

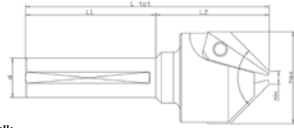
## Distributed By



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info@bercor.ca  
www.bercor.ca

## DIESSE TOOLING

Introducing  
CS DYNAMIC TOOLS  
Countersink Tool Kits

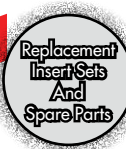


- \* Kits Include Tool, 3 TiN coated inserts, 3 screws and 1 key.
- \* Can be used for countersinking, chamfering and peripheral milling.

| EDP                  | Model              | Range   | Angle | Shank Size   | Coolant Supply | PRICE    |
|----------------------|--------------------|---------|-------|--------------|----------------|----------|
| 341-DSUT.598.12.03   | KCS/E12-2860-ST**  | 11-28mm | 60    | 12mm-NO FLAT | Internal       | \$299.00 |
| 341-DSUT.598.12.03F  | KCS/E12-2860F-ST   | 11-28mm | 60    | 12mm         | Internal       | \$499.00 |
| 341-DSUT.598.058.01F | KCS/E058-28820F-ST | 6-28mm  | 82    | WE5/8"       | Internal       | \$699.00 |
| 341-DSUT.598.058.02F | KCS/E058-40820F-ST | 18-40mm | 82    | WE5/8"       | Internal       | \$749.00 |
| 341-DSUT.598.12.01F  | KCS/E12-2890F-ST   | 4-28mm  | 90    | 12mm         | Internal       | \$499.00 |
| 341-DSUT.598.16.02   | KCS/E16-2890-ST**  | 4-28mm  | 90    | 16mm-NO FLAT | Internal       | \$299.00 |
| 341-DSUT.598.16.02F  | KCS/E16-2890F-ST   | 4-28mm  | 90    | WE16mm       | Internal       | \$549.00 |
| 341-DSUT.598.16.01F  | KCS/E16-4090F-ST   | 16-40mm | 90    | WE16mm       | Internal       | \$579.00 |

\*\* End of Line CLEAROUT Pricing\*\*

ALSO  
AVAILABLE



- \* Manufactured on 5 axis grinder
- \* Each set consists of 3 Carbide Blades
- \* Coated and Uncoated
- \* With logarithmic cutting edge



| EDP               | Model                                                     | Suggested Use                                      | PRICE    |
|-------------------|-----------------------------------------------------------|----------------------------------------------------|----------|
| 341-DSUT.519.2890 | CS-ST SET OF 3 CARBIDE INSERT, TIN COATED CARBIDE         | STEEL AND STAINLESS, LOGARITHMIC RAKE              | \$239.00 |
| 341-DSUT.519.2891 | CS-ALU SET OF 3 CARBIDE INSERT, UNCOATED-POLISHED CARBIDE | ALUMINUM AND LIGHT ALLOYS, LOGARITHMIC RAKE        | \$239.00 |
| 341-DSUT.519.2892 | CS-GG SET OF 3 CARBIDE INSERT, TIALN COATED CARBIDE       | GREY CAST IRON, LOGARITHMIC RAKE                   | \$259.00 |
| 341-DSUT.519.2893 | CS-HS SET OF 3 CARBIDE INSERT, TIALN COATED CARBIDE       | SPECIAL STEEL/ALLOY APPLICATIONS, LOGARITHMIC RAKE | \$299.00 |
| 341-DSUT.519.2895 | CS-TS SET OF 3 CARBIDE INSERT, TS COATED CARBIDE          | LOW WEAR INSERT, SPECIAL STEEL/ALLOY APPLICATIONS  | \$299.00 |

| EDP                    | Model                                        | Range  | Angle | Shank Size | Coolant Supply | PRICE    |
|------------------------|----------------------------------------------|--------|-------|------------|----------------|----------|
| 341-DSUT.398.20.24.090 | KERCS/E32-2490 KIT C/W 2 RCS-ST BLADE RCS-ST | 8-24mm | 90    | ER32       | Internal       | \$679.00 |
| 341-DSUT.319.24.090    | RCS-ST SET OF 2 CARBIDE INSERT, TIN COATED   |        |       |            |                | \$165.00 |

## DESKTOP TOOL HOLDER STAND



Order #: 240-TSUNI16

Price: \$249.00



- \* A desktop tool holder stand that can be adjusted to hold whatever taper you like!
- \* Each stand holds 16 tools and can sit conveniently on your bench beside your machine.

