



INDUSTRIAL INC.

Toronto | Montréal | Edmonton

www.kar.ca

WINTER WARMUP 2023

PNEUMATIC TAPPING MACHINES

UNIVERSAL TAPPING ATTACHMENTS



	302803	302804
Range:	90°	90°
Fits Tapping Machine:	302799 302800	302801
Approx. Weight (lbs):	4.41	4.41

AS-12/II | Code 302799

4135.²⁶



AT-12/I | Code 302800

4011.⁵⁵



TAPPING MACHINES INCLUDE

Pneumatic tapping spindle
Stretch arm
Slanted arm (302799 and 302801 only)
Table mounting column
Air unit
6 safety clutch tapping adapters

	AS-12/II	AT-12/I	AT-20/II
Tap Capacity (Inch):	0-1/2	0-1/2	0-3/4
Speed (RPM):	400	400	150/400
Work Range Rmax./Rmin. (Inch):	55.12/7.87	62.99/19.69	74.8/7.87
Approx. Weight (lbs):	46.30	44.09	83.78

AT-20/II | Code 302801

9896.³⁰



YOUR AUTHORIZED KAR DISTRIBUTOR:



E.M. PRECISE TOOL LTD.

CUTTING TOOLS • PRECISION TOOLS • COOLANTS

216A Arvin Avenue, Stoney Creek, ON L8E 2L8
P: (905) 664-2644 | TF: 1 (800) 267-7569
E: info@emprecise.com | www.emprecise.com

MAKING IT EASY TO DO BUSINESS WITH SINCE 1954... CONTACT YOUR LOCAL KAR DISTRIBUTOR TODAY!

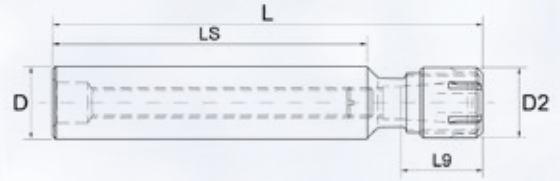
WINTER WARMUP

ER STRAIGHT SHANK COLLET CHUCKS



- Shank to taper runout: 0.0002"
- Coolant stop screw included

NOTE: Collet wrench sold separately



Collet Series	Collet Cap Min-Max (Inch)	D (Inch)	D2 (Inch)	L (Inch)	LS (Inch)	L9 (Inch)	Weight (lbs)	Locknut Type	Code	Price
ER11	0.020-0.276	1/2	0.63	7.00	5.51	1.27	0.40	*Round Slim	312128	113. ³²
ER16	0.020-0.406	3/4	0.87	7.00	5.51	1.24	0.90	*Round Slim	312130	113. ³²
ER20	0.020-0.512	1	1.38	7.00	5.51	1.42	1.60	Hex	312133	128. ²²
ER25	0.040-0.630	1	1.65	7.50	5.69	1.57	1.70	Round	312134	128. ²²
ER32	0.040-0.810	3/4	1.97	6.00	4.65	1.34	1.10	Round	312131	128. ²²
		1	1.97	7.50	5.69	1.93	1.83	Round	312135	151. ⁷³
		1-1/4	1.97	4.50	2.75	1.72	1.60	Round	312139	133. ²⁰
		1-1/4	1.97	6.00	3.10	1.72	2.10	Round	312140	143. ¹⁴
ER40	0.120-1.000	1	2.47	4.50	2.38	2.17	2.30	Round	312136	133. ²⁰
		1	2.47	7.00	4.87	1.77	2.70	Round	312137	148. ¹⁹
		1-1/4	2.47	4.50	2.38	2.17	1.90	Round	312141	133. ²⁰
		1-1/4	2.47	6.50	4.87	2.17	3.10	Round	312142	143. ¹⁴

* Round slim nut for close center work

OZ32 COLLET CHUCK SET



15-PIECE SET
Code 215421

853.⁶⁹



SET CONTENTS

NT40-OZ32-85 | DIN6388

NT40 Collet Chuck, Wrench, 15 Collets:

