

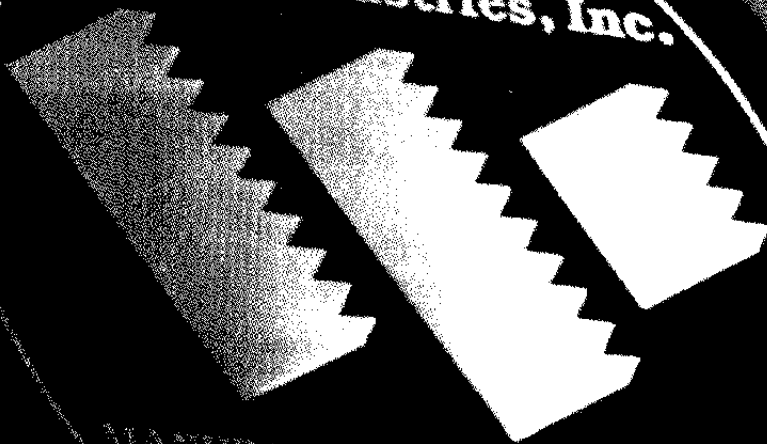
INTERNATIONAL

*Standard Taps, Dies &
Threading Accessories*

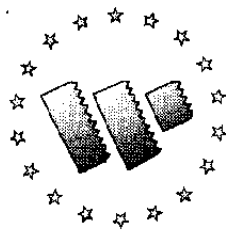
EST. 1962

1999

Widell Industries, Inc.



MANUFACTURERS OF SPECIAL
TAPS, DIES AND GAGES



Dear Valued Customers:

On behalf of myself and all the employees at **Widell Industries, Inc.** we would like to thank all of our distributors for helping us achieve over 35 years of manufacturing special threading tools.

Widell, the pioneer of same day service for special taps and dies, up to 8 inch in diameter, is still setting the standard for the cutting tool industry.

Although our reputation was built on service, our growth is made possible by increasing demand for our quality products.

It is our commitment to fast service and quality products that has made us one of the leading manufacturers of special threading tools.

With five plants, strategically located throughout the U.S.A., and a highly trained professional staff to answer any of your application needs, we offer the finest in customer service and satisfaction. **Widell** is committed to continuous same day quotes on blue print specials.

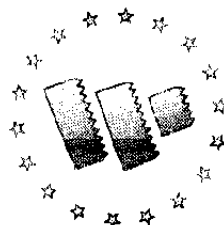
Through your continued support, **Widell** will always be the leading supplier of Special Acme threading tools in the U.S.A. and we have the world's largest range of special threading dies in stock.

Again, all of us at **Widell Industries** say thank you for your support over the past 35 years and we look forward to continuing to provide you with the quality and service you deserve.

Sincerely,

Wayne Widell

Wayne Widell
President

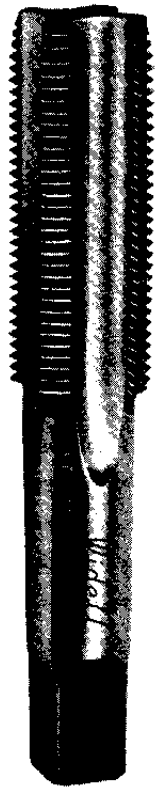


**WIDELL
INDUSTRIES
INC.**

*Standard Taps, Dies
and
Threading Accessories*

May 1998

INTERNATIONAL
24 HOUR DELIVERY
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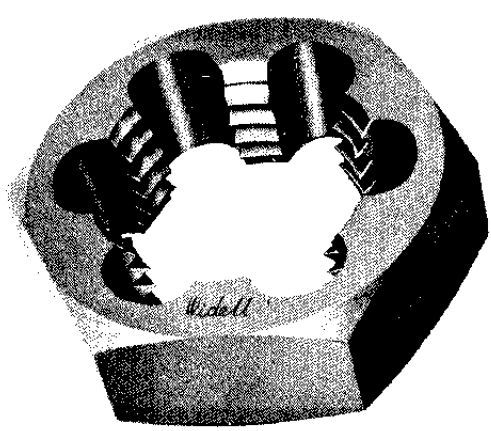
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Your first source:



MEMBER OF ASMMA
COPYRIGHT® 1991 WIDELL INDUSTRIES, INC.

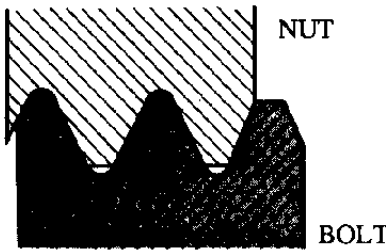
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CARBIDE THREADING INSERTS

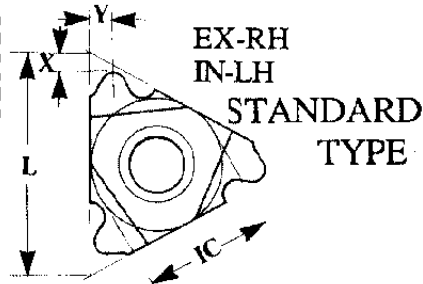
V (PARTIAL) PROFILE CARBIDE THREADING INSERTS

RECOMMENDED CARBIDE GRADES

C2/K20 UNCOATED — For non ferrous metals, aluminum & cast iron.
C5/P30 UNCOATED — The most popular carbide grade for carbon and cast steels works well at medium to low cutting speeds.
C6/P15 UNCOATED — For the same applications of the P30 grade. Used at higher cutting speeds, possess better wear resistance but is more brittle than P30. Should be used in steady vibration free conditions.
MXC COATED — For free cutting and untreated alloy steels (below 30 HRC) and for stainless steels.
P25C COATED — For treated and hard alloy steels (30 HRC & up) at medium to low cutting speeds.



● The V (Partial) - Profile Inserts cut without topping the O.D. of the thread. The same insert can be used for a range of different thread pitches. They are stocked in 60° thread angles, and are supplied in boxes of 10, with one torx screw and one key. They are made for RIGHT HAND and LEFT HAND, for INTERNAL and EXTERNAL threading. To avoid confusion, the different pitch ranges have been defined A, AG, G, N, U & Q.



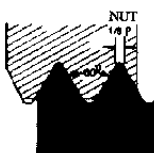
IMPORT

| PITCH RANGE | L INSERT IC | THREAD PER INCH | EXTERNAL RIGHT HAND UNCOATED | | | INTERNAL RIGHT HAND GRADES | | | PRICE EACH | EXTERNAL RIGHT HAND - COATED | | INTERNAL RIGHT HAND - GRADES | | PRICE EACH |
|-------------|-------------|-----------------|------------------------------|--------|--------|----------------------------|--------|--------|------------|------------------------------|-------|------------------------------|-------|------------|
| | | | C2/K20 | C5/P30 | C7/P15 | C2/K20 | C5/P30 | C7/P15 | | P25C | MXC | P25C | MXC | |
| A60 | 1/4 | 16-48 | 28000 | 28005 | 28011 | 28015 | 28020 | 28026 | 17.90 | 28030 | 28036 | 28042 | 28048 | 21.30 |
| A60 | 3/8 | 16-48 | 28001 | 28006 | 28012 | 28016 | 28021 | 28027 | 17.90 | 28031 | 28037 | 28043 | 28049 | 21.30 |
| G60 | 3/8 | 8-14 | 28002 | 28007 | 28013 | 28017 | 28022 | 28028 | 17.90 | 28032 | 28038 | 28044 | 28050 | 21.30 |
| AG60 | 3/8 | 8-48 | 28003 | 28008 | 28014 | 28018 | 28023 | 28029 | 17.90 | 28033 | 28039 | 28045 | 28051 | 21.30 |
| N60 | 1/2 | 5-7 | 28004 | 28009 | | 28019 | 28024 | | 23.20 | 28034 | 28040 | 28046 | 28052 | 26.60 |
| Q60 | 5/8 | 4-4 1/2 | | 28010 | | | 28025 | | 34.60 | 28035 | 28041 | 28047 | 28053 | 38.00 |

FULL PROFILE CARBIDE THREADING INSERTS

| PITCH RANGE | L INSERT IC | EXTERNAL RIGHT HAND UNCOATED | | | INTERNAL RIGHT HAND GRADES | | | PRICE EACH | EXTERNAL RIGHT HAND - COATED | | INTERNAL RIGHT HAND - GRADES | | PRICE EACH |
|-------------|-------------|------------------------------|--------|--------|----------------------------|--------|--------|------------|------------------------------|-------|------------------------------|-------|------------|
| | | C2/K20 | C5/P30 | C7/P15 | C2/K20 | C5/P30 | C7/P15 | | P25C | MXC | P25C | MXC | |
| 32 | (11) 1/4 | | | | | 28091 | | 20.10 | | | 28135 | | 23.50 |
| 28 | 1/4 | | | | | 28092 | | 20.10 | | | 28136 | | 23.50 |
| 24 | 1/4 | | | | | 28093 | | 20.10 | | | 28137 | | 23.50 |
| 20 | 1/4 | | 28064 | | | 28094 | | 20.10 | | | 28138 | | 23.50 |
| 18 | 1/4 | | 28065 | | | 28095 | | 20.10 | | | 28139 | | 23.50 |
| 16 | 1/4 | 28054 | 28066 | | 28081 | 28096 | | 20.10 | | | 28140 | | 23.50 |
| 14 | 1/4 | 28055 | 28067 | | 28082 | 28097 | | 20.10 | | | 28141 | | 23.50 |
| 32 | (16) 3/8 | 28056 | 28068 | | 28083 | 28098 | | 17.80 | 28111 | 28123 | 28142 | 28154 | 23.90 |
| 28 | 3/8 | 28057 | 28069 | | 28084 | 28099 | | 17.80 | 28112 | 28124 | 28143 | 28155 | 22.80 |
| 24 | 3/8 | 28058 | 28070 | | 28085 | 28100 | | 17.80 | 28113 | 28125 | 28144 | 28156 | 22.80 |
| 20 | 3/8 | 28059 | 28071 | | 28086 | 28101 | | 17.80 | 28114 | 28126 | 28145 | 28157 | 22.80 |
| 18 | 3/8 | 28060 | 28072 | 28080 | 28087 | 28102 | 28110 | 17.80 | 28115 | 28127 | 28146 | 28158 | 22.80 |
| 16 | 3/8 | 28061 | 28073 | | 28088 | 28103 | | 17.80 | 28116 | 28128 | 28147 | 28159 | 22.80 |
| 14 | 3/8 | 28062 | 28074 | | 28089 | 28104 | | 17.80 | 28117 | 28129 | 28148 | 28160 | 22.80 |
| 12 | 3/8 | 28063 | 28075 | | 28090 | 28105 | | 17.80 | 28118 | 28130 | 28149 | 28161 | 22.80 |
| 11 | 3/8 | | 28076 | | | 28106 | | 19.20 | 28119 | 28131 | 28150 | 28162 | 22.60 |
| 10 | 3/8 | | 28077 | | | 28107 | | 19.20 | 28120 | 28132 | 28151 | 28163 | 22.60 |
| 9 | 3/8 | | 28078 | | | 28108 | | 19.20 | 28121 | 28133 | 28152 | 28164 | 22.60 |
| 8 | 3/8 | | 28079 | | | 28109 | | 19.20 | 28122 | 28134 | 28153 | 28165 | 22.60 |

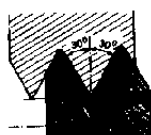
AMERICAN UN
THREAD
STANDARD 60°



AMERICAN NPT -

NPT

National Pipe Thread



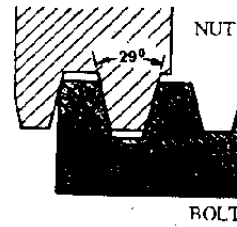
| TPI PITCH RANGE | L INSERT IC | EXTERNAL RIGHT HAND UNCOATED | | INTERNAL RIGHT HAND - GRADES | | PRICE EACH | EXTERNAL RIGHT HAND - COATED | | INTERNAL RIGHT HAND - GRADES | | PRICE EACH |
|-----------------|-------------|------------------------------|--------|------------------------------|--------|------------|------------------------------|-------|------------------------------|-------|------------|
| | | C2/K20 | C5/P30 | C2/K20 | C5/P30 | | P25C | MXC | P25C | MXC | |
| 18 | 1/4 | | | | 28172 | 21.50 | | | 28182 | | 24.90 |
| 27 | 3/8 | | 28167 | | 28173 | 19.20 | 28177 | | 28183 | | 24.90 |
| 14 | 3/8 | | 28168 | | 28174 | 19.20 | 28178 | | 28184 | | 24.90 |
| 11.5 | 3/8 | 28166 | 28169 | 28171 | 28175 | 19.20 | 28179 | 28181 | 28185 | 28187 | 24.90 |
| 8 | 3/8 | | 28170 | | 28176 | 19.20 | 28180 | | 28186 | | 24.90 |

WIDELL INDUSTRIES INC.

