4844	5 7/8
25722	1/2	.5000	6

D262
DRILL BLANKS
WIRE GAGE SIZES
HIGH SPEED STEEL

Catalog EDI-Number	Wire Gage Size	Decimal Equiv.	OAL
25741	1	.2280	3 7/8
25742	2	.2210	3 7/8
25743	3	.2130	3 3/4
25744	4	.2090	3 3/4
25745	5	.2055	3 3/4
25746	6	.2040	3 3/4
25747	7	.2010	3 5/8
25748	8	.1990	3 5/8
25749	9	.1960	3 5/8
25750	10	.1935	3 5/8
25751	11	.1910	3 1/2
25752	12	.1890	3 1/2
25753	13	.1850	3 1/2
25754	14	.1820	3 3/8
25755	15	.1800	3 3/8
25756	16	.1770	3 3/8
25757	17	.1730	3 3/8
25758	18	.1695	3 1/4
25759	19	.1660	3 1/4
25760	20	.1610	3 1/4
25761	21	.1590	3 1/4
25762	22	.1570	3 1/8
25763	23	.1540	3 1/8
25764	24	.1520	3 1/8
25765	25	.1495	3
25766	26	.1470	3
25767	27	.1440	3
25768	28	.1405	2 7/8
25769	29	.1360	2 7/8
25770	30	.1285	2 3/4
25771	31	.1200	2 3/4
25772	32	.1160	2 3/4
25773	33	.1130	2 5/8
25774	34	.1110	2 5/8
25775	35	.1100	2 5/8
25776	36	.1065	2 1/2
25777	37	.1040	2 1/2
25778	38	.1015	2 1/2
25779	39	.0995	2 3/8
25780	40	.0980	2 3/8

Catalog EDI-Number	Wire Gage Size	Decimal Equiv.	OAL
25781	41	.0960	2 3/8
25782	42	.0935	2 1/4
25783	43	.0890	2 1/4
25784	44	.0860	2 1/8
25785	45	.0820	2 1/8
25786	46	.0810	2 1/8
25787	47	.0785	2
25788	48	.0760	2
25789	49	.0730	2
25790	50	.0700	2
25791	51	.0670	2
25792	52	.0635	1 7/8
25793	53	.0595	1 7/8
25794	54	.0550	1 7/8
25795	55	.0520	1 7/8
25796	56	.0465	1 3/4
25797	57	.0430	1 3/4
25798	58	.0420	1 5/8
25799	59	.0410	1 5/8
25800	60	.0400	1 5/8
25801	61	.0390	1 5/8
25802	62	.0380	1 1/2
25803	63	.0370	1 1/2
25804	64	.0360	1 1/2
25805	65	.0350	1 1/2
25806	66	.0330	1 3/8
25807	67	.0320	1 3/8
25808	68	.0310	1 3/8
25809	69	.0292	1 3/8
25810	70	.0280	1 1/4
25811	71	.0260	1 1/4
25812	72	.0250	1 1/8
25813	73	.0240	1 1/8
25814	74	.0225	1
25815	75	.0210	1
25816	76	.0200	7/8
25817	77	.0180	7/8
25818	78	.0160	7/8
25819	79	.0145	3/4
25820	80	.0135	3/4

D266
REAMER BLANKS
LETTER SIZES

Tolerances:
All sizes +.0002-.0000

Catalog EDI-Number	Letter Size	Decimal Equiv.	OAL
26071	A	.2340	3 7/8
26072	B	.2380	4
26073	C	.2420	4
26074	D	.2460	4
26075	E	.2500	4
26076	F	.2570	4 1/8
26077	G	.2610	4 1/8
26078	H	.2660	4 1/8
26079	I	.2720	4 1/8
26080	J	.2770	4 1/8
26081	K	.2810	4 1/4
26082	L	.2900	4 1/4
26083	M	.2950	4 3/8

Catalog EDI-Number	Letter Size	Decimal Equiv.	OAL
26084	N	.3020	4 3/8
26085	O	.3160	4 1/2
26086	P	.3230	4 5/8
26087	Q	.3320	4 3/4
26088	R	.3390	4 3/4
26089	S	.3480	4 7/8
26090	T	.3580	4 7/8
26091	U	.3680	5
26092	V	.3770	5
26093	W	.3860	5 1/8
26094	X	.3970	5 1/8
26095	Y	.4040	5 1/4
26096	Z	.4130	5 1/4

REAMER BLANKS

D264
REAMER BLANKS
FRACTIONAL SIZES

Tolerances:
All sizes +.0002-.0000

Catalog EDI-Number	Fractional Size	Decimal Equiv.	OAL
25841	1/64	.0156	3/4
25842	1/32	.0312	1 3/8
25843	3/64	.0469	1 3/4
25844	1/16	.0625	1 7/8
25845	5/64	.0781	2
25846	3/32	.0937	2 1/4
25847	7/64	.1094	2 5/8
25848	1/8	.1250	2 3/4
25849	9/64	.1406	2 7/8
25850	5/32	.1562	3 1/8
25851	11/64	.1719	3 1/4
25852	3/16	.1875	3 1/2
25853	13/64	.2031	3 5/8
25854	7/32	.2187	3 3/4
25855	15/64	.2344	3 7/8
25856	1/4	.2500	4
25857	17/64	.2656	4 1/8
25858	9/32	.2812	4 1/4
25859	19/64	.2969	4 3/8
25860	5/16	.3125	4 1/2
25861	21/64	.3281	4 5/8
25862	11/32	.3437	4 3/4
25863	23/64	.3594	4 7/8
25864	3/8	.3750	5
25865	25/64	.3906	5 1/8
25866	13/32	.4062	5 1/4
25867	27/64	.4219	5 3/8
25868	7/16	.4375	5 1/2
25869	29/64	.4531	5 5/8
25870	15/32	.4687	5 3/4
25871	31/64	.4844	5 7/8
25872	1/2	.5000	6

D265
REAMER BLANKS
WIRE GAGE SIZES
HIGH SPEED STEEL

Catalog EDI-Number	Wire Gauge	Decimal Equiv.	OAL
25891	1	.2280	3 7/8
25892	2	.2210	3 7/8
25893	3	.2130	3 3/4
25894	4	.2090	3 3/4
25895	5	.2055	3 3/4
25896	6	.2040	3 3/4
25897	7	.2010	3 5/8
25898	8	.1990	3 5/8
25899	9	.1960	3 5/8
25900	10	.1935	3 5/8
25901	11	.1910	3 1/2
25902	12	.1890	3 1/2
25903	13	.1850	3 1/2
25904	14	.1820	3 3/8
25905	15	.1800	3 3/8
25906	16	.1770	3 3/8
25907	17	.1730	3 3/8
25908	18	.1695	3 1/4
25909	19	.1660	3 1/4
25910	20	.1610	3 1/4
25911	21	.1590	3 1/4
25912	22	.1570	3 1/8
25913	23	.1540	3 1/8
25914	24	.1520	3 1/8
25915	25	.1495	3
25916	26	.1470	3
25917	27	.1440	3
25918	28	.1405	2 7/8
25919	29	.1360	2 7/8
25920	30	.1285	2 3/4
25921	31	.1200	2 3/4
25922	32	.1160	2 3/4
25923	33	.1130	2 5/8
25924	34	.1110	2 5/8
25925	35	.1100	2 5/8
25926	36	.1065	2 1/2
25927	37	.1040	2 1/2
25928	38	.1015	2 1/2
25929	39	.0995	2 3/8
25930	40	.0980	2 3/8
25931	41	.0960	2 3/8
25932	42	.0935	2 1/4
25933	43	.0890	2 1/4
25934	44	.0860	2 1/8
25935	45	.0820	2 1/8
25936	46	.0810	2 1/8
25937	47	.0785	2
25938	48	.0760	2
25939	49	.0730	2
25940	50	.0700	2
25941	51	.0670	2
25942	52	.0635	1 7/8
25943	53	.0595	1 7/8
25944	54	.0550	1 7/8
25945	55	.0520	1 7/8
25946	56	.0465	1 3/4
25947	57	.0430	1 3/4
25948	58	.0420	1 5/8
25949	59	.0410	1 5/8
25950	60	.0400	1 5/8
25951	61	.0390	1 5/8
25952	62	.0380	1 1/2
25953	63	.0370	1 1/2
25954	64	.0360	1 1/2
25955	65	.0350	1 1/2
25956	66	.0330	1 3/8
25957	67	.0320	1 3/8
25958	68	.0310	1 3/8
25959	69	.0292	1 3/8
25960	70	.0280	1 1/4
25961	71	.0260	1 1/4
25962	72	.0250	1 1/8
25963	73	.0240	1 1/8
25964	74	.0225	1
25965	75	.0210	1
25966	76	.0200	7/8
25967	77	.0180	7/8
25968	78	.0160	7/8
25969	79	.0145	3/4
25970	80	.0135	3/4

CARBIDE - HIGH SPEED STEEL

REAMERS

CHUCKING REAMERS

CHUCKING REAMERS
HIGH SPEED STEEL

SIZES NOT LISTED ARE SPECIAL - PRICES ON APPLICATION

STRAIGHT SHANK

Fraction, Wire, & Letter Sizes	Decimal Equiv.	Flute Length	OAL	#759B Straight Flute Catalog EDI-#	#759 Right Hand Spiral Catalog EDI-#	#759L Left Hand Spiral Catalog EDI-#
60	.0400	1/2	2 1/2	27111	27291	27471
59	.0410	1/2	2 1/2	27112	27292	27472
58	.0420	1/2	2 1/2	27113	27293	27473
57	.0430	1/2	2 1/2	27114	27294	27474
56	.0465	1/2	2 1/2	27115	27295	27475
3/64	.0469	1/2	2 1/2	27116	27296	27476
55	.0520	1/2	2 1/2	27117	27297	27477
54	.0550	1/2	2 1/2	27118	27298	27478
53	.0595	1/2	2 1/2	27119	27299	27479
1/16	.0625	1/2	2 1/2	27120	27300	27480
52	.0635	1/2	2 1/2	27121	27301	27481
51	.0670	3/4	3	27122	27302	27482
50	.0700	3/4	3	27123	27303	27483
49	.0730	3/4	3	27124	27304	27484
48	.0760	3/4	3	27125	27305	27485
5/64	.0781	3/4	3	27126	27306	27486
47	.0785	3/4	3	27127	27307	27487
46	.0810	3/4	3	27128	27308	27488
45	.0820	3/4	3	27129	27309	27489
44	.0860	3/4	3	27130	27310	27490
43	.0890	3/4	3	27131	27311	27491
42	.0935	3/4	3	27132	27312	27492
3/32	.0938	3/4	3	27133	27313	27493
41	.0960	7/8	3 1/2	27134	27314	27494
40	.0980	7/8	3 1/2	27135	27315	27495
39	.0995	7/8	3 1/2	27136	27316	27496
38	.1015	7/8	3 1/2	27137	27317	27497
37	.1040	7/8	3 1/2	27138	27318	27498
36	.1065	7/8	3 1/2	27139	27319	27499
7/64	.1094	7/8	3 1/2	27140	27320	27500
35	.1100	7/8	3 1/2	27141	27321	27501
34	.1110	7/8	3 1/2	27142	27322	27502
33	.1130	7/8	3 1/2	27143	27323	27503
32	.1160	7/8	3 1/2	27144	27324	27504
31	.1200	7/8	3 1/2	27145	27325	27505
.1240	.1240	7/8	3 1/2	27146	27326	27506
1/8	.1250	7/8	3 1/2	27147	27327	27507
.1260	.1260	7/8	3 1/2	27148	27328	27508
30	.1285	7/8	3 1/2	27149	27329	27509
29	.1360	1	4	27150	27330	27510
28	.1405	1	4	27151	27331	27511
9/64	.1406	1	4	27152	27332	27512
27	.1440	1	4	27153	27333	27513
26	.1470	1	4	27154	27334	27514
25	.1495	1	4	27155	27335	27515
24	.1520	1	4	27156	27336	27516
23	.1540	1	4	27157	27337	27517
5/32	.1562	1	4	27158	27338	27518
22	.1570	1	4	27159	27339	27519
21	.1590	1 1/8	4 1/2	27160	27340	27520
20	.1610	1 1/8	4 1/2	27161	27341	27521
19	.1660	1 1/8	4 1/2	27162	27342	27522

CHUCKING REAMERS
HIGH SPEED STEEL

SIZES NOT LISTED ARE SPECIAL - PRICES ON APPLICATION

STRAIGHT SHANK

				#759B Straight Flute	#759 Right Hand Spiral	#759L Left Hand Spiral
Fraction, Wire, & Letter Sizes	Decimal Equiv.	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
18	.1695	1 1/8	4 1/2	27163	27343	27523
11/64	.1719	1 1/8	4 1/2	27164	27344	27524
17	.1730	1 1/8	4 1/2	27165	27345	27525
16	.1770	1 1/8	4 1/2	27166	27346	27526
15	.1800	1 1/8	4 1/2	27167	27347	27527
14	.1820	1 1/8	4 1/2	27168	27348	27528
13	.1850	1 1/8	4 1/2	27169	27349	27529
.1865	.1865	1 1/8	4 1/2	27170	27350	27530
3/16	.1875	1 1/8	4 1/2	27171	27351	27531
.1885	.1885	1 1/8	4 1/2	27172	27352	27532
12	.1890	1 1/8	4 1/2	27173	27353	27533
11	.1910	1 1/4	5	27174	27354	27534
10	.1935	1 1/4	5	27175	27355	27535
9	.1960	1 1/4	5	27176	27356	27536
8	.1990	1 1/4	5	27177	27357	27537
7	.2010	1 1/4	5	27178	27358	27538
13/64	.2031	1 1/4	5	27179	27359	27539
6	.2040	1 1/4	5	27180	27360	27540
5	.2055	1 1/4	5	27181	27361	27541
4	.2090	1 1/4	5	27182	27362	27542
3	.2130	1 1/4	5	27183	27363	27543
7/32	.2188	1 1/4	5	27184	27364	27544
2	.2210	1 1/2	6	27185	27365	27545
1	.2280	1 1/2	6	27186	27366	27546
A	.2340	1 1/2	6	27187	27367	27547
15/64	.2344	1 1/2	6	27188	27368	27548
B	.2380	1 1/2	6	27189	27369	27549
C	.2420	1 1/2	6	27190	27370	27550
D	.2460	1 1/2	6	27191	27371	27551
.2490	.2490	1 1/2	6	27192	27372	27552
(E) 1/4	.2500	1 1/2	6	27193	27373	27553
.2510	.2510	1 1/2	6	27194	27374	27554
F	.2570	1 1/2	6	27195	27375	27555
G	.2610	1 1/2	6	27196	27376	27556
17/64	.2656	1 1/2	6	27197	27377	27557
H	.2660	1 1/2	6	27198	27378	27558
I	.2720	1 1/2	6	27199	27379	27559
J	.2770	1 1/2	6	27200	27380	27560
K	.2810	1 1/2	6	27201	27381	27561
9/32	.2812	1 1/2	6	27202	27382	27562
L	.2900	1 1/2	6	27203	27383	27563
M	.2950	1 1/2	6	27204	27384	27564
19/64	.2969	1 1/2	6	27205	27385	27565
N	.3020	1 1/2	6	27206	27386	27566
.3115	.3115	1 1/2	6	27207	27387	27567
5/16	.3125	1 1/2	6	27208	27388	27568
.3120	.3120	1 1/2	6	27209	27389	27569
.3135	.3135	1 1/2	6	27210	27390	27570
O	.3160	1 1/2	6	27211	27391	27571
P	.3230	1 1/2	6	27212	27392	27572
21/64	.3281	1 1/2	6	27213	27393	27573
Q	.3320	1 1/2	6	27214	27394	27574

CHUCKING REAMERS

CHUCKING REAMERS
HIGH SPEED STEEL

SIZES NOT LISTED ARE SPECIAL - PRICES ON APPLICATION

				#759B	#759	#759L
				Straight Flute	Right Hand Spiral	Left Hand Spiral
Fraction, Wire, & Letter Sizes	Decimal Equiv.	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
R	.3390	1 1/2	6	27215	27395	27575
11/32	.3438	1 1/2	6	27216	27396	27576
S	.3480	1 3/4	7	27217	27397	27577
T	.3580	1 3/4	7	27218	27398	27578
23/64	.3594	1 3/4	7	27219	27399	27579
U	.3680	1 3/4	7	27220	27400	27580
.3740	.3740	1 3/4	7	27221	27401	27581
3/8	.3750	1 3/4	7	27222	27402	27582
.3760	.3760	1 3/4	7	27223	27403	27583
V	.3770	1 3/4	7	27224	27404	27584
W	.3860	1 3/4	7	27225	27405	27585
25/64	.3906	1 3/4	7	27226	27406	27586
X	.3970	1 3/4	7	27227	27407	27587
Y	.4040	1 3/4	7	27228	27408	27588
13/32	.4062	1 3/4	7	27229	27409	27589
Z	.4130	1 3/4	7	27230	27410	27590
27/64	.4219	1 3/4	7	27231	27411	27591
.4365	.4365	1 3/4	7	27232	27412	27592
.4370	.4370	1 3/4	7	27233	27413	27593
7/16	.4375	1 3/4	7	27234	27414	27594
.4385	.4385	1 3/4	7	27235	27415	27595
29/64	.4531	1 3/4	7	27236	27416	27596
15/32	.4688	1 3/4	7	27237	27417	27597
31/64	.4844	2	8	27238	27418	27598
.4990	.4990	2	8	27239	27419	27599
.4995	.4995	2	8	27240	27420	27600
1/2	.5000	2	8	27241	27421	27601
.5010	.5010	2	8	27242	27422	27602
17/32	.5312	2	8	27243	27423	27603
9/16	.5625	2	8	27244	27424	27604
19/32	.5938	2	8	27245	27425	27605
5/8	.6250	2 1/4	9	27246	27426	27606
21/32	.6562	2 1/4	9	27247	27427	27607
11/16	.6875	2 1/4	9	27248	27428	27608
23/32	.7188	2 1/4	9	27249	27429	27609
3/4	.7500	2 1/2	9 1/2	27250	27430	27610
25/32	.7812	2 1/2	9 1/2	27251	27431	27611
13/16	.8125	2 1/2	9 1/2	27252	27432	27612
27/32	.8438	2 1/2	9 1/2	27253	27433	27613
7/8	.8750	2 5/8	10	27254	27434	27614
29/32	.9062	2 5/8	10	27255	27435	27615
15/16	.9375	2 5/8	10	27256	27436	27616
31/32	.9688	2 5/8	10	27257	27437	27617
1	1.0000	2 3/4	10 1/2	27258	27438	27618
1 1/16	1.0625	2 3/4	10 1/2	27259	27439	27619
1 1/8	1.1250	2 7/8	11	27260	27440	27620
1 3/16	1.1875	2 7/8	11	27261	27441	27621
1 1/4	1.2500	3	11 1/2	27262	27442	27622
1 5/16	1.3125	3	11 1/2	27263	27443	27623
1 3/8	1.3750	3 1/4	12	27264	27444	27624
1 7/16	1.4375	3 1/4	12	27265	27445	27625
1 1/2	1.5000	3 1/2	12 1/2	27266	27446	27626

CHUCKING REAMERS
TAPER SHANK

SPIRAL FLUTES

STRAIGHT FLUTES

		#760B	#760	#760L
		Straight Flute	Right Hand Spiral	Left Hand Spiral
Dia.	Morse Taper Shank	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
1/4	1	27631	27691	27741
9/32	1	27632	27692	27742
5/16	1	27633	27693	27743
11/32	1	27634	27694	27744
3/8	1	27635	27695	27745
13/32	1	27636	27696	27746
7/16	1	27637	27697	27747
15/32	1	27638	27698	27748
1/2	1	27639	27699	27749
17/32	1	27640	27700	27750
9/16	1	27641	27701	27751
19/32	1	27642	27702	27752
5/8	2	27643	27703	27753
21/32	2	27644	27704	27754
11/16	2	27645	27705	27755
23/32	2	27646	27706	27756
3/4	2	27647	27707	27757
25/32	2	27648	27708	27758
13/16	2	27649	27709	27759
27/32	2	27650	27710	27760
7/8	2	27651	27711	27761
29/32	2	27652	27712	27762
15/16	3	27653	27713	27763
31/32	3	27654	27714	27764
1	3	27655	27715	27765
1 1/16	3	27656	27716	27766
1 1/8	3	27657	27717	27767
1 3/16	3	27658	27718	27768
1 1/4	4	27659	27719	27769
1 5/16	4	27660	27720	27770
1 3/8	4	27661	27721	27771
1 7/16	4	27662	27722	27772
1 1/2	4	27663	27723	27773

CARBIDE TIPPED CHUCKING REAMERS

CARBIDE TIPPED CHUCKING REAMERS
STRAIGHT FLUTE - FULL FLUTE LENGTH CARBIDE

For general purpose reaming of most types of materials, including steel, cast iron, non-ferrous, and non-metals.
The carbide tips are brazed on a hardened alloy steel body.