1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/8, 1-1/4

TOOL CLAMPING FIXTURES

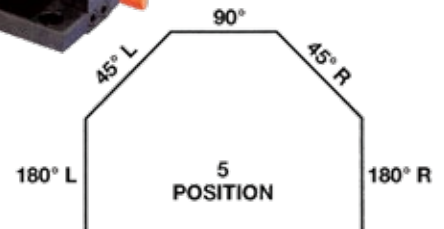


Fixed Vise Head



Rotary

MULTIPLE USE TOOL CLAMPS FOR
TOOL SHANK ISO - DIN 69871
CAT & BT-MAS



- Easy access for combined assembly of cutting tool and pull stud
- Head fixture can be set in five positions: vertical, horizontal and 45° (left and right)
- Efficiently designed for maximum protection of tool holder
- Enables strong gripping power of cutting tools
- Compact design - can be mounted on work table or tool cart

#40 ROTARY
Code 827695

254.⁷⁸

#50 ROTARY
Code 827696

322.⁰⁸

#40 FIXED
Code 827697

126.⁸¹

#50 FIXED
Code 827698

179.¹⁷

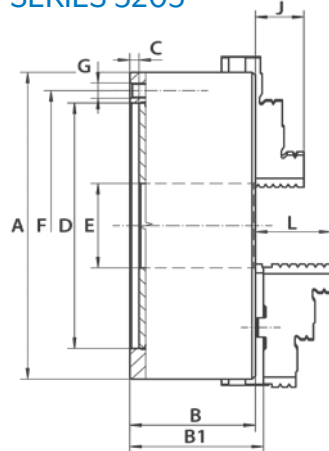
SAVE AT KAR

UNIVERSAL 3-JAW LATHE CHUCKS | PLAIN BACK & DIRECT MOUNT

CAST IRON BODY WITH 2-PIECE JAWS | SELF-CENTERING



PLAIN BACK
SERIES 3205



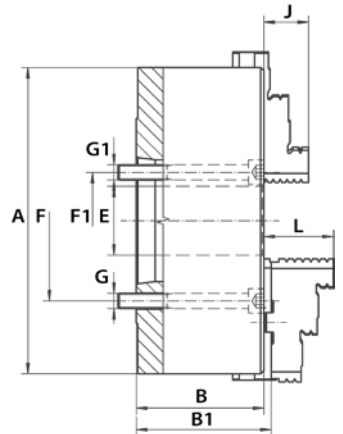
- Cast iron
- Plain back (Back plates required)
- Ground working surfaces

Standard Accessories:

- 1 set of hard top jaws
- 1 set of hard master jaws
- 1 wrench
- 1 hex key



TYPE A
SERIES 3215



- Cast iron
- Direct mount
- Ground working surfaces

Standard Accessories:

- 1 set of hard top jaws
- 1 set of hard master jaws
- 1 wrench

PLAIN BACK SERIES 3205

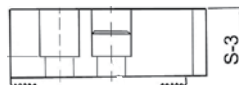
A (Inch)	B (Inch)	B1 (Inch)	C (Inch)	D H7 (Inch)	E (Inch)	F (Inch)	G	J (Inch)	L (Inch)	Weight (lbs)	Code	Price
4.92	2.20	2.39	0.16	3.74	1.26	4.25	3 x M8	0.79	1.57	11.02	355000	1113 ^{.73}
6.30	2.54	2.73	0.16	4.92	1.65	5.51	6 x M10	1.26	1.69	22.05	355001	1186 ^{.46}
7.87	2.95	3.14	0.16	6.30	2.17	6.93	6 x M10	1.14	1.77	38.58	355002	1445 ^{.39}
9.84	3.35	3.50	0.20	7.87	2.99	8.82	6 x M12	1.34	2.09	63.93	355003	1943 ^{.72}
12.40	3.70	3.90	0.20	10.24	4.06	11.26	6 x M16	1.69	2.24	110.23	355004	2713 ^{.43}
15.75	4.13	4.48	0.20	12.99	5.35	14.25	6 x M16	2.17	2.64	187.39	355005	5210 ^{.47}