## Meet Our Premier Brands



Prices Valid From June 1 Through September 30, 2023

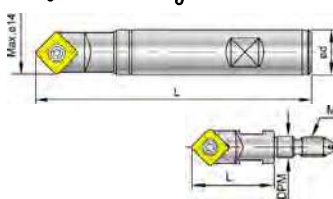
Ref. No 109-2306-4D



# NC SPOT DRILL .... One Pocket, So Many Possibilities

THE ORIGINAL  
and Still  
THE BEST

## TOOL HOLDERS

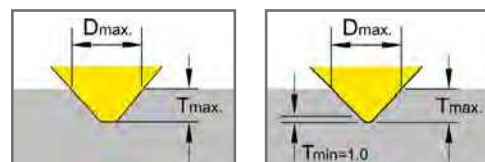


| Code       | Holder Parts No. | Angle | Ød   | L   | M        | DPM | Dmax.  | Tmax.  | Screw/Key                    | PRICE    |
|------------|------------------|-------|------|-----|----------|-----|--------|--------|------------------------------|----------|
| 109-604002 | 00-99616-14-12   | 90°   | 12   | 100 | -        | -   | -      | -      | NS-35080<br>2.5 Nm<br>NK-T15 | \$101.00 |
| 109-604004 | 00-99616-14      |       | 16   | 100 | -        | -   | -      | -      |                              | \$101.00 |
| 109-604007 | 00-99616-14-150L |       | 16   | 150 | -        | -   | -      | -      |                              | \$179.00 |
| 109-604009 | 00-99616-14-220L |       | 20   | 220 | -        | -   | -      | -      |                              | \$289.00 |
| 109-614001 | 00-99616-14-1/2  |       | 1/2" | 100 | -        | -   | -      | -      |                              | \$101.00 |
| 109-614002 | 00-99616-14-5/8  |       | 5/8" | 100 | -        | -   | -      | -      |                              | \$101.00 |
| 109-624001 | 00-99616-14-M8   |       | -    | 30  | M8xP1.25 | 8.5 | -      | -      |                              | \$187.00 |
| 109-604011 | 00-99616-20-100  | 100°  | 20   | 100 | -        | -   | 16     | 6.3    |                              | \$123.00 |
| 109-604013 | 00-99616-20-120  | 120°  | 20   | 100 | -        | -   | 17     | 4.76   |                              | \$123.00 |
| 109-614003 | 00-99616-3/4-120 |       | 3/4" | 100 | -        | -   | 0.669" | 0.187" |                              | \$120.00 |
| 109-604014 | 00-99616-20-142  | 142°  | 20   | 100 | -        | -   | 18.5   | 3.16   |                              | \$123.00 |
| 109-614004 | 00-99616-3/4-142 |       | 3/4" | 100 | -        | -   | 0.728" | 0.124" |                              | \$120.00 |

## N9MT11T3 90° 100° 120° 142°

### SPOT DRILLING CHAMFERING ENGRAVING

- NC40:
- Wiper design, universal grade for all unhardened steel.
  - Each insert has 4 cutting edges.
- NC10:
- High positive angle and fully ground cutting edge and relief angle.
  - Universal grade for non-ferrous metal, cast iron and stainless steel.
  - Each insert has 4 cutting edges.
- NC60:
- Wiper design cermet insert, for hardened steel up to 56 HRC.
  - Each insert has 4 cutting edges.
- H-NC5071:
- For carbon steel C>0.3%, high alloy steel C>0.3% and cast iron.
  - Each insert has 2 cutting edges.
- H-NC40:
- For carbon steel C<0.3%, low alloy steel C<0.3%, stainless steel, non-ferrous and titanium.
  - Each insert has 2 cutting edges.
- H-NC9076:
- High positive geometry and sharp edge.
  - For non-ferrous material such as aluminum, titanium, brass, copper and long cutting chip metal.
  - Produces excellent surface finish on non-ferrous metal.
  - Each insert has 2 cutting edges.