STRAIGHT SHANK - STRAIGHT FLUTE - No. 769

Catalog EDI-#	Tool Diameter		Dia. Shank	# of Flutes	Flute Length	OAL
	Dec	Frac				
68001	.1875	3/16	11/64	4	1 1/2	6
68002	.2188	7/32	13/64	4	1 1/2	6
68003	.2344	15/64	7/32	4	1 1/2	6
68004	.2500	1/4	15/64	4	1 1/2	6
68005	.2812	9/32	15/64	4	1 1/2	6
68006	.3125	5/16	9/32	4	1 1/2	6
68007	.3438	11/32	9/32	4	1 1/2	6
68008	.3750	3/8	5/16	4	1 3/4	7
68009	.4062	13/32	5/16	4	1 3/4	7
68010	.4375	7/16	3/8	4	1 3/4	7
68011	.4688	15/32	3/8	4	1 3/4	7
68012	.5000	1/2	7/16	6	2	8
68013	.5312	17/32	7/16	6	2	8
68014	.5625	9/16	7/16	6	2	8
68015	.5938	19/32	7/16	6	2	8
68016	.6250	5/8	9/16	6	2	9
68017	.6562	21/32	9/16	6	2	9
68018	.6875	11/16	9/16	6	2	9
68019	.7188	23/32	9/16	6	2	9
68020	.7500	3/4	5/8	6	2	9 1/2
68021	.7812	25/32	5/8	6	2	9 1/2
68022	.8125	13/16	5/8	6	2	9 1/2
68023	.8438	27/32	5/8	6	2	9 1/2
68024	.8750	7/8	3/4	6	2 1/4	10
68025	.9062	29/32	3/4	6	2 1/4	10
68026	.9375	15/16	3/4	8	2 1/4	10
68027	.9688	31/32	3/4	8	2 1/4	10
68028	1.0000	1	7/8	8	2 1/4	10 1/2
68029	1.0625	1 1/16	7/8	8	2 1/4	10 1/2
68030	1.1250	1 1/8	7/8	8	2 1/4	11
68031	1.1875	1 3/16	1	8	2 1/4	11
68032	1.2500	1 1/4	1	8	2 1/2	11 1/2
68033	1.3125	1 5/16	1	8	2 1/2	11 1/2
68034	1.3750	1 3/8	1	8	2 1/2	12
68035	1.4375	1 7/16	1 1/4	8	2 1/2	12
68036	1.5000	1 1/2	1 1/4	8	2 1/2	12 1/2
68037	1.5625	1 9/16	1 1/4	8	2 1/2	12 1/2
68038	1.6250	1 5/8	1 1/4	8	2 3/4	13
68039	1.6875	1 11/16	1 1/4	8	2 3/4	13
68040	1.7500	1 3/4	1 1/4	10	3	13 1/2
68041	1.8125	1 13/16	1 1/2	10	3	13 1/2
68042	1.8750	1 7/8	1 1/2	10	3 1/4	14
68043	1.9375	1 15/16	1 1/2	10	3 1/4	14
68044	2.0000	2	1 1/2	12	3 1/4	14

TAPER SHANK - STRAIGHT FLUTE - No. 770

Catalog EDI-#	Tool Diameter		Morse Taper No.	# of Flutes	Flute Length	OAL
	Dec	Frac				
68051	.2500	1/4	1	4	1 1/2	6
68052	.2812	9/32	1	4	1 1/2	6
68053	.3125	5/16	1	4	1 1/2	6
68054	.3438	11/32	1	4	1 1/2	6
68055	.3750	3/8	1	4	1 3/4	7
68056	.4062	13/32	1	4	1 3/4	7
68057	.4375	7/16	1	4	1 3/4	7
68058	.4688	15/32	1	4	1 3/4	7
68059	.5000	1/2	1	6	2	8
68060	.5312	17/32	1	6	2	8
68061	.5625	9/16	1	6	2	8
68062	.5938	19/32	1	6	2	8
68063	.6250	5/8	2	6	2	9
68064	.6562	21/32	2	6	2	9
68065	.6875	11/16	2	6	2	9
68066	.7188	23/32	2	6	2	9
68067	.7500	3/4	2	6	2	9 1/2
68068	.7812	25/32	2	6	2	9 1/2
68069	.8125	13/16	2	6	2	9 1/2
68070	.8438	27/32	2	6	2	9 1/2
68071	.8750	7/8	2	6	2 1/4	10
68072	.9062	29/32	2	6	2 1/4	10
68073	.9375	15/16	3	8	2 1/4	10
68074	.9688	31/32	3	8	2 1/4	10
68075	1.000	1	3	8	2 1/4	10 1/2
68076	1.0625	1 1/16	3	8	2 1/4	10 1/2
68077	1.1250	1 1/8	3	8	2 1/4	11
68078	1.1875	1 3/16	3	8	2 1/4	11
68079	1.2500	1 1/4	4	8	2 1/2	11 1/2
68080	1.3125	1 5/16	4	8	2 1/2	11 1/2
68081	1.3750	1 3/8	4	8	2 1/2	12
68082	1.4375	1 7/16	4	8	2 1/2	12
68083	1.5000	1 1/2	4	8	2 1/2	12 1/2

SEE OUR OTHER CHUCKING REAMERS ON PAGES 108-114

Partial Flute Length Carbide Tipped Reamers also available

SPECIAL *REAMERS, SAWS, CUTTERS BORING TOOLS, ENDMILLS, DRILLS . . .*

. . . and many other **CUTTING TOOLS** that F&D can manufacture in **HSS**, **COBALT**, and **CARBIDE** material. Call us or fill out the **REQUEST FOR QUOTE** forms on **pages 150-151** or online at **www.fdtool.com**. You will get your quote within 24 hours and most times within just a few hours. We take pride in getting your **CUTTING TOOL NEEDS ANSWERED** as soon as possible.

That's been the F&D Tool Co., Inc way for over 80 years.

EXPANDING CHUCKING REAMERS

EXPANDING CHUCKING REAMERS - STRAIGHT FLUTE

The expansion feature is designed to maintain the initial size by compensating for wear at the cutting end.

Recommended Expansion Limits		
Sizes	1/4 to 21/32	.010
Sizes	11/16 to 1	.013
Sizes	1-1/16 to 1-1/2	.015
Sizes	1-9/16 to 2	.017

Fluted Chucking Reamers are designed for use in turret lathes, screw machines, etc. These reamers have a slight chamfer of 45 degrees on the end and flutes are cleared to edge but are not tapered.

STRAIGHT SHANK • Straight Flute - No. 759C

Catalog EDI-Number	Dia.	Dia. Shank	Flute Length	Overall Length
28591	3/8	5/16	3/4	7
28592	13/32	5/16	3/4	7
28593	7/16	3/8	7/8	7
28594	15/32	27/64	7/8	7
28595	1/2	7/16	1	8
28596	17/32	7/16	1	8
28597	9/16	7/16	1 1/8	8
28598	19/32	7/16	1 1/8	8
28599	5/8	9/16	1 1/4	9
28600	21/32	9/16	1 1/4	9
28601	11/16	9/16	1 1/4	9
28602	23/32	9/16	1 1/4	9
28603	3/4	5/8	1 3/8	9 1/2
28604	25/32	5/8	1 3/8	9 1/2
28605	13/16	5/8	1 3/8	9 1/2
28606	27/32	5/8	1 3/8	9 1/2
28607	7/8	3/4	1 1/2	10
28608	29/32	3/4	1 1/2	10
28609	15/16	3/4	1 1/2	10
28610	31/32	3/4	1 1/2	10
28611	1	7/8	1 5/8	10 1/2
28612	1 1/32	7/8	1 5/8	10 1/2
28613	1 1/16	7/8	1 5/8	10 1/2
28614	1 3/32	7/8	1 5/8	10 1/2
28615	1 1/8	7/8	1 3/4	11
28616	1 5/32	7/8	1 3/4	11
28617	1 3/16	1	1 3/4	11
28618	1 7/32	1	1 3/4	11
28619	1 1/4	1	1 7/8	11 1/2
28620	1 5/16	1	1 7/8	11 1/2
28621	1 3/8	1	2	12
28622	1 7/16	1 1/4	2	12
28623	1 1/2	1 1/4	2 1/8	12 1/2
28624	1 9/16	1 1/4	2 1/8	12 1/2
28625	1 5/8	1 1/4	2 1/4	13
28626	1 11/16	1 1/4	2 1/4	13
28627	1 3/4	1 1/4	2 3/8	13 1/2
28628	1 13/16	1 1/2	2 3/8	13 1/2
28629	1 7/8	1 1/2	2 1/2	14
28630	1 15/16	1 1/2	2 1/2	14
28631	2	1 1/2	2 1/2	14
28632	2 1/8	1 1/2	2 3/4	14 1/2
28633	2 1/4	1 3/4	2 3/4	14 1/2
28634	2 1/2	1 3/4	3	15

TAPER SHANK • Straight Flute - No. 760C

Catalog EDI-Number	Dia.	Morse Taper No.	Flute Length	Overall Length
28661	3/8	1	3/4	7
28662	13/32	1	3/4	7
28663	7/16	1	7/8	7
28664	15/32	1	7/8	7
28665	1/2	1	1	8
28666	17/32	1	1	8
28667	9/16	1	1 1/8	8
28668	19/32	1	1 1/8	8
28669	5/8	2	1 1/4	9
28670	21/32	2	1 1/4	9
28671	11/16	2	1 1/4	9
28672	23/32	2	1 1/4	9
28673	3/4	2	1 3/8	9 1/2
28674	25/32	2	1 3/8	9 1/2
28675	13/16	2	1 3/8	9 1/2
28676	27/32	2	1 3/8	9 1/2
28677	7/8	2	1 1/2	10
28678	29/32	2	1 1/2	10
28679	15/16	3	1 1/2	10
28680	31/32	3	1 1/2	10
28681	1	3	1 5/8	10 1/2
28682	1 1/32	3	1 5/8	10 1/2
28683	1 1/16	3	1 5/8	10 1/2
28684	1 3/32	3	1 5/8	10 1/2
28685	1 1/8	3	1 3/4	11
28686	1 5/32	3	1 3/4	11
28687	1 3/16	3	1 3/4	11
28688	1 7/32	4	1 3/4	11
28689	1 1/4	4	1 7/8	11 1/2
28690	1 5/16	4	1 7/8	11 1/2
28691	1 3/8	4	2	12
28692	1 7/16	4	2	12
28693	1 1/2	4	2 1/8	12 1/2
28694	1 9/16	4	2 1/8	12 1/2
28695	1 5/8	4	2 1/4	13
28696	1 11/16	4	2 1/4	13
28697	1 3/4	5	2 3/8	13 1/2
28698	1 13/16	5	2 3/8	13 1/2
28699	1 7/8	5	2 1/2	14
28700	1 15/16	5	2 1/2	14
28701	2	5	2 1/2	14
28702	2 1/8	5	2 3/4	14 1/2
28703	2 1/4	5	2 3/4	14 1/2
28704	2 1/2	5	3	15

Recommended Expansion Limits		
Sizes	1/4 to 21/32	.010
Sizes	11/16 to 1	.013
Sizes	1-1/16 to 1-1/2	.015
Sizes	1-9/16 to 2	.017

EXPANSION HAND REAMERS

STRAIGHT FLUTES
Number 752 & 852

SPIRAL FLUTES
Number 750 & 850

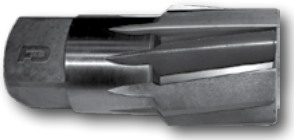
			Number 752 Carbon Steel	Number 852 High Speed Steel	Number 750 Carbon Steel	Number 850 High Speed Steel
Dia.	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
1/4	1 7/16	4 1/4	28491	28541	28391	28441
5/16	1 3/4	4 1/2	28492	28542	28392	28442
3/8	1 3/4	5	28493	28543	28393	28443
7/16	1 3/4	5	28494	28544	28394	28444
1/2	1 13/16	5 1/2	28495	28545	28395	28445
9/16	2 1/8	6	28496	28546	28396	28446
5/8	2 1/2	6 1/2	28497	28547	28397	28447
11/16	2 1/2	6 3/4	28498	28548	28398	28448
3/4	2 11/16	7 1/16	28499	28549	28399	28449
13/16	3 1/16	7 9/16	28500	28550	28400	28450
7/8	3 5/16	8	28501	28551	28401	28451
15/16	3 9/16	8 3/8	28502	28552	28402	28452
1	3 3/4	8 7/8	28503	28553	28403	28453
1 1/6	4	9 3/16	28504	28554	28404	28454
1 1/8	4 1/8	9 1/2	28505	28555	28405	28455
1 3/16	4 1/4	9 7/8	28506	28556	28406	28456
1 1/4	4 3/8	10 1/4	28507	28557	28407	28457
1 5/16	4 1/2	10 5/8	28508	28558	28408	28458
1 3/8	4 9/16	11	28509	28559	28409	28459
1 7/16	4 3/4	11 3/8	28510	28560	28410	28460
1 1/2	4 13/16	11 5/8	28511	28561	28411	28461
1 9/16	4 13/16	11 3/4	28512	28562	28412	28462
1 5/8	4 7/8	12	28513	28563	28413	28463
1 11/16	4 7/8	12 1/4	28514	28564	28414	28464
1 3/4	5	12 3/8	28515	28565	28415	28465
1 13/16	5	12 9/16	28516	28566	28416	28466
1 7/8	5	12 3/4	28517	28567	28417	28467
1 15/16	5	12 7/8	28518	28568	28418	28468
2	5	13 1/16	28519	28569	28419	28469
2 1/8	5 1/8	13 1/4	28520	28570	28420	28470
2 1/4	5 1/8	13 1/2	28521	28571	28421	28471
2 3/8	5 1/4	14	28522	28572	28422	28472
2 1/2	5 3/8	14 1/2	28523	28573	28423	28473
2 5/8	5 1/2	15	28524	28574	28424	28474
2 3/4	5 3/4	15 1/2	28525	28575	28425	28475
2 7/8	5 3/4	15 1/2	28526	28576	28426	28476
3	6	16 1/2	28527	28577	28427	28477
3 1/8	6 1/8	17 1/4	28528	28578	28428	28478
3 3/16	6 1/4	18	28529	28579	28429	28479
3 1/4	6 1/2	18 1/2	28530	28580	28430	28480

TAPER REAMERS

BROWN & SHARPE TAPER REAMERS

# of Taper	Large End	Small End	Flute Length	OAL	Number 808 Carbon Steel Catalog EDI-#	Number 908 High Speed Steel Catalog EDI-#
1	.3176	.1974	2 7/8	4 3/4	29061	29091
2	.3781	.2474	3 1/8	5 1/8	29062	29092
3	.4510	.3099	3 3/8	5 1/2	29063	29093
4	.5017	.3474	3 11/16	5 7/8	29064	29094
5	.6145	.4474	4	6 3/8	29065	29095
6	.6808	.4974	4 3/8	6 7/8	29066	29096
7	.8011	.5974	4 7/8	7 1/2	29067	29097
8	.9770	.7474	5 1/2	8 1/8	29068	29098
9	1.1530	.8974	6 1/8	8 7/8	29069	29099
10	1.3376	1.0420	6 7/8	9 3/4	29070	29100

TAPER PIPE REAMERS
High Speed Steel



Nom. Size	Small End	Large End	Flute Length	OAL	STRAIGHT FLUTE Catalog EDI-#	SPIRAL FLUTE Catalog EDI-#
1/8	0.316	0.362	3/4	2 1/8	28800	28810
1/4	0.406	0.472	1 1/16	2 7/16	28801	28811
3/8	0.540	0.606	1 1/16	2 9/16	28802	28812
1/2	0.665	0.751	1 3/8	3 1/8	28803	28813
3/4	0.876	0.962	1 3/8	3 1/4	28804	28814
1	1.103	1.212	1 3/4	3 3/4	28805	28815
1 1/4	1.444	1.553	1 3/4	4	28806	28816
1 1/2	1.684	1.793	1 3/4	4 1/4	28807	28817
2	2.159	2.268	1 3/4	4 1/2	28808	28818
2 1/2	2.561	2.717	2 9/16	5 1/2	28809	28819

CAR REAMERS
High Speed Steel - Morse Taper Shank
Helical Flutes

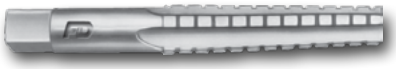
Catalog EDI-#	Dia.	Morse Taper	Decimal Equiv.	Flute Length	Approx. OAL	Point Dia.
29040	5/16	1	.3125	2 3/4	5 11/16	11/64
29041	3/8	1	.3750	2 3/4	5 11/16	15/64
29042	7/16	2	.4375	3 1/2	6 15/16	1/4
29043	1/2	2	.5000	4	7 9/16	19/64
29044	9/16	2	.5625	4	7 9/16	9/32
29045	5/8	2	.6250	4 1/2	8 1/16	5/16
29046	11/16	3	.6875	4 1/2	8 13/16	3/8
29047	3/4	3	.7500	5	9 1/2	13/32
29048	13/16	3	.8125	5	9 1/2	15/32

CONSTRUCTION TAPER REAMERS
High Speed Steel

RH Cut, LH Spiral, High Helix
Manufactured with safety stop

Catalog EDI-#	Size	OAL	Flute Length	Point Dia.	Shank Dia.
29049	3/8	5 1/4	3 5/8	.1645	3/8
29050	7/16	5 1/4	3 5/8	.1645	7/16
29051	1/2	6	4 3/8	.2340	1/2
29052	9/16	6 5/8	5	.2920	1/2
29053	5/8	6 5/8	5	.3520	1/2
29054	11/16	7	5 3/8	.4140	1/2
29055	3/4	7	5 3/8	.4770	1/2
29056	13/16	7 1/4	5 5/8	.5400	1/2
29057	7/8	7 1/4	5 5/8	.6020	1/2
29058	15/16	7 1/4	5 5/8	.6450	1/2
29059	1	7 1/4	5 5/8	.7270	1/2

HAND ROUGHING REAMERS



					Number 800 Carbon Steel	Number 900 High Speed Steel
# of Taper	Large End	Small End	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#
0	.367	.250	2 1/4	3 3/4	28881	28911
1	.517	.367	3	5	28882	28912
2	.745	.569	3 1/2	6	28883	28913
3	.988	.775	4 1/4	7 1/4	28884	28914
4	1.289	1.017	5 1/4	8 1/2	28885	28915
5	1.799	1.471	6 1/4	9 3/4	28886	28916
6	2.555	2.112	8 1/2	12 1/4	28887	28917

HAND FINISHING REAMERS

					Number 802 Carbon Steel	Number 902 High Speed Steel
# of Taper	Large End	Small End	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#
0	.367	.250	2 1/4	3 3/4	28821	28851
1	.517	.367	3	5	28822	28852
2	.745	.569	3 1/2	6	28823	28853
3	.988	.775	4 1/4	7 1/4	28824	28854
4	1.289	1.017	5 1/4	8 1/2	28825	28855
5	1.799	1.471	6 1/4	9 3/4	28826	28856
6	2.555	2.112	8 1/2	12 1/4	28827	28857

MACHINE ROUGHING REAMERS

					Number 804 Carbon Steel	Number 904 High Speed Steel
# of Taper	Large End	Small End	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#
0	.367	.250	2 1/4	5 11/32	29001	29031
1	.517	.367	3	6 5/16	29002	29032
2	.745	.569	3 1/2	7 3/8	29003	29033
3	.988	.775	4 1/4	8 7/8	29004	29034
4	1.289	1.017	5 1/4	10 7/8	29005	29035
5	1.799	1.471	6 1/4	13 1/8	29006	29036
6	2.555	2.112	8 1/2	17 13/16	29007	29037

MACHINE FINISHING REAMERS

					Number 806 Carbon Steel	Number 906 High Speed Steel
# of Taper	Large End	Small End	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#
0	.367	.250	2 1/4	5 11/32	28941	28971
1	.517	.367	3	6 5/16	28942	28972
2	.745	.569	3 1/2	7 3/8	28943	28973
3	.988	.775	4 1/4	8 7/8	28944	28974
4	1.289	1.017	5 1/4	10 7/8	28945	28975
5	1.799	1.471	6 1/4	13 1/8	28946	28976
6	2.555	2.112	8 1/2	17 13/16	28947	28977

BRIDGE REAMERS

BRIDGE REAMERS
HIGH SPEED STEEL

Used to align bolt or rivet holes in bridge or structural iron work and boiler plates.