TYPE A SERIES 3215

A (Inch)	Taper Size	B (Inch)	B1 (Inch)	E (Inch)	F (Inch)	F1 (Inch)	No. of Bolts	G	G1	J (Inch)	L (Inch)	Weight (lbs)	Code	Price
6.30	5	3.21	3.40	1.65	-	2.44	3	-	7/16-14	0.63	1.69	22.05	355009	1661 ^{.73}
7.87	5	3.58	3.77	1.65	-	2.44	3	-	7/16-14	1.14	1.77	41.89	355010	2928 ^{.00}
7.87	6	3.58	3.77	2.17	-	3.25	3	-	1/2-13	1.14	1.77	41.89	355011	2928 ^{.00}
9.84	5	4.07	4.22	2.99	4.13	-	6	7/16-14	-	1.34	2.09	70.55	355012	3103 ^{.58}
12.40	6	4.63	4.83	4.06	5.25	-	6	1/2-13	-	1.69	2.24	121.25	355015	4121 ^{.56}
12.40	8	4.63	4.83	3.15	-	4.37	6	-	5/8-11	1.69	2.24	121.25	355016	4121 ^{.56}
15.75	6	5.06	5.41	4.06	5.25	-	6	1/2-13	-	2.17	2.64	202.83	355017	8537 ^{.49}
15.75	11	5.06	5.41	5.12	-	6.50	6	-	3/4-10	2.17	2.64	202.83	355018	8537 ^{.49}

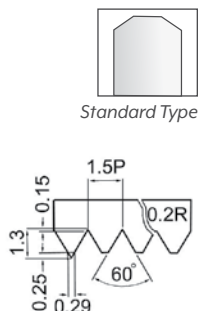
STEEL SERRATED SOFT JAWS | 3-PIECE SETS

For Chuck Diameter	S3 (mm)	Code	Price
6"	50	302323	68 ^{.78}
6"	80	302324	115 ^{.67}
8"	50	302325	78 ^{.42}
8"	80	302326	128 ^{.49}
10"	90	302328	170 ^{.44}
10"	120	302329	216 ^{.57}
12"	80	302331	198 ^{.73}
12"	120	302335	262 ^{.54}
12"	80	302330	198 ^{.73}
12"	100	302332	229 ^{.93}



FOR MORE
STYLES AND
ALL SOFT JAW
DIMENSIONS
VISIT KAR.CA

<https://tinyurl.com/yc589fpv>

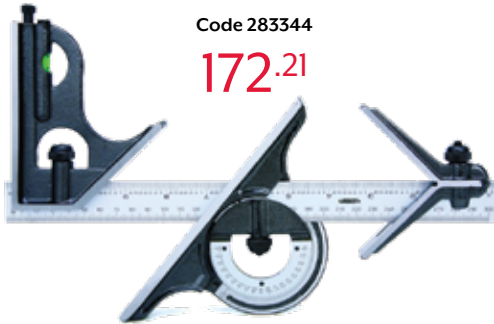


1.5 x 60° Standard Type | Extra height

WINTER WARMUP

COMBINATION SQUARE

←INSIZE→



Code 283344

172.21

- 12" rule: 1/8" & 1/16" graduations side 1, 1/32" & 1/64" graduations side 2
- Square, level, marking gage, scribe, center gage, protractor
- Supplied in fitted storage case

CENTERING INDICATOR

←INSIZE→



Code 284450

251.09

PROVIDES QUICK AND ACCURATE CENTERING DURING BORING AND MILLING SET-UPS

	Accuracy	Measuring Diameter
1	±0.0015"	Ø 0-2.362"
2	±0.0023"	Ø 0-6.299"
3	±0.0031"	Ø 0-9.843"
4	±0.0015"	Ø 0.126-3.15"
5	±0.0023"	Ø 0.126-7.087"
6	±0.0031"	Ø 0.126-11.024"
7	±0.0015"	Ø 0-0.11"

SAVE NOW WITH KAR

on these featured essentials for the Red Seal Machinist's toolbox!

MICROMETER SET & STAND

←INSIZE→

STAND
Code 282456
34.66



- For micrometers up to 4"
- Cast stand with 2 separate locking handles

0-6" SET
312.77
Code 816592



- Graduation: 0.0001"
- Ratchet stop
- Carbide tips
- Micrometers over 1"/25mm supplied with a setting standard
- Supplied in fitted storage case

NIST
CERTIFICATION

ZERO SETTER

←INSIZE→



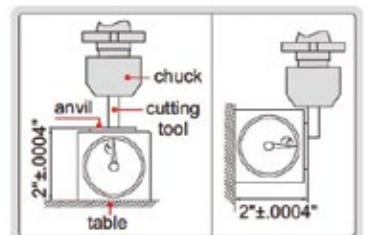
ZERO SETTER WITH
MAGNETIC BASE

Code 284447

389.95

Height (H): 2"
Bezel diameter: 1.654"
Dial diameter: 1.240"
Accuracy: ± 0.0004"
Test force: 2 lbf (at 2")