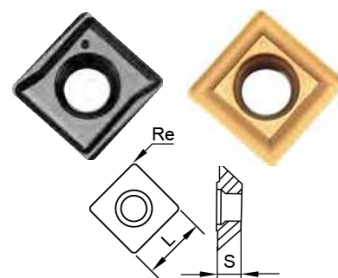
Other Grade

NC40 / Wiper design / NC60

| Code       | Insert Parts No. | Coating  | Grade       | Dimensions |      |       | Dmax. | Tmax. | PRICE   |
|------------|------------------|----------|-------------|------------|------|-------|-------|-------|---------|
|            |                  |          |             | L          | S    | Re    |       |       |         |
| 109-014401 | N9MT11T3CT       | NC40     | TiN         | 11.11      | 3.97 | 0.8   | 14    | 7     | \$36.00 |
| 109-014402 |                  | NC10     | TiAlN       |            |      | (0.3) |       |       | \$36.00 |
| 109-014403 |                  | NC60     | CERMET      |            |      | 0.8   |       |       | \$46.00 |
| 109-014234 | NEW N9MT11T3CT2T | H-NC5071 | TiAlN & TiN |            |      | 0.8   |       |       | \$34.00 |
| 109-014202 |                  | H-NC40   | TiN         |            |      | 0.8   |       |       | \$34.00 |
| 109-014203 |                  | H-NC9076 | DLC         |            |      | 0.8   |       |       | \$41.00 |

\* H type is with supporting edge.

\*\* N9MT11T3CT2TH recommended for 100°, 120° & 142° tools.



## KITS

| Code            | Parts No.             | Ød   | Total Length | Insert fitted   | Dmax.  | Tmax.  | PRICE    |
|-----------------|-----------------------|------|--------------|-----------------|--------|--------|----------|
| 109-604104-4401 | 00-99616-14-02S       | 16   | 100          | N9MT11T3CT-NC40 | 14     | 7      | \$136.00 |
| 109-604104-4402 | 00-99616-14-02SAL     |      |              | N9MT11T3CT-NC10 | 14     | 7      | \$136.00 |
| 109-614102-4401 | 00-99616-14-5/8-02S   | 5/8" | 100          | N9MT11T3CT-NC40 | 0.551" | 0.276" | \$132.00 |
| 109-614102-4402 | 00-99616-14-5/8-02SAL |      |              | N9MT11T3CT-NC10 | 0.551" | 0.276" | \$132.00 |

### Single Set



| Code            | Parts No.         | Ød   | Insert Included | Content                                       | PRICE    |
|-----------------|-------------------|------|-----------------|-----------------------------------------------|----------|
| 109-604204-4401 | 00-99616-14-ME6   | 16   | N9MT11T3CT-NC40 | 1 tool holder<br>+<br>6 inserts<br>+<br>1 key | \$319.00 |
| 109-604204-4402 | 00-99616-14-ME6AL |      | N9MT11T3CT-NC10 |                                               | \$319.00 |
| 109-614202-4401 | 00-99616-14-IN6   | 5/8" | N9MT11T3CT-NC40 |                                               | \$319.00 |
| 109-614202-4402 | 00-99616-14-IN6AL |      | N9MT11T3CT-NC10 |                                               | \$319.00 |

- Selected package for starter who wants to try NC Spot Drill.
- Included one insert on tool holder and five inserts in the pocket.
- Total 6 inserts are equal to 24 spot drills.