***Prices upon application**

Catalog EDI-Number	Nominal Dia.	Point Dia.	Flute Length	Morse Taper Shank	OAL
28731	7/16	1/4	4 3/8	2	8 1/4
*	1/2	9/32	5 1/8	2	9
28732	9/16	11/32	5 1/8	2	9
*	5/8	3/8	6 1/8	2	10
28733	11/16	25/64	7 1/8	3	11 3/4
*	3/4	7/16	7 3/8	3	12
28734	13/16	1/2	7 3/8	3	12
*	7/8	9/16	7 3/8	3	12
28735	15/16	5/8	7 3/8	3	12
*	1	11/16	7 3/8	3	12
28736	1 1/16	3/4	7 3/8	3	12
*	1 1/8	13/16	7 3/8	3	12
28737	1 3/16	7/8	7 3/8	3	12
*	1 1/4	15/16	7 3/8	4	13
28738	1 5/16	1	7 3/8	4	13

STRAIGHT FLUTE
No. 980

Catalog EDI-Number	Nominal Dia.	Point Dia.	Flute Length	Morse Taper Shank	OAL
28761	7/16	1/4	4 3/8	2	8 1/4
28762	1/2	9/32	5 1/8	2	9
28763	9/16	11/32	5 1/8	2	9
28764	5/8	3/8	6 1/8	2	10
28765	11/16	25/64	7 1/8	3	11 3/4
28766	3/4	7/16	7 3/8	3	12
28767	13/16	1/2	7 3/8	3	12
28768	7/8	9/16	7 3/8	3	12
28769	15/16	5/8	7 3/8	3	12
28770	1	11/16	7 3/8	3	12
28771	1 1/16	3/4	7 3/8	3	12
28772	1 1/8	13/16	7 3/8	3	12
28773	1 3/16	7/8	7 3/8	3	12
28774	1 1/4	15/16	7 3/8	4	13
28775	1 5/16	1	7 3/8	4	13

LEFT HAND HELICAL FLUTE
No. 982

Catalog EDI-Number	Nominal Dia.	Point Dia.	Flute Length	Morse Taper Shank	OAL
*	7/16	1/4	4 3/8	2	81/4
*	1/2	9/32	5 1/8	2	9
*	9/16	11/32	5 1/8	2	9
*	5/8	3/8	6 1/8	2	10
28796	11/16	25/64	7 1/8	3	11 3/4
*	3/4	7/16	7 3/8	3	12
28797	13/16	1/2	7 3/8	3	12
*	7/8	9/16	7 3/8	3	12
28798	15/16	5/8	7 3/8	3	12
*	1	11/16	7 3/8	3	12
28799	1 1/16	3/4	7 3/8	3	12
*	1 1/8	13/16	7 3/8	3	12
*	1 3/16	7/8	7 3/8	3	12
*	1 1/4	15/16	7 3/8	4	13
*	1 5/16	1	7 3/8	4	13

RIGHT HAND HELICAL FLUTE
No. 984

ALIGNING REAMERS

HIGH SPEED STEEL
Short Straight Shank,
LH Spiral - RH Cut

Catalog EDI-#	Cut Dia.	Point Dia.	Flute Length	Shank Dia.	# of Teeth	OAL
29160	1/4	5/32	2 1/2	5/16	4	4 3/8
29161	5/16	3/16	2 3/4	3/8	4	4 5/8
29162	3/8	1/4	2 3/4	13/32	4	4 5/8
29163	7/16	1/4	3 1/2	1/2	5	5 3/8
29164	1/2	9/32	4	1/2	5	5 7/8
29165	9/16	11/32	4	1/2	5	5 7/8
29166	5/8	11/32	4 1/2	1/2	5	6 3/8
29167	21/32	3/8	4 1/2	1/2	5	6 3/8
29168	11/16	3/8	4 1/2	1/2	5	6 3/8
29169	3/4	13/32	5	1/2	5	6 7/8
29170	25/32	13/32	5	1/2	5	6 7/8
29171	13/16	7/16	5	1/2	5	6 7/8
29172	7/8	15/32	5	1/2	5	6 7/8
29173	15/16	9/16	5	1/2	5	6 7/8
29174	1	19/32	5	1/2	5	6 7/8
29175	1 1/16	5/8	5	1/2	5	6 7/8

TAPER PIN REAMERS

STRAIGHT FLUTES
High Speed Steel
No. 776

SPIRAL FLUTES
High Speed Steel
No. 777

HELICAL FLUTES
High Speed Steel
No. 778

						Straight Flute Number 776	Spiral Flute Number 777	Helical Flute Number 778
Size No.	Dia. of Shank	Dia. Small End	Dia. Large End	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
7/0	5/64	.0497	.0666	13/16	1 13/16	27896	27931	27971
6/0	3/32	.0611	.0806	15/16	1 15/16	27897	27932	27972
5/0	7/64	.0719	.0966	1 3/16	2 3/16	27898	27933	27973
4/0	1/8	.0869	.1142	1 5/16	2 5/16	27899	27934	27974
3/0	9/64	.1029	.1302	1 5/16	2 5/16	27900	27935	27975
2/0	5/32	.1137	.1462	1 9/16	2 9/16	27901	27936	27976
0	11/64	.1287	.1638	1 11/16	2 15/16	27902	27937	27977
1	3/16	.1447	.1798	1 11/16	2 15/16	27903	27938	27978
2	13/64	.1605	.2008	1 15/16	3 3/16	27904	27939	27979
3	15/64	.1813	.2294	2 5/16	3 11/16	27905	27940	27980
4	17/64	.2071	.2604	2 9/16	4 1/16	27906	27941	27981
5	5/16	.2409	.2994	2 13/16	4 5/16	27907	27942	27982
6	23/64	.2773	.3540	3 11/16	5 7/16	27908	27943	27983
7	13/32	.3297	.4220	4 7/16	6 5/16	27909	27944	27984
8	7/16	.3971	.5050	5 3/16	7 3/16	27910	27945	27985
9	9/16	.4805	.6066	6 1/16	8 5/16	27911	27946	27986
10	5/8	.5799	.7216	6 13/16	9 5/16	27912	27947	27987
11	3/4	.7060	.8780	8 1/4	11 1/4	27913	27948	27988
12	7/8	.8420	1.0500	10	13 5/8	27914	27949	27989
13	1 1/4	1.0090	1.2590	12	16	27915	27950	27990
14	1 1/2	1.2500	1.5420	14	18 1/4	27916	27951	27991

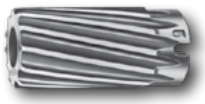
SHELL REAMERS

SHELL REAMERS
HIGH SPEED STEEL

Fluted shell reamers are designed as a sizing or finishing reamer and are held on an arbor provided with driving lugs. Flutes are cleared to edge. The holes in these reamers are tapered, 1/8 inch per foot. Spiral flute reamers are RH Cut and regularly furnished with 7° LH Spiral

Dia.	No. 910 Catalog EDI-No.	No. 911 Catalog EDI-No.	Hole Dia LG End	Fitting Arbor No.	OAL
3/4	28011	28091	3/8	4	2 1/4
13/16	28012	28092	1/2	5	2 1/2
7/8	28013	28093	1/2	5	2 1/2
15/16	28014	28094	1/2	5	2 1/2
1	28015	28095	1/2	5	2 1/2
1 1/16	28016	28096	5/8	6	2 3/4
1 1/8	28017	28097	5/8	6	2 3/4
1 3/16	28018	28098	5/8	6	2 3/4
1 1/4	28019	28099	5/8	6	2 3/4
1 5/16	28020	28100	3/4	7	3
1 3/8	28021	28101	3/4	7	3
1 7/16	28022	28102	3/4	7	3
1 1/2	28023	28103	3/4	7	3
1 9/16	28024	28104	3/4	7	3
1 5/8	28025	28105	3/4	7	3
1 11/16	28026	28106	1	8	3 1/2
1 3/4	28027	28107	1	8	3 1/2
1 13/16	28028	28108	1	8	3 1/2
1 7/8	28029	28109	1	8	3 1/2
1 15/16	28030	28110	1	8	3 1/2
2	28031	28111	1	8	3 1/2
2 1/16	28032	28112	1 1/4	9	3 3/4
2 1/8	28033	28113	1 1/4	9	3 3/4
2 3/16	28034	28114	1 1/4	9	3 3/4
2 1/4	28035	28115	1 1/4	9	3 3/4
2 5/16	28036	28116	1 1/4	9	3 3/4
2 3/8	28037	28117	1 1/4	9	3 3/4

STRAIGHT FLUTE
No. 910



SPIRAL FLUTE
No. 911

Dia.	No. 910 Catalog EDI-No.	No. 911 Catalog EDI-No.	Hole Dia LG End	Fitting Arbor No.	OAL
2 7/16	28038	28118	1 1/4	9	3 3/4
2 1/2	28039	28119	1 1/4	9	3 3/4
2 9/16	28040	28120	1 1/2	10	4
2 5/8	28041	28121	1 1/2	10	4
2 11/16	28042	28122	1 1/2	10	4
2 3/4	28043	28123	1 1/2	10	4
2 13/16	28044	28124	1 1/2	10	4
2 7/8	28045	28125	1 1/2	10	4
2 15/16	28046	28126	1 1/2	10	4
3	28047	28127	1 1/2	10	4
3 1/16	28048	28128	1 3/4	11	4 1/2
3 1/8	28049	28129	1 3/4	11	4 1/2
3 3/16	28050	28130	1 3/4	11	4 1/2
3 1/4	28051	28131	1 3/4	11	4 1/2
3 5/16	28052	28132	1 3/4	11	4 1/2
3 3/8	28053	28133	1 3/4	11	4 1/2
3 7/16	28054	28134	1 3/4	11	4 1/2
3 1/2	28055	28135	1 3/4	11	4 1/2
3 9/16	28056	28136	2	12	5
3 5/8	28057	28137	2	12	5
3 11/16	28058	28138	2	12	5
3 3/4	28059	28139	2	12	5
3 13/16	28060	28140	2	12	5
3 7/8	28061	28141	2	12	5
3 15/16	28062	28142	2	12	5
4	28063	28143	2	12	5

SHELL REAMERS
CARBIDE TIPPED

Dia.	Straight Flute EDI-#	Spiral Flute EDI #	Hole Dia LG End	Fits Arbor #	# Of Flts	Length		
						Flt	Carb	OAL
3/4	29200	29300	3/8	4	6	1 3/4	1	2 1/4
25/32	29202	29301	3/8	4	6	1 3/4	1	2 1/4
13/16	29204	29302	1/2	5	6	1 15/16	1	2 1/2
7/8	29206	29303	1/2	5	6	1 15/16	1	2 1/2
15/16	29208	29304	1/2	5	8	1 15/16	1	2 1/2
1	29210	29305	1/2	5	8	1 15/16	1	2 1/2
1 1/16	29212	29306	5/8	6	8	2 1/8	1	2 3/4
1 1/8	29214	29307	5/8	6	8	2 1/8	1	2 3/4
1 3/16	29216	29308	5/8	6	8	2 1/8	1 1/8	2 3/4
1 1/4	29218	29309	5/8	6	8	2 1/8	1 1/8	2 3/4
1 5/16	29220	29310	3/4	7	8	2 1/4	1 1/8	3
1 3/8	29222	29311	3/4	7	8	2 1/4	1 1/8	3
1 7/16	29224	29312	3/4	7	8	2 1/4	1 1/8	3
1 1/2	29226	29313	3/4	7	8	2 1/4	1 1/8	3
1 9/16	29228	29314	3/4	7	10	2 1/4	1 1/8	3
1 5/8	29230	29315	3/4	7	10	2 1/4	1 1/8	3
1 11/16	29232	29316	1	8	10	2 3/4	1 1/8	3 1/2
1 3/4	29234	29317	1	8	10	2 3/4	1 1/8	3 1/2

Dia.	Straight Flute EDI-#	Spiral Flute EDI #	Hole Dia LG End	Fits Arbor #	# Of Flts	Length		
						Flt	Carb	OAL
1 13/16	29236	29318	1	8	10	2 3/4	1 1/8	3 1/2
1 7/8	29238	29319	1	8	10	2 3/4	1 1/8	3 1/2
1 15/16	29240	29320	1	8	10	2 3/4	1 1/8	3 1/2
2	29242	29321	1	8	10	2 3/4	1 1/8	3 1/2
2 1/16	29244	29322	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 1/8	29246	29323	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 3/16	29248	29324	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 1/4	29250	29325	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 5/16	29252	29326	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 3/8	29254	29327	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 7/16	29256	29328	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 1/2	29258	29329	1 1/4	9	12	2 7/8	1 1/8	3 3/4
2 9/16	29260	29330	1 1/2	10	14	3 1/8	1 1/8	4
2 5/8	29262	29331	1 1/2	10	14	3 1/8	1 1/8	4
2 11/16	29264	-	1 1/2	10	14	3 1/8	1 1/8	4
2 3/4	29266	-	1 1/2	10	14	3 1/8	1 1/8	4
2 13/16	29268	-	1 1/2	10	14	3 1/8	1 1/8	4
2 7/8	29270	-	1 1/2	10	14	3 1/8	1 1/8	4
2 15/16	29272	-	1 1/2	10	14	3 1/8	1 1/8	4
3	29274	-	1 1/2	10	14	3 1/8	1 1/8	4

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SHELL REAMER ARBORS

These arbors are designed to fit Shell Reamers having taper holes 1/8 inch per foot

Catalog EDI-# 504	Catalog EDI-# 505	No.	Fitting Sizes	Morse Taper	Dia. Shank	OAL
30531	30561	4	21/32-25/32	2	1/2	9
30532	30562	5	13/16-1 1/32	2	5/8	9 1/2
30533	30563	6	1 1/16-1 9/32	3	3/4	10
30534	30564	7	1 5/16-1 21/32	3	7/8	11
30535	30565	8	1 11/16-2	4	1 1/8	12
30536	30566	9	2 1/16-2 1/2	4	1 3/8	13
30537	30567	10	2 9/16-3	5	1 5/8	14
30538	30568	11	3 1/16-3 1/2	5	2	15
30539	30569	12	3 9/16-4	5	2 1/8	16

NO. 504 STRAIGHT SHANK

NO. 505 MORSE TAPER SHANK

JOBBER REAMERS

TAPER SHANK - STRAIGHT FLUTE

These reamers have the same design as Hand Reamers but with a tapered shank.

Catalog EDI-Number	Dia.	Flute Length	Morse Taper	Overall Length
52001	1/4	2	1	5 3/16
52002	9/32	2	1	5 3/16
52003	5/16	2 1/4	1	5 1/2
52004	11/32	2 1/4	1	5 1/2
52005	3/8	2 1/2	1	5 13/16
52006	13/32	2 1/2	1	5 13/16
52007	7/16	2 3/4	1	6 1/8
52008	15/32	2 3/4	1	6 1/8
52009	1/2	3	1	6 7/16
52010	17/32	3	1	6 7/16
52011	9/16	3 1/4	1	6 3/4
52012	19/32	3 1/4	1	6 3/4
52013	5/8	3 1/2	2	7 9/16
52014	21/32	3 1/2	2	7 9/16
52015	11/16	3 7/8	2	8
52016	23/32	3 7/8	2	8
52017	3/4	4 3/16	2	8 3/8
52018	25/32	4 3/16	2	8 3/8
52019	13/16	4 9/16	2	8 3/8
52020	27/32	4 7/8	2	9 3/16
52021	7/8	4 7/8	2	9 3/16
52022	15/16	5 1/8	3	10
52023	1	5 7/16	3	10 3/8
52024	1 1/16	5 5/8	3	10 5/8
52025	1 1/8	5 13/16	3	10 7/8
52026	1 3/16	6	3	11 1/8
52027	1 1/4	6 1/8	4	12 9/16
52028	1 5/16	6 1/4	4	12 11/16
52029	1 3/8	6 5/16	4	12 13/16
52030	1 7/16	6 7/16	4	13
52031	1 1/2	6 1/2	4	13 1/8

JIG BORER REAMERS

STRAIGHT SHANK

RH Spiral - RH Cut

Catalog EDI-Number	Sizes	Dec. Equiv.	Shank Dia.	No. of Flutes	Overall Length
52101	1/8	.1250	3/8	4	2 9/16
52102	5/32	.1562	3/8	4	2 9/16
52103	3/16	.1875	3/8	4	2 13/16
52104	7/32	.2188	3/8	4	2 13/16
52105	1/4	.2500	3/8	4	3 5/16
52106	9/32	.2812	3/8	4	3 5/16
52107	5/16	.3125	3/8	6	3 9/16
52108	11/32	.3438	3/8	6	3 9/16
52109	3/8	.3750	3/8	6	3 9/16
52110	13/32	.4062	1/2	6	4 5/16
52111	7/16	.4375	1/2	6	4 5/16
52112	15/32	.4688	1/2	6	4 5/16
52113	1/2	.5000	1/2	6	4 5/16
52114	9/16	.5625	1/2	6	4 5/16
52115	5/8	.6250	1/2	6	4 5/16
52116	11/16	.6875	1/2	6	4 5/16
52117	3/4	.7500	1/2	8	4 5/16
52118	13/16	.8125	1/2	8	4 5/16
52119	7/8	.8750	1/2	8	4 5/16
52120	15/16	.9375	1/2	8	4 5/16
52121	1	1.0000	1/2	8	4 5/16

HAND REAMERS

STRAIGHT FLUTE
Number 820 & 920

SPIRAL FLUTES
Number 821 & 921

			Number 820 Carbon Steel	Number 920 High Speed Steel	Number 821 Carbon Steel	Number 921 High Speed Steel
Dia.	Flute Length	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
1/8	1 1/2	3	28161	28231	28291	*
9/64	1 5/8	3 1/4	28162	*	*	*
5/32	1 5/8	3 1/4	28163	28232	28292	*
11/64	1 3/4	3 1/2	28164	*	*	*
3/16	1 3/4	3 1/2	28165	28233	28293	*
13/64	1 7/8	3 3/4	28166	*	*	*
7/32	1 7/8	3 3/4	28167	28234	28294	*
15/64	2	4	28168	*	*	*
1/4	2	4	28169	28235	28295	28331
17/64	2 1/8	4 1/4	28170	*	*	*
9/32	2 1/8	4 1/4	28171	28236	28296	28332
19/64	2 1/4	4 1/2	28172	*	*	*
5/16	2 1/4	4 1/2	28173	28237	28297	28333
21/64	2 3/8	4 3/4	28174	*	*	*
11/32	2 3/8	4 3/4	28175	28238	28298	28334
23/64	2 1/2	5	28176	*	*	*
3/8	2 1/2	5	28177	28239	28299	28335
25/64	2 5/8	5 1/4	28178	*	*	*
13/32	2 5/8	5 1/4	28179	28240	28300	28336
27/64	2 3/4	5 1/2	28180	*	*	*
7/16	2 3/4	5 1/2	28181	28241	28301	28337
29/64	2 7/8	5 3/4	28182	*	*	*
15/32	2 7/8	5 3/4	28183	28242	28302	28338
31/64	3	6	28184	*	*	*
1/2	3	6	28185	28243	28303	28339
17/32	3 1/8	6 1/4	28186	28244	*	28340
9/16	3 1/4	6 1/2	28187	28245	28304	28341
19/32	3 3/8	6 3/4	28188	28246	*	28342
5/8	3 1/2	7	28189	28247	28305	28343
21/32	3 11/16	7 3/8	28190	28248	*	28344
11/16	3 7/8	7 3/4	28191	28249	28306	28345
23/32	4 1/16	8 1/8	28192	28250	*	28346
3/4	4 3/16	8 3/8	28193	28251	28307	28347
25/32	4 3/8	8 3/4	28194	28252	*	28348
13/16	4 9/16	9 1/8	28195	28253	28308	28349
27/32	4 11/16	9 3/8	28196	28254	*	28350
7/8	4 7/8	9 3/4	28197	28255	28309	28351
29/32	5	10	28198	28256	*	28352
15/16	5 1/8	10 1/4	28199	28257	28310	28353
31/32	5 5/16	10 5/8	28200	28258	*	28354
1	5 7/16	10 7/8	28201	28259	28311	28355
1 1/16	5 5/8	11 1/4	28202	28260	*	28356
1 1/8	5 13/16	11 5/8	28203	28261	*	28357
1 3/16	6	12	28204	28262	*	28358
1 1/4	6 1/8	12 1/4	28205	28263	*	28359
1 5/16	6 1/4	12 1/2	28206	28264	*	28360
1 3/8	6 5/16	12 5/8	28207	28265	*	28361
1 7/16	6 7/16	12 7/8	28208	28266	*	28362
1 1/2	6 1/2	13	28209	28267	*	28363

ARBORS, BROACHES, AND MISC.

TOOL BITS

SQUARE TOOL BITS

Red Nose (Cobalt) - A superior quality Full Ground Tool Bit that performs exceptionally well on forgings, castings and any cuts of heavy nature or where high heat is a factor.

Blue Tip (HSS) - A fine general purpose Ground Tool Bit that shows exceptional results on mild steel, alloys and tool steels. This tool bit makes a incomparable finishing tool.

Red Nose (Cobalt)	Blue Tip (HSS)	T-15		
Catalog EDI-Number	Catalog EDI-Number	Catalog EDI-Number	Inches Square	Length Overall
30261-X608	30281-X608	30311-X608	1/8	2 1/2
30262-X610	30282-X610	30312-X610	3/16	2 1/2
30263-X612	30283-X612	30313-X612	1/4	2 1/2
30264-X614	30284-X614	30314-X614	5/16	2 1/2
30265-X616	30285-X616	30315-X616	3/8	3
30266-X618	30286-X618	30316-X618	7/16	3 1/2
30267-X620	30287-X620	30317-X620	1/2	4
30273-X621	30293-X621	30323-X621	1/2	6
30268-X622	30288-X622	30318-X622	5/8	4 1/2
30269-X624	30289-X624	30319-X624	3/4	5
30270-X626	30290-X626	30320-X626	7/8	6
30271-X628	30291-X628	30321-X628	1	7
30272-X629	30292-X629	30322-X629	1 1/4	7

RECTANGULAR TOOL BITS

Red Nose (Cobalt)	Blue Tip (HSS)			
Catalog EDI-Number	Catalog EDI-Number	Width	Height	Length Overall
30341-RX30	30391-RX30	1/8	5/8	5
30342-RX32	30392-RX32	1/8	3/4	6
30343-RX34	30393-RX34	1/8	7/8	6
30344-RX36	30394-RX36	1/8	1	6 1/2
30345-RX62	30395-RX62	3/16	3/4	6
30346-RX64	30396-RX64	3/16	7/8	6
30347-RX66	30397-RX66	3/16	1	6 1/2
30348-RX110	30398-RX110	1/4	3/8	3
30349-RX112	30399-RX112	1/4	1/2	4
30350-RX114	30400-RX114	1/4	3/4	5
30351-RX116	30401-RX116	1/4	1	6
30352-RX120	30402-RX120	5/16	7/16	3 1/2
30353-RX124	30403-RX124	5/16	5/8	4
30354-RX130	30404-RX130	3/8	1/2	4
30355-RX132	30405-RX132	3/8	1/2	6
30356-RX134	30406-RX134	3/8	5/8	4 1/2

Red Nose (Cobalt)	Blue Tip (HSS)			
Catalog EDI-Number	Catalog EDI-Number	Width	Height	Length Overall
30357-RX136	30407-RX136	3/8	5/8	6
30358-RX138	30408-RX138	3/8	3/4	4
30359-RX140	30409-RX140	3/8	3/4	6
30360-RX142	30410-RX142	3/8	1	6
30361-RX160	30411-RX160	1/2	5/8	4 1/2
30362-RX162	30412-RX162	1/2	3/4	4
30363-RX164	30413-RX164	1/2	3/4	6
30364-RX166	30414-RX166	1/2	1	8
30365-RX180	30415-RX180	5/8	3/4	5
30366-RX182	30416-RX182	5/8	7/8	6
30367-RX184	30417-RX184	5/8	1 1/4	6
30368-RX206	30418-RX206	3/4	1	6
30369-RX212	30419-RX212	3/4	1 1/4	7
30370-RX214	30420-RX214	3/4	1 1/2	7
30371-RX230	30421-RX230	7/8	1 1/8	7
30372-RX234	30422-RX234	7/8	1 1/4	7
30373-RX268	30423-RX268	1	1 1/4	6

LATHE MANDRELS

F&D Lathe Mandrels are precision made of tool steel hardened and accurately ground. Tapered .0005" to 1". Those from 3/16" to 1" are .0005" undersize at small end. Those from 1 1/16" to 3" are .001" undersize at small end.