APPLICATION:



INSIZE EXCLUSIVELY AVAILABLE AT KAR IN CANADA: <https://kar.ca/catalogsearch/result/?q=INSIZE>



DEBURRING SETS

GOLDEN FLEX SETS WITH TiN COATED MULTI-PURPOSE BLADES



Code 551002
59.55

Code 551003
66.76

MANGO II LONG REACH SETS WITH HSS MULTI-PURPOSE BLADES



Code 550996
28.40

Code 550997
32.69

SET CONTENTS

SHAVIV GOLDEN FLEX SET B Standard Deburring	SHAVIV GOLDEN FLEX SET E Heavy Duty Deburring
Aluminum handle (1), B holder (1), 5 pairs of B blades: B10P (2), B11P (2), B12P (2), B20P (2), and B30P (2)	Aluminum handle (1), E holder (1), 5 pairs of E blades: E100P (2), E110P (2), E111P (2), E200P (2), E300P (2)

SET CONTENTS

SHAVIV MANGO II SET B Standard Deburring	SHAVIV MANGO II SET E Heavy Duty Deburring
Mango II handle Telescopic B holder 10 x B10 HSS blades	Mango II handle Telescopic E holder 10 x E100 HSS blades

SHAVIV EXCLUSIVELY AVAILABLE AT KAR IN CANADA

STANDARD ARBOR PRESSES

- Main parts made of ductile cast iron
- Adjustable handle for positioning
- Ram finite control with smooth gears
- Four 90° equally divided slotted round table

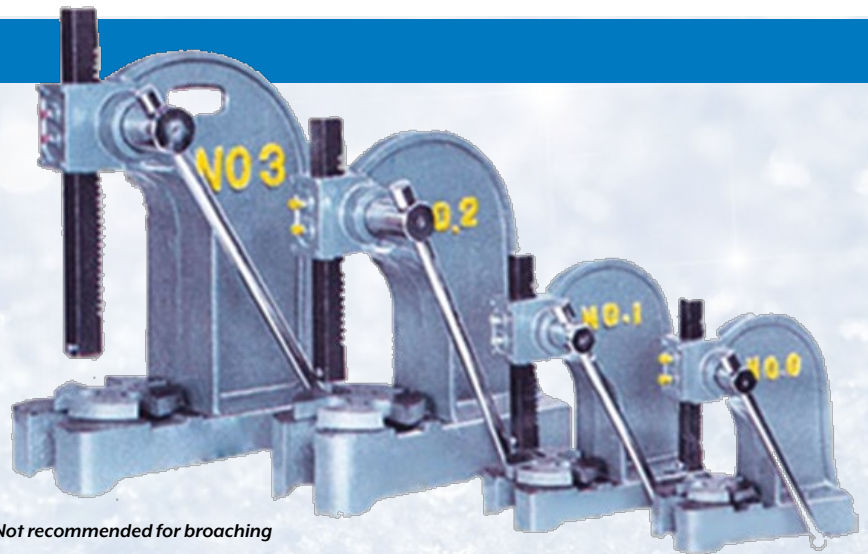
Code 680105
216.90

Code 680110
282.70

Code 680115
520.59

Code 680120
763.50

Code 680130
2255.88



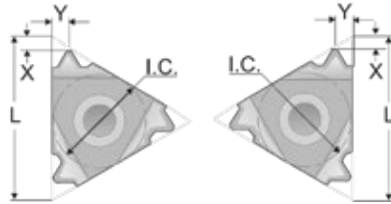
Not recommended for broaching

Base Dimension (Inch)	Press Height (Inch)	Press Tons	Max Work Height (Inch)	Swing (Inch)	Table Diameter (Inch)	Ram Diameter (Inch)	Code
9.25 x 4.02	10.0	0.5	4.5	3.3	3.5	0.75 x 0.75	680105
10.63 x 5.00	12.6	1	4.5	4.1	4.3	1 x 1	680110
15.75 x 6.69	17.5	2	8.5	5.3	6.7	1.25 x 1.25	680115
18.50 x 7.87	22.4	3	12.5	5.3	6.7	1.5 x 1.5	680120
26.77 x 9.84	31.5	5	18.5	9.6	9.8	2 x 2	680130