| Code            | Parts No.         | Ød | Insert Included                                                                                       | Content                                       | PRICE    |
|-----------------|-------------------|----|-------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|
| 109-604204-4200 | 00-99616-14-ME5RC | 16 | N9MT11T3RC10-NC40<br>N9MT11T3RC15-NC40<br>N9MT11T3RC20-NC40<br>N9MT11T3RC25-NC40<br>N9MT11T3RC30-NC40 | 1 tool holder<br>+<br>5 inserts<br>+<br>1 key | \$359.00 |

### STARTER Kit



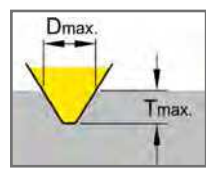
### STARTER Kit



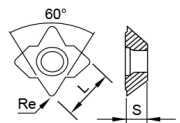
## N9MT11T3P60 60°

### ENGRAVING

- Fully ground spotting insert, for 60 degree spotting and engraving.
- NC40:
  - Universal grade for all unhardened steel and cast iron.
  - Each insert has 2 cutting edges.



| Code       | Insert Parts No. | Coating | Grade | Dimensions |      |     | Dmax. | Tmax. | PRICE   |
|------------|------------------|---------|-------|------------|------|-----|-------|-------|---------|
|            |                  |         |       | L          | S    | Re  |       |       |         |
| 109-014204 | N9MT11T3P60-NC40 | TiN     | P35   | 11         | 3.97 | 0.8 | 6.2   | 4     | \$60.00 |

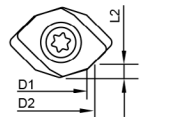
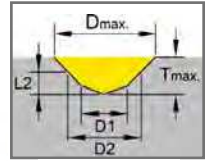
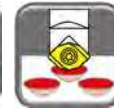


## WSP Spotting 145° + 90°

### SPOT DRILLING CHAMFERING

Discover The **NEW GEOMETRY** of Spotting Tool!

- NC2033:
  - Fully ground cutting edge and relief angle.
  - Universal grade for steel, cast iron and hardened steel < 50 HRC.
  - Each insert has 2 cutting edges.



| Code       | Insert Parts No.     | Coating | Grade | Thread Size | *D1±0.05 | D2    | L2   | Dmax. | Tmax. | PRICE   |
|------------|----------------------|---------|-------|-------------|----------|-------|------|-------|-------|---------|
| 109-014219 | N9MT11T3M08C-NC2033  | TiAlN   | K20F  | M8x1.25     | 6.80     | 8.40  | 1.81 | 13    | 4.11  | \$52.00 |
| 109-014220 | N9MT11T3M10C-NC2033  |         |       | M10x1.5     | 8.50     | 10.50 | 2.28 |       | 3.53  | \$52.00 |
| 109-014221 | N9MT11T3UNC25-NC2033 | TiAlN   | K20F  | 1/4-20 UNC  | 5.08     | 6.70  | 1.55 | 13    | 4.70  | \$52.00 |
| 109-014222 | N9MT11T3UNC31-NC2033 |         |       | 5/16-18 UNC | 6.53     | 8.40  | 1.90 |       | 4.20  | \$52.00 |
| 109-014223 | N9MT11T3UNC38-NC2033 |         |       | 3/8-16 UNC  | 7.94     | 10.00 | 2.22 |       | 3.72  | \$52.00 |

Note: \* D1 refer to the Tap Pre-drilling sizes. D2 : Thread size x 5%. L2 : Depth of D2.

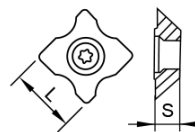
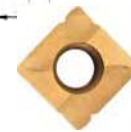
## N9MT11T3RC RC

### CORNER ROUNDING

- Combination corner rounding and 45° chamfering application on same insert.
- Each insert has 2 cutting edges.
- NC40:
  - Universal grade for all unhardened steel and cast iron.
  - Inserts are CNC ground for precision radius location.
- NC9036:
  - For non-ferrous material such as aluminum, acrylic, titanium, brass, copper and stainless steel.
  - High positive geometry and sharp edge produces excellent surface finish.