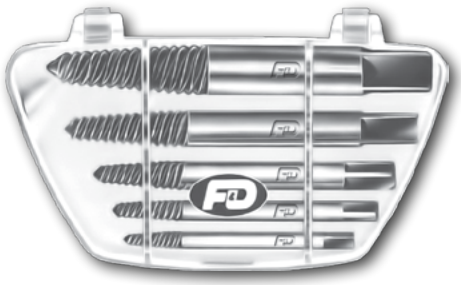
Catalog EDI-#	Dia	OAL
30441-X810	3/16	3
30442-X812	1/4	3 3/4
30443-X814	5/16	4
30444-X816	3/8	4 1/4
30445-X818	7/16	4 1/2
30446-X820	1/2	5
30447-X822	9/16	5 1/4
30448-X824	5/8	5 1/2
30449-X826	11/16	5 3/4
30450-X828	3/4	6
30451-X830	13/16	6 1/4
30452-X832	7/8	6 1/2
30453-X834	15/16	6 3/4
30454-X836	1	7
30455-X838	1 1/16	7 1/4
30456-X840	1 1/8	7 1/2
30457-X842	1 3/16	7 3/4
30458-X844	1 1/4	8
30459-X846	1 5/16	8 1/4
30460-X848	1 3/8	8 1/2
30461-X850	1 7/16	8 3/4
30462-X852	1 1/2	9
30463-X854	1 9/16	9 1/4
30464-X856	1 5/8	9 1/2
30465-X858	1 11/16	9 3/4
30466-X860	1 3/4	10
30467-X862	1 13/16	10 1/4
30468-X864	1 7/8	10 1/2
30469-X866	1 15/16	10 3/4
30470-X868	2	11
30471-X870	2 1/8	11 1/2
30472-X872	2 1/4	12
30473-X874	2 3/8	12
30474-X876	2 1/2	12 1/2
30475-X878	2 5/8	12 1/2
30476-X880	2 3/4	13
30477-X882	2 7/8	13
30478-X884	3	13

SCREW EXTRACTOR

No. 1136

Screw Extractors will quickly remove broken screws, studs, pipe fittings, etc. without damaging the threads. To remove broken screws or studs, drill a hole in the broken end and start the extractor with a tap wrench, turning to the left.

Catalog EDI-#	No.	Dia. Small End	Dia. Large End	Length of Thread	OAL	Size Drill to Use	For Screw and Bolt Sizes	For Pipe Sizes
30501	1	1/16	1/8	1/2	2	5/64	3/16-1/4	-
30502	2	3/32	13/64	7/8	2 3/8	7/64	1/4-5/16	-
30503	3	1/8	1/4	1	2 11/16	5/32	5/16-7/16	-
30504	4	3/16	11/32	1 1/4	3	1/4	7/16-9/16	-
30505	5	1/4	7/16	1 1/2	3 3/8	17/64	9/16-3/4	1/8
30506	6	3/8	19/32	1 3/4	3 3/4	13/32	3/4-1	-
30507	7	1/2	25/32	2 1/4	4 1/8	17/32	1-1 3/8	-
30508	8	3/4	1 1/32	2 1/4	4 3/8	13/16	1 3/8-1 3/4	3/4
30509	9	1	1 9/32	2 1/4	4 5/8	1 1/6	1 3/4-2 1/8	1
30510	10	1 7/32	1 17/32	2 1/4	5	1 9/32	2 1/8-2 1/2	1 1/4
30511	11	1 15/32	1 27/32	2 1/2	5 5/8	1 17/32	2 1/2-3	1 1/2
30512	12	1 27/32	2 9/32	2 1/2	6 1/4	1 15/16	3-3 1/2	2



SCREW EXTRACTOR SET

No. 1136S

Catalog EDI-#	
30520	Set of #1 - #5

CENTERS

MORSE TAPER

					Carbon Steel	HSS Tipped	Carbide Tipped
Taper No.	Size Line	Small Dia.	Length Taper	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
0	.3561	.259	2	2 7/8	30001-X710	30161-X710	30209-X710
1	.475	.376	2 1/8	3 5/16	30002-X712	30162-X712	30210-X712
2	.700	.579	2 9/16	4 3/16	30003-X714	30163-X714	30211-X714
3	.938	.785	3 3/16	5 1/4	30004-X716	30164-X716	30212-X716
4	1.231	1.027	4 1/16	6 3/4	30005-X718	30165-X718	30213-X718
5	1.748	1.482	5 3/16	8 1/2	30006-X720	30166-X720	30214-X720
6	2.494	2.130	7 1/8	11 3/4	30007-X722	30167-X722	30215-X722

BROWN & SHARPE TAPER

					Carbon Steel	HSS Tipped	Carbide Tipped
Taper No.	Size Line	Small Dia.	Length Taper	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
6	.599	15/32	2 3/8	3 5/8	30008-X730	30168-X730	30216-X730
7	.725	37/64	3	4 1/2	30009-X732	30169-X732	30217-X732
8	.898	45/64	3 9/16	5 9/16	30010-X734	30170-X734	30218-X734
9	1.067	7/8	4	6 1/4	30011-X736	30171-X736	30219-X736
10	1.289	1 1/64	5 11/16	7 1/2	30012-X738	30172-X738	30220-X738
11	1.531	1 7/32	6 3/4	9 5/8	30013-X740	30173-X740	30221-X740
12	1.797	1 15/32	7 1/8	10 3/8	30014-X742	30174-X742	30222-X742

JARNO TAPER

					Carbon Steel	HSS Tipped	Carbide Tipped
Taper No.	Size Line	Small Dia.	Length Taper	OAL	Catalog EDI-#	Catalog EDI-#	Catalog EDI-#
6	.750	.600	3	4 1/2	30015-X750	30175-X750	30223-X750
7	.875	.700	3 1/2	5 1/4	30016-X752	30176-X752	30224-X752
8	1.000	.800	4	6 1/4	30017-X754	30177-X754	30225-X754
9	1.125	.900	4 1/2	6 3/4	30018-X756	30178-X756	30226-X756
10	1.250	1.000	5	7 1/2	30019-X758	30179-X758	30227-X758
11	1.375	1.100	5 1/2	8	30020-X760	30180-X760	30228-X760
12	1.500	1.200	6	8 7/8	30021-X762	30181-X762	30229-X762
13	1.625	1.300	6 1/2	9 7/8	30022-X764	30182-X764	30230-X764
14	1.750	1.400	7	10 3/4	30023-X766	30183-X766	30231-X766
15	1.875	1.500	7 1/2	11 1/4	30024-X768	30184-X768	30232-X768
16	2.000	1.600	8	12	30025-X770	30185-X770	30233-X770
17	2.125	1.700	8 1/2	12 3/4	30026-X772	30186-X772	30234-X772

ENDMILL ADAPTERS
With Morse Taper Shanks

Style A - With Tang

Style B - Threaded for draw bar

Style A Catalog EDI-#	Style B Catalog EDI-#	Morse Taper	Bore Dia.
30801-EH-200A	30802-EH-200B	2	3/16
30803-EH-201A	30804-EH-201B	2	3/8
30805-EH-202A	30806-EH-202B	2	1/2
30807-EH-210A	30808-EH-210B	3	3/16
30809-EH-211A	30810-EH-211B	3	3/8
30811-EH-212A	30812-EH-212B	3	1/2
30813-EH-213A	30814-EH-213B	3	5/8
30815-EH-214A	30816-EH-214B	3	3/4
30817-EH-220A	30818-EH-220B	4	3/8
30819-EH-221A	30820-EH-221B	4	1/2
30821-EH-222A	30822-EH-222B	4	5/8
30823-EH-223A	30824-EH-223B	4	3/4
30825-EH-224A	30826-EH-224B	4	7/8
30827-EH-225A	30828-EH-225B	4	1

Style A Catalog EDI-#	Style B Catalog EDI-#	Morse Taper	Bore Dia.
30829-EH-230A	30830-EH-230B	5	3/8
30831-EH-231A	30832-EH-231B	5	1/2
30833-EH-232A	30834-EH-232B	5	5/8
30835-EH-233A	30836-EH-233B	5	3/4
30837-EH-234A	30838-EH-234B	5	7/8
30839-EH-235A	30840-EH-235B	5	1
30841-EH-236A	30842-EH-236B	5	1 1/4
30843-EH-237A	-	5	1 1/2
-	30844-EH-237B	5	1 1/2
30845-EH-238A	-	5	2
-	30846-EH-238B	5	2
30847-EH-240A	30848-EH-240B	6	1 1/2
30849-EH-241A	-	6	2
30851-EH-250A	-	7	1 1/2
30853-EH-251A	-	7	2
30855-EH-252A	-	7	2 1/2

SHELL ENDMILL ARBORS
B & S Taper

Style A Catalog EDI #	Style B Catalog EDI #	Arbor Dia.	B&S Taper	To Fit Dia. Range of Shell Endmills
30621-SEH-102A	30622-SEH-102B	1/2	7	1 1/4 - 1 1/2
30623-SEH-104A	30624-SEH-104B	3/4	7	1 3/4 - 2
30625-SEH-106A	30626-SEH-106B	1	7	2 1/4-2 3/4
30627-SEH-112A	30628-SEH-112B	1/2	9	1 1/4 - 1 1/2
30629-SEH-114A	30630-SEH-114B	3/4	9	1 3/4 - 2
30631-SEH-116A	30632-SEH-116B	1	9	2 1/4 - 2 3/4
30633-SEH-117A	30634-SEH-117B	1 1/4	9	3 - 3 1/2
30635-SEH-118A	30636-SEH-118B	1 1/2	9	4-5
30637-SEH-119A	30638-SEH-119B	2	9	5 1/2 - 6
30639-SEH-122A	30640-SEH-122B	1/2	10	1 1/4 - 1 1/2
30641-SEH-124A	30642-SEH-124B	3/4	10	1 3/4 - 2
30643-SEH-126A	30644-SEH-126B	1	10	2 1/4 - 2 3/4
30645-SEH-127A	30646-SEH-127B	1 1/4	10	3 - 3 1/2
30647-SEH-128A	30648-SEH-128B	1 1/2	10	4-5
30649-SEH-129A	30650-SEH-129B	2	10	5 1/2 - 6
30651-SEH-132A	30652-SEH-132B	1/2	11	1 1/4 - 1 1/2
30653-SEH-134A	30654-SEH-134B	3/4	11	1 3/4 - 2
30655-SEH-136A	30656-SEH-136B	1	11	2 1/4 - 2 3/4
30657-SEH-137A	30658-SEH-137B	1 1/4	11	3 - 3 1/2
30659-SEH-138A	30660-SEH-138B	1 1/2	11	4-5
30661-SEH-139A	30662-SEH-139B	2	11	5 1/2 - 6

ENDMILL ADAPTERS
B & S Taper

Style A Catalog EDI #	Style B Catalog EDI #	B&S Taper	Bore Dia
30731-EH-100A	30732-EH-100B	7	3/16
30733-EH-101A	30734-EH-101B	7	3/8
30735-EH-102A	30736-EH-102B	7	1/2
30737-EH-110A	30738-EH-110B	9	3/16
30739-EH-111A	30740-EH-111B	9	3/8
30741-EH-112A	30742-EH-112B	9	1/2
30743-EH-113A	30744-EH-113B	9	5/8
30745-EH-114A	30746-EH-114B	9	3/4
30747-EH-115A	30748-EH-115B	9	7/8
30749-EH-116A	30750-EH-116B	9	1
30751-EH-120A	30752-EH-120B	10	3/8
30753-EH-121A	30754-EH-121B	10	1/2
30755-EH122A	30756-EH-122B	10	5/8
30757-EH-123A	30758-EH-123B	10	3/4
30759-EH-124A	30760-EH-124B	10	7/8
30761-EH-125A	30762-EH-125B	10	1
30763-EH-126A	30764-EH-126B	10	1 1/4
30765-EH-130A	30766-EH-130B	11	3/8
30767-EH-131A	30768-EH-131B	11	1/2
30769-EH-132A	30770-EH-132B	11	5/8
30771-EH-133A	30772-EH-133B	11	3/4
30773-EH-134A	30774-EH-134B	11	7/8
30775-EH-135A	30776-EH-135B	11	1
30777-EH-136A	30778-EH-136B	11	1 1/4

ARBORS / ADAPTERS

R-8 ARBORS & ADAPTERS

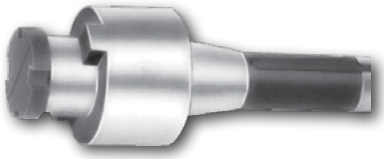
STUB MILLING MACHINE ARBORS

Arbors furnished with spacers

Catalog EDI-No.	Diameter of Arbor	Length Shoulder to Nut
31101-R8-1	1	2
31102-R8-1 1/4	1 1/4	2

ENDMILL ADAPTERS

Catalog EDI-No.	Diameter of Arbor
31151-R8-E10	3/16
31152-R8-E11	3/8
31153-R8-E12	1/2
31154-R8-E13	5/8
31155-R8-E14	3/4
31156-R8-E15	7/8
31157-R8-E16	1
31158-R8-E17	1 1/4



SHELL ENDMILL ARBORS

Catalog EDI-No.	Diameter of Arbor	Dia. Range of Std Shell Endmill
31121-R8-S 1/2	1/2	1 1/4 - 1 1/2
31122-R8-S 3/4	3/4	1 3/4 - 2
31123-R8-S 1	1	2 1/4 - 2 3/4
31124-R8-S 1-1/4	1 1/4	3 - 3 1/2
31125-R8-S 1-1/2	1 1/2	4-5

TAPER SHANK ADAPTERS

Catalog EDI-No.	Inside Taper
31176-R8-M2	MT #2
31177-R8-M3	MT #3
31178-R8-B7	B&S #7

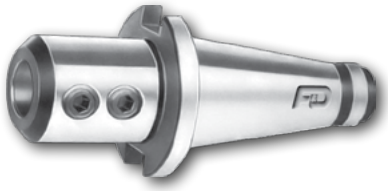
SHELL ENDMILL ARBORS
MORSE TAPER SHANK

Draw Bar Catalog EDI-#	Tanged Catalog EDI-#	Morse Taper Shank	Arbor Dia.
67001	67009	4	1/2
67002	67010	4	3/4
67003	67011	4	1
67004	67012	4	1 1/4
67005	67013	4	1 1/2
67006	67014	5	1
67007	67015	5	1 1/4
67008	67016	5	1 1/2

Catalog EDI-Number	Shank Size	Bore Dia.
30681-EH-10	30	3/16
30682-EH-11	30	3/8
30683-EH-12	30	1/2
30684-EH-13	30	5/8
30685-EH-14	30	3/4
30686-EH-15	30	7/8
30687-EH-16	30	1
30688-EH-17	30	1 1/4
30689-EH-20	40	3/16
30690-EH-21	40	3/8
30691-EH-22	40	1/2
30692-EH-23	40	5/8
30693-EH-24	40	3/4
30694-EH-25	40	7/8

Catalog EDI-Number	Shank Size	Bore Dia.
30695-EH-26	40	1
30696-EH-27	40	1 1/4
30697-EH-28	40	1 1/2
30698-EH-30	50	3/16
30699-EH-31	50	3/8
30700-EH-32	50	1/2
30701-EH-33	50	5/8
30702-EH-34	50	3/4
30703-EH-35	50	7/8
30704-EH-36	50	1
30705-EH-37	50	1 1/4
30706-EH-38	50	1 1/2
30707-EH-39	50	2
30708-EH-40	50	2 1/2

ENDMILL ADAPTERS
With #30, 40, & 50 Tapers



MILLING MACHINE ARBORS

#30, 40 OR 50 Tapers

Each arbor is supplied with assorted spacers and running bushings as shown. Arbors have standard keyway and threads for drawbar.

#30 Taper 1/2-13, #40 Taper 5/8-11, #50 Taper 1"-8

STYLE A

STYLE B

STYLE A

Catalog EDI-Number	Taper	Dia. of Arbor	Length Shoulder to Nut	Dia. of Running Bushing	No. of Bushings Furnished
31011-30 7/8 A10-2	30	7/8	10	1 5/8	1
31012-31 A10-2	30	1	10	1 5/8	1
31013-31 1/4 A10-2	30	1 1/4	10	1 5/8	1
31014-40 7/8 A10	40	7/8	10	-	0
31015-40 7/8 A16-3	40	7/8	16	1 7/8	1
31016-41 A8	40	1	8	-	0
31017-41 A12	40	1	12	-	0
31018-41 A16-3	40	1	16	1 7/8	1
31019-41 1/4 A8	40	1 1/4	8	-	0
31020-41 1/4 A12	40	1 1/4	12	-	0
31021-41 1/4 A16-3	40	1 1/4	16	1 7/8	1
31022-41 1/2 A10	40	1 1/2	10	-	0
31023-50 7/8 A10	50	7/8	10	-	0
31024-50 7/8 A18-4	50	7/8	18	2 1/8	1
31025-51 A8	50	1	8	-	0
31026-51 A12	50	1	12	-	0
31027-51 A18-4	50	1	18	2 1/8	1
31028-51 1/4 A8	50	1 1/4	8	-	0
31029-51 1/4 A12	50	1 1/4	12	-	0
31030-51 1/4 A18-4	50	1 1/4	18	2 1/8	1
31031-51 1/2 A18-4	50	1 1/2	18	2 1/8	1

STYLE B

Catalog EDI-Number	Taper	Dia. of Arbor	Length Shoulder to Nut	Dia. of Running Bushing	No. of Bushings Furnished
31051-31 B2	30	1	2	-	0
31052-31 1/4 B2	30	1 1/4	2	-	0
31053-40 7/8 B14-3	40	7/8	14	1 7/8	1
31055-41 B3	40	1	3	-	0
31056-41 B14-3	40	1	14	1 7/8	1
31057-41 B20-3	40	1	20	1 7/8	1
31058-41 1/4 B3	40	1 1/4	3	-	0
31059-41 1/4 B14-3	40	1 1/4	14	1 7/8	1
31060-41 1/4 B20-3	40	1 1/4	20	1 7/8	1
31061-41 1/2 B20-4	40	1 1/2	20	2 1/8	1
31062-51 B3 1/2	50	1	3 1/2	-	0
31063-51 B15-4	50	1	15	2 1/8	1
31064-51 B18-4	50	1	18	2 1/8	2
31065-51 B24-4	50	1	24	2 1/8	2
31066-51 1/4 B3 1/2	50	1 1/4	3 1/2	-	0
31067-51 1/4 B15-4	50	1 1/4	15	2 1/8	1
31068-51 1/4 B18-4	50	1 1/4	18	2 1/8	2
31069-51 1/4 B24-4	50	1 1/4	24	2 1/8	2
31070-51 1/4 B30-4	50	1 1/4	30	2 1/8	2
31071-51 1/2 B3 1/2	50	1 1/2	3 1/2	-	0
31072-51 1/2 B18-4	50	1 1/2	18	2 1/8	2
31073-51 1/2 B24-5	50	1 1/2	24	2 3/4	2
31074-51 1/2 B30-5	50	1 1/2	30	2 3/4	2
31075-51 1/2 B36-5	50	1 1/2	36	2 3/4	2
31076-52 B24-5	50	2	24	2 3/4	2
31077-52 B30-5	50	2	30	2 3/4	2
31078-52 B36-5	50	2	36	2 3/4	2
31079-52 B48-5	50	2	48	2 3/4	2
31080-52 1/2 B36-6	50	2 1/2	36	3 3/8	2

ARBOR SPACERS AND SHIMS

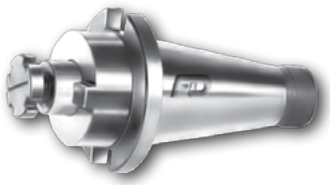
ARBOR SPACER SHIMS IN SETS

Arbor Spacers and Shims are used for fast, accurate spacing of milling cutters, saws and grinding tools. Available in thicknesses from .001" to .025", with hole diameters from 1/2" to 2".

F&D Arbor Spacers and Shims are made from high quality material and have the same exacting thickness tolerance standards as our cutting tools. I.D. tolerances are within -.000 + .001; O.D. tolerances are ±.002.

Conveniently packaged in air tight poly bags, 19 pieces per package consists of; 2 Ea: .001, .002, .003, .004, .005, .006 and 1 Ea.: .007, .008, .010, .012, .015, .020, .025. Arbor shims are made without keyways. Spacers are made with keyways.

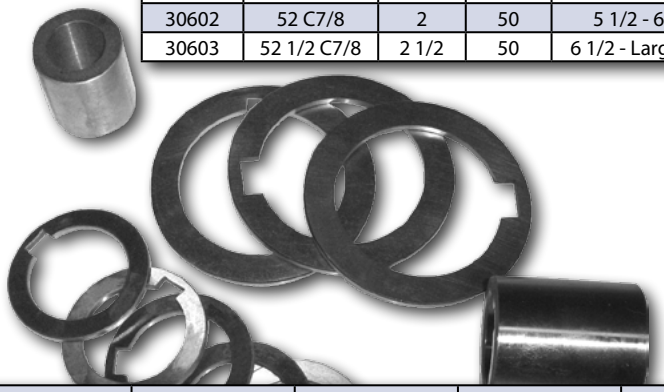
Catalog EDI-Number	Hole Dia.	Outside Dia.
30990	1/2	3/4
30991	5/8	1
30992	3/4	1 1/8
30993	7/8	1 3/8
30994	1	1 1/2
30995	1 1/4	1 3/4
30996	1 1/2	2 1/8
30997	2	3



SHELL ENDMILL ARBORS

With National Standard Tapers No. 40 & No. 50
Shell Endmill Arbors for Milling Machines having #40 or #50 national standard spindles. Shanks are tapped for draw-in bolt. All arbors are packed with spanner wrench.

Catalog EDI-#	Arbor Number	Arbor Dia.	Shank Size	To Fit Dia. Range of Shell Endmills
30591	40 1/2 C5/8	1/2	40	1 1/4 - 1 1/2
30592	50 1/2 C5/8	1/2	50	1 1/4 - 1 1/2
30593	40 3/4 C5/8	3/4	40	1 3/4 - 2
30594	50 3/4 C5/8	3/4	50	1 3/4 - 2
30595	41 C7/8	1	40	2 1/4 - 2 3/4
30596	51 C7/8	1	50	2 1/4 - 2 3/4
30597	41 1/4 C7/8	1 1/4	40	3 - 3 1/2
30598	51 1/4 C7/8	1 1/4	50	3 - 3 1/2
30599	41 1/2 C7/8	1 1/2	40	4-5
30600	51 1/2 C7/8	1 1/2	50	4-5
30601	42 C7/8	2	40	5 1/2 - 6
30602	52 C7/8	2	50	5 1/2 - 6
30603	52 1/2 C7/8	2 1/2	50	6 1/2 - Larger



ARBOR SPACERS – LIST NO. AR100

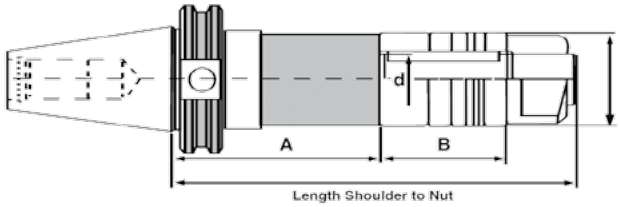
Arbor Spacers are hardened and ground.