WINTER WARMUP



THREADING SETS



External Right Hand
Internal Left Hand

External Left Hand
Internal Right Hand

0.75" Square Shank
External – KEU
Code 570001

462.75

1" Square Shank
External – KEU10
Code 570002

465.80

0.75" Diameter Bar
Internal – KIU
Code 570003

473.67

1" Diameter Bar
Internal – KIU10
Code 570004

530.52

SET CONTENTS

10 External UN Inserts

16ER A60 BMA, 16ER G60 BMA,
16ER AG60 BMA, 16ER 8UN BMA,
16ER 12UN BMA, 16ER 14UN BMA,
16ER 16UN BMA, 16ER 18UN BMA,
16ER 20UN BMA, 16ER 24UN BMA

TOOL HOLDER: 0.75 or 1.00" square

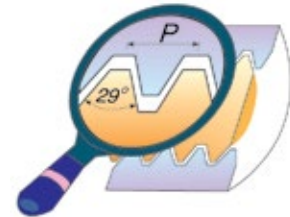
10 Internal UN Inserts

16IR A60 BMA, 16IR G60 BMA,
16IR AG60 BMA, 16IR 8UN BMA,
16IR 12UN BMA, 16IR 14UN BMA,
16IR 16UN BMA, 16IR 18UN BMA,
16IR 20UN BMA, 16IR 24UN BMA

TOOL HOLDER: 0.75 or 1.00" diameter

THREADING INSERTS

CARBIDE | FULL PROFILE
STUB ACME | EXTERNAL | GRADE BMA



L mm I.C. (Inch)	Pitch TPI	External Right Hand	Code	Price
11 (1/4)	16	11ER	578919	20.34/ea.
16 (3/8)	16	16ER	578918	
16 (3/8)	14	16ER	578924	
16 (3/8)	12	16ER	578930	
16 (3/8)	10	16ER	578936	
16 (3/8)	8	16ER	578942	
16 (3/8)	6	16ER	578948	
16 (3/8)	6	16ER	578948	

KEYWAY BROACHES | METRIC | HIGH SPEED STEEL



Keyway Width (mm)	Broach Dimensions (Inch)	Standard Keys (mm)	No. of Shims Included	Tooth Pitch (Inch)	Minimum Length of Cut (Inch)	Maximum Length of Cut (Inch)	Code	Price
2 A	1/8 x 5	2 x 2	0	3/16	13/64	1-1/8	605637	117.11/ea.
3 A	1/8 x 5	3 x 3	1	3/16	13/64	1-1/8	605638	
4 BI	1/4 x 6-3/4	4 x 4	1	9/32	19/64	1-11/16	605639	
5 BI	1/4 x 6-3/4	5 x 5	1	9/32	19/64	1-11/16	605640	139.20/ea.
5 C	3/8 x 11-3/4	5 x 5	1	3/8	25/64	2-1/2	605641	
6 C	3/8 x 11-3/4	6 x 6	1	3/8	25/64	2-1/2	605642	
8 C	3/8 x 11-3/4	8 x 7	2	3/8	25/64	2-1/2	605643	175.54/ea.
10 D	9/16 x 13-7/8	10 x 8	2	5/8	1	6	605644	
12 D	9/16 x 13-7/8	12 x 8	2	5/8	1	6	605645	
14 D	9/16 x 13-7/8	14 x 9	2	5/8	1	6	605646	268.43/ea.
16 E	3/4 x 15-1/2	16 x 10	3	5/8	1	6	605647	
18 E	3/4 x 15-1/2	18 x 11	3	5/8	1	6	605648	
20 F	1 x 20-1/4	20 x 12	3	5/8	1	6	605649	447.99/ea.
22 F	1 x 20-1/4	22 x 14	4	5/8	1	6	605650	
24 F	1 x 20-1/4	24 x 14	5	5/8	1	6	605651	
25 F	1 x 20-1/4	25 x 14	4	5/8	1	6	605652	922.99/ea.