**RC1.0 ~ RC3.0**  
All are interchangeable on same holder



| Insert Radius | Code       | Insert Parts No. | Coating | Grade | Offset |        |        | Dimensions |        | PRICE   |
|---------------|------------|------------------|---------|-------|--------|--------|--------|------------|--------|---------|
|               |            |                  |         |       | X      | Y      | Z      | L          | S      |         |
| 1.0           | 109-014209 | N9MT11T3RC10     | NC40    | TiN   | K20F   | 2.75   | 1.5    | 2.5        |        | \$52.00 |
|               | 109-014224 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 1.5           | 109-014210 | N9MT11T3RC15     | NC40    | TiN   | K20F   | 3.25   | 1.5    | 3          |        | \$52.00 |
|               | 109-014225 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 2.0           | 109-014211 | N9MT11T3RC20     | NC40    | TiN   | K20F   | 3.75   | 1.5    | 3.5        | 11.11  | \$52.00 |
|               | 109-014226 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 2.5           | 109-014212 | N9MT11T3RC25     | NC40    | TiN   | K20F   | 4.25   | 1.5    | 4          |        | \$52.00 |
|               | 109-014227 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 3.0           | 109-014213 | N9MT11T3RC30     | NC40    | TiN   | K20F   | 4.75   | 1.4    | 4.4        |        | \$52.00 |
|               | 109-014228 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 1/64          | 109-014214 | N9MT11T3RC1/64   | NC40    | TiN   | K20F   | 0.086" | 0.059" | 0.0747"    |        | \$52.00 |
|               | 109-014229 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 1/32          | 109-014215 | N9MT11T3RC1/32   | NC40    | TiN   | K20F   | 0.101" | 0.059" | 0.090"     |        | \$52.00 |
|               | 109-014230 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 1/16          | 109-014216 | N9MT11T3RC1/16   | NC40    | TiN   | K20F   | 0.133" | 0.059" | 0.122"     | 0.437" | \$52.00 |
|               | 109-014231 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 3/32          | 109-014217 | N9MT11T3RC3/32   | NC40    | TiN   | K20F   | 0.164" | 0.059" | 0.153"     | 0.156" | \$52.00 |
|               | 109-014232 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |
| 1/8           | 109-014218 | N9MT11T3RC 1/8   | NC40    | TiN   | K20F   | 0.199" | 0.055" | 0.180"     |        | \$52.00 |
|               | 109-014233 |                  | NC9036  | DLC   |        |        |        |            |        | \$57.00 |





Designed for chamfering and countersinking with an indexable insert

## Chamfer Mill 45°

Benefits  
for  
You

- Ideal for Front and Back Chamfering.
- Smallest chamfer insert in the world.
- Smallest countersink diameter  $\phi 7\text{mm}$ .
- 4 times faster and up to 10 times higher feed rate than competitors.
- Dual relief angle insert, special edge honning and optimized coated.

### INSERTS



- NC2032: • AlTiN coating, very long tool life.  
• Each insert has 4 cutting edges.  
• For carbon steel, alloy steel, cast iron and hardened steel up to 56HRC.
- NC9071: • TiN coating, very sharp cutting edge produces excellent surface finish.  
• Each insert has 4 cutting edges.  
• For non-ferrous metal, aluminum, aluminum-alloy, brass, copper and stainless steel.

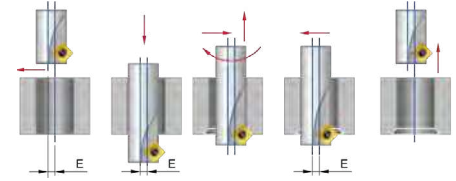
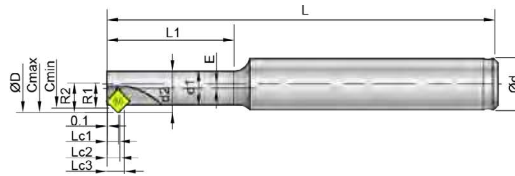