Width	3/4" Bore EDI-# 1 1/8" OD	7/8" Bore EDI-# 1 3/8" OD	1" Bore EDI-# 1 1/2" OD	1-1/4" Bore EDI-# 1 3/4" OD	1-1/2" Bore EDI-# 2 1/8" OD	2" Bore EDI-# 2 3/4" OD	2-1/2" Bore EDI-# 3 1/2" OD
1/16	30871	30872	30873	30874	30875	30876	30877
3/32	30878	30879	30880	30881	30882	30883	30884
1/8	30885	30886	30887	30888	30889	30890	30891
3/16	30892	30893	30894	30895	30896	30897	30898
1/4	30899	30900	30901	30902	30903	30904	30905
5/16	30906	30907	30908	30909	30910	30911	30912
3/8	30913	30914	30915	30916	30917	30918	30919
7/16	30920	30921	30922	30923	30924	30925	30926
1/2	30927	30928	30929	30930	30931	30932	30933
5/8	30934	30935	30936	30937	30938	30939	30940
3/4	30941	30942	30943	30944	30945	30946	30947
7/8	30948	30949	30950	30951	30952	30953	30954
1	30955	30956	30957	30958	30959	30960	30961
1 1/4	30962	30963	30964	30965	30966	30967	30968
1 1/2	30969	30970	30971	30972	30973	30974	30975
2	30976	30977	30978	30979	30980	30981	30982
3	30983	30984	30985	30986	30987	30988	30989

Straight Shank Stub Milling Machine Arbors
See Page 7

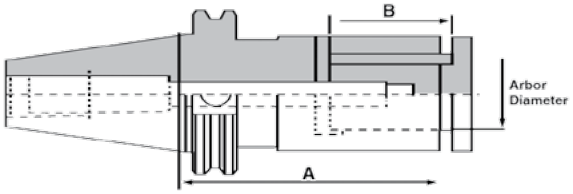
STUB ARBOR HOLDERS

Face is held perpendicular to center line within point .0002".
Pilot diameter is keyed for positive drive.
RH heavy duty locking nut.
5 arbor spacers included - 1/16", 1/8", 1/4", 3/8", 3/4".
For additional spacers see page 129.
Retention knobs are sold separately.



Taper	Arbor Dia.	A	B	Holder Dia.	Length Shoulder to Nut	Catalog EDI-#
40	1	4	2	1 1/2	7 1/2	53001
40	1 1/4	4	2	1 3/4	7 3/4	53002
40	1 1/2	4	2	2 1/8	8	53003
50	1	4	2	1 1/2	7 1/2	53004
50	1	6	2	1 1/2	9 1/2	53005
50	1 1/4	4	2	1 3/4	7 3/4	53006
50	1 1/4	6	2	1 3/4	9 3/4	53007
50	1 1/2	4	2	2 1/8	8	53008
50	1 1/2	6	2	2 1/8	10	53009

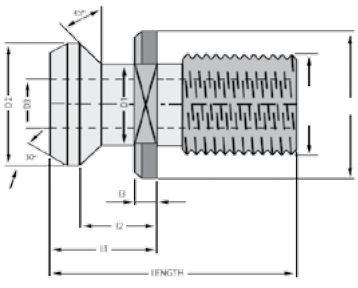
Slitting/Slotting Saw Arbors for Screw and Jeweler's Saws
See Page 43

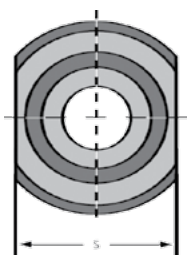


SEMI-FLUSH SLITTING SAW HOLDERS

Face is held perpendicular to center line within point .0002".
Pilot diameter is keyed for positive drive.
Designed for saws up to 5/16" thick, for wider cutters, use Stub Arbor Holder.
Retention knobs are sold separately.

Taper	Arbor Dia.	A	B	Holder Screw Size	Catalog EDI-#
40	5/8	4	1 3/4	M8x1.25	53020
40	1	4	1 3/4	M10x1.5	53021
40	1 1/4	4	1 3/4	M10x1.5	53022
50	1	4	1 3/4	M10x1.5	53023
50	1	6	3	M10x1.5	53024
50	1 1/4	4	1 3/4	M10x1.5	53025
50	1 1/4	6	3	M10x1.5	53026





RETENTION KNOBS

Taper	Thread	D	D1	D2	D3	Length	I1	I2	I3	S	Catalog EDI-Number
40	5/8-11UNC	.898	.492	.280	.744	1.496	.640	.437	.118	.748	53030
50	1-8	1.400	.823	.471	1.146	2.244	1.000	.700	.197	1.185	53031
HAAS 40	5/8-11UNC	1.280	.394	-	.591	2.299	1.260	.984	.236	.748	53032

KEYWAY BROACHES

KEYWAY BROACHES

(STANDARD BROACH TOLERANCES)

Pressures listed below are for maximum length of cut. If these lengths must be exceeded, a special keyway broach should be ordered. For minimum length of cut, pieces may be broached by stacking and clamping

LIST NO. BR100

Broach	Catalog EDI-No.	Keyway Width Tol.	Dimen.	No. of Shims	Min. Length of Cut	Max. of Length	Pressure Required For Max. L/C
1/16-I	33931	.0625-.0635	1/8 x 5 1/4	0	13/64	1 1/8	270lbs.
3/32-I	33932	.0937-.0947	1/8 x 5 1/4	0	13/64	1 1/8	810lbs.
1/8-I	33933	.1252-.1262	1/8 x 5 1/4	1	13/64	1 1/8	720lbs.
3/32-II	33934	.0937-.0947	3/16 x 7	0	19/64	1 11/16	990lbs.
1/8-II	33935	.1252-.1262	3/16 x 7	1	19/64	1 11/16	780lbs.
5/32-II	33936	.1564-.1574	3/16 x 7	1	19/64	1 11/16	1,560lbs.
3/16-II	33937	.1877-.1887	3/16 x 7	1	19/64	1 11/16	2,100lbs.
3/16-III	33938	.1877-.1887	3/8 x 12	1	13/32	2 1/2	1,440lbs.
1/4-III	33939	.2502-.2512	3/8 x 12	1	13/32	2 1/2	2,580lbs.
5/16-III	33940	.3127-.3137	3/8 x 12	1	13/32	2 1/2	4,200lbs.
3/8-III	33941	.3755-.3765	3/8 x 12	2	13/32	2 1/2	3,600lbs.
5/16-IV	33942	.3127-.3137	9/16 x 13 3/4	1	3/4	6	9,250lbs.
3/8-IV	33943	.3755-.3765	9/16 x 13 3/4	2	3/4	6	8,000lbs.
7/16-IV	33944	.4380-.4390	9/16 x 13 3/4	2	3/4	6	11,750lbs.
1/2-IV	33945	.5006-.5016	9/16 x 13 3/4	3	3/4	6	11,000lbs.
5/8-V	33946	.6260-.6270	3/4 x 15 1/4	4	3/4	6	11,500lbs.
3/4-V	33947	.7515-.7525	3/4 x 15 1/4	5	3/4	6	13,500lbs.
7/8-VI	33948	.8765-.8775	1 x 19 1/4	6	3/4	6	11,000lbs.
1"-VI	33949	1.0015-1.0025	1 x 19 1/4	7	3/4	6	14,000lbs.

FULL SQUARE BROACHES

F&D Tool offers the following high-speed steel, full square broaches as standard items, available directly from stock. Other sizes may be furnished on special order.

LIST NO. BR300

Size Square	Catalog EDI-No.	Tolerances	Dimensions Across Corners	Pilot Dia.	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure for Max. L/C
3/16	33971	.1880-.1890	.2628-.2632	.1870	6 1/4	3/16	1/2	1,200lbs.
1/4	33972	.2505-.2515	.3513-.3517	.2495	8 5/8	1/4	5/8	1,600lbs.
5/16	33973	.3130-.3140	.4375-.4380	.3120	10 1/4	1/4	3/4	2,300lbs.
3/8	33974	.3755-.3765	.5243-.5247	.3745	12 1/4	3/8	1	3,750lbs.
1/2	33975	.5005-.5015	.6980-.6990	.4995	14 7/16	3/8	1	5,000lbs.

STANDARD INCH SQUARE BROACHES

Standard inch square broaches are high-speed steel, push type – designed for one pass finishing when used with arbor or hydraulic press, or vertical broaching machines.

LIST NO. BR500

Size Square	Catalog EDI-No.	Tolerances	Dimensions Across Corners	Pilot Dia.	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure for Max. L/C
1/8	34001	.1250-.1260	.1750-.1770	.1285	4 5/8	3/16	1/2	700lbs.
5/32	34002	.1565-.1575	.2180-.2200	.159	5 5/8	1/4	1/2	800lbs.
3/16	34003	.1880-.1890	.2620-.2640	.193	5 11/16	1/4	5/8	1,120lbs.
7/32	34004	.2190-.2200	.3050-.3070	.228	6 7/8	1/4	3/4	1,580lbs.
1/4	34005	.2505-.2515	.3500-.3520	17/64	7	1/4	3/4	1,740lbs.
9/32	34006	.2815-.2825	.3930-.3950	19/64	7 1/4	3/8	1	2,300lbs.
5/16	34007	.3130-.3140	.4370-.4390	21/64	8 1/8	3/8	1	2,630lbs.
11/32	34008	.3440-.3450	.4810-.4830	23/64	9 5/8	3/8	1 1/4	3,050lbs.
3/8	34009	.3755-.3765	.5230-.5250	25/64	9 7/8	3/8	1 1/4	3,625lbs.
13/32	34010	.4065-.4075	.5680-.5700	27/64	10 7/8	1/2	1 3/8	5,200lbs.
7/16	34011	.4385-.4395	.6100-.6130	29/64	11 3/8	1/2	1 3/8	5,700lbs.
15/32	34012	.4690-.4700	.6560-.6580	1/2	12 1/2	1/2	1 3/8	5,900lbs.
1/2	34013	.5005-.5015	.6970-.6990	17/32	12 5/8	1/2	1 3/8	6,000lbs.
9/16	34014	.5630-.5640	.7860-.7880	19/32	14 7/8	1/2	1 1/2	6,200lbs.
5/8	34015	.6260-.6270	.8710-.8730	21/32	16 13/16	5/8	1 5/8	7,100lbs.
11/16	34016	.6885-.6895	.9610-.9630	3/4	18 1/2	5/8	1 5/8	7,300lbs.
3/4	34017	.7510-.7520	1.0450-1.0470	13/16	18 7/8	5/8	1 5/8	8,600lbs.
7/8	34018	.8765-.8775	1.2280-1.2300	15/16	22 3/4	1/2	2	12,000lbs.
1	34019	1.0020-1.0030	1.4030-1.4050	1 3/32	24 1/2	1/2	2	12,500lbs.

STANDARD HEXAGON BROACHES

All hexagon broaches are push type. They can be used: (a) with hydraulic press; (b) with arbor press; and (c) with vertical broaching machine. Made of high speed steel, they will produce a finely finished hex in one pass, in a cast or drilled hole.

LIST NO. BR700

Size Square	Catalog EDI-No.	Tolerances	Diagonal Dimension	Pilot Dia.	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure for Max. L/C
1/8	34041	.1255-.1260	.1450-.1470	1/8	4 5/8	3/16	3/8	120lbs.
5/32	34042	.1565-.1570	.1800-.1820	5/32	5 1/2	1/4	1/2	340lbs.
3/16	34043	.1880-.1890	.2145-.2155	3/16	5 9/16	1/4	5/8	520lbs.
7/32	34044	.2190-.2200	.2500-.2520	7/32	6	1/4	3/4	890lbs.
1/4	34045	.2505-.2515	.2865-.2875	1/4	6 1/2	1/4	3/4	1,200lbs.
9/32	34046	.2815-.2825	.3220-.3240	9/32	7 3/4	3/8	1	1,650lbs.
5/16	34047	.3130-.3140	.3580-.3590	5/16	8 1/4	3/8	1	2,175lbs.
11/32	34048	.3440-.3450	.3950-.3970	11/32	8 1/4	3/8	1 1/4	3,500lbs.
3/8	34049	.3755-.3765	.4300-.4310	3/8	9	3/8	1 1/4	3,700lbs.
13/32	34050	.4065-.4075	.4670-.4690	13/32	10	1/2	1 3/8	4,100lbs.
7/16	34051	.4385-.4395	.5020-.5030	7/16	10 3/4	1/2	1 3/8	4,575lbs.
15/32	34052	.4690-.4700	.5390-.5410	15/32	12 3/8	1/2	1 3/8	4,700lbs.
1/2	34053	.5005-.5015	.5740-.5750	1/2	12 1/2	1/2	1 3/8	5,300lbs.
9/16	34054	.5630-.5640	.6480-.6500	9/16	14 1/4	1/2	1 1/2	6,700lbs.
5/8	34055	.6260-.6270	.7170-.7185	5/8	16 7/8	5/8	1 5/8	7,250lbs.
11/16	34056	.6880-.6890	.7930-.7950	11/16	17	5/8	1 5/8	9,300lbs.
3/4	34057	.7510-.7520	.8610-.8625	3/4	17 7/8	5/8	1 5/8	13,500lbs.
7/8	34058	.8755-.8765	1.0060-1.0075	7/8	18 7/8	5/8	1 5/8	18,500lbs.
1	34059	1.0020-1.0030	1.1520-1.1530	1	19 7/8	5/8	1 5/8	22,051lbs.

KEYWAY BROACHES

KEYWAY BROACHES - COMBINATION SETS

Packaged in attractive hardwood boxes with dividers for orderly tool arrangement, F&D Tool Broach Sets include broaches, bushings and shims. Instructions and lubrication guide are included. All broaches are high-speed steel. Individual items are all standard, for easy replacement.

PRECISION SET 1

High-speed steel broaches
3 broaches and 5 bushings = 15 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
1/16"	I	1/4", 5/16", 3/8", 7/16", 1/2"
3/32"	I	
1/8"	I	

STANDARD SET C-1

SET NO. C-1 – High-speed steel broaches
4 broaches and 9 bushings = 18 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
1/8"	II	1/2", 5/8", 3/4", 7/8"
3/16"	II	
1/4"	III	1", 1-1/8", 1-1/4", 1-3/8", 1-1/2"
3/8"	III	

STANDARD SET C-1A

SET NO. C-1A – High-speed steel broaches
4 broaches and 9 bushings = 18 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
1/8"	II	9/16", 11/16", 13/16"
3/16"	II	
1/4"	III	15/16", 1-1/16", 1-3/16", 1-5/16 1-7/16", 1-9/16"
3/8"	III	

STANDARD SETS C-10 AND C-10A

SET NO. C-10 – High-speed steel broaches
4 broaches and 18 bushings = 36 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
1/8"	II	1/2", 9/16", 5/8", 11/16" 3/4", 13/16", 7/8"
3/16"	II	
1/4"	III	15/16", 1", 1–1/16", 1–1/8", 1–3/16", 1–1/4" 1–5/16", 1–3/8", 1–7/16", 1–1/2", 1–9/16"
3/8"	III	

SET NO. C-10A – High-speed steel broaches
3 broaches and 18 bushings = 30 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
1/8"	II	1/2", 9/16", 5/8", 11/16", 3/4", 13/16"
3/16"	III	7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16" 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", 1-9/16"
1/4"	III	

STANDARD SET 3-D

SET NO. 3-D – High-speed steel broaches
3 broaches and 8 bushings = 24 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
3/8"	IV	1-1/2", 1-5/8", 1-3/4", 1-7/8" 2", 2-1/8", 2-1/4", 2-1/2"
7/16"	IV	
1/2"	IV	

STANDARD SET 3-DA

SET NO. 3-DA – High-speed steel broaches
3 broaches and 8 bushings = 24 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
3/8"	IV	1-7/16", 1-9/16", 1-11/16", 1-13/16" 1-15/16", 2-3/8", 2-7/16", 2-15/16"
7/16"	IV	
1/2"	IV	

HEAVY DUTY SET NO. 4-E

High-speed steel broaches
2 broaches and 6 bushings = 12 keyway combinations

Keyway Sizes	Broach Style	Bushing Diameters (and hole sizes)
5/8"	IV	2-3/8", 2-1/2", 2-5/8" 2-3/4", 2-7/8", 3"
3/4"	IV	

NOTE: High-speed steel keyway broach sets will be furnished, **2-3/4", 2-7/8", 3"** unless carbon steel sets are specified on order.

KEYWAY BUSHINGS
No. Q-200 Plain
No. Q-400 Collared

I Bushings for I Broaches

Catalog EDI-Number	Dia.	Length
34161	1/4	1 1/8
34162	5/16	1 1/8
34163	3/8	1 1/8
34164	7/16	1 1/8
34165	1/2	1 1/8

II Bushings for II Broaches

Catalog EDI-Number	Catalog EDI-Number	Dia.	Length
34081	34166	1/2	1 11/16
34082	34167	9/16	1 11/16
34083	34168	5/8	1 11/16
34084	34169	11/16	1 11/16
34085	34170	3/4	1 11/16
34086	34171	13/16	1 11/16
34087	34172	7/8	1 11/16

III Bushings for III Broaches

Catalog EDI-Number	Catalog EDI-Number	Dia.	Length
34088	34173	3/4	2 1/2
34089	34174	13/16	2 1/2
34090	34175	7/8	2 1/2
34091	34176	15/16	2 1/2
34092	34177	1	2 1/2
34093	34178	1 1/16	2 1/2
34094	34179	1 1/8	2 1/2
34095	34180	1 3/16	2 1/2
34096	34181	1 1/4	2 1/2
34097	34182	1 5/16	2 1/2
34098	34183	1 3/8	2 1/2
34099	34184	1 7/16	2 1/2
34100	34185	1 1/2	2 1/2
34101	34186	1 9/16	2 1/2

IV Bushings for IV Broaches

Catalog EDI-Number	Dia.	Length
34102	1 7/16	4
34103	1 1/2	4
34104	1 9/16	4
34105	1 5/8	4
34106	1 11/16	4
34107	1 3/4	4
34108	1 13/16	5
34109	1 7/8	5
34110	1 15/16	5
34111	2	5
34112	2 1/16	5
34113	2 1/8	5
34114	2 3/16	5

Note: VI Bushings are available on special order only.

IV Bushings for IV Broaches

Catalog EDI-Number	Dia.	Length
34115	2 1/4	5
34116	2 5/16	5
34117	2 3/8	6
34118	2 7/16	6
34119	2 1/2	6
34120	2 9/16	6
34121	2 5/8	6
34122	2 11/16	6
34123	2 3/4	6
34124	2 13/16	6
34125	2 7/8	6
34126	2 15/16	6
34127	3	6

V Bushings for V Broaches

Catalog EDI-Number	Dia.	Length
34128	2 5/16	6
34129	2 3/8	6
34130	2 7/16	6
34131	2 1/2	6
34132	2 9/16	6
34133	2 5/8	6
34134	2 11/16	6
34135	2 3/4	6
34136	2 13/16	6
34137	2 7/8	6
34138	2 15/16	6
34139	3	6

TAPS
& DIES

STANDARD HAND TAPS HIGH SPEED STEEL

Ground Thread, List No. 3102
High speed ground thread taps are regularly supplied in taper plug and bottoming style with exceptions shown below.

Sizes and dimensions not listed are special.

Supplied in 4 flutes.

Taper EDI-#	Plug EDI-#	Bottoming EDI-#	Size	Overall Length
32201	32202	32203	1/4-20	2 1/2
32204	32205	32206	1/4-28	2 1/2
32207	32208	32209	5/16-18	2 23/32
32210	32211	32212	5/16-24	2 23/32
32213	32214	32215	3/8-16	2 15/16
32216	32217	32218	3/8-24	2 15/16
32219	32220	32221	7/16-14	3 5/32
32222	32223	32224	7/16-20	3 5/32
32225	32226	32227	1/2-13	3 3/8
32228	32229	32230	1/2-20	3 3/8
32231	32232	32233	9/16-12	3 19/32
32234	32235	32236	9/16-18	3 19/32
32237	32238	32239	5/8-11	3 13/36
32240	32241	32242	5/8-18	3 13/36
32243	32244	32245	11/16-11	4 1/32
32246	32247	32248	11/16-16	4 1/32
32249	32250	32251	3/4-10	4 1/4
32252	32253	32254	3/4-16	4 1/4
32255	32256	32257	7/8-9	4 11/16
32258	32259	32260	7/8-14	4 11/16
32261	32262	32263	1-8	5 1/8
32264	32265	32266	1-12	5 1/8
32267	32268	32269	1-14	5 1/8
32270	32271	32272	1 1/8-7	5 7/16
32273	32274	32275	1 1/8-12	5 7/16
32276	32277	32278	1 1/4-7	5 3/4
32279	32280	32281	1 1/4-12	5 3/4
32282	32283	32284	1 3/8-6	6 1/16
32285	32286	32287	1 3/8-12	6 1/16
32288	32289	32290	1 1/2-6	6 3/8
32291	32292	32293	1 1/2-12	6 3/8

STANDARD MACHINE SCREW TAPS HIGH SPEED STEEL

Ground Thread, List No. 3117
These taps are standard in ground thread right hand American National form with standard number of flutes in taper, plug or bottoming style.

Taper EDI-#	Plug EDI-#	Bottoming EDI-#	Size	Overall Length
32311	32312	32313	0-80	1 5/8
32314	32315	32316	1-64	1 11/16
32317	32318	32319	1-72	1 11/16
32320	32321	32322	2-56	1 3/4
32323	32324	32325	2-64	1 3/4
32326	32327	32328	3-48	1 13/16
32329	32330	32331	3-56	1 13/16
32332	32333	32334	4-40	1 7/8
32335	32336	32337	4-48	1 7/8
32338	32339	32340	4-36	1 7/8
32341	32342	32343	5-40	1 15/16
32344	32345	32346	5-44	1 15/16
32347	32348	32349	6-32	2
32350	32351	32352	6-40	2
32353	32354	32355	8-32	2 1/8
32356	32357	32358	8-36	2 1/8
32359	32360	32361	10-24	2 3/8
32362	32363	32364	10-32	2 3/8
32365	32366	32367	12-24	2 3/8
32368	32369	32370	12-28	2 3/8

SPIRAL POINTED HAND TAPS HIGH SPEED STEEL

Ground Thread, List No. 3114
These taps are standard in ground thread right hand American National form in plug style only.