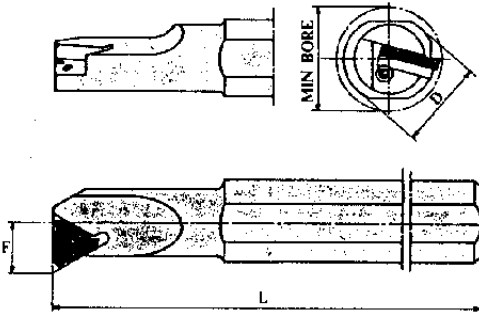
FL 800-237-5963 • MI 800-248-3044 • CO 800-255-8277 • NH 800-323-7726 • CA 800-255-8277 • TOLL FREE FAX 800-848-6363

| PITCH RANGE | INSERT IC | EXTERNAL RIGHT HAND | | PRICE EACH | INTERNAL RIGHT HAND | | PRICE EACH |
|-------------|-----------|---------------------|--------|------------|---------------------|--------|------------|
| | | C2/K20 | C5/P30 | | C2/K20 | C5/P30 | |
| 16 | 3/8 | 28188 | 28189 | 21.50 | 28197 | 28198 | 21.50 |
| 14 | 3/8 | | 28190 | 21.50 | | 28199 | 21.50 |
| 12 | 3/8 | | 28191 | 21.50 | | 28200 | 21.50 |
| 10 | 3/8 | | 28192 | 21.50 | | 28201 | 21.50 |
| 8 | 3/8 | | 28193 | 21.50 | | 28202 | 21.50 |
| 6 | 1/2 | | 28194 | 26.00 | | 28203 | 26.00 |
| 5 | 1/2 | | 28195 | 26.00 | | 28204 | 26.00 |
| 4 | 5/8 | | 28196 | 37.60 | | 28205 | 37.60 |

ACME

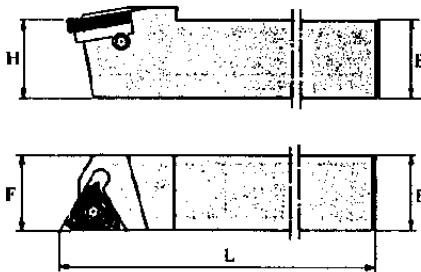


INTERNAL TOOLHOLDERS



| ORDERING CODE RIGHT HAND | | | ↔ | I-N-C-H-E-S | | | | EDP NO | PRICE EACH |
|--------------------------|------|-----|----|-------------|-------|----------|------|--------|------------|
| SIR | | | ▲ | D | L | MIN BORE | F | | |
| SIR | 0375 | H11 | 11 | 0.38 | 4.00 | 0.47 | 0.29 | 28206 | 86.30 |
| SIR | 0375 | K11 | 11 | 0.62 | 5.00 | 0.47 | 0.26 | 28207 | 91.50 |
| SIR | 0500 | M16 | 16 | 0.62 | 6.00 | 0.64 | 0.39 | 28208 | 96.70 |
| SIR | 0625 | M16 | 16 | 0.62 | 6.00 | 0.75 | 0.41 | 28209 | 100.20 |
| SIR | 0750 | P16 | 16 | 0.75 | 7.00 | 1.00 | 0.51 | 28210 | 101.90 |
| SIR | 1000 | R16 | 16 | 1.00 | 8.00 | 1.20 | 0.65 | 28211 | 134.70 |
| SIR | 1250 | S16 | 16 | 1.25 | 10.00 | 1.42 | 0.77 | 28212 | 143.30 |
| SIR | 1500 | T16 | 16 | 1.50 | 12.00 | 1.65 | 0.90 | 28213 | 188.30 |
| SIR | 0750 | P22 | 22 | 0.75 | 7.00 | 0.95 | 0.51 | 28214 | 110.50 |
| SIR | 1000 | R22 | 22 | 1.00 | 8.00 | 1.20 | 0.71 | 28215 | 140.50 |
| SIR | 1250 | S22 | 22 | 1.25 | 10.00 | 1.50 | 0.85 | 28216 | 152.00 |
| SIR | 1500 | T22 | 22 | 1.50 | 12.00 | 1.75 | 0.98 | 28217 | 196.80 |
| SIR | 1250 | S27 | 27 | 1.25 | 10.00 | 1.56 | 0.88 | 28218 | 153.70 |
| SIR | 1500 | T27 | 27 | 1.50 | 12.00 | 1.80 | 1.00 | 28219 | 200.30 |
| SIR | 2000 | U27 | 27 | 2.00 | 14.00 | 2.30 | 1.25 | 28220 | 274.50 |
| SIR | 2500 | V27 | 27 | 2.50 | 16.00 | 2.70 | 1.50 | 28221 | 307.4L |

EXTERNAL TOOLHOLDERS



| ORDERING CODE RIGHT HAND | | | ▲ | I-N-C-H-E-S | | | EDP NO | PRICE EACH |
|--------------------------|------|-----|------|-------------|------|------|--------|------------|
| SER | | | (MM) | B=H | L | F | | |
| SER | 0375 | H11 | 11 | 0.38 | 5.00 | 0.43 | 28222 | 84.80 |
| SER | 0375 | D16 | 11 | 0.38 | 4.00 | 0.43 | 28223 | 91.50 |
| SER | 0500 | F16 | 16 | 0.50 | 3.25 | 0.63 | 28224 | 93.20 |
| SER | 0625 | H16 | 16 | 0.63 | 4.00 | 0.63 | 28225 | 95.00 |
| SER | 0750 | K16 | 16 | 0.75 | 5.00 | 0.75 | 28226 | 96.70 |
| SER | 1000 | M16 | 16 | 1.00 | 6.00 | 1.00 | 28227 | 98.50 |
| SER | 1250 | P16 | 16 | 1.25 | 7.00 | 1.25 | 28228 | 108.80 |
| SER | 1000 | M22 | 22 | 1.00 | 6.00 | 1.00 | 28229 | 107.10 |
| SER | 1250 | P22 | 22 | 1.25 | 7.00 | 1.25 | 28230 | 117.50 |
| SER | 1500 | R22 | 22 | 1.50 | 8.00 | 1.50 | 28231 | 186.50 |
| SER | 1000 | M27 | 27 | 1.00 | 6.00 | 1.00 | 28232 | 143.30 |
| SER | 1500 | R27 | 27 | 1.50 | 8.00 | 1.50 | 28233 | 210.70 |
| SER | 1250 | P27 | 27 | 1.25 | 7.00 | 1.25 | 28234 | 158.80 |

SPARE PARTS

1.25 7.00 1.25 28234 149.85

| INSERT SIZE | INSERT SCREW | ANVIL SCREW | PRICE EACH | TORX KEY | PRICE EACH | ANVIL | | PRICE EACH | |
|-------------|--------------|-------------|------------|----------|------------|--------|--------|------------|-------|
| | | | | | | RH INT | RH EXT | | |
| 11 | 1/4 | 28235 | | 1.80 | 28242 | 5.20 | | | |
| 16 | 3/8 | 28236 | 28239 | 1.80 | 28243 | 5.20 | 28246 | 28249 | 8.60 |
| 22 | 1/2 | 28237 | 28240 | 2.60 | 28244 | 6.90 | 28247 | 28250 | 13.80 |
| 27 | 5/8 | 28238 | 28241 | 3.50 | 28245 | 8.60 | 28248 | 28251 | 20.70 |





5

CONVERSION AND COMPARISON CHARTS

THREADING INSERTS



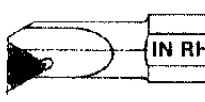
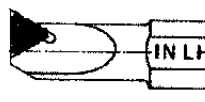


THE WAY DIFFERENT COMPANIES DESCRIBE A 12 UN THREADING INSERT ON AN L =16 (IC 3/8") TRIANGULAR LAY DOWN INSERT

| COMPANY |  EX RH |  EX LH |  IN RH |  IN LH |
|------------------|---|---|---|---|
| CARMEX | 16 ER 12 UN | 16 EL 12 UN | 16 IR 12 UN | 16 IL 12 UN |
| SECO-SNAPTAP | 16 ER 12 UN | 16 EL 12 UN | 16 NR 12 UN | 16 NL 12 UN |
| KENNAMETAL | LT 16 ER 12 UN | LT 16 EL 12 UN | LT 16 NR 12 UN | LT 16 NL 12 UN |
| SANDVIK | R166.0 G 16 UN 01-120 | L166.0 G 16 UN 01-120 | R166.0 L 16 UN 01-120 | L166.0 L 16 UN 01-120 |
| TOSHIBA TUNGALOY | 16 ER 12 UN | 16 EL 12 UN | 16 NR 12 UN | 16 NL 12 UN |
| VARGUS | 3 ER 12 UN | 3 EL 12 UN | 3 IR 12 UN | 3 IL 12 UN |

TOOLHOLDERS

THE WAY DIFFERENT COMPANIES DESCRIBE THREADING TOOLHOLDERS:
(CLAMPING WITH SCREW)

| COMPANY | 25 MM SQUARE EXTERNAL TOOLHOLDERS | | 25 MM DIAMETER INTERNAL TOOLHOLDERS | |
|------------------|---|---|---|---|
| |  EX RH |  EX LH |  IN RH |  IN LH |
| CARMEX | SER 2525 M16 | SEL 2525 M16 | SIR 0025 R16 | SIL 0025 R16 |
| SECO-SNAPTAP | SER 2525 M16 | SEL 2525 M16 | SNR 0025 R16 | SNL 0025 R16 |
| KENNAMETAL | LSSR 2525 M16 | LSSL 2525 M16 | S 25 R LSER-16 | S 25 R LSEL-16 |
| SANDVIK | R166.0 FG 2525-16 | L166.0 FG 2525-16 | R166.0 KF25-16 | L166.0 KF25-16 |
| TOSHIBA TUNGALOY | SER 2525 M16 | SEL 2525 M16 | SNR 0025 R16 | SNL 0025 R16 |
| VARGUS | AL 25-3 | AL 25-3 LH | AVR 25D-3 | AVR 25D-3 LH |

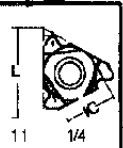
CARBIDE GRADES

THE WAY CARBIDE GRADES ARE DESCRIBED BY DIFFRENT COMPANIES
(THIS TABLE DOES NOT ATTEMPT TO COMPARE QUALITIES OF THE VARIOUS GRADES.
JUST THE TERMS BEING USED)

| ISO CODE | | CARMEX | SECO-SNAPTAP | KENNAMETAL | SANDVIK | TOSHIBA | VARGUS |
|--------------------|--------------|----------------|------------------|--------------------|------------------|-------------------|---------------|
| P 10 (C 7) | PLAIN COATED | P 10 | SIF | K 45 KC 740 | S 10 T | T X 10 S | V 10 V S X |
| P 15 (C 6) | PLAIN COATED | P 15 M 2 CT | | | | V 15 | V S X |
| P 30 (C 5) | PLAIN COATED | P 30 P 30 C | S 25 M C P 30 | K 420 KC 710 | S 30 T GC 225 | U X 30 T 313 V | V 30 V S X |
| K 10-K 20 (C 2) | PLAIN COATED | K 20 | H X | K 1 | H 1 P | T H 10 V M X | V K 2 |
| MICROGRAIN | PLAIN COATED | M X M X C | | | | | |
| CERMAT | | C 6 | | K T 175 K T 125 | | N 308 | V X 5 |

INSERTS ORDERING CODE

16 E R 12 UN P30



| | | |
|---|------|-------|
| L | 11 | 1/4 |
| L | 16 | 3/8 |
| L | 22 | 1/2 |
| L | 27 | 5/8 |
| L | 22 U | 1/2 U |
| L | 27 U | 5/8 U |

E = EXTERNAL
I = INTERNAL

R = RIGHT HAND
L = LEFT HAND

| PARTIAL PROFILES | | | |
|------------------|--------|-------------|------------|
| TYPE | L | PITCH RANGE | |
| | | (MM) | TPI |
| A | 11 | 0.5 - 1.5 | 48 - 16 |
| A | 16 | 0.5 - 1.5 | 48 - 16 |
| AG | | 0.5 - 3 | 48 - 8 |
| G | | 1.75 - 3 | 14 - 8 |
| N | 22 | 3.5 - 5 | 7 - 5 |
| U | 27 | 5.5 - 8 | 4.5 - 3.25 |
| Q | | 5.5 - 6 | 4.5 - 4 |
| U | | 6.5 - 9 | 4 - 2.75 |
| V | 6 - 10 | 4 - 2.5 | |

60 = 60° PROFILES
55 = 55° PROFILES

FULL PROFILES THREAD STANDARDS

ISO (METRIC)
UN (AMERICAN UN)
W (BSW BRITISH STD.)
NPT (AMERICAN PIPE THREAD)
BSPT (BRITISH PIPE THREAD)
ACME AND STUB ACME
TR (TRAPEZ TO DIN 103)
UNJ (AVIATION)
AM - BUT (AMERICAN BUTTRESS)
RND (ROUND TO DIN 405)
API (OIL THREADS)
API ROUND
API BUTTRESS CASING
VAM
EXTREME LINE CASING
H - 90

FULL PROFILES PITCH RANGE

| MM | TPI |
|-----------|--------|
| 0.35 - 12 | 72 - 2 |

MULTITOOTH STYLE & NO. OF TEETH
API SIZE & TAPER

CARBIDE GRADES

| PLAIN | COATED |
|------------|----------------|
| P 10 | |
| P 15 | P 25 C |
| P 30 | |
| K 20 | M 2 CT T 20 |
| MICROGRAIN | |
| M X | M X C |

TOOL HOLDERS ORDERING CODE

S E R 2020 K 16

CLAMPING METHOD

S = SCREW


E = EXTERNAL
I = INTERNAL

R = RIGHT HAND
L = LEFT HAND

CROSS SECTION

EXTERNAL TOOLHOLDERS

SQUARE SHANK:




METRIC:
2020 = 20 mm X 20 mm

INCH:
1500 = 1.5" X 1.5"

INTERNAL TOOLHOLDERS

ROUND SHANK:



METRIC:
0025 = DIAMETER 25 mm

INCH:
0750 = DIAMETER 0.75"

LENGTH OF TOOLHOLDER

| MM | INCH |
|---------|------|
| D = 60 | 2.5 |
| F = 80 | 3.25 |
| H = 100 | 4.0 |
| K = 125 | 5.0 |
| L = 140 | 5.5 |
| M = 150 | 6.0 |
| P = 170 | 7.0 |
| R = 200 | 8.0 |
| S = 250 | 10.0 |
| T = 300 | 12.0 |
| U = 350 | 14.0 |
| V = 400 | 16.0 |

POCKET SIZE

| L | IC |
|------|--------|
| (MM) | (INCH) |
| 11 | 1/4 |
| 16 | 3/8 |
| 22 | 1/2 |
| 27 | 5/8 |
| 22 U | 1/2 U |
| 27 U | 5/8 U |

B = BORE FOR COOLANT

C = CARBIDE SHANK

O = OFFSET STYLE

A = API (OIL)

E = ON EDGE (VERTICAL)

CARBIDE THREADING TOOL KITS

KIT INCLUDES:

- 3 - 1 each A-60°, AG-60°, G-60° Partial Profile Inserts, Grade P25C Coated, 3/8" I.C.
- 7 - 1 each 8, 12, 14, 16, 18, 20, 24, TPI Range, Full Profile Inserts, Grade P25C Coated, 3/8" I.C.
- 1 - Tool Holder, Screw, Wrench with Fitted Case.

| CATALOG # | DESCRIPTION | PRIC |
|-----------|---------------------|--------|
| KE000-79 | EXTERNAL-RIGHT HAND | 333.50 |
| KI000-79 | INTERNAL-RIGHT HAND | 333.50 |