| Code       | Insert Parts No. | Coating | Grade | Dimensions |      |     | Screw              | Key   | PRICE   |
|------------|------------------|---------|-------|------------|------|-----|--------------------|-------|---------|
|            |                  |         |       | L          | S    | Re  |                    |       |         |
| 109-021401 | N9GX04T002       | NC2032  | AlTiN | 4.0        | 1.8  | 0.2 | *NS-18037<br>0.6Nm | NK-T6 | \$22.00 |
| 109-021402 |                  | NC9071  | TiN   |            |      |     |                    |       | \$22.00 |
| 109-023401 | N9GX060204       | NC2032  | AlTiN | 6.35       | 2.38 | 0.4 | *NS-22055<br>0.9Nm | NK-T7 | \$25.00 |
| 109-023402 |                  | NC9071  | TiN   |            |      |     |                    |       | \$25.00 |
| 109-025401 | N9GX090308       | NC2032  | AlTiN | 9.52       | 3.18 | 0.8 | NS-30072<br>2.0Nm  | NK-T9 | \$31.00 |
| 109-025402 |                  | NC9071  | TiN   |            |      |     |                    |       | \$31.00 |

\* Torque screwdriver is recommended.

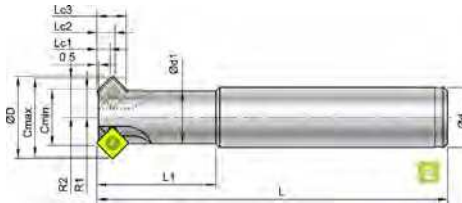
### HOLDERS

- Elliptical necked bar to optimize the tool strength.



| Code       | Holder Parts No. | Type         | Cmin $\phi$ | Cmax $\phi$ | $\phi d$ | $\phi d1$ | $\phi d2$ | $\phi D$ | R1   | R2  | L   | L1 | Lc1  | Lc2  | Lc3  | E    | $\phi z$ | insert<br>Screw/Key                       | PRICE    |
|------------|------------------|--------------|-------------|-------------|----------|-----------|-----------|----------|------|-----|-----|----|------|------|------|------|----------|-------------------------------------------|----------|
| 109-701003 | 00-99616-C02     | BC10-C02-80  | 6.8         | 8.8         | 10       | 5.25      | 6.5       | 9        | 3.4  | 4.4 | 80  | 20 | 2.56 | 2.93 | 3.93 | 1.25 | 1        | N9GX04T002<br>*NS-18037<br>0.6Nm<br>NK-T6 | \$385.00 |
| 109-701004 | 00-99616-C04     | BC12-C04-100 | 8.5         | 10.8        | 12       | 6.45      | 8         | 11.1     | 4.25 | 5.4 | 100 | 25 | 2.51 | 2.98 | 4.13 | 1.55 | 1        |                                           | \$385.00 |
| 109-701005 | 00-99616-C06     | BC12-C06-100 | 10.26       | 13.2        | 12       | 7.88      | 9.75      | 13.5     | 5.13 | 6.6 | 100 | 30 | 2.51 | 2.98 | 4.45 | 1.88 | 1        |                                           | \$385.00 |

\* Torque screwdriver is recommended.