Catalog EDI-#	Size	Pitch Dia. Limits	No. of Flutes	Length of Thread	Overall Length
32391	1/4-20	H3	2	1	2 1/2
32392	1/4-28	H3	2	1	2 1/2
32393	5/16-18	H3	2	1 1/8	2 23/32
32394	5/16-24	H3	2	1 1/8	2 23/32
32395	3/8-16	H3	3	1 1/4	2 15/16
32396	3/8-24	H3	3	1 1/4	2 15/16
32397	7/16-14	H3	3	1 7/16	3 5/32
32398	7/16-20	H3	3	1 7/16	3 5/32
32399	1/2-13	H3	3	1 21/32	3 3/8
32400	1/2-20	H3	3	1 21/32	3 3/8
32401	5/8-11	H3	3	1 13/16	3 13/36
32402	3/4-10	H3	3	2	4 1/4

TAPS & DIES

SPIRAL POINTED MACHINE SCREW TAPS HIGH SPEED STEEL

Ground Thread, List No. 3122

These taps are standard in ground thread right hand American National form. Ground thread taps are standard in plug style.

Catalog EDI-#	Size	Pitch Dia. Limits	No. of Flutes	Length of Thread	Overall Length
32421	0-80	H1	2	5/16	1 5/8
32422	1-64	H1	2	3/8	1 11/16
32423	1-72	H1	2	3/8	1 11/16
32424	2-56	H2	2	7/16	1 3/4
32425	2-64	H2	2	7/16	1 3/4
32426	3-48	H2	2	1/2	1 13/16
32427	3-56	H2	2	1/2	1 13/16
32428	4-40	H2	2	9/16	1 7/8
32429	4-48	H2	2	9/16	1 7/8
32430	4-36	H2	2	9/16	1 7/8
32431	5-40	H2	2	5/8	1 15/16
32432	5-44	H2	2	5/8	1 15/16
32433	6-32	H3	2	11/16	2
32434	6-40	H3	2	11/16	2
32435	8-32	H3	2	3/4	2 1/8
32436	8-36	H3	2	3/4	2 1/8
32437	10-24	H3	2	7/8	2 3/8
32438	10-32	H3	2	7/8	2 3/8
32439	12-24	H3	2	15/16	2 3/8
32440	12-28	H3	2	15/16	2 3/8

SPIRAL FLUTED MACHINE SCREW TAPS HIGH SPEED STEEL

Ground Thread, List No. 3107

These taps are standard in ground right hand American National form in plug style only

These taps are furnished with a right hand spiral flute.

Catalog EDI-#	Size	Pitch Dia. Limits	No. of Flutes	Length of Thread	Overall Length
32461	4-40	H2	2	9/16	1 7/8
32462	5-40	H2	2	5/8	1 15/16
32463	6-32	H3	2	11/16	2
32464	8-32	H3	2	3/4	2 1/8
32465	10-24	H3	2	7/8	2 3/8
32466	10-32	H3	2	7/8	2 3/8

NUT TAPS HIGH SPEED STEEL

Ground Thread, List No. 3142

These taps are standard in high speed ground thread, right hand American National form.

Catalog EDI-#	Size	Pitch Dia. Limits	No. of Flutes	Length of Thread	Overall Length
32481	1/4-20	H3	4	1 5/8	5
32482	1/4-28	H3	4	1 5/8	5
32483	5/16-18	H3	4	1 13/16	5 1/2
32484	5/16-24	H3	4	1 13/16	5 1/2
32485	3/8-16	H3	4	2	6
32486	3/8-24	H3	4	2	6
32487	1/2-13	H3	4	2 1/2	7
32488	1/2-20	H3	4	2 1/2	7

SPIRAL FLUTED HAND TAPS HIGH SPEED STEEL

Ground Thread, List No. 3104

These taps are standard in ground thread right hand American National form in plug style only.

These taps are furnished with a right hand spiral flute.

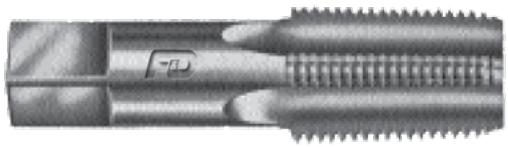
Catalog EDI-#	Size	Pitch Dia. Limits	No. of Flutes	Length of Thread	Overall Length
32501	1/4-20	H3	2	1	2 1/2
32502	1/4-28	H3	3	1	2 1/2
32503	5/16-18	H3	2	1 1/8	2 23/32
32504	5/16-24	H3	3	1 1/8	2 23/32
32505	3/8-16	H3	3	1 1/4	2 15/16
32506	3/8-24	H3	3	1 1/4	2 15/16
32507	7/16-14	H3	3	1 7/16	3 5/16
32508	7/16-20	H3	3	1 7/16	3 5/32
32509	1/2-13	H3	3	1 21/32	3 3/8
32510	1/2-20	H3	3	1 21/32	3 3/8

PULLEY TAPS
HIGH SPEED STEEL

Ground Thread, List No. 3152
These taps are standard in high speed thread right hand American National form in plug style only.

Size	Catalog EDI-#	Length	Pitch Dia. Limits	No. of Flutes	Length of Thread
1/4-20	32531	6	H3	4	1
5/16-18	32532	6	H3	4	1 1/8
3/8-16	32533	6	H3	4	1 1/4
7/16-14	32534	6	H3	4	1 7/16
1/2-13	32535	6	H3	4	1 21/32
5/8-11	32536	6	H3	4	1 13/16
1/4-20	32537	8	H3	4	1
5/16-18	32538	8	H3	4	1 1/8
3/8-16	32539	8	H3	4	1 1/4
7/16-14	32540	8	H3	4	1 7/16
1/2-13	32541	8	H3	4	1 21/32
5/8-11	32542	8	H3	4	1 13/16
3/8-16	32543	10	H3	4	1 1/4
1/2-13	32544	10	H3	4	1 21/32
5/8-11	32545	10	H3	4	1 13/16
3/4-10	32546	10	H3	4	2
1/2-13	32547	12	H3	4	1 21/32
5/8-11	32548	12	H3	4	1 13/16
3/4-10	32549	12	H3	4	2

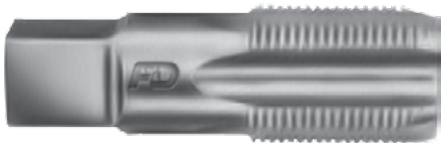
TAPER PIPE TAPS
HIGH SPEED STEEL



Ground Thread, List No. 3177
These taps are standard in American Standard Pipe form (NPTF), American Standard Dryseal Pipe form (NPTF)

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
34301	1/16-27	4	11/16	2 1/8
34302	1/8-27	4	3/4	2 1/8
34303	1/4-18	4	1 1/16	2 7/16
34304	3/8-18	4	1 1/16	2 9/16
34305	1/2-14	4	1 3/8	3 1/8
34306	3/4-14	5	1 3/8	3 1/4
34307	1-11 1/2	5	1 3/4	3 3/4
34308	1 1/4-11 1/2	5	1 3/4	4
34309	1 1/2-11 1/2	7	1 3/4	4 1/4
34310	2-11 1/2	7	1 3/4	4 1/2

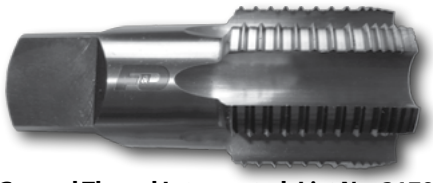
STRAIGHT PIPE TAPS
HIGH SPEED STEEL



Ground Thread, List No. 3178
These taps are standard in cut thread or ground thread right hand American Standard Pipe Thread form in plug style only.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
34331	1/8-27	4	3/4	2 1/8
34332	1/4-18	4	1 1/16	2 7/16
34333	3/8-18	4	1 1/16	2 9/16
34334	1/2-14	4	1 3/8	3 1/8
34335	3/4-14	5	1 3/8	3 1/4
34336	1-11 1/2	5	1 3/4	3 3/4

TAPER PIPE TAPS
HIGH SPEED STEEL

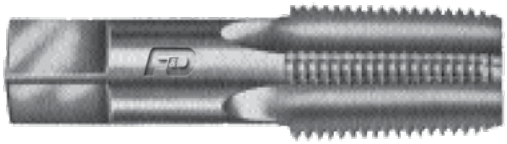


Ground Thread Interrupted, List No. 3179
These taps are standard in American Standard Pipe form (NPT), American Standard Dryseal form (NPTF) and Aeronautical (ANPT). The first few threads on an interrupted thread pipe tap are left full.
N.P.T.—N.P.T.F.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
34361	1/8-27	5	3/4	2 1/8
34362	1/4-18	5	1 1/16	2 7/16
34363	3/8-18	5	1 1/16	2 9/16
34364	1/2-14	5	1 3/8	3 1/8
34365	3/4-14	5	1 3/8	3 1/4
34366	1-11 1/2	5	1 3/4	3 3/4
34367	1 1/4-11 1/2	5	1 3/4	4
34368	1 1/2-11 1/2	7	1 3/4	4 1/4
34369	2-11 1/2	7	1 3/4	4 1/2

TAPS & DIES

TAPER PIPE TAPS
HIGH SPEED STEEL



Cut Thread Regular, List No. 2177
These taps are standard in American Standard Pipe form of thread.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
32671	1/8-27	4	3/4	2 1/8
32672	1/4-18	4	1 1/16	2 7/16
32673	3/8-18	4	1 1/16	2 9/16
32674	1/2-14	4	1 3/8	3 1/8
32675	3/4-15	5	1 3/8	3 1/4
32676	1-11 1/2	5	1 3/4	3 3/4
32677	1 1/4-11 1/2	5	1 3/4	4
32678	1 1/2-11 1/2	7	1 3/4	4 1/4
32679	2-11 1/2	7	1 3/4	4 1/2

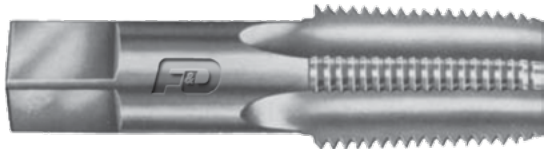
TAPER PIPE TAPS
HIGH SPEED STEEL

Cut Thread Interrupted, List No. 2179
These taps are standard in American Standard Pipe form (NPT), American Standard Pipe form (NPTF) and Aeronautical (ANPT). The first few threads on an interrupted thread pipe tap are left full.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
32721	1/8-27	5	3/4	2 1/8
32722	1/4-18	5	1 1/16	2 7/16
32723	3/8-18	5	1 1/16	2 9/16
32724	1/2-14	5	1 3/8	3 1/8
32725	3/4-14	5	1 3/8	3 1/4
32726	1-11 1/2	5	1 3/4	3 3/4
32727	1 1/4-11 1/2	5	1 3/4	4
32728	1 1/2-11 1/2	7	1 3/4	4 1/4
32729	2-11 1/2	7	1 3/4	4 1/2

* Unless otherwise noted, orders for 1/8 inch taps will be filled with taps having the large shank.

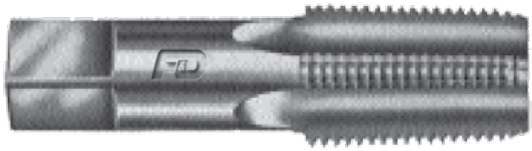
STRAIGHT PIPE TAPS
HIGH SPEED STEEL



Cut Thread, List No. 2178
These taps are standard in cut thread right hand American Standard Thread form in plug style only.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
32701	1/8-27	4	3/4	2 1/8
32702	1/4-18	4	1 1/16	2 7/16
32703	3/8-18	4	1 1/16	2 9/16
32704	1/2-14	4	1 3/8	3 1/8
32705	3/4-14	5	1 3/8	3 1/4
32706	1-11 1/2	5	1 3/4	3 3/4

TAPER PIPE TAPS
CARBON STEEL



List No. 177
These taps are standard in cut thread right hand American Standard Pipe form.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
32761	1/8-27	4	3/4	2 1/8
32762	1/4-18	4	1 1/16	2 7/16
32763	3/8-18	4	1 1/16	2 9/16
32764	1/2-14	4	1 3/8	3 1/8
32765	3/4-14	5	1 3/8	3 1/4
32766	1-11 1/2	5	1 3/4	3 3/4
32767	1 1/4-11 1/2	5	1 3/4	4
32768	1 1/2-11 1/2	7	1 3/4	4 1/4
32769	2-11 1/2	7	1 3/4	4 1/2
32770	2 1/2-8	8	2 9/16	5 1/2
32771	3-8	8	2 5/8	6

STANDARD HAND TAPS HIGH SPEED STEEL

Cut Thread, List No. 2102

These taps are standard in ground thread right hand American National form in taper, plug or bottoming style. High speed cut thread taps are regularly supplied in sizes 1/4" to 1" inclusive only. Plug taps will be supplied unless otherwise specified.

Catalog EDI Number			Size	OAL
Taper	Plug	Bottoming		
34391	34392	34393	1/4-20	2 1/2
34394	34395	34396	1/4-28	2 1/2
34397	34398	34399	5/16-18	2 23/32
34400	34401	34402	5/16-24	2 23/32
34403	34404	34405	3/8-16	2 15/16
34406	34407	34408	3/8-24	2 15/16
34409	34410	34411	7/16-14	3 5/32
34412	34413	34414	7/16-20	3 5/32
34415	34416	34417	1/2-13	3 3/8
34418	34419	34420	1/2-20	3 3/8
34421	34422	34423	9/16-12	3 19/32
34424	34425	34426	9/16-18	3 19/32
34427	34428	34429	5/8-11	3 13/16
34430	34431	34432	5/8-18	3 13/16
34433	34434	34435	11/16-11	4 1/32
34436	34437	34438	11/16-16	4 1/32
34439	34440	34441	3/4-10	4 1/4
34442	34443	34444	3/4-16	4 1/4
34445	34446	34447	7/8-9	4 11/16
34448	34449	34450	7/8-14	4 11/16
34451	34452	34453	1-8	5 1/8
34454	34455	34456	1-12	5 1/8
34457	34458	34459	1-14	5 1/8

STANDARD POINTED HAND TAPS HIGH SPEED STEEL

Cut Thread, List No. 2114

These taps are standard in cut thread right hand American National form in plug style only.

Catalog EDI #	No. of Flutes	Length of Thread	Size	OAL
32561	2	1	1/4-20	2 1/2
32562	2	1	1/4-28	2 1/2
32563	2	1 1/8	5/16-18	2 23/32
32564	2	1 1/8	5/16-24	2 23/32
32565	3	1 1/4	3/8-16	2 15/16
32566	3	1 1/4	3/8-24	2 15/16
32567	3	1 7/16	7/16-14	3 5/32
32568	3	1 7/16	7/16-20	3 5/32
32569	3	1 21/32	1/2-13	3 3/8
32570	3	1 21/32	1/2-20	3 3/8

MACHINE SCREW TAPS HIGH SPEED STEEL

Cut Thread, List No. 2117

These taps are standard in cut thread right hand American National form with standard number of flutes in taper, plug or bottoming style.

Catalog EDI Number			Size	OAL
Taper	Plug	Bottoming		
32591	32592	32593	3-48	1 13/16
32594	32595	32596	3-56	1 13/16
32597	32598	32599	4-40	1 7/8
32600	32601	32602	4-48	1 7/8
32603	32604	32605	4-36	1 7/8
32606	32607	32608	5-40	1 15/16
32609	32610	32611	6-32	2
32612	32613	32614	6-40	2
32615	32616	32617	8-32	2 1/8
32618	32619	32620	8-36	2 1/8
32621	32622	32623	10-24	2 3/8
32624	32625	32626	10-32	2 3/8
32627	32628	32629	12-24	2 3/8
32630	32631	32632	12-28	2 3/8

STANDARD POINTED MACHINE SCREW TAPS HIGH SPEED STEEL

Cut Thread, List No. 2122

These taps are standard in cut thread right hand American National form. Cut thread taps are standard in plug style only.

Catalog EDI #	No. of Flutes	Length of Thread	Size	OAL
32651	2	1/2	3-48	1 13/16
32652	2	9/16	4-40	1 7/8
32653	2	5/8	5-40	1 15/16
32654	2	11/16	6-32	2
32655	2	3/4	8-32	2 1/8
32656	2	7/8	10-24	2 3/8
32657	2	7/8	10-32	2 3/8
32658	2	15/16	12-24	2 3/8

TAPS & DIES

STANDARD HAND TAPS
Carbon Steel

List No. 102

These taps are standard in cut thread right hand American National form in taper, plug or bottoming style.

Catalog EDI Number			Size	Overall Length
Taper	Plug	Bottoming		
32791	32792	32793	1/16-64	1 5/8
32794	32795	32796	3/32-48	1 13/16
32797	32798	32799	1/8-40	1 15/16
32800	32801	32802	5/32-32	2 1/8
32803	32804	32805	5/32-36	2 1/8
32806	32807	32808	3/16-24	2 3/8
32809	32810	32811	3/16-32	2 3/8
32812	32813	32814	7/32-24	2 3/8
32815	32816	32817	7/32-32	2 3/8
32818	32819	32820	1/4-20	2 1/2
32821	32822	32823	1/4-28	2 1/2
32824	32825	32826	1/4-24	2 1/2
32827	32828	32829	1/4-32	2 1/2
32830	32831	32832	5/16-18	2 23/32
32833	32834	32835	5/16-24	2 23/32
32836	32837	32838	5/16-32	2 23/32
32839	32840	32841	3/8-16	2 15/16
32842	32843	32844	3/8-24	2 15/16
32845	32846	32847	7/16-14	3 5/32
32848	32849	32850	7/16-20	3 5/32
32851	32852	32853	1/2-13	3 3/8
32854	32855	32856	1/2-20	3 3/8
32857	32858	32859	9/16-12	3 19/32
32860	32861	32862	9/16-18	3 19/32
32863	32864	32865	5/8-11	3 13/16
32866	32867	32868	5/8-18	3 13/16
32869	32870	32871	11/16-11	4 1/32
32872	32873	32874	11/16-16	4 1/32
32875	32876	32877	3/4-10	4 1/4
32878	32879	32880	3/4-16	4 1/4
32881	32882	32883	7/8-9	4 11/16
32884	32885	32886	7/8-14	4 11/16
32887	32888	32889	1-8	5 1/8
32890	32891	32892	1-12	5 1/8
32893	32894	32895	1-14	5 1/8
32896	32897	32898	1 1/8-7	5 7/16
32899	32900	32901	1 1/8-12	5 7/16
32902	32903	32904	1 1/4-7	5 3/4
32905	32906	32907	1 1/4-12	5 3/4
32908	32909	32910	1 3/8-6	6 1/16
32911	32912	32913	1 3/8-12	6 1/16
32914	32915	32916	1 1/2-6	6 3/8
32917	32918	32919	1 1/2-12	6 3/8
32920	32921	32922	1 3/4-5	7
32923	32924	32925	2-4 1/2	7 5/8

MACHINE SCREW TAPS
CARBON STEEL

List No. 117

These taps are standard in cut thread or ground thread right hand American National form with standard number of flutes in taper, plug or bottoming style.

Catalog EDI Number			Size	Overall Length
Taper	Plug	Bottoming		
32941	32942	32943	0-80	1 5/8
32944	32945	32946	1-64	1 11/16
32947	32948	32949	1-72	1 11/16
32950	32951	32952	2-56	1 3/4
32953	32954	32955	2-64	1 3/4
32956	32957	32958	3-48	1 13/16
32959	32960	32961	3-56	1 13/16
32962	32963	32964	4-40	1 7/8
32965	32966	32967	4-48	1 7/8
32968	32969	32970	4-36	1 7/8
32971	32972	32973	4-32	1 7/8
32974	32975	32976	5-40	1 15/16
32977	32978	32979	5-44	1 15/16
32980	32981	32982	6-32	2
32983	32984	32985	6-40	2
32986	32987	32988	6-36	2
32989	32990	32991	8-32	2 1/8
32992	32993	32994	8-36	2 1/8
32995	32996	32997	8-40	2 1/8
32998	32999	33000	10-24	2 3/8
33001	33002	33003	10-32	2 3/8
33004	33005	33006	10-30	2 3/8
33007	33008	33009	12-24	2 3/8
33010	33011	33012	12-28	2 3/8
33013	33014	33015	12-32	2 3/8
33016	33017	33018	14-20	2 1/2
33019	33020	33021	14-24	2 1/2

SPIRAL POINTED HAND TAPS
CARBON STEEL

List No. 114

These taps are standard in cut thread, or ground thread right hand American National form in plug style only.

Catalog EDI–#	No. of Flutes	Length of Thread	Size	Overall Length
33041	2	1	1/4–20	2 1/2
33042	2	1 1/8	5/16–18	2 23/32
33043	3	1 1/4	3/8–16	2 15/16
33044	3	1 7/16	7/16–14	3 5/32
33045	3	1 21/32	1/2–13	3 3/8

SPIRAL POINTED MACHINE SCREW TAPS CARBON STEEL

List No. 122
These taps are standard in cut thread or ground thread right hand American National form. Cut thread taps are standard in plug style only.

Catalog EDI-#	Size	No. of Flutes	Length of Thread	Overall Length
33061	6-32	2	11/16	2
33062	8-32	2	3/4	2 1/8
33063	10-24	2	7/8	2 3/8
33064	10-32	2	7/8	2 3/8
33065	12-24	2	15/16	2 3/8
33066	12-28	2	15/16	2 3/8

HEXAGON RETHREADING DIES CARBON STEEL

List No. 276
Hexagon rethreading dies are standard with right hand American National form of thread.