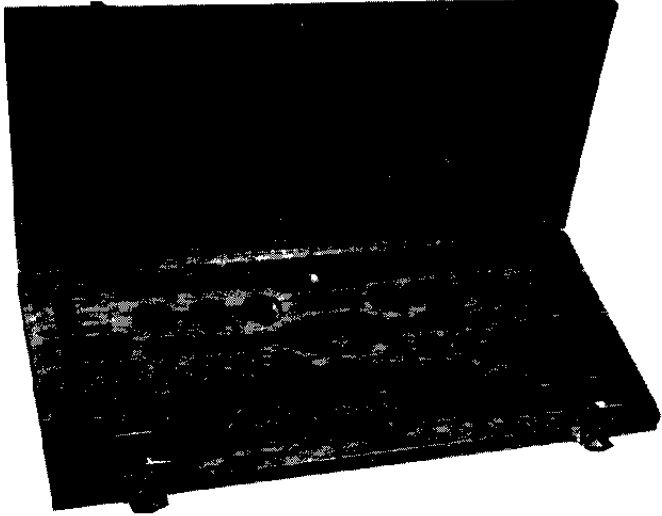


THE MOST FREQUENTLY REQUESTED TAP & DIE SETS

In An Attractive Convenient Wood Case

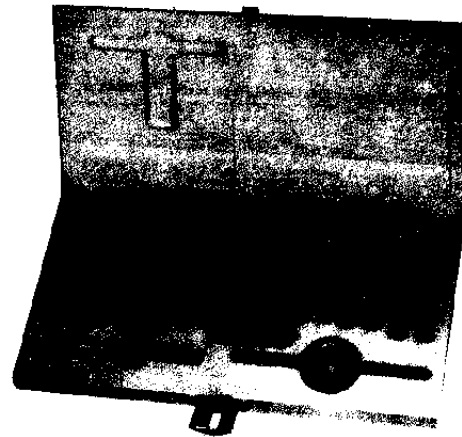
Unified, NC, NF
and Now **METRIC!**

HIGH SPEED STEEL 49 PIECE TAP AND DIE SET HSS



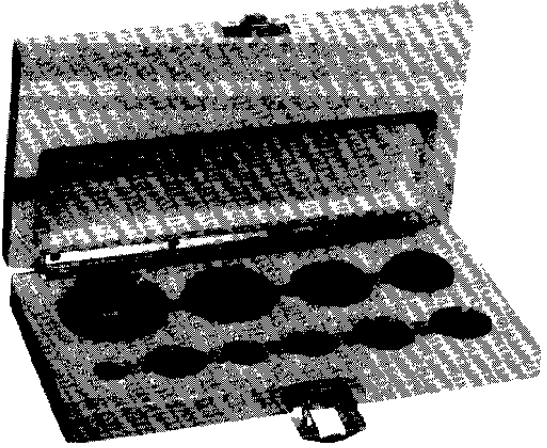
| DESCRIPTION | EDP NO. | PRICE |
|--|---------|--------|
| UNIFIED HSS TAP & DIE SET WITH HANDLES & CASE Set contains: 6-32, 6-40, 8-32, 8-36, 10-24, 10-32, 12-24, 12-28, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 5/8-11, 5/8-18, 3/4-10, 3/4-16, Plug Taps, Round Adjustable Dies, #0+#6 Tap Wrenches, 1"+1 1/2" Die Stocks, 52 Blade Screw Pitch Gage. | 06001 | 673.40 |
| METRIC HSS TAP & DIE SET WITH HANDLES & CASE Set contains: M1.6x0.35, M2x0.4, M2.5x0.45, M3x0.5, M3.5x0.6, M4x0.7, M4.5x0.75, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.5, M11x1.5, M12x1.5, M12x1.75, M14x1.5, M14x2.0, M16x1.5, M16x2.0, M18x2.5, Plug Taps, Round Adjustable Dies, #0+#6 Tap Wrenches, 1"+1 1/2" Die Stocks, 24 Blade Screw Pitch Gage. | 06003 | 787.10 |

Unified, NC, NF and Now **METRIC!** 23 PIECE TAP & DIE SETS - HSS



| DESCRIPTION | EDP NO. | PRICE |
|--|---------|--------|
| UNIFIED TAP & DIE SET WITH HANDLES & CASE Set contains: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, Plug Taps, 1"OD Round Adjustable Dies, 1/2" T Handle Tap Wrench, 1"OD Die Stocks, 52 Blade Screw Pitch Gage | 06000 | 275.60 |
| METRIC HSS TAP & DIE SET WITH HANDLES & CASE Set contains: M2x0.4, M2.5x0.45, M3x0.5, M3.5x0.6, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75, Plug Taps, 1"OD Round Adjustable Dies, 1/2" T Handle Tap Wrench, 1"OD Die Stocks, 24 Blade Screw Pitch Gage. | 06002 | 291.50 |

NC, NF and **METRIC** Hex Rethreading Dies - Carbon Steel



10 PIECE HEX RETHREADING SET - CBN

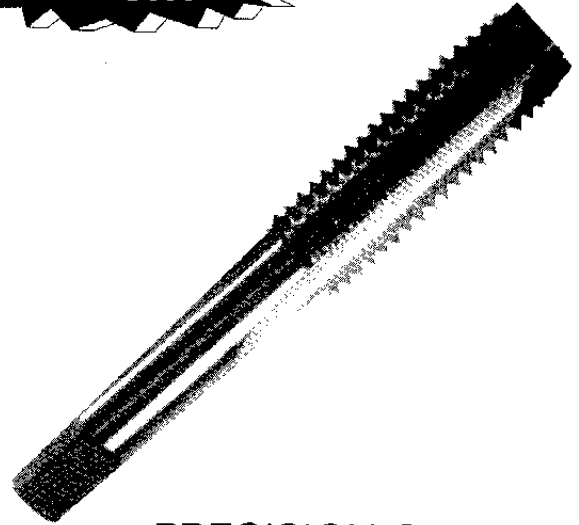
| DESCRIPTION | EDP # | PRICE |
|--|-------|--------|
| UNIFIED NC CBN HEX DIE SET WITH CASE Set contains 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, & 1" - 8 | 49000 | 158.60 |
| UNIFIED NF CBN HEX DIE SET WITH CASE Set contains 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, & 1" - 12 | 49001 | 158.60 |
| METRIC CBN HEX DIE SET WITH CASE Set contains M6x1.0, M8x1.25, M10x1.5, M12x1.75, M14x2.0, M16x2.0, M18x2.5, M20x2.5, M22x2.5, M24x3.0 | 49002 | 209.90 |

STANDARD MACHINE SCREW SIZES SPIRAL POINT PLUG

For sizes not listed see
Specials Catalog or
consult factory.

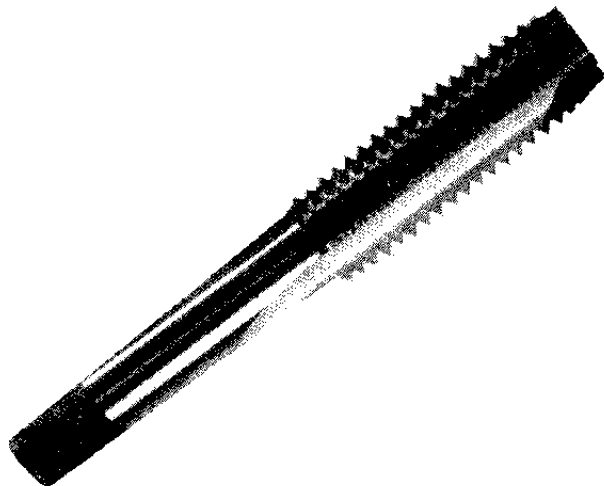
| SIZE | NC | NF | H LIMIT | FLUTES | EDP NUMBER | PRICE EACH |
|------|----|----|------------|--------|---------------|---------------|
| #0 | — | 80 | 1 | 2 | 02000 | 11.45 |
| #1 | 64 | — | 1 | 2 | 02001 | 10.30 |
| #1 | — | 72 | 1 | 2 | 02002 | 10.30 |
| #2 | 56 | — | 2 | 2 | 02003 | 8.70 |
| #2 | — | 64 | 2 | 2 | 02004 | 9.35 |
| #3 | 48 | — | 2 | 2 | 02005 | 7.05 |
| #3 | — | 56 | 2 | 2 | 02006 | 7.85 |
| #4 | 40 | — | 2 | 2 | 02007 | 5.25 |
| #4 | — | 48 | 2 | 2 | 02008 | 6.40 |
| #5 | 40 | — | 2 | 2 | 02009 | 5.45 |
| #5 | — | 44 | 2 | 2 | 02010 | 6.35 |
| #6 | 32 | — | 3 | 2 | 02011 | 4.65 |
| #6 | — | 40 | 2 | 2 | 02012 | 5.25 |
| #8 | 32 | — | 3 | 2 | 02013 | 4.65 |
| #8 | — | 36 | 2 | 2 | 02014 | 5.25 |
| #10 | 24 | — | 3 | 2 | 02015 | 4.65 |
| #10 | — | 32 | 3 | 2 | 02016 | 4.65 |
| #12 | 24 | — | 3 | 2 | 02017 | 5.25 |
| #12 | — | 28 | 3 | 2 | 02018 | 5.25 |

IMPORT



PRECISION GROUND
HSS

Manufactured to
standard #302 dimensions.



IMPORT

STANDARD FRACTIONAL TAPS SPIRAL POINT PLUG

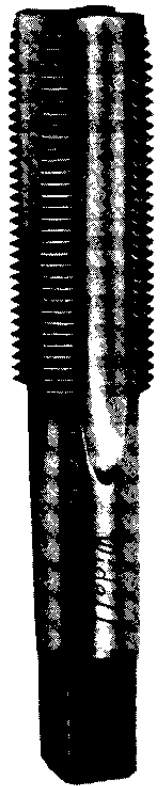
| SIZE | NC | NF | H LIMIT | FLUTES | EDP NUMBER | PRICE EACH |
|------|----|----|------------|--------|---------------|---------------|
| 1/4 | 20 | — | 3 | 3 | 02019 | 4.60 |
| 1/4 | — | 28 | 3 | 3 | 02020 | 4.60 |
| 1/4 | 20 | — | 3 | 2 | 02021 | 4.60 |
| 1/4 | — | 28 | 3 | 2 | 02022 | 4.60 |
| 5/16 | 18 | — | 3 | 3 | 02023 | 4.95 |
| 5/16 | — | 24 | 3 | 3 | 02024 | 4.95 |
| 5/16 | 18 | — | 3 | 2 | 02025 | 4.95 |
| 5/16 | — | 24 | 3 | 2 | 02026 | 4.95 |
| 3/8 | 16 | — | 3 | 3 | 02027 | 5.90 |
| 3/8 | — | 24 | 3 | 3 | 02028 | 6.40 |
| 7/16 | 14 | — | 3 | 3 | 02029 | 10.05 |
| 7/16 | — | 20 | 3 | 3 | 02030 | 10.05 |
| 1/2 | 13 | — | 3 | 3 | 02031 | 10.20 |
| 1/2 | — | 20 | 3 | 3 | 02032 | 12.05 |
| 9/16 | 12 | — | 3 | 3 | 02033 | 21.50 |
| 9/16 | — | 18 | 3 | 3 | 02034 | 21.50 |
| 5/8 | 11 | — | 3 | 3 | 02035 | 22.75 |
| 5/8 | — | 18 | 3 | 3 | 02036 | 22.75 |
| 3/4 | 10 | — | 3 | 3 | 02037 | 36.35 |
| 3/4 | — | 16 | 3 | 3 | 02038 | 36.35 |

STANDARD TAPS STRAIGHT FLUTES

Your first source



| SIZE | NC | NF | H LMT | FLTS | TAPER EDP# | PLUG EDP# | BOTTOM EDP# | PRICE EACH | SET EDP# | PRICE SET |
|-------|----|----|----------|------|---------------|--------------|----------------|---------------|-------------|--------------|
| #0 | — | 80 | 1 | 2 | 01000 | 01001 | 01002 | 9.25 | 01003 | 27.75 |
| #1 | 64 | — | 1 | 2 | 01004 | 01005 | 01006 | 8.65 | 01007 | 25.95 |
| #1 | — | 72 | 1 | 2 | 01008 | 01009 | 01010 | 8.65 | 01011 | 25.95 |
| #2 | 56 | — | 2 | 3 | 01012 | 01013 | 01014 | 7.40 | 01015 | 22.20 |
| #2 | — | 64 | 2 | 3 | 01016 | 01017 | 01018 | 8.00 | 01019 | 24.00 |
| #3 | 48 | — | 2 | 3 | 01020 | 01021 | 01022 | 5.55 | 01023 | 16.65 |
| #3 | — | 56 | 2 | 3 | 01024 | 01025 | 01026 | 6.30 | 01027 | 18.90 |
| #4 | 40 | — | 2 | 3 | 01028 | 01029 | 01030 | 4.50 | 01031 | 13.50 |
| #4 | — | 48 | 2 | 3 | 01032 | 01033 | 01034 | 4.95 | 01035 | 14.85 |
| #5 | 40 | — | 2 | 3 | 01036 | 01037 | 01038 | 4.50 | 01039 | 13.50 |
| #5 | — | 44 | 2 | 3 | 01040 | 01041 | 01042 | 4.95 | 01043 | 14.85 |
| #6 | 32 | — | 3 | 3 | 01044 | 01045 | 01046 | 3.45 | 01047 | 10.35 |
| #6 | — | 40 | 2 | 3 | 01048 | 01049 | 01050 | 3.75 | 01051 | 11.25 |
| #8 | 32 | — | 3 | 4 | 01052 | 01053 | 01054 | 3.60 | 01055 | 10.80 |
| #8 | — | 36 | 2 | 4 | 01056 | 01057 | 01058 | 3.75 | 01059 | 11.25 |
| #10 | 24 | — | 3 | 4 | 01060 | 01061 | 01062 | 3.75 | 01063 | 11.25 |
| #10 | — | 32 | 3 | 4 | 01064 | 01065 | 01066 | 3.75 | 01067 | 11.25 |
| #12 | 24 | — | 3 | 4 | 01068 | 01069 | 01070 | 3.95 | 01071 | 11.85 |
| #12 | — | 28 | 3 | 4 | 01072 | 01073 | 01074 | 4.40 | 01075 | 13.20 |
| 1/4 | 20 | — | 3 | 4 | 01076 | 01077 | 01078 | 4.10 | 01079 | 12.30 |
| 1/4 | — | 28 | 3 | 4 | 01080 | 01081 | 01082 | 4.10 | 01083 | 12.30 |
| 5/16 | 18 | — | 3 | 4 | 01084 | 01085 | 01086 | 4.95 | 01087 | 14.85 |
| 5/16 | — | 24 | 3 | 4 | 01088 | 01089 | 01090 | 4.95 | 01091 | 14.85 |
| 3/8 | 16 | — | 3 | 4 | 01092 | 01093 | 01094 | 5.55 | 01095 | 16.65 |
| 3/8 | — | 24 | 3 | 4 | 01096 | 01097 | 01098 | 5.55 | 01099 | 16.65 |
| 7/16 | 14 | — | 3 | 4 | 01100 | 01101 | 01102 | 9.45 | 01103 | 28.35 |
| 7/16 | — | 20 | 3 | 4 | 01104 | 01105 | 01106 | 9.45 | 01107 | 28.35 |
| 1/2 | 13 | — | 3 | 4 | 01108 | 01109 | 01110 | 9.95 | 01111 | 29.85 |
| 1/2 | — | 20 | 3 | 4 | 01112 | 01113 | 01114 | 11.20 | 01115 | 33.60 |
| 9/16 | 12 | — | 3 | 4 | 01116 | 01117 | 01118 | 16.50 | 01119 | 49.50 |
| 9/16 | — | 18 | 3 | 4 | 01120 | 01121 | 01122 | 16.50 | 01123 | 49.50 |
| 5/8 | 11 | — | 3 | 4 | 01124 | 01125 | 01126 | 20.00 | 01127 | 60.00 |
| 5/8 | — | 18 | 3 | 4 | 01128 | 01129 | 01130 | 20.00 | 01131 | 60.00 |
| 11/16 | 11 | — | 3 | 4 | 01132 | 01133 | 01134 | 26.45 | 01135 | 79.35 |
| 11/16 | — | 16 | 3 | 4 | 01136 | 01137 | 01138 | 26.45 | 01139 | 79.35 |
| 3/4 | 10 | — | 3 | 4 | 01140 | 01141 | 01142 | 27.80 | 01143 | 83.40 |
| 3/4 | — | 16 | 3 | 4 | 01144 | 01145 | 01146 | 27.80 | 01147 | 83.40 |
| 7/8 | -9 | — | 4 | 4 | 01148 | 01149 | 01150 | 38.80 | 01151 | 116.40 |
| 7/8 | — | 14 | 4 | 4 | 01152 | 01153 | 01154 | 38.80 | 01155 | 116.40 |
| 1 | -8 | — | 4 | 4 | 01156 | 01157 | 01158 | 51.55 | 01159 | 154.65 |
| 1 | — | 12 | 4 | 4 | 01160 | 01161 | 01162 | 53.25 | 01163 | 159.75 |
| 1 | — | 14 | 4 | 4 | 01164 | 01165 | 01166 | 53.25 | 01167 | 159.75 |
| 1 1/8 | -7 | — | 4 | 4 | 01168 | 01169 | 01170 | 85.15 | 01171 | 255.45 |
| 1 1/8 | — | 12 | 4 | 4 | 01172 | 01173 | 01174 | 90.20 | 01175 | 270.60 |
| 1 1/4 | -7 | — | 4 | 4 | 01176 | 01177 | 01178 | 111.90 | 01179 | 335.70 |
| 1 1/4 | — | 12 | 4 | 6 | 01180 | 01181 | 01182 | 114.10 | 01183 | 342.30 |
| 1 3/8 | -6 | — | 4 | 4 | 01184 | 01185 | 01186 | 128.00 | 01187 | 384.00 |
| 1 3/8 | — | 12 | 4 | 6 | 01188 | 01189 | 01190 | 130.40 | 01191 | 391.20 |
| 1 1/2 | -6 | — | 4 | 4 | 01192 | 01193 | 01194 | 154.30 | 01195 | 462.90 |
| 1 1/2 | — | 12 | 4 | 6 | 01196 | 01197 | 01198 | 157.70 | 01199 | 473.10 |