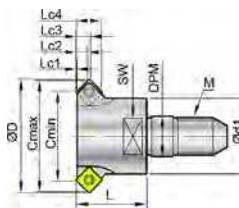
### HOLDERS

| Code       | Holder Parts No. | Type         | Cmin $\phi$ | Cmax $\phi$ | $\phi d$ | $\phi d1$ | $\phi D$ | R1  | R2   | L   | L1 | Lc1 | Lc2 | Lc3  | $\phi z$ | insert<br>Screw/Key                       | PRICE    |
|------------|------------------|--------------|-------------|-------------|----------|-----------|----------|-----|------|-----|----|-----|-----|------|----------|-------------------------------------------|----------|
| 109-701001 | 00-99616-C10     | BC10-C07-60  | 7           | 11          | 10       | 7.5       | 12       | 3.5 | 5.5  | 60  | 15 | 2.6 | 2.9 | 4.6  | 2        | N9GX04T002<br>*NS-18037<br>0.6Nm<br>NK-T6 | \$215.00 |
| 109-701002 | 00-99616-C20     | BC12-C11-100 | 11          | 16          | 12       | 9.6       | 16.15    | 5.5 | 8.0  | 100 | 25 | 2.6 | 2.9 | 5.0  | 4        |                                           | \$269.00 |
| 109-703001 | 00-99616-C30     | BC16-C15-120 | 15          | 21          | 16       | 14        | 22       | 7.5 | 10.5 | 120 | 40 | 3.5 | 4.9 | 7.9  | 4        | N9GX060204<br>*NS-22055<br>0.9Nm<br>NK-T7 | \$282.00 |
| 109-703002 | 00-99616-C40     | BC20-C19-130 | 19          | 25          | 20       | 18        | 26       | 9.5 | 12.5 | 130 | 50 | 3.5 | 4.9 | 7.9  | 4        |                                           | \$299.00 |
| 109-705001 | 00-99616-C50     | BC20-C22-130 | 22          | 32          | 20       | -         | 33       | 11  | 16   | 130 | -  | 5.5 | 7.1 | 12.1 | 4        | N9GX090308<br>NS-30072<br>2.0Nm<br>NK-T9  | \$315.00 |
| 109-705002 | 00-99616-C52     | BC25-C22-180 | 22          | 32          | 25       | 20        | 33       | 11  | 16   | 180 | 80 | 5.5 | 7.1 | 12.1 | 4        |                                           | \$345.00 |

\* Torque screwdriver is recommended.

# SCREW FIT CUTTER

>> See Shanks on Pages 14-15



| Code       | Holder Parts No.  | Type     | Cmin ø | Cmax ø | øD    | M   | SW | ød1 | DPM  | L  | Lc1  | Lc2  | Lc3  | Lc4  | øZ | insert<br>Screw/Key                    | PRICE    |
|------------|-------------------|----------|--------|--------|-------|-----|----|-----|------|----|------|------|------|------|----|----------------------------------------|----------|
| 109-721101 | 00-99616-CM16-M05 | M05-CM16 | 11     | 16     | 16.15 | M5  | 8  | 10  | 5.5  | 15 | 0.09 | 2.59 | 2.9  | 5.4  | 3  | N9GX04T002                             | \$299.00 |
| 109-721201 | 00-99616-CM20-M06 | M06-CM20 | 15     | 20     | 20.15 | M6  | 11 | 12  | 6.5  | 16 | 0.09 | 2.59 | 2.9  | 5.4  | 4  | *NS-18037                              | \$329.00 |
| 109-723301 | 00-99616-CM23-M08 | M08-CM23 | 19     | 23.5   | 24    | M8  | 14 | 16  | 8.5  | 19 | 0.16 | 2.41 | 3.08 | 5.33 | 4  | 0.6Nm / NK-T6                          | \$349.00 |
| 109-723401 | 00-99616-CM29-M10 | M10-CM29 | 23     | 29     | 30    | M10 | 18 | 20  | 10.5 | 17 | 0.54 | 3.54 | 4.87 | 7.87 | 4  | N9GX060204<br>*NS-22055<br>0.9Nm/NK-T7 | \$362.00 |

\* Torque screwdriver is recommended.