SAVE AT KAR



HIGH PERFORMANCE V7 INOX 4-FLUTE END MILLS

MICROGRAIN SOLID CARBIDE | NANO AlTiN COATED



- Minimizes tool deflection
- Low amplitude – eliminates vibration
- Allows deeper cuts and faster speeds
- Increases metal removal rates
- Supreme surface finish
- For machining of most materials under 40HRC



Radius

Cutter Diameter (Inch) * 0/-0.0012	Shank Diameter (Inch) * h6	Shank Style	Length of Cut (Inch)	Overall Length (Inch)	REGULAR LENGTH				
					SQUARE END		CORNER RADIUS		
					Code	Price	Radius (Inch)	Code	Price
1/8	1/8	Plain	3/8	1-1/2	888000	16 ^{.38}	0.015	888034	17 ^{.24}
5/32	3/16	Plain	7/16	2	888002	24 ^{.24}	–	–	–
3/16	3/16	Plain	7/16	2	888004	21 ^{.53}	0.015	888036	22 ^{.67}
7/32	1/4	Plain	7/16	2-1/2	888006	30 ^{.53}	–	–	–
1/4	1/4	Plain	1/2	2-1/2	888008	27 ^{.41}	0.020	888038	28 ^{.83}
5/16	5/16	Plain	13/16	2-1/2	888012	36 ^{.14}	0.020	888040	37 ^{.94}
3/8	3/8	Flat	7/8	2-1/2	888016	53 ^{.04}	0.020	888042	45 ^{.23}
7/16	7/16	Flat	1	2-3/4	888020	94 ^{.49}	0.020	888044	66 ^{.28}
1/2	1/2	Flat	1	3	888024	68 ^{.01}	0.030	888046	71 ^{.33}
9/16	9/16	Flat	1-1/8	3-1/2	888026	132 ^{.39}	0.030	888048	139 ^{.39}
5/8	5/8	Flat	1-1/4	3-1/2	888028	141 ^{.69}	0.040	888050	149 ^{.13}
3/4	3/4	Flat	1-1/2	4	888030	208 ^{.73}	0.040	888052	219 ^{.79}
1	1	Flat	1-1/2	4	888032	327 ^{.73}	0.040	888054	345 ^{.13}

* TOLERANCE

SETS



SILVER & DEMING SET 4 PIECES | BLACK & GOLD

- 6" overall length
- 135° split point
- Sizes included: 9/16", 5/8", 3/4" and 1" in fitted storage case

Code 750002

249.96



TAP & DRILL SET 18 PIECES | BLACK & GOLD

- Heavy duty drills have gold treatment for maximum lubricity and torsional strength
- Sizes included:
135° Split Point Drills: 5/16", 27/64", #7, #21, #25, #29, #36, F and U
Spiral Point Taps: 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14 and 1/2-13 in metal indexed storage case

Code 750007

185.54

JOBBER LENGTH DRILL SET | 115 PIECES

- HSS with oxide finish, 118° point
- Sizes included: 1/16" to 1/2" by 64ths, Letter A to Z, and Wire Gage 1 to 60 in metal indexed storage case

Code 754603

517.55



REAMER SET | 29 PIECES STRAIGHT FLUTE

- Sizes included: 1/16" to 1/2" by 64ths in metal indexed storage case

Code 311435

773.59



WINTER WARMUP

COUNTERSINKS | 3 FLUTE | INCH | HSS-E (COBALT) & TiN COATED

This highly productive countersinking cutter is a much improved version of the traditional multiflute milling cutter:

- wide flutes provide good chip evacuation
- positive cut
- constant profile aids regrinding of the tool
- self-centering of the cutting mill (three bearing points)
- virtually eliminates vibration

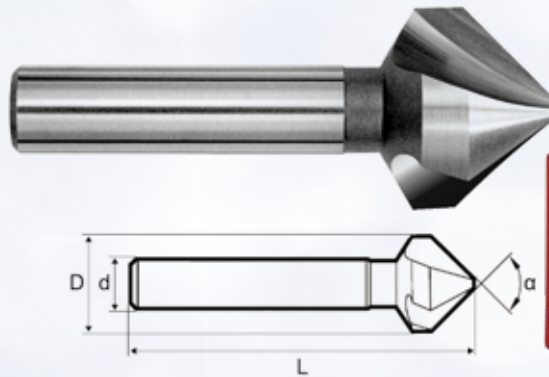
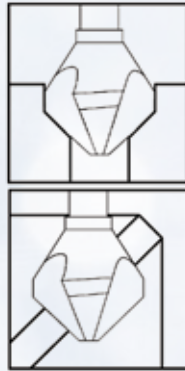
Dimensions are adapted so as to sink 90 degree screw caps up to M12. We recommend lubricating.