Catalog EDI-#	Size	Across Flats	Thickness
33091	1/4-20	19/32	1/4
33092	1/4-28	19/32	1/4
33093	5/16-18	11/16	5/16
33094	5/16-24	11/16	5/16
33095	3/8-16	25/32	3/8
33096	3/8-24	25/32	3/8
33097	7/16-14	7/8	7/16
33098	7/16-20	7/8	7/16
33099	1/2-13	1 1/16	1/2
33100	1/2-20	1 1/16	1/2
33101	9/16-12	1 1/16	1/2
33102	9/16-18	1 1/16	1/2
33103	5/8-11	1 1/4	5/8
33104	5/8-18	1 1/4	5/8
33105	11/16-11	1 7/16	3/4
33106	11/16-16	1 7/16	3/4
33107	3/4-10	1 7/16	3/4
33108	3/4-16	1 7/16	3/4
33109	7/8-9	1 5/8	7/8
33110	7/8-14	1 5/8	7/8
33111	1-8	1 13/16	1
33112	1-12	1 13/16	1
33113	1-14	1 13/16	1
33114	1 1/8-7	2	1
33115	1 1/8-12	2	1
33116	1 1/4-7	2 3/16	1
33117	1 1/4-12	2 3/161	1
33118	1 3/8-6	2 3/8	1
33119	1 3/8-12	2 3/8	1
33120	1 1/2-6	2 9/16	1
33121	1 1/2-12	2 9/16	1

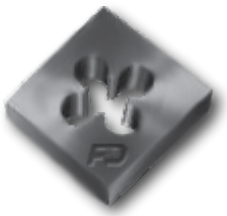
SOLID SQUARE BOLT DIES CARBON STEEL

List No. 297

These dies are furnished with American National form of thread. Sizes and dimensions not listed are special. Left hand dies are special.

Catalog EDI-#	Size	Size Square	Thickness
33141	1/4-20	2 1/2	1/2
33142	5/16-18	2 1/2	1/2
33143	3/8-16	2 1/2	1/2
33144	7/16-14	2 1/2	1/2
33145	1/2-13	2 1/2	3/4
33146	5/8-11	2 1/2	3/4
33147	3/4-10	2 1/2	3/4
33148	7/8-9	2 1/2	3/4
33149	1-8	2 1/2	1
33150	1 1/8-7	2 1/2	1
33151	1 1/4-7	2 1/2	1
33152	1 3/8-6	2 1/2	1
33153	1 1/2-6	3	1
33154	1 3/4-5	3	1 1/4
33155	2-4 1/2	3 3/4	2

SOLID SQUARE PIPE DIES CARBON STEEL



Catalog EDI-#	Size	Across Flats	Square Size	Thickness
33181	1/8-27-0	0	2	1/2
33182	1/8-27-1	1	2 1/2	3/4
33183	1/4-18-0	0	2	1/2
33184	1/4-18-1	1	2 1/2	3/4
33185	3/8-18-0	0	2	1/2
33186	3/8-18-1	1	2 1/2	3/4
33187	1/2-14-0	0	2	1/2
33188	1/2-14-1	1	2 1/2	3/4
33189	1/2-14-1 1/2	1 1/2	3	3/4
33190	3/4-14-1	1	2 1/2	3/4
33191	3/4-14-1 1/2	1 1/2	3	3/4
33192	1-11 1/2-1	1	2 1/2	3/4
33193	1-11 1/2-1 1/2	1 1/2	3	3/4
33194	1-11 1/2-2	2	4	1
33195	1 1/4-11 1/2-1 1/2	1 1/2	3	3/4
33196	1 1/4-11 1/2-2	2	4	1
33197	1 1/2-11 1/2-2	2	4	1
33198	2-11 1/2-2	2	4	1

TAPS & DIES

T-HANDLE TAP WRENCHES

These tap wrenches are made from steel carefully selected for its toughness. The chuck jaws are hardened and tempered, which greatly lengthens the life of the tool. The design is simple throughout, and with proper care these wrenches will last a lifetime.

Wrenches Nos. 328 and 332 are furnished with sliding handles, Nos. 329 and 333 with stationary handles; Nos. 338 and 339 with a Ratchet type T-Handle. The sliding handle and Ratchet T-Handle enable the user to work in close quarters where a rigid handle would not have room enough to turn. Can be used with other tools to be turned by hand.

No.	Catalog EDI-#	Hand Inches	Machine Screw	Length Inches
328	33221	1/16-1/4	0-14	2 3/4
329	33222	1/16-1/4	0-14	2 3/4
332	33223	7/32-1/2	12-14	3 5/8
333	33224	7/32-1/2	12-14	3 5/8
336	33225	1/16-1/4	0-14	8 3/4
337	33226	7/32-1/2	12-14	10 5/8
338	33227	1/16-1/4	0-14	3 3/4
339	33228	7/32-1/2	12-14	5

ADJUSTABLE TAP AND REAMER WRENCHES

List No. 1825

The jaws are made of tool steel, carefully hardened and tempered. They will not break or get out of line.

The larger sizes, Nos. 7 1/2 and 8, have malleable iron bodies and steel tubing handles.

No.	Catalog EDI-#	Hand Inches	Machine Screw	Pipe	Hand Reamer Inches	Length Inches	Weight
00	33251	1/16-1/4	0-14	-	1/8-17/64	5	2 oz.
0	33252	1/16-1/4	0-14	-	1/8-21/64	7	4 oz.
4	33253	1/16-3/8	0-14	-	1/8-25/64	9	7 oz.
5	33254	5/32-1/2	7-14	1/8	11/64-7 1/16	11	11 oz.
6	33255	5/32-3/4	7-14	1/8-1/4	11/64-4 1/64	15	1 lb. 10 oz.
7	33256	1/4-1 1/8	-	1/8-3/4	9/32-29/32	19	2 lb. 14 oz.
7 1/2	33257	1/2-1 3/8	-	1/8-1	3/8-1 5/32	31	4 lb. 8 oz.
8	33258	3/4-1 5/8	-	3/8-1 1/4	37/64-1 11/32	40	8 lbs.

STOCKS FOR ADJUSTABLE ROUND SPLIT DIES

These die stocks are designed to accommodate the round screw adjustable dies listed on the following page.

Single Screw Type	Catalog EDI-#	Takes Dies Outside Diameter Inches	Length Inches	Weight Pounds
1850*	33281	5/8	5	1/16
1851	33282	13/16	6 1/4	1/8
1852	33283	1	9	5/16
1853	33285	1 1/2	14	1 1/4
1857	33286	2	23	1 7/8
1858	33287	2 1/2	29	2 1/2
1859	33288	3	40	2 7/8

*Furnished in three screw type dies with open type adjustments

ADJUSTABLE ROUND SPLIT DIES

MACHINE SCREW SIZES HIGH SPEED STEEL

List No. 2282

High speed steel dies are standard with right hand American National form of thread.

13/16" O.D. 1/4"Thickness

Catalog EDI-#	Size
33311	5-40
33312	5-44
33313	6-32
33314	6-40
33315	8-32
33316	8-36
33317	10-24
33318	10-32
33319	12-24
33320	12-28

1" O.D. 3/8"Thickness

33351	6-32
33352	6-40
33353	8-32
33354	8-36
33355	10-24
33356	10-32
33357	12-24
33358	12-28

MACHINE SCREW SIZES CARBON STEEL

List No. 282

Carbon steel dies are standard with right hand American National form of thread.

5/8" O.D. 1/4"Thickness

Catalog EDI-#	Size
33381	0-80
33382	1-72
33383	2-56
33384	2-64
33385	3-48
33386	3-56
33387	4-40
33388	4-48
33389	5-40
33390	6-32
33391	6-40
33392	8-32
33393	10-24
33394	10-32
33395	12-24

13/16" O.D. 1/4"Thickness

33396	0-80
33397	1-64
33398	1-72
33399	2-56
33400	2-64
33401	3-48
33402	3-56
33403	4-40
33404	4-48
33405	4-36
33406	5-40
33407	5-44
33408	6-32
33409	6-40
33410	8-32
33411	8-36
33412	10-24
33413	10-32
33414	12-24
33415	12-28

1" O.D. 3/8"Thickness

33416	6-32
33417	8-32
33418	10-24
33419	10-32
33420	12-24

FRACTIONAL SIZES HIGH SPEED STEEL

List No. 2277

High speed steel dies are standard with right hand American National form of thread.

13/16" O.D. - 1/4" Thickness

Catalog EDI-#	Size
33441	1/4-20
33442	1/4-28
33443	5/16-18
33444	5/16-24

1" O.D. - 3/8" Thickness

33445	1/4-20
33446	1/4-28
33447	5/16-18
33448	5/16-24
33449	3/8-16
33450	3/8-24
33451	7/16-14
33452	7/16-20

1 1/2" O.D. - 1/2" Thickness

33453	1/4-20
33454	1/4-28
33455	5/16-18
33456	5/16-24
33457	3/8-16
33458	3/8-24
33459	7/16-14
33460	7/16-20
33461	1/2-13
33462	1/2-20
33463	9/16-12
33464	9/16-18
33465	5/8-11
33466	5/8-18

2" O.D. - 5/8" Thickness

33467	5/8-11
33468	5/8-18
33469	3/4-10
33470	3/4-16
33471	7/8-9
33472	7/8-14

TAPS & DIES

ADJUSTABLE ROUND SPLIT DIES

Fractional Sizes, **List No. 277**
Pipe Sizes, **List No. 278**
Carbon steel dies are standard with right hand American National form of thread.

13/16" O.D. - 1/4" Thickness
Fractional Sizes
List No. 277

Catalog EDI-#	Size
33491	1/16-64
33492	3/32-48
33493	1/8-40
33494	5/32-32
33495	5/32-36
33496	3/16-24
33497	3/16-32
33498	7/32-24
33499	7/32-32
33500	1/4-20
33501	1/4-28
33502	1/4-24
33503	1/4-32
33504	5/16-18
33505	5/16-24
33506	5/16-32

1" O.D. - 3/8" Thickness
Fractional Sizes

33507	1/8-40
33508	3/16-24
33509	3/16-32
33510	1/4-20
33511	1/4-28
33512	1/4-24
33513	1/4-32
33514	5/16-18
33515	5/16-24
33516	5/16-32
33517	3/8-16
33518	3/8-24
33519	7/16-14
33520	7/16-20

1 5/16" O.D. - 7/16" Thickness
Fractional Sizes

33521	1/4-20
33522	1/4-28
33523	5/16-18
33524	5/16-24
33525	3/8-16
33526	3/8-24
33527	7/16-14
33528	7/16-20
33529	1/2-13
33530	1/2-20

1 1/2" O.D. - 1/2" Thickness
Fractional Sizes
List No. 277

Catalog EDI-#	Size
33531	1/4-20
33532	1/4-28
33533	5/16-18
33534	5/16-24
33535	3/8-16
33536	3/8-24
33537	7/16-14
33538	7/16-20
33539	1/2-13
33540	1/2-20
33541	9/16-12
33542	9/16-18
33543	5/8-11
33544	5/8-18

2" O.D. - 5/8" Thickness
Fractional Sizes

33545	1/4-20
33546	1/4-28
33547	5/16-18
33548	5/16-24
33549	3/8-16
33550	3/8-24
33551	7/16-14
33552	7/16-20
33553	1/2-13
33554	1/2-2
33555	9/16-12
33556	9/16-18
33557	5/8-11
33558	5/8-18
33559	11/16-11
33560	11/16-16
33561	3/4-10
33562	3/4-16
33563	7/8-9
33564	7/8-14

2 1/2" O.D. - 3/4" Thickness
Fractional Sizes

33565	5/8-11
33566	3/4-10
33567	3/4-16
33568	7/8-9
33569	7/8-14
33570	1-8
33571	1-12
33572	1-14

3" O.D. - 1" Thickness
Fractional Sizes
List No. 277

Catalog EDI-#	Size
33573	1-8
33574	1-12
33575	1-14
33576	1 1/8-7
33577	1 1/8-12
33578	1 1/4-7
33579	1 1/4-12
33580	1 3/8-6
33581	1 3/8-12
33582	1 1/2-6
33583	1 1/2-12

1" O.D. - 3/8" Thickness
Pipe Sizes
List No. 278

Catalog EDI-#	Size
33601	1/8-27

1 1/2" O.D. - 1/2" Thickness
Pipe Sizes
List No. 278

Catalog EDI-#	Size
33602	1/8-27
33603	1/4-18
33604	3/8-18

2" O.D. - 5/8" Thickness
Pipe Sizes

Catalog EDI-#	Size
33605	1/4-18
33606	3/8-18
33607	1/2-14

ADJUSTABLE TWO PIECE DIES

List No. 215
FRACTIONAL SIZES
CARBON STEEL

National Coarse Thread furnished unless otherwise specified. In ordering Adjustable Two Piece Dies, specify cutting size, number of threads per inch and outside diameter of collet in which they are to be used.

Plug Catalog EDI-#	Bottom Size
33631	1/16-64
33632	3/32-48
33633	1/8-40
33634	5/32-32
33635	5/32-36
33636	3/16-24
33637	3/16-32
33638	7/32-24
33639	7/32-32
33640	1/4-20
33641	*1/4-20
33642	1/4-28
33643	*1/4-28
33644	1/4-24
33645	*1/4-24
33646	1/4-32
33647	*1/4-32
33648	5/16-18
33649	*5/16-18
33650	5/16-24
33651	*5/16-24
33652	5/16-32
33653	*5/16-32
33654	3/8-16
33655	*3/8-16
33656	3/8-24
33657	*3/8-24
33658	7/16-14
33659	*7/16-14
33660	7/16-20
33661	*7/16-20
33662	1/2-13
33663	*1/2-13
33664	1/2-20
33665	*1/2-20
33666	9/16-12
33667	*9/16-12
33668	9/16-18
33669	*9/16-18
33670	5/8-11

Plug Catalog EDI-#	Bottom Size
33671	*5/8-11
33672	5/8-18
33673	*5/8-18
33674	11/16-11
33675	*11/16-11
33676	11/16-16
33677	*11/16-16
33678	3/4-10
33679	*3/4-10
33680	3/4-16
33681	*3/4-16
33682	7/8-9
33683	*7/8-9
33684	7/8-14
33685	*7/8-14
33686	1-8
33687	*1-8
33688	1-12
33689	*1-12
33690	1-14
33691	*1-14
33692	1 1/8-7
33693	*1 1/8-7
33694	1 1/8-12
33695	*1 1/8-12
33696	1 1/4-7
33697	*1 1/4-7
33698	1 1/4-12
33699	*1 1/4-12
33700	1 3/8-6
33701	*1 3/8-6
33702	1 3/8-12
33703	*1 3/8-12
33704	1 1/2-6
33705	*1 1/2-6
33706	1 1/2-12
33707	*1 1/2-12

*** Left Hand**

List No. 216 – MACHINE SCREW SIZES – CARBON STEEL

33741	2-56
33742	2-64
33743	3-48
33744	3-56
33745	4-40
33746	4-48
33747	4-32
33748	4-36
33749	5-40
33750	5-44
33751	6-32
33752	6-40

33753	6-36
33754	8-32
33755	8-36
33756	8-40
33757	10-24
33758	10-32
33759	10-30
33760	12-24
33761	12-28
33762	12-32
33763	14-20
33764	14-24

DIE STOCKS FOR TWO PIECE DIE SCREW PLATES

List No. DS1860
The body of each stock has a mottled and polished finish; the handles are polished with a knurling on the end so that greasy or oily hands will be able to take a sure grip.

Catalog EDI-#	Takes Collet Number	Overall Length Inches
33901-W1	W1	7 1/2
33902-1	1	14 1/2
33903-5	5	23
33904-7	5	26
33905-9	5	29
33906-20	20	41
33907-25	25	52

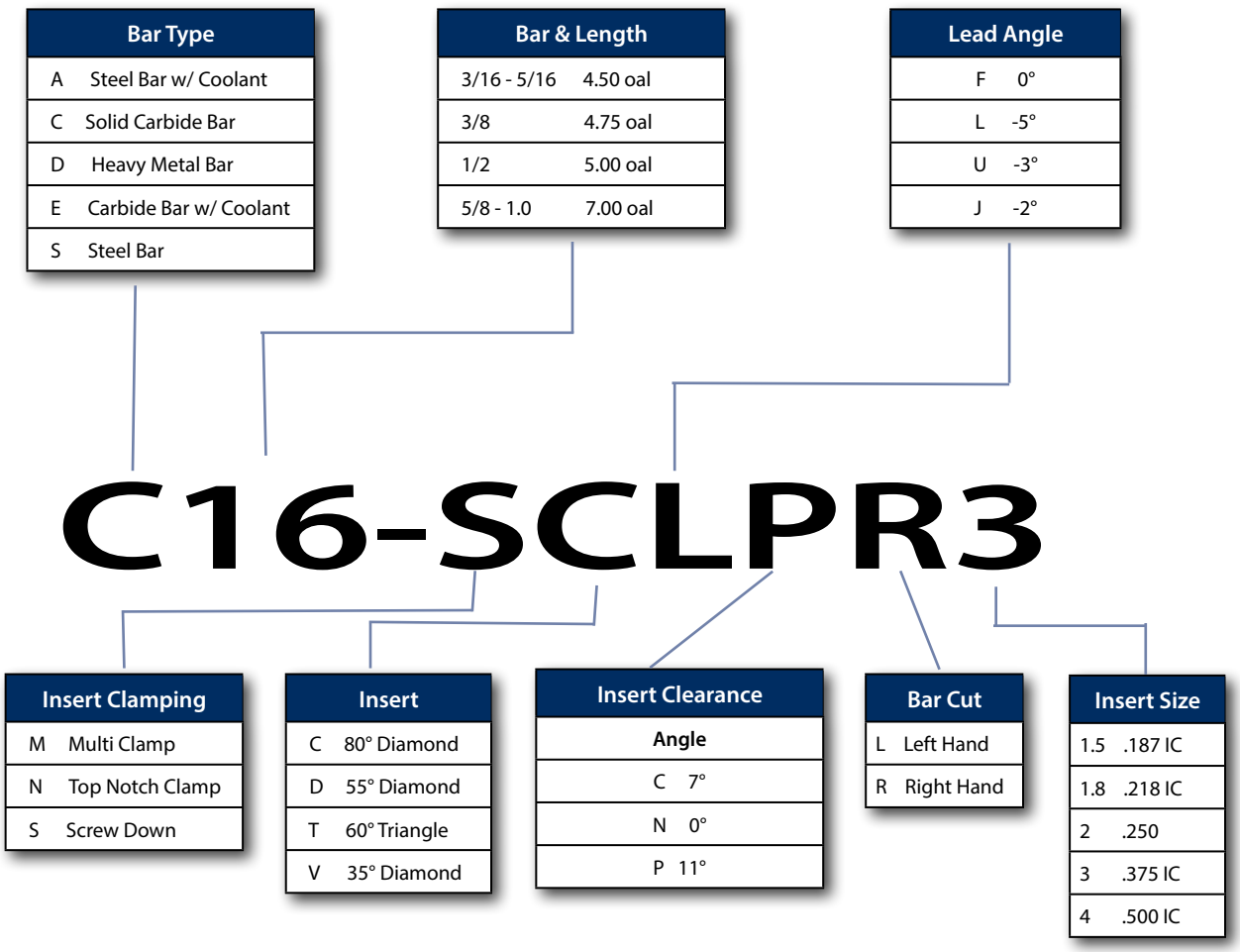
TWO PIECE DIE COLLETS

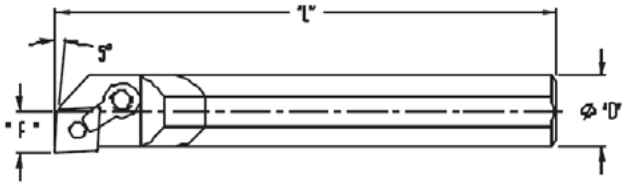
GUIDE

COLLET, COMPLETE

List No. 217
In ordering extra collets or guides, it is only necessary to give the outside diameter of the collet and the cutting size of the die for which it is required.