STANDARD METRIC HAND TAPS — HSS

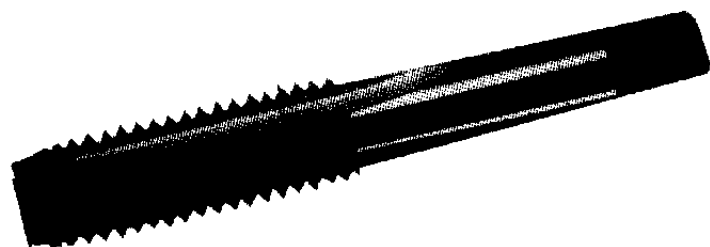
STRAIGHT FLUTES
MANUFACTURED TO STANDARDS
TABLE #302 DIMENSIONS



| SIZE | NUMBER OF FLUTES | PITCH DIAM LIMITS | EDP NUMBERS | | | PRICE EACH | EDP NO. SET | PRICE SET |
|-------------|------------------|-------------------|-------------|-------|--------|------------|-------------|-----------|
| | | | TAPER | PLUG | BOTTOM | | | |
| M1.6 X 0.35 | 2FL | D3 | 03000 | 03001 | 03002 | 11.55 | 03003 | 34.65 |
| M2 X 0.40 | 3FL | D3 | 03004 | 03005 | 03006 | 11.55 | 03007 | 36.65 |
| M2.5 X 0.45 | 3FL | D3 | 03008 | 03009 | 03010 | 7.20 | 03011 | 21.60 |
| M3 X 0.50 | 3FL | D3 | 03012 | 03013 | 03014 | 7.80 | 03015 | 23.40 |
| M3.5 X 0.60 | 3FL | D4 | 03016 | 03017 | 03018 | 6.95 | 03019 | 20.85 |
| M4 X 0.70 | 4FL | D4 | 03020 | 03021 | 03022 | 6.80 | 03023 | 20.40 |
| M4.5 X 0.75 | 4FL | D4 | 03024 | 03025 | 03026 | 6.80 | 03027 | 20.40 |
| M5 X 0.80 | 4FL | D4 | 03028 | 03029 | 03030 | 6.80 | 03031 | 20.40 |
| M6 X 1.00 | 4FL | D5 | 03033 | 03032 | 03034 | 6.80 | 03035 | 20.40 |
| M7 X 1.00 | 4FL | D5 | 03036 | 03037 | 03038 | 8.00 | 03039 | 24.00 |
| M8 X 1.25 | 4FL | D5 | 03040 | 03041 | 03042 | 8.00 | 03043 | 24.00 |
| M10 X 1.50 | 4FL | D6 | 03044 | 03045 | 03046 | 13.05 | 03047 | 39.15 |
| M12 X 1.75 | 4FL | D6 | 03048 | 03049 | 03050 | 15.95 | 03051 | 47.85 |
| M14 X 2.00 | 4FL | D7 | 03052 | 03053 | 03054 | 21.50 | 03055 | 64.50 |
| M16 X 2.00 | 4FL | D7 | 03056 | 03057 | 03058 | 24.60 | 03059 | 73.80 |
| M18 X 2.50 | 4FL | D7 | 03060 | 03061 | 03062 | 33.30 | 03063 | 99.90 |
| M20 X 2.50 | 4FL | D7 | 03064 | 03065 | 03066 | 36.20 | 03067 | 108.60 |
| M24 X 3.00 | 4FL | D8 | 03068 | 03069 | 03070 | 63.70 | 03071 | 191.10 |
| M30 X 3.50 | 4FL | D9 | 03072 | 03073 | 03074 | 115.80 | 03075 | 347.40 |
| M36 X 4.00 | 4FL | D9 | 03076 | 03077 | 03078 | 159.20 | 03079 | 477.60 |

METRIC SPIRAL POINT PLUG TAPS HSS

PRECISION
GROUND



| SIZE | NUMBER OF FLUTES | PITCH DIAM. LIMIT | EDP NUMBER | PRICE EACH |
|-------------|------------------|-------------------|------------|------------|
| M1.6 X 0.35 | 2 | D3 | 04000 | 14.75 |
| M2 X 0.40 | 2 | D3 | 04001 | 14.75 |
| M2.5 X 0.45 | 2 | D3 | 04002 | 9.85 |
| M3 X 0.50 | 2 | D3 | 04003 | 8.70 |
| M3.5 X 0.60 | 2 | D4 | 04004 | 8.70 |
| M4 X 0.70 | 2 | D4 | 04005 | 8.70 |
| M4.5 X 0.75 | 2 | D4 | 04006 | 8.70 |
| M5 X 0.80 | 2 | D4 | 04007 | 8.70 |
| M6 X 1.00 | 2 | D5 | 04008 | 8.70 |
| M7 X 1.00 | 2 | D5 | 04009 | 11.55 |
| M8 X 1.25 | 2 | D5 | 04010 | 11.55 |
| M10 X 1.50 | 3 | D6 | 04011 | 15.90 |
| M12 X 1.75 | 3 | D6 | 04012 | 20.95 |
| M14 X 2.00 | 3 | D7 | 04013 | 23.15 |
| M16 X 2.00 | 3 | D7 | 04014 | 27.50 |
| M18 X 2.50 | 3 | D7 | 04015 | 40.55 |
| M20 X 2.50 | 4 | D7 | 04016 | 52.10 |

STRAIGHT FLUTES HSS

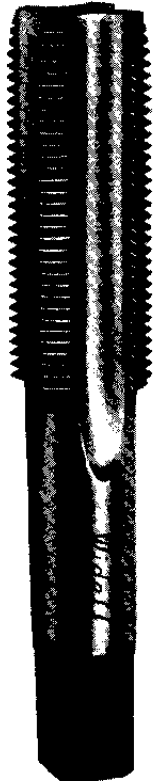


STANDARD TAPS +.005 Oversize

| SIZE | SPECIFICATIONS | | | PLUG | | SPIRAL PT | |
|------|----------------|----|--------|-------|-------|-----------|-------|
| | NC | NF | FLUTES | EDP# | PRICE | EDP# | PRICE |
| #6 | 32 | — | 3 | 11000 | 6.32 | 11001 | 7.83 |
| #8 | 32 | — | 4 | 11002 | 6.56 | 11003 | 7.83 |
| #10 | 24 | — | 4 | 11004 | 6.72 | 11005 | 8.00 |
| #10 | — | 32 | 4 | 11006 | 6.72 | 11007 | 8.00 |
| 1/4 | 20 | — | 4 | 11008 | 6.56 | 11009 | 8.00 |
| 1/4 | — | 28 | 4 | 11010 | 6.56 | 11011 | 8.00 |
| 5/16 | 18 | — | 4 | 11012 | 7.83 | 11013 | 8.72 |
| 5/16 | — | 24 | 4 | 11014 | 7.83 | 11015 | 8.72 |
| 3/8 | 16 | — | 4 | 11016 | 9.06 | 11017 | 10.39 |
| 3/8 | — | 24 | 4 | 11018 | 9.06 | 11019 | 10.39 |
| 1/2 | 13 | — | 4 | 11020 | 15.96 | 11021 | 17.66 |
| 1/2 | — | 20 | 4 | 11022 | 15.96 | 11023 | 17.66 |
| 5/8 | 11 | — | 4 | 11024 | 30.79 | 11025 | 36.67 |
| 3/4 | 10 | — | 4 | 11026 | 42.68 | 11027 | 51.78 |

MANUFACTURED TO STANDARD
TABLE #302 DIMENSIONS

STANDARD TAPS LEFT HAND - PLUG HSS



| SIZE | SPECIFICATIONS | | | FLUTES | H TOL | EDP NUMBER | PRICE EACH |
|------|----------------|----|----|--------|----------|---------------|---------------|
| | NC | NF | NS | | | | |
| #6 | 32 | — | — | 3 | H3 | 09000 | 6.50 |
| #8 | 32 | — | — | 4 | H3 | 09001 | 6.78 |
| #10 | 24 | — | — | 4 | H3 | 09002 | 6.90 |
| #10 | — | 32 | — | 4 | H3 | 09003 | 6.90 |
| 1/4 | 20 | — | — | 4 | H3 | 09004 | 6.78 |
| 1/4 | — | 28 | — | 4 | H3 | 09005 | 6.78 |
| 5/16 | 18 | — | — | 4 | H3 | 09006 | 8.05 |
| 5/16 | — | 24 | — | 4 | H3 | 09007 | 8.05 |
| 3/8 | 16 | — | — | 4 | H3 | 09008 | 9.28 |
| 3/8 | — | 24 | — | 4 | H3 | 09009 | 9.28 |
| 7/16 | 14 | — | — | 4 | H3 | 09010 | 15.85 |
| 7/16 | — | 20 | — | 4 | H3 | 09011 | 15.85 |
| 1/2 | 13 | — | — | 4 | H3 | 09012 | 16.06 |
| 1/2 | — | 20 | — | 4 | H3 | 09013 | 16.06 |
| 9/16 | 12 | — | — | 4 | H3 | 09014 | 24.10 |
| 9/16 | — | 18 | — | 4 | H3 | 09015 | 24.10 |
| 5/8 | 11 | — | — | 4 | H3 | 09016 | 29.10 |
| 5/8 | — | 18 | — | 4 | H3 | 09017 | 29.10 |
| 3/4 | 10 | — | — | 4 | H3 | 09018 | 40.41 |
| 3/4 | — | 16 | — | 4 | H3 | 09019 | 40.41 |
| 7/8 | 9 | — | — | 4 | H4 | 09020 | 56.00 |
| 7/8 | — | 14 | — | 4 | H3 | 09021 | 56.00 |
| 1 | 8 | — | — | 4 | H4 | 09022 | 74.54 |
| 1 | — | 12 | — | 4 | H4 | 09023 | 74.54 |
| 1 | — | — | 14 | 4 | H4 | 09024 | 74.54 |

WIDELL INTERNATIONAL NOW OFFERS PULLEY TAPS

PLUG STYLE PULLEY TAPS

NC and NF 6" OAL H3 LIMITS
RIGHT HAND - HIGH SPEED

| SIZE | FLUTES | EDP NO. | PRICE EACH |
|---------|--------|---------|------------|
| #6-32 | 3 | 08000 | 25.70 |
| #8-32 | 4 | 08001 | 25.70 |
| #10-24 | 4 | 08002 | 25.70 |
| #10-32 | 4 | 08003 | 25.70 |
| 1/4-20 | 4 | 08004 | 25.70 |
| 1/4-28 | 4 | 08005 | 25.70 |
| 5/16-18 | 4 | 08006 | 26.75 |
| 5/16-24 | 4 | 08007 | 26.75 |
| 3/8-16 | 4 | 08008 | 30.05 |
| 3/8-24 | 4 | 08009 | 30.05 |
| 7/16-14 | 4 | 08010 | 36.30 |
| 7/16-20 | 4 | 08011 | 36.30 |
| 1/2-13 | 4 | 08012 | 45.10 |
| 1/2-20 | 4 | 08013 | 45.10 |
| 5/8-11 | 4 | 08014 | 51.40 |
| 5/8-18 | 4 | 08015 | 51.40 |
| 3/4-10 | 4 | 08016 | 81.45 |
| 3/4-16 | 4 | 08017 | 81.45 |

NC, and NF Series Pulley Taps 6"
OAL - H3 Limits
Right Hand - High Speed

SPIRAL-POINT PULLEY TAPS

NC and NF 6" OAL - H3 LIMIT
RIGHT HAND - HIGH SPEED

| SIZE | FLUTES | EDP NO. | PRICE EACH |
|---------|--------|---------|------------|
| 1/4-20 | 2 | 08018 | 29.55 |
| 1/4-28 | 2 | 08019 | 29.55 |
| 5/16-18 | 2 | 08020 | 30.80 |
| 5/16-24 | 2 | 08021 | 30.80 |
| 3/8-16 | 3 | 08022 | 34.50 |
| 3/8-24 | 3 | 08023 | 34.50 |
| 7/16-14 | 3 | 08024 | 39.95 |
| 7/16-20 | 3 | 08025 | 39.95 |
| 1/2-13 | 3 | 08026 | 49.60 |
| 1/2-20 | 3 | 08027 | 49.60 |