Carbide:

Diameter 12.4 to 31 = 3 flatted shanks

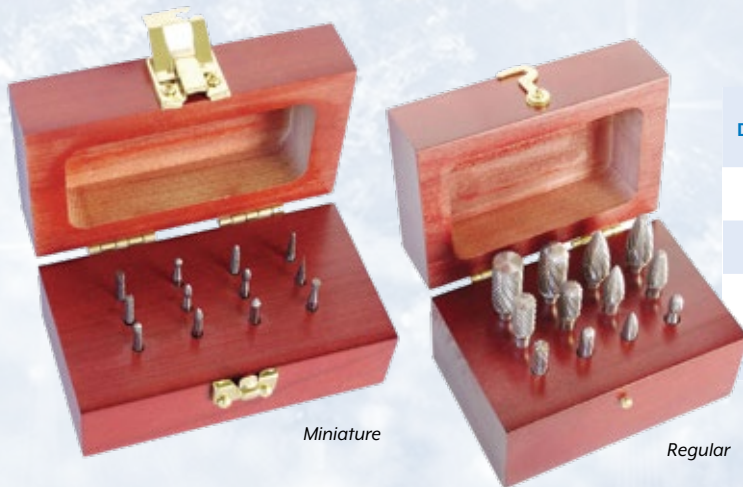
Diameter 4.3 to 8.3 = cylindrical shank

Diameter 10.4 to 31 = brazed carbide head



D Overall Diameter Inch (mm)	d Shank Diameter (mm)	Chamfer Range Min/Max (mm)	L Overall Length (Inch)	82° ANGLE (α)				90° ANGLE (α)				
				Series 434 HSS-E		Series 4834 TiN		Series 431 HSS-E		Series 4831 TiN		
				Code	Price	Code	Price	Code	Price	Code	Price	
1/4 (6.35)	6.35	1.5-6.35	1.77	540390	31 ^{.09}	540437	39 ^{.38}	540376	31 ^{.09}	540383	39 ^{.38}	
5/16 (7.93)		2-7.93		540391	32 ^{.54}	540438	40 ^{.93}	540377	32 ^{.54}	540384	40 ^{.93}	
3/8 (9.52)		2.5-9.52		1.97	540392	39 ^{.68}	540439	47 ^{.67}	540378	39 ^{.68}	540385	47 ^{.67}
1/2 (12.7)		2.9-12.7			540393	46 ^{.11}	540440	54 ^{.14}	540379	46 ^{.11}	540386	54 ^{.14}
5/8 (15.87)	9.52	3.2-15.87	2.36	540394	57 ^{.97}	540441	70 ^{.05}	540380	57 ^{.97}	540387	70 ^{.05}	
3/4 (19.05)		3.5-19.05		540395	65 ^{.07}	540442	82 ^{.53}	540381	65 ^{.07}	540388	82 ^{.53}	
1 (25.4)		3.8-25.4		2.76	540396	79 ^{.37}	540443	97 ^{.28}	540382	79 ^{.37}	540389	97 ^{.28}
6-PIECE SETS 1/4, 5/16, 3/8, 1/2, 5/8 & 3/4 INCH				82° ANGLE (α)				90° ANGLE (α)				
				Series 434 HSS-E		Series 4834 TiN		Series 431 HSS-E		Series 4831 TiN		
				Code	Set Price	Code	Set Price	Code	Set Price	Code	Set Price	
				540446	272 ^{.51}	540447	334 ^{.69}	540444	272 ^{.51}	540445	334 ^{.69}	

BURR SETS | DOUBLE CUT



Shank Diameter (Inch)	Set Style	Burrs Included	Code	Price
1/8	Miniature	12 PIECES: SA42; SA43; SC42; SD42; SE41; SF41; SF42; SG41; SH41; SL41; SM43; SN42	938928	132 ^{.53}
1/4	Regular	12 PIECES: SA14; SA1; SC14; SC1; SD14; SD1; SE1; SF1; SG1; SM1; SM2; SN1	938930	220 ^{.23}
1/4	Regular	9 PIECES: SB1; SB3; SB5; SD1; SD3; SD5; SE1; SE3; SE5	938931	283 ^{.25}
1/4	Regular	9 PIECES: SB3; SC3; SD3; SE3; SF3; SG3; SK3; SL3; SM3	939032	236 ^{.80}



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*Products shown may not be exactly as illustrated Code 000321

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