Collet Number	Catalog EDI-#	Catalog EDI-#
W1	33791	33792
1	33793	33794
5	33795	33796
20	33797	33798
25	33799	33800


Bar Type
A Steel Bar w/ Coolant
C Solid Carbide Bar
D Heavy Metal Bar
E Carbide Bar w/ Coolant
S Steel Bar
Bar & Length
3/16 - 5/16 4.50 oal
3/8 4.75 oal
1/2 5.00 oal
5/8 - 1.0 7.00 oal
Lead Angle
F 0°
L -5°
U -3°
J -2°
C16-SCLPR3
Insert Clamping
M Multi Clamp
N Top Notch Clamp
S Screw Down
Insert
C 80° Diamond
D 55° Diamond
T 60° Triangle
V 35° Diamond
Insert Clearance
Angle
C 7°
N 0°
P 11°
Bar Cut
L Left Hand
R Right Hand
Insert Size
1.5 .187 IC
1.8 .218 IC
2 .250
3 .375 IC
4 .500 IC



Carbide Boring Bars - MCLN*

Catalog EDI-#	Shank Dia	L	F	Min. Bore	Clamp/Screw	Cam Screw	Insert
C16-MCLNR/L-4	1	7″	.625	1.135	CK-20/STC-11	NL-44	CNMG-432

Carbide Boring Bars - SCLP*

Catalog EDI-#	Shank Dia	L	F	Min. Bore	Insert Screw	Insert
C05-SCLPR/L-1.8	.312	4-1/2″	.219	.385	MS-1152	CPMT-1.81.51
C06-SCLPR/L-2	.375	4-3/4″	.25	.447	MS-1153	CPMT-21.51
C08-SCLPR/L-2	.5	5″	.312	.572	MS-1153	CPMT-21.51
C08-SCLPR/L-3	.5	5″	.312	.572	MS-1155	CPMT-32.52
C10-SCLPR/L-2	.625	7″	.406	.728	MS-1153	CPMT-21.51
C10-SCLPR/L-3	.625	7″	.406	.728	MS-1155	CPMT-32.52
C12-SCLPR/L-3	.75	7″	.5	.885	MS-1155	CPMT-32.52
C16-SCLPR/L-3	1	7″	.625	1.135	MS-1155	CPMT-32.52

Carbide Boring Bars - SCLC*

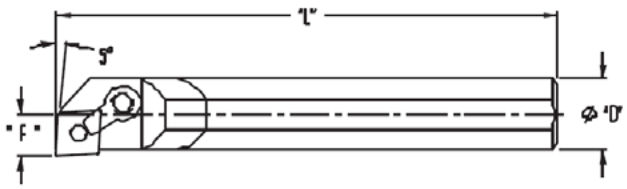
Catalog EDI-#	Shank Dia	L	F	Min. Bore	Insert Screw	Insert
C05-SCLCR/L-2	.312	4-1/2″	.219	.385	5513-020-03	CCMT-21.51
C06-SCLCR/L-2	.375	4-3/4″	.25	.447	5513-020-03	CCMT-21.51
C08-SCLCR/L-2	.5	5″	.312	.572	5513-020-03	CCMT-21.51
C08-SCLCR/L-3	.5	5″	.312	.572	5513-020-09	CCMT-32.52
C10-SCLCR/L-2	.625	7″	.406	.728	5513-020-03	CCMT-21.51
C10-SCLCR/L-3	.625	7″	.406	.728	5513-020-09	CCMT-32.52
C12-SCLCR/L-3	.75	7″	.5	.885	5513-020-09	CCMT-32.52
C16-SCLCR/L-3	1	7″	.625	1.15	5513-020-09	CCMT-32.52
C16-SCLR/L-4	1	7″	.625	1.15	5513-020-17	CCMT-432

Carbide Boring Bars - SWLO**

Catalog EDI-#	Shank Dia	L	F	Min. Bore	Insert Screw	Insert
CSWLOR 055	.187	4-1/2″	.114	.217	TS-21	WCMT 1.21
CSWLOR 065	.25	4-1/2″	.156	.291	TS-2	WCMT 1.21
CSWLOR 066	.312	4-1/2″	.188	.354	TS-2	WCMT 1.51.5
CSWLO504R	.312	4-1/2″	.203	.369	TS-25	WCMT 21.5
CSWLOR 070	.375	4-3/4″	.218	.416	TS-25	WCMT 21.5
CSWLOR 062	.375	4-3/4″	.25	.447	TS-25	WCMT 21.5
CSWLOR 082	.5	5″	.312	.572	TS-25	WCMT 21.5
CSWLOR 102	.625	7″	.375	.697	TS-25	WCMT 21.5
CSWLOR 103	.625	7″	.375	.697	TS-4	WCMT 32.5
CSWLOR 123	.75	7″	.5	.885	TS-4	WCMT 32.5

* *prefix "C" for Solid Shank*
prefix "E" for Coolant Thru
R for right hand bar
L for left hand bar

** *for Coolant Thru add C to the end of part number*
i.e) CSWLOR 123C



Steel Boring Bars - MCLN*

Catalog EDI-#	Shank Dia	L	F	Min. Bore	Clamp/Screw	Cam Screw	Insert
S16-MCLNR/L-4	1	7"	.625	1.135	CK-20/STC-11	NL-44	CNMG-432

Steel Boring Bars - SCLP*

Catalog EDI-#	Shank Dia	L	F	Min. Bore	Insert Screw	Insert
S05-SCLPR/L-1.8	.312	4-1/2"	.219	.385	MS-1152	CPMT-1.81.51
S06-SCLPR/L-2	.375	4-3/4"	.25	.447	MS-1153	CPMT-21.51
S08-SCLPR/L-2	.5	5"	.312	.572	MS-1153	CPMT-21.51
S08-SCLPR/L-3	.5	5"	.312	.572	MS-1155	CPMT-32.52
S10-SCLPR/L-2	.625	7"	.406	.728	MS-1153	CPMT-21.51
S10-SCLPR/L-3	.625	7"	.406	.728	MS-1155	CPMT-32.52
S12-SCLPR/L-3	.75	7"	.5	.885	MS-1155	CPMT-32.52
S16-SCLPR/L-3	1	7"	.625	1.135	MS-1155	CPMT-32.52

Steel Boring Bars - SCLC*

Catalog EDI-#	Shank Dia	L	F	Min. Bore	Insert Screw	Insert
S05-SCLCR/L-2	.312	4-1/2"	.219	.385	5513-020-03	CCMT-21.51
S06-SCLCR/L-2	.375	4-3/4"	.25	.447	5513-020-03	CCMT-21.51
S08-SCLCR/L-2	.5	5"	.312	.572	5513-020-03	CCMT-21.51
S08-SCLCR/L-3	.5	5"	.312	.572	5513-020-09	CCMT-32.52
S10-SCLCR/L-2	.625	7"	.406	.728	5513-020-03	CCMT-21.51
S10-SCLCR/L-3	.625	7"	.406	.728	5513-020-09	CCMT-32.52
S12-SCLCR/L-3	.75	7"	.5	.885	5513-020-09	CCMT-32.52
S16-SCLCR/L-3	1	7"	.625	1.15	5513-020-09	CCMT-32.52
S16-SCLR/L-4	1	7"	.625	1.15	5513-020-17	CCMT-432

Steel Boring Bars - SWLO**

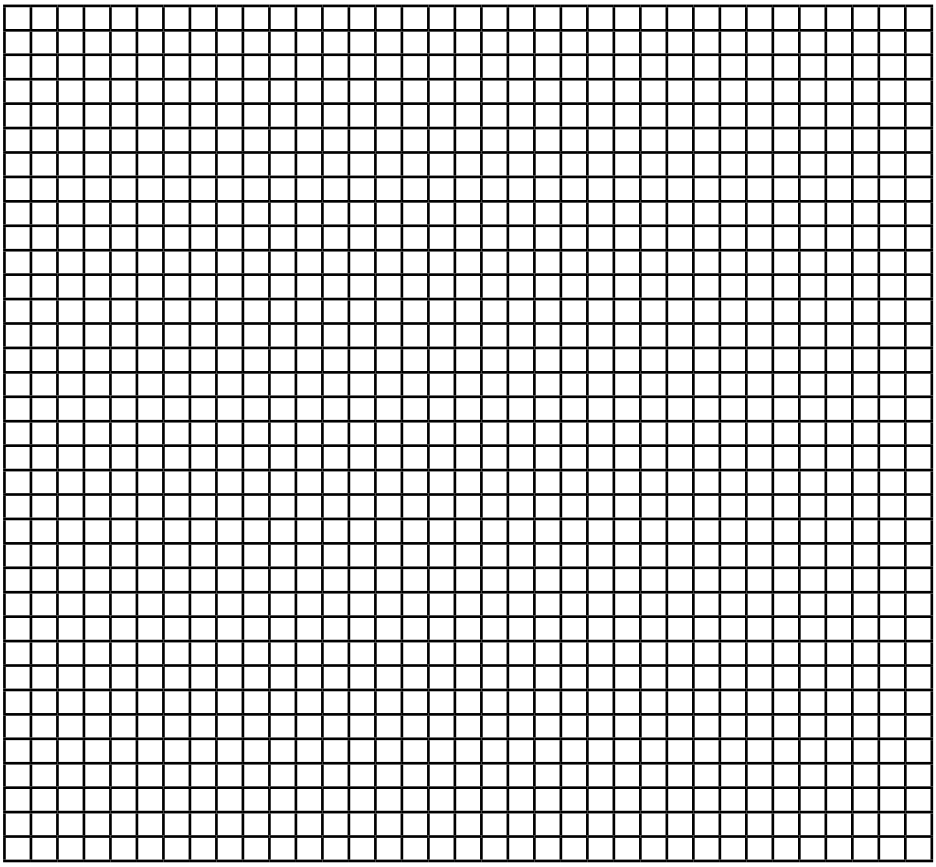
Catalog EDI-#	Shank Dia	L	F	Min. Bore	Insert Screw	Insert
S-SWLOR 070	.375	4-3/4"	.218	.416	TS-25	WCMT 21.5
S-SWLOR 062	.375	4-3/4"	.25	.447	TS-25	WCMT 21.5
S-SWLOR 082	.5	5"	.312	.572	TS-25	WCMT 21.5
S-SWLOR 102	.625	7"	.375	.697	TS-25	WCMT 21.5
S-SWLOR 103	.625	7"	.375	.697	TS-4	WCMT 32.5
S-SWLOR 123	.75	7"	.5	.885	TS-4	WCMT 32.5

* *prefix "S" for Solid Shank*
prefix "A" for Coolant Thru
R for right hand bar
L for left hand bar

** *for Coolant Thru add C to the end of part number*
i.e) S-SWLOR 123C

REQUEST FOR QUOTATION

PART NO. _____



QUANTITY:
- ☐ ONE
- ☐ TWO
- ☐ THREE
- ☐ SIX
- ☐ TWELVE
- ☐ OTHER

SIZE/NO.:
- ☐ DIAMETER
- ☐ WIDTH
- ☐ INC ANGLE
- ☐ HOLE DIA.
- ☐ RADIUS
- ☐ NO. OF TEETH

MATERIAL:
- ☐ HIGH SPEED STEEL
- ☐ M42
- ☐ T-15 COBALT
- ☐ CARBIDE TIPPED

TOOTH STYLE:
- ☐ STRAIGHT TOOTH
- ☐ STAGGERED
- ☐ RIGHT HAND
- ☐ LEFT HAND

COATING:
- ☐ TiN
- ☐ TiALN
- ☐ TiCN
- ☐ UnCoated

SIDE TEETH:
- ☐ WITH SIDE TEETH
- ☐ WITHOUT SIDE TEETH

NOTES: _____

_____

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_____

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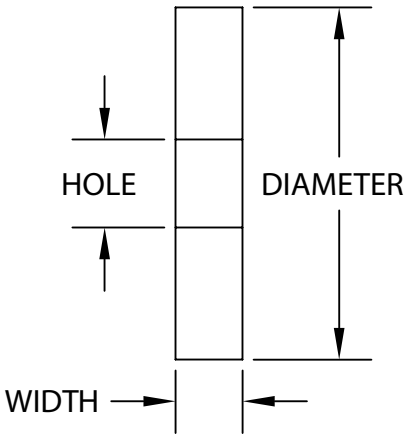
_____

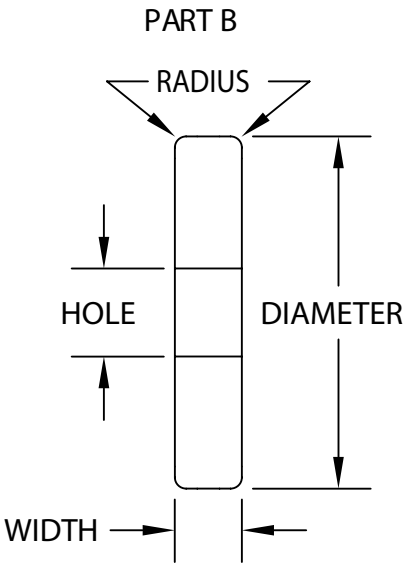
REQUEST FOR QUOTATION

Company Name:	Phone:
Contact:	Fax:

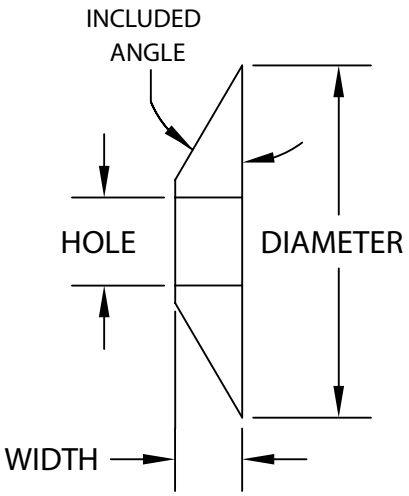
PART A



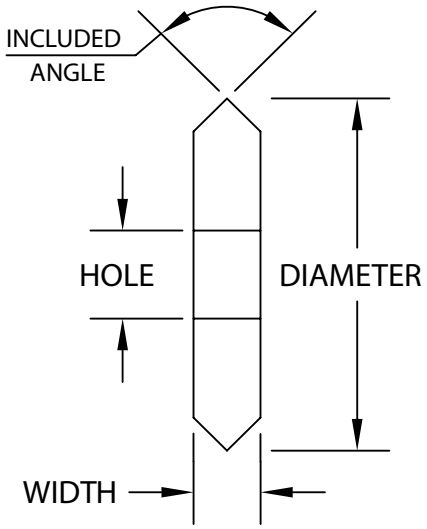
PART B



PART C



PART D



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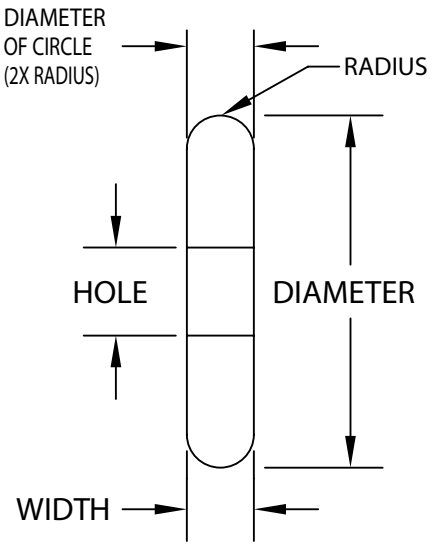
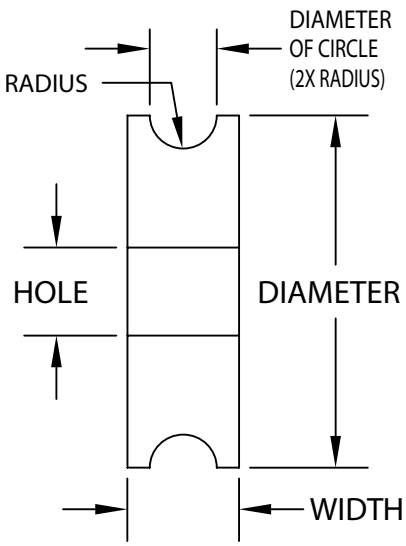
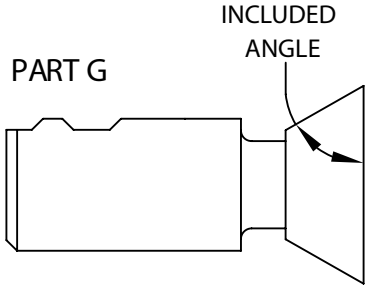


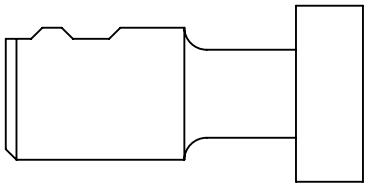
PART F



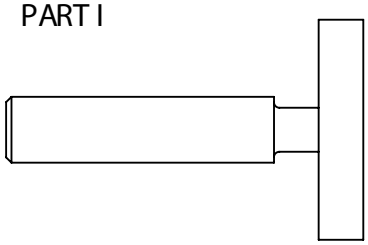
PART G



PART H



PART I



Fractional, Metric, Wire Gage & Letter Sizes

SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES	SIZE	DECIMAL INCHES
#80	.0135″	#55	.0520″	#36	.1065″	#15	.1800″	6.5mm	.2559″	S	.3480″	39/64″	.6094″
.35mm	0.0138	1.35mm	0.0531	2.75mm	.1083″	4.6mm	0.1811	F	0.257	8.9mm	0.3504	15.5mm	0.6102
#79	0.0145	#54	0.055	7/64″	.1094″	#14	0.182	6.6mm	0.2598	9mm	0.3543	5/8″	0.625
1/64″	0.0156	1.4mm	0.0551	#35	0.11	#13	0.185	G	0.261	T	0.358	16mm	0.6299
.4mm	0.0157	1.45mm	0.0571	2.8mm	0.1102	4.7mm	0.185	6.7mm	0.2638	9.1mm	0.3583	41/64″	0.6406
#78	0.016	1.5mm	0.0591	#34	0.111	4.75mm	0.187	17/64″	0.2656	23/64″	0.3594	16.5mm	0.6496
.45mm	0.0177	#53	0.0595	#33	0.113	3/16″	0.1875	6.75mm	0.2657	9.2mm	0.3622	21/32″	0.6562
#77	0.018	1.55mm	0.061	2.9mm	0.1142	4.8mm	0.189	H	0.266	9.25mm	0.3642	17mm	0.6693
.5mm	0.0197	1/16″	0.0625	#32	0.116	#12	0.189	6.8mm	0.2677	9.3mm	0.3661	43/64″	0.6719
#76	0.02	1.6mm	0.063	3mm	0.1181	#11	0.191	6.9mm	0.2717	U	0.368	11/16″	0.6875
#75	0.021	#52	0.0635	#31	0.12	4.9mm	0.1929	I	0.272	9.4mm	0.3701	17.5mm	0.689
.55mm	0.0217	1.65mm	0.065	3.1mm	0.122	#10	0.1935	7mm	0.2756	9.5mm	0.374	45/64″	0.7031
#74	0.0225	1.7mm	0.0669	1/8″	0.125	#9	0.196	J	0.277	3/8″	0.375	18mm	0.7087
.6mm	0.0236	#51	0.067	3.2mm	0.126	5mm	0.1969	7.1mm	0.2795	V	0.377	23/32″	0.7188
#73	0.024	1.75mm	0.0689	3.25mm	0.128	#8	0.199	K	0.281	9.6mm	0.378	18.5mm	0.7283
#72	0.025	#50	0.07	#30	0.1285	5.1mm	0.2008	9/32″	0.2812	9.7mm	0.3819	47/64″	0.7344
.65mm	0.0256	1.8mm	0.0709	3.3mm	0.1299	#7	0.201	7.2mm	0.2835	9.75mm	0.3839	19mm	7480
#71	0.026	1.85mm	0.0728	3.4mm	0.1339	13/64″	0.2031	7.25mm	0.2854	9.8mm	0.3858	3/4″	0.75
.7mm	0.0276	#49	0.073	#29	0.136	#6	0.204	7.3mm	0.2874	W	0.386	49/64″	0.7656
#70	0.028	1.9mm	0.0748	3.5mm	0.1378	5.2mm	0.2047	L	0.29	9.9mm	0.3898	19.5mm	0.7677
#69	0.0292	#48	0.076	#28	0.1405	#5	0.2055	7.4mm	0.2913	25/62″	0.3906	25/32″	0.7812
.75mm	0.0295	1.95mm	0.0768	9/64″	0.1406	5.25mm	0.2067	M	0.295	10mm	0.3937	20mm	0.7874
#68	0.031	5/64″	0.0781	3.6mm	0.1417	5.3mm	0.2087	7.5mm	0.2953	X	0.397	51/64″	0.7969
1/32″	0.0312	#47	0.0785	#27	0.144	#4	0.209	19/64″	0.2969	Y	0.404	20.5mm	0.8071
.8mm	0.0315	2mm	0.0787	3.7mm	0.1457	5.4mm	0.2126	7.6mm	0.2992	13.32:	0.4062	13/16″	0.8125
#67	0.032	2.05mm	0.0807	#26	0.147	#3	0.213	N	0.302	Z	0.413	21mm	0.8268
#66	0.033	#46	0.081	3.75mm	0.1476	5.5mm	0.2165	7.7mm	0.3031	10.5mm	0.4134	53/64″	0.8281
.85mm	0.0335	#45	0.082	#25	0.1495	7/32″	0.2188	7.75mm	0.3051	27/64″	0.4219	27/32″	0.8438
#65	0.035	2.1mm	0.0827	3.8mm	0.1496	5.6mm	0.2205	7.8mm	0.3071	11mm	0.4331	21.5mm	0.8465
.9mm	0.0354	2.15mm	0.0846	#24	0.152	#2	0.221	7.9mm	0.311	7/16″	0.4375	55/64″	0.8594
#64	0.036	#44	0.086	3.9mm	0.1535	5.7mm	0.2244	5/16″	0.3125	11.5mm	0.4528	22mm	0.8661
#63	0.037	2.2mm	0.0866	#23	0.154	5.75mm	0.2264	8mm	0.315	29/64″	0.4531	7/8″	0.875
.95mm	0.0374	2.25mm	0.0886	5/32″	0.1562	#1	0.228	O	0.316	15/32″	0.4688	22.5mm	0.8858
#62	0.038	#43	0.089	#22	0.157	5.8mm	0.2283	8.1mm	0.3189	12mm	0.4724	57/64″	0.8906
#61	0.039	2.3mm	0.0906	4mm	0.1575	5.9mm	0.2323	8.2mm	0.3228	31/64″	0.4844	23mm	0.9055
1mm	0.0394	2.35mm	0.0925	#21	0.159	A	0.234	P	0.323	12.5mm	0.4921	29/32″	0.9062
#60	0.04	#42	0.0935	#20	0.161	15/64″	0.2344	8.25mm	0.3248	1/2″	0.5	59/64″	0.9219
#59	0.041	3/32″	0.0938	4.1mm	0.1614	6mm	0.2362	8.3mm	0.3268	13mm	0.5118	23.5mm	0.9252
1.05mm	0.0413	2.4mm	0.0945	4.2mm	0.1654	B	0.238	21/64″	0.3281	33/64″	0.5156	15/16″	0.9375
#58	0.042	#41	0.096	#19	0.166	6.1mm	0.2402	8.4mm	0.3307	17/32″	0.5312	24mm	0.9449
#57	0.043	2.45mm	0.0965	4.25mm	0.1673	C	0.242	Q	0.332	13.5mm	0.5315	61/64″	0.9531
1.1mm	0.0433	#40	0.098	4.3mm	0.1693	6.2mm	0.2441	8.5mm	0.3346	35/64″	0.5469	24.5mm	0.9646
1.15mm	0.0453	2.5mm	0.0984	#18	0.1695	D	0.246	8.6mm	0.3386	14mm	0.5512	31/32″	0.9688
#56	0.0465	#39	0.0995	11/64″	0.1719	6.25mm	0.2461	R	0.339	9/16″	0.5625	25mm	0.9843
3/64″	0.0469	#38	0.1015	#17	0.173	6.3mm	0.248	8.7mm	0.3425	14.5mm	0.5709	63/64″	0.9844
1.2mm	0.0472	2.6mm	0.1024	4.4mm	0.1732	E	0.25	11/32″	0.3438	37/64″	0.5781	1″	1
1.25mm	0.0492	#37	0.104	#16	0.177	1/4″	0.25	8.75mm	0.3445	15mm	0.5906		
1.3mm	0.0512	2.7mm	0.1063	4.5mm	0.1772	6.4mm	0.252	8.8mm	0.3465	19/32″	0.5938		

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