IMPORT

NUT TAPS

STANDARD NC & NF - HSS
H-3 Limits

| SIZE | NO. OF FLUTES | OAL | EDP NUMBER | PRICE EACH |
|---------|---------------|--------|------------|------------|
| 1/4-20 | 4 | 5" | 08028 | 26.45 |
| 1/4-28 | 4 | 5" | 08029 | 26.45 |
| 5/16-18 | 4 | 5 1/2" | 08030 | 34.15 |
| 5/16-24 | 4 | 5 1/2" | 08031 | 34.15 |
| 3/8-16 | 4 | 6" | 08032 | 42.90 |
| 3/8-24 | 4 | 6" | 08033 | 42.90 |
| 7/16-14 | 4 | 6 1/2" | 08034 | 51.50 |
| 7/16-20 | 4 | 6 1/2" | 08035 | 51.50 |
| 1/2-13 | 4 | 7" | 08036 | 57.65 |
| 1/2-20 | 4 | 7" | 08037 | 57.65 |

PRECISION GROUND
HIGH SPEED STEEL

HSS NPT, NPS PIPE TAPS

Through Widell Industries International Division



STANDARD NPT, NPS PIPE TAPS, HSS

| SIZE | FLUTES | NPT EDP NO. | NPS EDP NO. | PRICE EACH |
|--------------|--------|----------------|----------------|---------------|
| 1/16-27 | 4 | 05000 | 05001 | 14.00 |
| 1/8-27 | 4 | 05002 | 05003 | 14.00 |
| 1/8-27* | 4 | 05004 | | 14.00 |
| 1/4-18 | 4 | 05005 | 05006 | 15.35 |
| 3/8-18 | 4 | 05007 | 05008 | 19.95 |
| 1/2-14 | 4 | 05009 | 05010 | 31.95 |
| 3/4-14 | 5 | 05011 | 05012 | 44.60 |
| 1 -11 1/2 | 5 | 05013 | 05014 | 67.55 |
| 1 1/4-11 1/2 | 5 | 05015 | 05016 | 127.30 |
| 1 1/2-11 1/2 | 7 | 05017 | 05018 | 163.60 |
| 2-11 1/2 | 7 | 05019 | 05020 | 213.80 |

* Small Shank



INTERRUPTED -NPT ONLY HSS TAPS

| SIZE | FLUTES | EDP NO. | PRICE EA. |
|--------------|--------|---------|-----------|
| 1/16-27 | 5 | 05021 | 20.60 |
| 1/8-27 | 5 | 05022 | 20.60 |
| 1/8-27* | 5 | 05023 | 20.60 |
| 1/4-18 | 5 | 05024 | 22.65 |
| 3/8-18 | 5 | 05025 | 29.80 |
| 1/2-14 | 5 | 05026 | 47.50 |
| 3/4-14 | 5 | 05027 | 66.55 |
| 1 -11 1/2 | 5 | 05028 | 101.00 |
| 1 1/4-11 1/2 | 5 | 05029 | 154.00 |
| 1 1/2-11 1/2 | 7 | 05030 | 198.00 |
| 2-11 1/2 | 7 | 05031 | 262.60 |

* Small Shank

**OVERNIGHT
DELIVERY**



EXTENSION TAPER PIPE TAPS 6" OAL - NPT

| SIZE | No. OF FLUTES | EDP NUMBER | PRICE EACH |
|-----------|------------------|---------------|---------------|
| 1/16-27 | 4 | 51000 | 25.70 |
| 1/8-27 | 4 | 51001 | 40.75 |
| 1/4-18 | 4 | 51002 | 46.15 |
| 3/8-18 | 4 | 51003 | 59.10 |
| 1/2-14 | 4 | 51004 | 95.15 |
| 3/4-14 | 5 | 51005 | 99.00 |
| 1 -11 1/2 | 5 | 51006 | 133.00 |



STRAIGHT FLUTE REAMER

| PIPE SIZE | EDP NO. | PRICE |
|-----------|---------|--------|
| 1/16 | 10000 | 17.60 |
| 1/8 | 10001 | 17.60 |
| 1/4 | 10002 | 20.25 |
| 3/8 | 10003 | 23.00 |
| 1/2 | 10004 | 30.60 |
| 3/4 | 10005 | 48.50 |
| 1 | 10006 | 74.20 |
| 1 1/4 | 10007 | 190.85 |
| 1 1/2 | 10008 | 252.85 |
| 2 | 10009 | 383.00 |
| 2 1/2 | 10010 | 609.75 |
| 3 | 10011 | 725.70 |



SPIRAL FLUTE REAMER

| PIPE SIZE | EDP NUMBER | PRICE EACH |
|--------------|---------------|---------------|
| 1/16 | 10012 | 32.45 |
| 1/8 | 10013 | 19.35 |
| 1/4 | 10014 | 22.20 |
| 3/8 | 10015 | 25.30 |
| 1/2 | 10016 | 33.65 |
| 3/4 | 10017 | 57.75 |
| 1 | 10018 | 81.70 |
| 1 1/4 | 10019 | 247.20 |
| 1 1/2 | 10020 | 317.25 |
| 2 | 10021 | 417.55 |
| 2 1/2 | 10022 | 644.00 |
| 3 | 10023 | 787.00 |

HSS NPT TAPER PIPE REAMERS

HSS TAPS FOR TAPPING STAINLESS STEEL

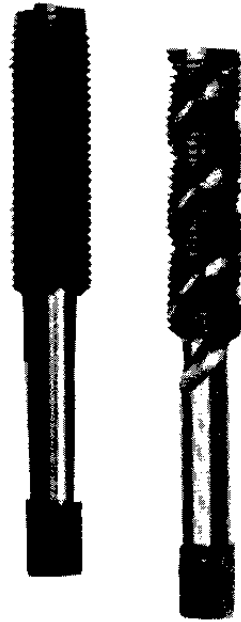
M3 Type 2 High Speed Steel Nitride Coated for Tapping
Thru or Blind Holes in Stainless and High Alloyed Steel

Discontinued - Available while supplies last.

SPIRAL POINT TAPS FOR THRU-HOLE

| SIZE | H LIMITS | FLUTES | EDP NUMBER | PRICE EACH |
|---------|----------|---------------------|------------|------------|
| #4-40 | H2 | 2 | 12000 | 13.20 |
| #4-48 | H2 | 2 | 12001 | 17.60 |
| #5-40 | H2 | 2 | 12002 | 13.20 |
| #5-44 | H2 | 2 | 12003 | 17.60 |
| #6-32 | H3 | 2 | 12004 | 13.20 |
| #6-40 | H3 | 2 | 12005 | 13.80 |
| #8-32 | H3 | 2 | 12006 | 13.20 |
| #8-36 | H3 | 2 | 12007 | 17.60 |
| #10-24 | H3 | 3 | 12008 | 13.20 |
| #10-32 | H3 | 3 | 12009 | 13.20 |
| #12-24 | H3 | 3 | 12010 | 13.20 |
| #12-28 | H3 | 3 | 12011 | 17.60 |
| 1/4-20 | H3 | 3 | 12012 | 13.50 |
| 1/4-28 | H3 | 3 | 12013 | 13.50 |
| 5/16-18 | H3 | SOLD OUT | 12014 | 18.20 |
| 5/16-24 | H3 | 3 | 12015 | 19.70 |
| 3/8-16 | H3 | 3 | 12016 | 22.80 |
| 3/8-24 | H3 | 3 | 12017 | 23.40 |
| 7/16-14 | H3 | 3 | 12018 | 24.10 |
| 7/16-20 | H3 | 3 | 12019 | 24.10 |
| 1/2-13 | H3 | 3 | 12020 | 24.90 |
| 1/2-20 | H3 | 3 | 12021 | 25.50 |
| 5/8-11 | H3 | SOLD OUT | | 32.20 |

15°
RAKE ANGLE



SPIRAL FLUTE TAPS FOR BLIND HOLES 45° SPIRAL-BOTTOM

| SIZE | H LIMITS | FLUTES | EDP NUMBER | PRICE EACH |
|---------|----------|---------------------|------------|------------|
| #4-40 | H2 | 2 | 12023 | 15.30 |
| #4-48 | H2 | 2 | 12024 | 20.30 |
| #5-40 | H2 | SOLD OUT | | 15.30 |
| #5-44 | H2 | 2 | 12026 | 20.30 |
| #6-32 | H3 | 3 | 12027 | 15.30 |
| #6-40 | H2 | 3 | 12028 | 15.50 |
| #8-32 | H3 | 3 | 12029 | 15.30 |
| #8-36 | H2 | 3 | 12030 | 20.30 |
| #10-24 | H3 | 3 | 12031 | 15.30 |
| #10-32 | H3 | 3 | 12032 | 15.30 |
| #12-24 | H3 | 3 | 12033 | 15.30 |
| #12-28 | H3 | 3 | 12034 | 20.30 |
| 1/4-20 | H3 | 3 | 12035 | 15.50 |
| 1/4-28 | H3 | 3 | 12036 | 15.50 |
| 5/16-18 | H3 | 3 | 12037 | 20.90 |
| 5/16-24 | H3 | 3 | 12038 | 22.60 |
| 3/8-16 | H3 | 3 | 12039 | 26.40 |
| 3/8-24 | H3 | 3 | 12040 | 27.00 |
| 7/16-14 | H3 | 3 | 12041 | 27.60 |
| 7/16-20 | H3 | 3 | 12042 | 27.60 |
| 1/2-13 | H3 | 3 | 12043 | 28.60 |
| 1/2-20 | H3 | 3 | 12044 | 29.30 |
| 5/8-11 | H3 | 3 | 12045 | 37.10 |

FORMING TAPS-PLUG

| SIZE | H LIMITS | EDP NUMBER | PRICE EACH |
|---------|---------------------|------------|------------|
| 4-40 | SOLD OUT | 13000 | 9.10 |
| 5-40 | 3 | 13001 | 9.10 |
| 6-32 | SOLD OUT | 13002 | 7.45 |
| 6-40 | 3 | 13003 | 7.45 |
| 8-32 | 3 | 13004 | 7.45 |
| 10-24 | 4 | 13005 | 7.45 |
| 10-32 | 4 | 13006 | 7.45 |
| 12-24 | 4 | 13007 | 7.85 |
| 1/4-20 | 4 | 13008 | 7.60 |
| 1/4-28 | 4 | 13009 | 7.60 |
| 5/16-18 | 5 | 13010 | 8.75 |
| 5/16-24 | 5 | 13012 | 8.75 |
| 3/8-16 | 5 | 13011 | 9.90 |
| 3/8-24 | 5 | 13013 | 9.90 |

FORMING TAPS



FORM TAPS-BOTTOM

| SIZE | H LIMITS | EDP NUMBER | PRICE EACH |
|---------|---------------------|------------|------------|
| 4-40 | SOLD OUT | | 9.10 |
| 5-40 | 3 | 13015 | 9.10 |
| 6-32 | 3 | 13016 | 7.45 |
| 6-40 | 3 | 13017 | 7.45 |
| 8-32 | 3 | 13018 | 7.45 |
| 10-24 | 4 | 13019 | 7.45 |
| 10-32 | 4 | 13020 | 7.45 |
| 12-24 | 4 | 13021 | 7.85 |
| 1/4-20 | 4 | 13022 | 7.60 |
| 1/4-28 | 4 | 13023 | 7.60 |
| 5/16-18 | 5 | 13024 | 8.75 |
| 5/16-24 | 5 | 13026 | 8.75 |
| 3/8-16 | 5 | 13025 | 9.90 |
| 3/8-24 | 5 | 13027 | 9.90 |



STANDARD HSS ROUND ADJUSTABLE DIES

Right Hand

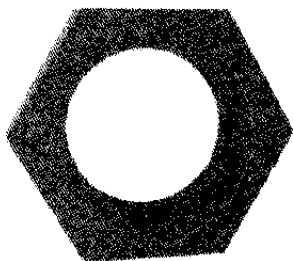


| SIZE | TPI | | | 13/16" OD | | 1" OD | | 1 1/2" OD | | 2" OD | | 2 1/2" OD | |
|-------|-----|----|----|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-------|
| | NC | NF | NS | EDP# | PRICE | EDP# | PRICE | EDP# | PRICE | EDP# | PRICE | EDP# | PRICE |
| #0 | | 80 | | 14000 | 10.80 | | | | | | | | |
| #1 | 64 | | | 14001 | 10.80 | | | | | | | | |
| #1 | | 72 | | 14002 | 10.80 | | | | | | | | |
| #2 | 56 | | | 14003 | 10.80 | | | | | | | | |
| #2 | | 64 | | 14004 | 10.80 | | | | | | | | |
| #3 | 48 | | | 14005 | 10.80 | | | | | | | | |
| #3 | | 56 | | 14006 | 10.80 | | | | | | | | |
| #4 | 40 | | | 14007 | 10.80 | | | | | | | | |
| #4 | | 48 | | 14008 | 10.80 | | | | | | | | |
| #5 | 40 | | | 14009 | 10.80 | | | | | | | | |
| #5 | | 44 | | 14010 | 10.80 | | | | | | | | |
| #6 | 32 | | | 14011 | 10.80 | 14012 | 12.20 | | | | | | |
| #6 | | 40 | | 14013 | 10.80 | 14014 | 12.20 | | | | | | |
| #8 | 32 | | | 14015 | 10.80 | 14016 | 12.20 | | | | | | |
| #8 | | 36 | | 14017 | 10.80 | 14018 | 12.20 | | | | | | |
| #10 | 24 | | | 14019 | 10.80 | 14020 | 12.20 | | | | | | |
| #10 | | 32 | | 14021 | 10.80 | 14022 | 12.20 | | | | | | |
| #12 | 24 | | | 14023 | 10.80 | 14024 | 12.20 | | | | | | |
| #12 | | 28 | | 14025 | 10.80 | 14026 | 12.20 | | | | | | |
| 1/4 | 20 | | | 14027 | 10.80 | 14028 | 12.20 | 14029 | 18.10 | 14030 | 31.30 | | |
| 1/4 | | 28 | | 14031 | 10.80 | 14032 | 12.20 | 14033 | 18.10 | 14034 | 31.30 | | |
| 5/16 | 18 | | | 14035 | 10.80 | 14036 | 12.20 | 14037 | 18.10 | 14038 | 31.30 | | |
| 5/16 | | 24 | | 14039 | 10.80 | 14040 | 12.20 | 14041 | 18.10 | 14042 | 31.30 | | |
| 3/8 | 16 | | | | | 14043 | 12.20 | 14044 | 18.10 | 14045 | 31.30 | | |
| 3/8 | | 24 | | | | 14046 | 12.20 | 14047 | 18.10 | 14048 | 31.30 | | |
| 7/16 | 14 | | | | | 14049 | 12.20 | 14050 | 18.10 | 14051 | 31.30 | | |
| 7/16 | | 20 | | | | 14052 | 12.20 | 14053 | 18.10 | 14054 | 31.30 | | |
| 1/2 | 13 | | | | | 14055 | 12.20 | 14056 | 18.10 | 14057 | 31.30 | | |
| 1/2 | | 20 | | | | 14058 | 12.20 | 14059 | 18.10 | 14060 | 31.30 | | |
| 9/16 | 12 | | | | | | | 14061 | 18.10 | 14062 | 31.30 | | |
| 9/16 | | 18 | | | | | | 14063 | 18.10 | 14064 | 31.30 | | |
| 5/8 | 11 | | | | | | | 14065 | 18.10 | 14066 | 31.30 | | |
| 5/8 | | 18 | | | | | | 14067 | 18.10 | 14068 | 31.30 | | |
| 11/16 | 11 | | | | | | | 14069 | 18.10 | 14070 | 31.30 | | |
| 11/16 | | 16 | | | | | | 14071 | 18.10 | 14072 | 31.30 | | |
| 3/4 | 10 | | | | | | | 14073 | 18.10 | 14074 | 31.30 | | |
| 3/4 | | 16 | | | | | | 14075 | 18.10 | 14076 | 31.30 | | |
| 7/8 | 9 | | | | | | | | | 14077 | 31.30 | | |
| 7/8 | | 14 | | | | | | | | 14078 | 31.30 | | |
| 1 | 8 | | | | | | | | | 14079 | 31.30 | | |
| 1 | | 12 | | | | | | | | 14080 | 31.30 | | |
| 1 | | | 14 | | | | | | | 14081 | 31.30 | | |
| 1 1/8 | 7 | | | | | | | | | | | 14082 | 58.20 |
| 1 1/8 | | 12 | | | | | | | | | | 14083 | 58.20 |
| 1 1/4 | 7 | | | | | | | | | | | 14084 | 58.20 |
| 1 1/4 | | 12 | | | | | | | | | | 14085 | 58.20 |
| 1 3/8 | 6 | | | | | | | | | | | 14086 | 58.20 |
| 1 3/8 | | 12 | | | | | | | | | | 14087 | 58.20 |
| 1 1/2 | 6 | | | | | | | | | | | 14088 | 58.20 |
| 1 1/2 | | 12 | | | | | | | | | | 14089 | 58.20 |

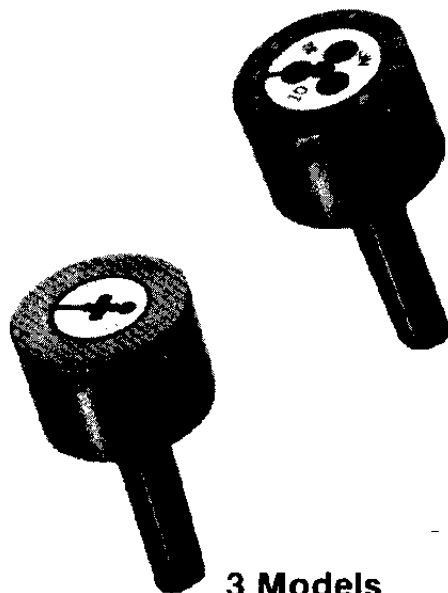
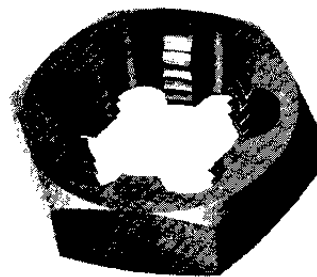
DIE STOCKS AVAILABLE

STANDARD CARBON STEEL HEX RETHREADING DIE

| SIZE | NC | NF | EDP NO. | PRICE |
|-------|----|----|---------|-------|
| 1/4 | 20 | | 15000 | 5.90 |
| 1/4 | | 28 | 15001 | 5.90 |
| 5/16 | 18 | | 15002 | 6.70 |
| 5/16 | | 24 | 15003 | 6.70 |
| 3/8 | 16 | | 15004 | 7.50 |
| 3/8 | | 24 | 15005 | 7.50 |
| 7/16 | 14 | | 15006 | 7.90 |
| 7/16 | | 20 | 15007 | 7.90 |
| 1/2 | 13 | | 15008 | 9.50 |
| 1/2 | | 20 | 15009 | 9.50 |
| 9/16 | 12 | | 15010 | 11.70 |
| 9/16 | | 18 | 15011 | 11.70 |
| 5/8 | 11 | | 15012 | 12.60 |
| 5/8 | | 18 | 15013 | 12.60 |
| 11/16 | 11 | | 15014 | 13.40 |
| 11/16 | | 16 | 15015 | 13.40 |
| 3/4 | 10 | | 15016 | 14.30 |
| 3/4 | | 16 | 15017 | 14.30 |
| 7/8 | 9 | | 15018 | 19.60 |
| 7/8 | | 14 | 15019 | 19.60 |
| 1 | 8 | | 15020 | 19.60 |
| 1 | | 12 | 15021 | 19.60 |
| 1 | | 14 | 15022 | 19.60 |
| 1 1/8 | 7 | | 15023 | 30.50 |
| 1 1/8 | | 12 | 15024 | 30.50 |
| 1 1/4 | 7 | | 15025 | 34.00 |
| 1 1/4 | | 12 | 15026 | 34.00 |
| 1 3/8 | 6 | | 15027 | 39.10 |
| 1 3/8 | | 12 | 15028 | 39.10 |
| 1 1/2 | 6 | | 15029 | 41.90 |
| 1 1/2 | | 12 | 15030 | 41.90 |



HEX DIE ADAPTORS



3 Models

- 2 for Range .080 - 3/8" Thread Size
- 1 for up to 3/4" Threads

DIE HOLDERS

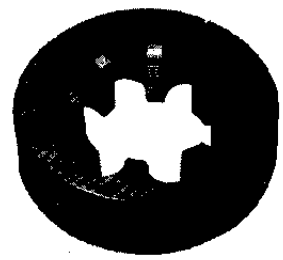
| ROUND DIE SIZE | HEX SIZE | EDP NO. | PRICE EACH |
|----------------|----------|---------|------------|
| 13/16 | 1 1/2 | 53000 | 12.40 |
| 1 | 1 1/2 | 53001 | 12.40 |
| 1 1/2 | 2 | 53002 | 16.70 |
| 2 | 2 1/2 | 53003 | 24.50 |
| 2 1/2 | 3 | 53004 | 50.70 |
| 3 | 3 3/4 | 53005 | 71.10 |

| O.D. THREADING DIES | CAPACITY | EDP NO. | PRICE EACH |
|---------------------|----------|---------|------------|
| 13/16 | .080-3/8 | 54000 | 31.60 |
| 1 | .080-3/8 | 54001 | 31.60 |
| 1 1/2 | 1/4-3/4 | 54002 | 48.10 |

HEX DIE ADAPTORS ALLOW A ROUND DIE TO BE CONVERTED TO A HEXAGON STYLE DIE.

USE WITH AN ADJUSTABLE OR SOCKET WRENCH IN HARD TO REACH PLACES WHERE A CONVENTIONAL DIE STOCK COULD NOT ORDINARILY BE USED.

METRIC ROUND ADJUSTABLE HSS DIES RIGHT HAND



| SIZE | 1" O.D. | | 1 1/2" O.D. | | 2" O.D. | | 2 1/2" O.D. | |
|-------------|---------|-------|-------------|-------|---------|-------|-------------|-------|
| | EDP NO. | PRICE | EDP NO. | PRICE | EDP NO. | PRICE | EDP NO. | PRICE |
| M1.6 X 0.35 | 18000 | 13.50 | | | | | | |
| M2 X 0.40 | 18001 | 13.50 | | | | | | |
| M2.5 X 0.45 | 18002 | 13.50 | | | | | | |
| M3 X 0.50 | 18003 | 13.50 | | | | | | |
| M3.5 X 0.60 | 18004 | 13.50 | | | | | | |
| M4 X 0.70 | 18005 | 13.50 | | | | | | |
| M4.5 X 0.75 | 18006 | 13.50 | | | | | | |
| M5 X 0.80 | 18007 | 13.50 | | | | | | |
| M6 X 1.00 | 18008 | 13.50 | | | | | | |
| M7 X 1.00 | 18009 | 13.50 | | | | | | |
| M8 X 1.25 | 18010 | 13.50 | | | | | | |
| M10 X 1.50 | 18011 | 13.50 | 18012 | 23.90 | | | | |
| M12 X 1.75 | 18013 | 13.50 | 18014 | 23.90 | | | | |
| M14 X 2.00 | | | 18015 | 23.90 | | | | |
| M16 X 2.00 | | | 18016 | 23.90 | | | | |
| M18 X 2.50 | | | 18017 | 23.90 | | | | |
| M20 X 2.50 | | | 18018 | 23.90 | | | | |
| M24 X 3.00 | | | | | 18019 | 36.30 | | |
| M30 X 3.50 | | | | | 18020 | 36.30 | | |
| M36 X 4.00 | | | | | | | 18021 | 61.30 |
| | | | | | | | 18022 | 61.30 |
| | | | | | | | 18023 | 61.30 |

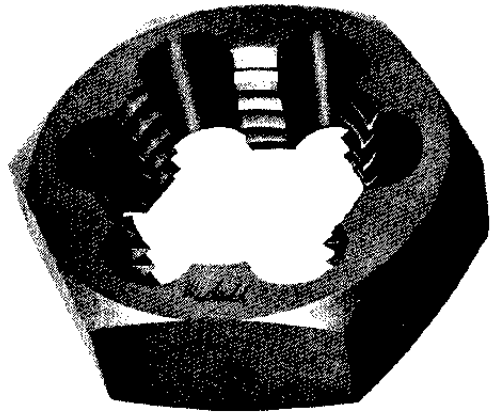
DIE STOCKS AVAILABLE

Your first source

METRIC HEX RETHREADING DIES - CBN



| SIZE | EDP NO. | PRICE |
|-------------|---------|-------|
| M3 X 0.50 | 19000 | 7.50 |
| M3.5 X 0.60 | 19001 | 7.50 |
| M4 X 0.70 | 19002 | 7.50 |
| M4.5 X 0.75 | 19003 | 7.50 |
| M5 X 0.80 | 19004 | 7.50 |
| M6 X 1.00 | 19005 | 7.50 |
| M7 X 1.00 | 19006 | 8.10 |
| M8 X 1.25 | 19007 | 8.10 |
| M10 X 1.50 | 19008 | 10.40 |
| M12 X 1.75 | 19009 | 12.90 |
| M14 X 2.00 | 19010 | 16.30 |
| M16 X 2.00 | 19011 | 17.70 |
| M18 X 2.50 | 19012 | 19.80 |
| M20 X 2.50 | 19013 | 22.90 |
| M24 X 3.00 | 19014 | 27.10 |
| M30 X 3.50 | 19015 | 34.40 |
| M36 X 4.00 | 19016 | 51.70 |



METRIC

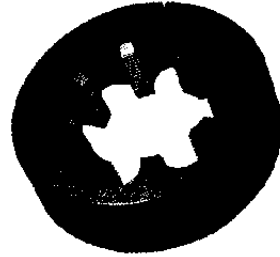
49 Piece and 23 Piece
Tap & Die Sets also
available

Widell International

is now offering

NPT Round Adjustable Dies

High Speed Steel

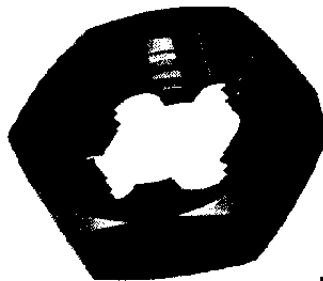
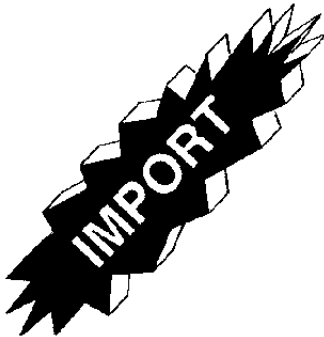


Now in stock for immediate delivery

NPT - ROUND ADJUSTABLE DIES - HSS

| SIZE | 1" O.D. | | 1 1/2" O.D. | | 2" O.D. | | 2 1/2" O.D. | | 3" O.D. | |
|--------------|---------|-------|-------------|-------|---------|-------|-------------|-------|---------|--------|
| | EDP NO. | PRICE | EDP NO. | PRICE | EDP NO. | PRICE | EDP NO. | PRICE | EDP NO. | PRICE |
| 1/16-27 | 16000 | 19.80 | | | | | | | | |
| 1/8-27 | 16001 | 19.80 | 16002 | 29.70 | | | | | | |
| 1/4-18 | | | 16003 | 29.70 | | | | | | |
| 3/8-18 | | | 16004 | 29.70 | | | | | | |
| 1/2-14 | | | 16005 | 29.70 | 16006 | 49.50 | | | | |
| 3/4-14 | | | | | 16007 | 49.50 | | | | |
| 1-11 1/2 | | | | | | | 16008 | 79.20 | | |
| 1 1/4-11 1/2 | | | | | | | | | 16009 | 226.20 |
| 1 1/2-11 1/2 | | | | | | | | | 16010 | 226.20 |

DIE STOCKS AVAILABLE



NPT - CBN HEX RETHRADING DIES

Special NPT
Dies available
— consult factory
for price and 24-
hour delivery.

| SIZE | EDP NO. | PRICE |
|--------------|---------|--------|
| 1/8-27 | 17000 | 18.00 |
| 1/4-18 | 17001 | 21.10 |
| 3/8-18 | 17002 | 26.90 |
| 1/2-14 | 17003 | 34.70 |
| 3/4-14 | 17004 | 44.50 |
| 1-11 1/2 | 17005 | 58.70 |
| 1 1/4-11 1/2 | 17006 | 99.00 |
| 1 1/2-11 1/2 | 17007 | 116.90 |
| 2-11 1/2 | 17008 | 170.90 |

America's Most Complete Inventory of Die Stocks and Tap Wrenches



**DIE STOCKS -
3 SCREW TYPE**

| SIZE | EDP NO. | PRICE |
|-------|---------|--------|
| 13/16 | 20001 | 17.80 |
| 1 | 20002 | 19.60 |
| 1 1/2 | 20003 | 30.60 |
| 2 | 20004 | 39.20 |
| 2 1/2 | 20005 | 55.10 |
| 3 | 20006 | 91.80 |
| 4 | 20007 | 162.60 |
| 5 | 20008 | 306.10 |
| 6 | 20009 | 571.10 |
| 7 | 20010 | 642.80 |
| 8 | 20011 | 878.60 |



TAP & REAMER WRENCHES

| SIZE | FITS TAP | PIPE TAP SIZE | EDP NO. | PRICE |
|-------|-------------|----------------|---------|--------|
| M* | 0 - 1/4 | | 21004 | 6.20 |
| 0 | 0 - 1/4 | | 21005 | 12.20 |
| 4 | 0 - 3/8 | | 21006 | 18.30 |
| 5 | 7 - 1/2 | 1/16, 1/8 | 21007 | 21.50 |
| 6 | 7 - 3/4 | 1/16, 1/8, 1/4 | 21008 | 24.50 |
| 7 | 1/4 - 1 | 1/16 thru 1/2 | 21009 | 30.60 |
| 7 1/2 | 1/2 - 1 1/4 | 1/4 thru 3/4 | 21010 | 91.80 |
| 8 | 3/4 - 1 5/8 | 3/8 thru 1 1/4 | 21011 | 201.80 |
| 22 | 1 - 2 1/2 | 3/4 thru 2 | 21012 | 283.40 |
| 24 | 1 3/4 - 4 | 1 1/2 thru 4 | 21013 | 489.70 |

* 4" OAL, ideal for small tapping applications

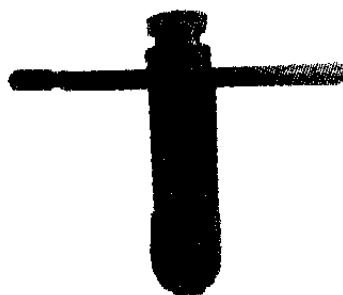
IMPORT

Your first source



**T-HANDLE
TAP WRENCHES**

| FITS TAP | TYPE | EDP NO. | PRICE |
|-----------|------|---------|-------|
| 0 - 8 | A | 21000 | 7.40 |
| 0 - 1/4 | B | 21001 | 7.40 |
| 12 - 5/16 | C | 21002 | 9.80 |
| 1/4 - 1/2 | D | 21003 | 14.70 |



**REVERSIBLE RATCHET
TAP WRENCHES**

| FITS TAP | TYPE | EDP NO. | PRICE |
|---------------|------|---------|-------|
| 0 - 14 EXT. | A1 | 21014 | 31.80 |
| 12 - 1/2 EXT. | A2 | 21015 | 40.40 |

COMBINATION DRILL AND TAP

| SIZE | TPI | OAL | TL | DRILL LENGTH | DRILL SIZE | EDP NO. | PRICE |
|------|-------|---------|---------|--------------|------------|---------|-------|
| #4 | 40-NC | 1-7/8 | 9/16 | 1/4 | 0.089 | 48000 | 37.70 |
| #5 | 40-NC | 1-15/16 | 5/8 | 9/32 | 0.1015 | 48001 | 39.60 |
| #6 | 32-NC | 2 | 11/16 | 5/16 | 0.1095 | 48002 | 37.70 |
| #8 | 32-NC | 2-1/8 | 3/4 | 3/8 | 0.136 | 48003 | 37.70 |
| #10 | 24-NC | 2-3/8 | 7/8 | 13/32 | 0.152 | 48004 | 38.10 |
| #10 | 32-NF | 2-3/8 | 7/8 | 13/32 | 0.161 | 48005 | 38.10 |
| 1/4 | 20-NC | 2-1/2 | 15/16 | 17/32 | 0.201 | 48006 | 40.00 |
| 1/4 | 28-NF | 2-1/2 | 15/16 | 17/32 | 0.2175 | 48007 | 40.00 |
| 5/16 | 18-NC | 3 | 1-1/8 | 11/16 | 0.257 | 48008 | 52.40 |
| 5/16 | 24-NF | 3 | 1-1/8 | 11/16 | 0.272 | 48009 | 52.40 |
| 3/8 | 16-NC | 3-1/2 | 1-1/4 | 13/16 | 0.3125 | 48010 | 63.60 |
| 3/8 | 24-NF | 3-1/2 | 1-1/4 | 13/16 | 0.3345 | 48011 | 63.60 |
| 7/16 | 14-NC | 3-7/8 | 1-7/16 | 1 | 0.368 | 48012 | 74.70 |
| 7/16 | 20-NF | 3-7/8 | 1-7/16 | 1 | 0.389 | 48013 | 83.20 |
| 1/2 | 13-NC | 4-1/4 | 1-21/32 | 1-1/8 | 0.425 | 48014 | 91.30 |
| 1/2 | 20-NF | 4-1/4 | 1-21/32 | 1-1/8 | 0.451 | 48015 | 91.30 |

COBALT
Saves Time!
Saves Money!

The COBALT, combination drill-n-tap, is the modern, practical method of through hole tapping. It drills and taps in one operation saving a complete set-up.

Available in HSS **METRIC** and Pipe Thread — Call for prices.

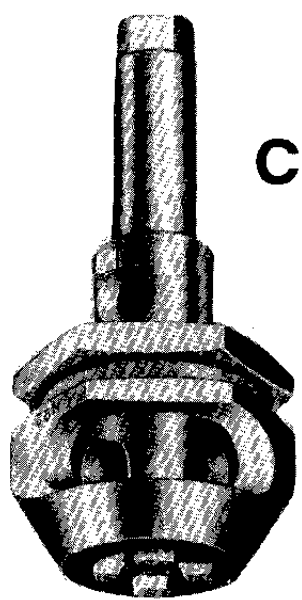
*Furnished in
H-3 tolerances*



CONE DIE HOLDER COLLETS

Use for external threading with acorn-type dies.
Compact and precision ground.

The collet includes Shank, Cap and Nut.



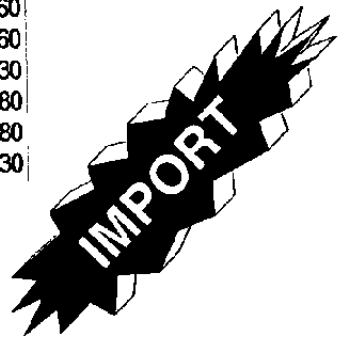
| CONE DIE SIZE | O.D. | SHANK DIAM. | CAPACITY | | EDP NO. | PRICE |
|---------------|---------|-------------|-----------|--|---------|---------|
| | | | INCH | | | |
| #1 | 5/8 | 3/8 | #0 - 1/4 | | 54003 | 722.40 |
| #2 | 7/8 | 1/2 | #8 - 3/8 | | 54004 | 857.80 |
| #2 | 7/8 | 3/4 | #8 - 3/8 | | 54005 | 885.60 |
| #3 | 1 - 1/4 | 1/2 | 3/8 - 1/2 | | 54006 | 1069.70 |
| #3 | 1 - 1/4 | 3/4 | 3/8 - 5/8 | | 54007 | 1097.40 |
| #3 | 1 - 1/4 | 1 | 3/8 - 5/8 | | 54008 | 1139.10 |

COMBINED DRILL & COUNTER SINKS

Right Hand Precision Ground
60° Included Angle - High Speed Steel



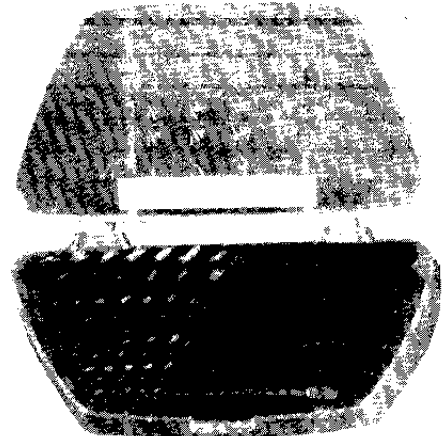
| SIZE | BODY DIAM. | DRILL DIAM. | OAL | EDP NO. | PRICE |
|------|------------|-------------|-------|---------|-------|
| #000 | 1/8 | .020 | 1-1/4 | 22000 | 4.10 |
| #00 | 1/8 | .025 | 1-1/4 | 22001 | 4.10 |
| #0 | 1/8 | 1/32 | 1-1/4 | 22002 | 3.10 |
| #1 | 1/8 | 3/64 | 1-1/4 | 22003 | 2.50 |
| #2 | 3/16 | 5/64 | 1-7/8 | 22004 | 2.50 |
| #3 | 1/4 | 7/64 | 2 | 22005 | 2.50 |
| #4 | 5/16 | 1/8 | 2-1/8 | 22006 | 2.80 |
| #5 | 7/16 | 3/16 | 2-3/4 | 22007 | 4.60 |
| #6 | 1/2 | 7/32 | 3 | 22008 | 5.60 |
| #7 | 5/8 | 1/4 | 3-1/4 | 22009 | 8.30 |
| #8 | 3/4 | 5/16 | 3-1/2 | 22010 | 10.80 |
| #9 | 7/8 | 11/32 | 3-5/8 | 22011 | 19.80 |
| #10 | 1 | 3/8 | 3-3/4 | 22012 | 25.30 |



SCREW EXTRACTORS



| EXTRACTOR NUMBER | REMOVES SCREWS | EDP NO. | PRICE |
|------------------|----------------------------|---------|--------|
| #1 | 3/16 - 1/4 | 29000 | 1.80 |
| #2 | 1/4 - 5/16 | 29001 | 1.90 |
| #3 | 5/16 - 7/16 | 29002 | 2.50 |
| #4 | 7/16 - 9/16 + 1/8 pipe | 29003 | 2.80 |
| #5 | 9/16 - 3/4 + 1/4 pipe | 29004 | 4.20 |
| #6 | 3/4 - 1 + 3/8 pipe | 29005 | 8.20 |
| #7 | 1 - 1 3/8 + 1/2 pipe | 29006 | 12.60 |
| #8 | 1 3/8 - 1 3/4 + 3/4 pipe | 29007 | 20.80 |
| #9 | 1 3/4 - 2 1/8 + 1 pipe | 29008 | 31.50 |
| #10 | 2 1/8 - 2 1/2 + 1 1/4 pipe | 29009 | 62.40 |
| #11 | 2 1/2 - 3 + 1 1/2 pipe | 29010 | 100.90 |
| #12 | 3 - 3 1/2 + 2 pipe | 29011 | 161.50 |



SCREW EXTRACTOR SET

| | | |
|--|---------|-------|
| Contains 1 each Number 1 thru 5 in a clear plastic snap pocket case | EDP NO. | PRICE |
| | 29012 | 12.75 |

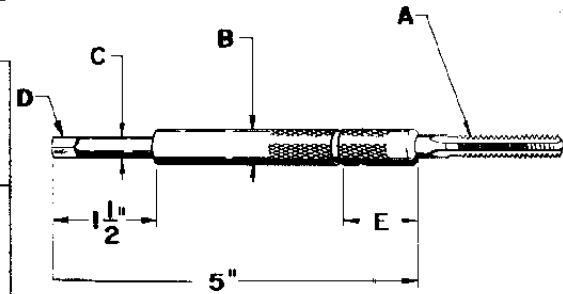
WIDELL INDUSTRIES

presents

TAP EXTENSIONS

5" TAP EXTENSIONS

| NOM. TAP SIZE | [A] DIAM. OF TAP SHANK | [B] EXTENS DIAM. | [C] SHANK DIAM. | [D] SQUARE SIZE | [E] ENTRY DEPTH | EDP NO. | PRICE |
|---------------|---|------------------|-----------------|-----------------|-----------------|---------|--------|
| #0 thru #6 | 0.141 | 1/4 | .194 | .152 | 7/8 | 23000 | 58.30 |
| #8 | 0.168 | 5/16 | .194 | .152 | 7/8 | 23001 | 58.30 |
| #10 | 0.194 | 3/8 | .194 | .152 | 1 | 23002 | 58.30 |
| #12 | 0.220 | 3/8 | .194 | .152 | 1 | 23003 | 58.30 |
| 1/4 | 0.255 | 7/16 | .255 | .191 | 1 | 23004 | 58.30 |
| 5/16 | 0.318 | 1/2 | .318 | .238 | 1 1/16 | 23005 | 72.30 |
| 3/8 | 0.331 | 9/16 | .381 | .286 | 1 1/8 | 23006 | 72.30 |
| 7/16 | 0.323 | 1/2 | .323 | .242 | 1 1/16 | 23007 | 72.30 |
| 1/2 | 0.367 | 9/16 | .367 | .275 | 1 1/8 | 23008 | 72.30 |
| 1/16 NPT | 0.312 | 1/2 | .312 | .234 | 1 | 23009 | 72.30 |
| 1/8 SS | 0.312 | 1/2 | .312 | .234 | 1 | 23010 | 72.30 |
| SET | NO. 6, 8, 10, 1/4, 5/16, 3/8, 7/16, 1/2 | | | | | 23011 | 542.20 |



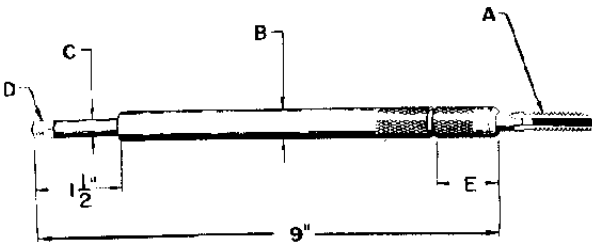
WIDELL INDUSTRIES INC.

PORT RICHEY, FL. (813) 848-1811 - TOLL FREE 1-800-237-5963
 HILLMAN, MI. (517) 742-4528 - TOLL FREE - 1-800-248-3044
 BRIGHTON, CO. (303) 654-0155 - TOLL FREE - 1-800-255-8277
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 CHICO, CA. (916) 894-2194 - TOLL FREE - 1-800-255-8277
 NEW TOLL FREE FAX - 1-800-848-6363

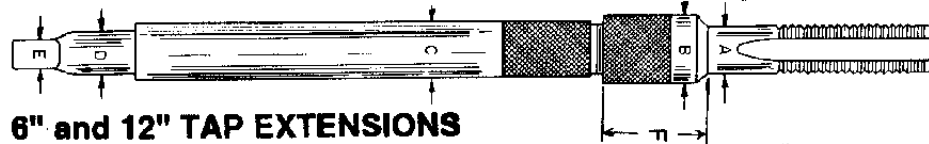
- PERMITS USE OF STANDARD TAPS FOR MACHINE TAPPING OF HARD TO REACH SPOTS.
- FITS ALL COMMONLY USED TAPPING DEVICES.
- ELIMINATES NEED FOR EXPENSIVE SPECIAL TAPS.

9" TAP EXTENSIONS

| NOM. TAP SIZE | [A] DIAM. OF TAP SHANK | [B] EXTENS DIAM. | [C] SHANK DIAM. | [D] SQUARE SIZE | [E] ENTRY DEPTH | EDP NO. | PRICE |
|---------------|---|------------------|-----------------|-----------------|-----------------|---------|--------|
| #0 thru #6 | 0.141 | 1/4 | .194 | .152 | 7/8 | 23012 | 58.30 |
| #8 | 0.168 | 5/16 | .194 | .152 | 7/8 | 23013 | 58.30 |
| #10 | 0.194 | 3/8 | .194 | .152 | 1 | 23014 | 58.30 |
| #12 | 0.22 | 3/8 | .194 | .152 | 1 | 23015 | 58.30 |
| 1/4 | 0.255 | 7/16 | .255 | .191 | 1 | 23016 | 58.30 |
| 5/16 | 0.318 | 1/2 | .318 | .238 | 1 1/16 | 23017 | 72.30 |
| 3/8 | 0.381 | 9/16 | .381 | .286 | 1 1/8 | 23018 | 72.30 |
| 7/16 | 0.323 | 1/2 | .323 | .242 | 1 1/16 | 23019 | 72.30 |
| 1/2 | 0.367 | 9/16 | .367 | .275 | 1 1/8 | 23020 | 72.30 |
| 1/16 NPT | 0.312 | 1/2 | .312 | .234 | 1 | 23021 | 72.30 |
| 1/8 SS | 0.312 | 1/2 | .312 | .234 | 1 | 23022 | 72.30 |
| SET | NO. 6, 8, 10, 1/4, 5/16, 3/8, 7/16, 1/2 | | | | | 23023 | 542.20 |



- 1— Squared End permits use in hand tapping.
- 2— Shank turned down to fit the collets or chucks of widely used tapping devices.
- 3— Internal Square Transmits Driving Torque to squared end of tap.
- 4— Split Cylinder (collet) grips tap shank when compressed by collet cap.



6" and 12" TAP EXTENSIONS

| NOMINAL TAP SIZE | PIPE TAPS | 12" EDP NO. | 6" EDP NO. | [A] DIAM. OF TAP SHANK | [B] MAX DIAM. CAP | [C] EXTENS. DIAM. | [D] SHANK DIAM. | [E] SQUARE SIZE | [F] ENTRY DEPTH | PRICE |
|------------------|-----------|-------------|------------|------------------------|-------------------|-------------------|-----------------|-----------------|-----------------|--------|
| 9/16 | 1/8 | 23024 | 23025 | .429 | 7/8 | 3/4 | .429 | .320 | 1 1/4 | 128.70 |
| | | 23026 | 23027 | .437 | 7/8 | 3/4 | .437 | .328 | 1 | 128.70 |
| 5/8 | 1/4 | 23028 | 23029 | .480 | 7/8 | 3/4 | .480 | .360 | 1 1/4 | 128.70 |
| 11/16 | | 23030 | 23031 | .542 | 1 | 7/8 | .542 | .406 | 1 1/4 | 143.10 |
| | 3/8 | 23032 | 23033 | .562 | 1 | 7/8 | .562 | .420 | 1 | 143.10 |
| 3/4 | | 23034 | 23035 | .590 | 1 | 7/8 | .590 | .440 | 1 3/8 | 143.10 |
| 7/8 | 1/2 | 23036 | 23037 | .697 | 1 1/8 | 1 | .697 | .520 | 1 3/8 | 143.10 |
| | | 23038 | 23039 | .700 | 1 1/8 | 1 | .700 | .530 | 1 3/16 | 143.10 |
| | 1 | 23040 | 23041 | .687 | 1 1/8 | 1 | .687 | .515 | 1 1/4 | 143.10 |
| 1 | | 23042 | 23043 | .800 | 1 1/8 | 1 | .800 | .600 | 1 1/2 | 143.10 |

- TAPS CAN BE CHANGED EASILY AND QUICKLY WITHOUT TOOLS.
- SLENDER DESIGN FOR CLOSE QUARTER TAPPING.
- PRECISION MACHINED OF HIGH GRADE TOOL STEEL

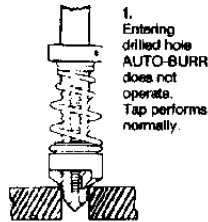
MADE IN U.S.A.

Discontinued - Available while supplies last.

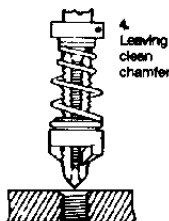
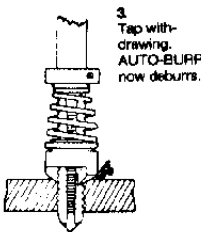
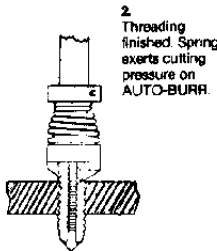
AUTO-BURR THREE LIP

| SIZE | EDP NO. | PRICE |
|-------|---------|-------|
| #2 | 24020 | 35.00 |
| #3 | 24021 | 35.00 |
| #4 | 24022 | 35.00 |
| #5 | 24023 | 35.00 |
| #6 | 24025 | 34.65 |
| #8 | 24026 | 34.65 |
| #10 | 24027 | 34.65 |
| #12 | 24028 | 34.65 |
| 1/4 | 24029 | 35.40 |
| 5/16 | 24031 | 35.40 |
| 3/8 | 24032 | 42.60 |
| 7/16 | 24034 | 50.40 |
| 1/2 | 24035 | 56.40 |
| 9/16 | 24036 | 67.05 |
| 5/8 | 24037 | 67.05 |
| 11/16 | 24038 | 69.10 |
| 3/4 | 24039 | 69.10 |

METRIC, STI & PIPE AUTO-BURRS



NO ADDITIONAL POWER REQUIRED
REDUCES COST OF FINISHED TAPPING
EASY SCREW INSERTION
NO BURR ROCK
A CLEAN HOLE
VARIABLE DEPTH OF CHAMFER

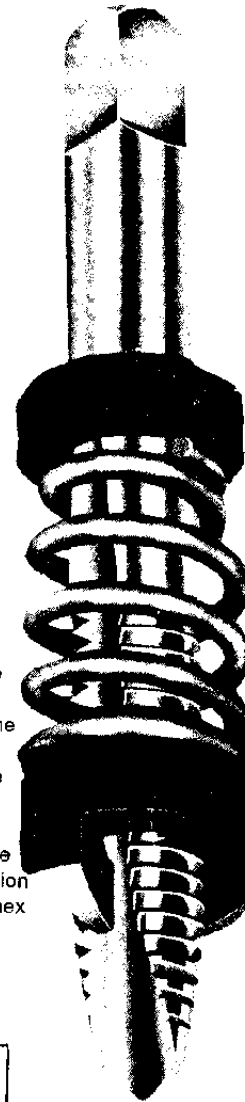


The principle purpose of the Widell Auto-Burr is to remove the burr created by the tap as it is withdrawn from the hole during the tapping operation.

Auto-Burr was designed for use on almost all types of tapping equipment.

Each Auto-Burr comes complete with high tension spring, low tension spring, stop collar, collar screw, hex key, and directions for use.

MADE IN U.S.A.



AUTO-BURR TWO LIP

| SIZE | EDP NO. | PRICE |
|-------|---------|-------|
| #2 | 24000 | 32.55 |
| #3 | 24001 | 32.55 |
| #4 | 24002 | 32.55 |
| #5 | 24003 | 32.55 |
| #6 | 24004 | 32.30 |
| #8 | 24005 | 32.30 |
| #10 | 24006 | 32.30 |
| #12 | 24007 | 32.30 |
| 1/4 | 24008 | 33.30 |
| 5/16 | 24009 | 33.30 |
| 3/8 | 24010 | 39.65 |
| 7/16 | 24011 | 46.80 |
| 1/2 | 24012 | 46.80 |
| 9/16 | 24013 | 53.25 |
| 5/8 | 24014 | 53.25 |
| 11/16 | 24015 | 54.60 |
| 3/4 | 24016 | 54.60 |
| 13/16 | 24017 | 59.90 |
| 7/8 | 24018 | 69.90 |
| 1 | 24019 | 69.90 |

NOTES:

- All Tap Burrs are ground at standard 120° included angle.
- Larger or special sizes other than those listed quoted upon request.

TWO-LIP AUTO-BURRS
CAN BE USED ON
STANDARD 2 OR 4 FLUTE
TAPS (ANY PITCH).

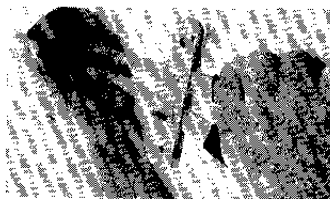
THREAD RESTORING FILE

| DESCRIPTION | EDP NO. | PRICE |
|---|---------|-------|
| #1 THREAD RESTORING FILE (For pitches of 11, 12, 13, 14, 16, 18, 20, 24) | 25001 | 14.10 |
| #2 THREAD RESTORING FILE (For TPI of 9,10,12,16,20,27,28,32) | 25002 | 14.10 |
| #8 METRIC THREAD RESTORING FILE (For 8-pitches of 0.75,1.00,1.25 1.75, 2.00, 2.50, and 3.00 mm) | 25003 | 14.10 |
| #4 NU-THREAD EXTERNAL PIPE THREAD FILE (For TPI of 8, 11-1/2, 14, & 18) | 25004 | 14.10 |
| #5 WIDE EXTERNAL PIPE THREAD FILE (For TPI of 8, 10, 11-1/2, and 18) | 25005 | 17.20 |
| #9 UNIVERSAL THREAD RESTORING FILE | 25006 | 9.00 |
| #12 PLASTIC HANDLE | 25007 | 1.20 |

"WIDELL FILES" are time-tested to renew damaged threads of any diameter, right or left-hand. The numbers 1, 2, and 8 are 7/16" sz. x 8 1/2" long, 6 oz. They work quickly to remove battered, rusted and corroded material. The repaired is like new, no under-cut.

INTERNAL RETHREADERS

MADE IN U.S.A.



| DESCRIPTION | EDP NO. | PRICE |
|---|---------|-------|
| #50 SET OF RETHREADER TOOLS (Tool, pouch, & 8,11-1/2,14 TPI bits) | 25008 | 50.50 |
| #50A SET OF RETHREADER BITS ON RING (Ring with 9,10,11,12,13,16,18,20,24, 27,28, and 32 pitch bits) | 25009 | 58.30 |
| #50B SET OF METRIC RETHREADER BITS ON RING (Ring with 0.75, 1.00, 1.25, 1.50,1.75, 2.00, 2.50, and 3.00mm bits) | 25010 | 40.40 |

WIDELL INDUSTRIES

presents . . .

Your first source



American — 52 Blades (4-84 TPI)
Metric — 24 Blades (0.25-6.00 Pitch)

SCREW PITCH GAGES



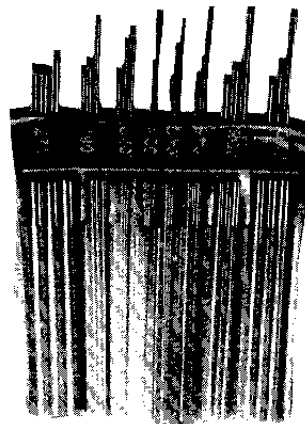
| AMERICAN | | | | | | | | EDP NO. | TYPE | PRICE |
|-----------|------|------|------|------|------|----|----|---------|------|-------|
| 52 Blades | | | | 60° | | | | | | |
| 4 | 4.5 | 5 | 5.5 | 6 | 7 | 8 | 9 | 29019 | 411 | 12.60 |
| 10 | 11 | 11.5 | 12 | 13 | 14 | 15 | 16 | | | |
| 17 | 18 | 20 | 22 | 24 | 25 | 27 | 28 | | | |
| 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | | | |
| 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 | | | |
| 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 | | | |
| 78 | 80 | 82 | 84 | | | | | | | |
| METRIC | | | | | | | | EDP NO. | TYPE | PRICE |
| 24 Blade | | | | 60° | | | | | | |
| 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | | | 29020 | 414 | 6.20 |
| 0.60 | 0.70 | 0.75 | 0.80 | 0.90 | 1.00 | | | | | |
| 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | | | | | |
| 3.25 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

3 to 48 TPI

THREAD MEASURING WIRE SET

| DESCRIPTION | EDP NUMBER | PRICE |
|----------------------------|------------|-------|
| 3 TO 48 THREAD WIRE SET | 29021 | 32.70 |

For measuring all 60° threads. Utilizes the three wire system of measuring external threads, accepted as the most accurate method. Kit contains 48 wires, in 16 different sizes. Measures all 60° threads from 3 to 48 TPI, and all metric, threads from .5mm to 6mm pitch.



**48 PIECES
16 DIFFERENT SIZES
FOR ALL 60° THREADS**



TERMS OF SALE

- 1. PRICES:** Prices are to be understood FOB Point of Sale. Although all prices are subject to change without notice, we will do all we can to notify you in advance of any change in price. We reserve the right to correct any price or information incorrectly listed in our catalog.
- 2. TERMS:** Our payment terms are 1% 10 net 30 to open account customers. If you wish to open an account with us, please contact our credit department. We will send you our credit application. Please fill out completely and return original. It will be approximately 10 working days upon receipt to investigate your credit information. It may be necessary to ship your orders C.O.D. until our investigation is complete. Interest rate of 1^{1/2}% per month will be charged on past due balances. Any legal or collection fees shall also be charged to the buyer. All merchandise shall remain the seller's property. Title does not pass to the buyer until all merchandise is paid in full.
- 3. MINIMUM ORDER:** \$25.00 net.
- 4. HANDLING:** We charge \$1.00 for each package sent directly to our customer or to a 3rd party.
- 5. GUARANTEE & LIABILITY:** All tools are guaranteed against defects of material or workmanship. Our liability is limited to the value of the defective items only. We do not warrant or represent that the merchandise complies with any law or regulation, particularly the Walsh-Healy Public Contracts Act and the Occupational Safety & Health Act of 1970. If our product is found to be faulty we will replace it free of charge. It is the end users responsibility to inspect a special threaded product, produced by Widell's tool, using a go, no-go gage or by making a test part prior to producing the end product(s). Our guarantee covers only the replacement of the tool without any further indemnity.
- 6. RETURNS:** All claims and returns must be made within 10 days of receipt of goods, giving invoice number and date. Returned merchandise must be in its original condition without alterations and must be returned in its original packaging. Positively no credit allowed for merchandise returned without authorization. Items returned, with prior permission will be subject to 25% restocking charges. We cannot accept any Widell products returned after 180 days of sale date. Any special threading tool not stocked by Widell or made to end user specification, will not be subject to return. Any discrepancy in our invoicing or pricing must be reported within 30 days from date of invoice.

Visit our web site at: www.widell.com

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