**STARTER  
Kit**



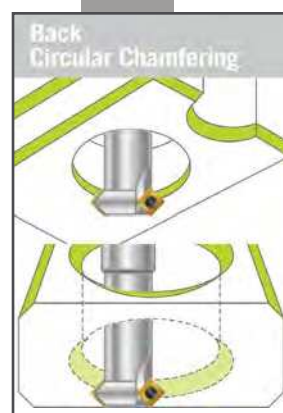
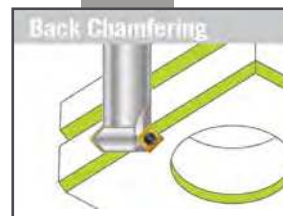
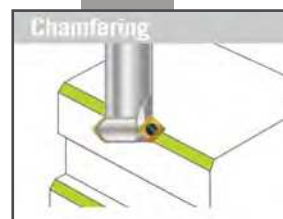
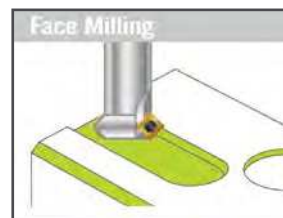
|   | Code            | Parts No.         | Insert Included   | Holder Included | Content                                         | PRICE    |
|---|-----------------|-------------------|-------------------|-----------------|-------------------------------------------------|----------|
| 1 | 109-701201-1401 | 00-99616-C1020-32 | N9GX04T002-NC2032 | 00-99616-C10    | 2 tool holders<br>+<br>10 inserts<br>+<br>1 key | \$670.00 |
|   | 109-701201-1402 | 00-99616-C1020-71 | N9GX04T002-NC9071 | 00-99616-C20    |                                                 | \$670.00 |
| 2 | 109-703201-3401 | 00-99616-C3040-32 | N9GX060204-NC2032 | 00-99616-C30    |                                                 | \$795.00 |
|   | 109-703201-3402 | 00-99616-C3040-71 | N9GX060204-NC9071 | 00-99616-C40    |                                                 | \$795.00 |
| 3 | 109-705201-5401 | 00-99616-C5052-32 | N9GX090308-NC2032 | 00-99616-C50    |                                                 | \$924.00 |
|   | 109-705201-5402 | 00-99616-C5052-71 | N9GX090308-NC9071 | 00-99616-C52    |                                                 | \$924.00 |

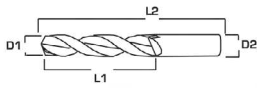
| Workpiece Material        |                      | Cutting Speed<br>VC<br>m/min. | Feed Rate mm / tooth  | Grade<br>of<br>Insert |
|---------------------------|----------------------|-------------------------------|-----------------------|-----------------------|
| Material Group            | Sample Code<br>(JIS) |                               | N9GX04T002            |                       |
|                           |                      |                               | Max. Chamfering 1.5mm |                       |
| Carbon steel C<0.3%       | SS400                | 60-80-120                     | 0.02 ~ 0.07           | NC9071                |
| Carbon steel C>0.3%       | S50C, P5             | 60-80-120                     | 0.02 ~ 0.07           | NC2032                |
| Low alloy steel C<0.3%    | SCM420               | 60-80-120                     | 0.01 ~ 0.04           | NC9071                |
| High alloy steel C>0.3%   | SKD11                | 60-80-120                     | 0.02 ~ 0.07           | NC2032                |
| Stainless steel           | SUS304               | 30-60-100                     | 0.01 ~ 0.04           | NC9071                |
| Cast iron                 | FC25                 | 60-80-120                     | 0.02 ~ 0.06           | NC2032                |
| Al, and non-ferrous metal | A6061                | 80-100-150                    | 0.03 ~ 0.10           | NC9071                |

**99616-C02, C04, C06  
CUTTING DATA**

**99616-C10~C52  
CUTTING DATA**

| Workpiece Material        |                      | Cutting Speed<br>VC<br>m/min. | Feed Rate mm / tooth        |                             |                           | Grade<br>of<br>Insert |
|---------------------------|----------------------|-------------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------|
| Material Group            | Sample Code<br>(JIS) |                               | N9GX04T002                  | N9GX060204                  | N9GX090308                |                       |
|                           |                      |                               | Max.<br>Chamfering<br>1.5mm | Max.<br>Chamfering<br>2.5mm | Max.<br>Chamfering<br>4mm |                       |
| Carbon steel C<0.3%       | SS400                | 150-250-350                   | 0.06~0.12                   | 0.10~0.25                   | 0.10~0.25                 | NC9071                |
| Carbon steel C>0.3%       | S50C, P5             | 200-300-400                   | 0.06~0.10                   | 0.10~0.20                   | 0.10~0.25                 | NC2032                |
| Low alloy steel C<0.3%    | SCM420               | 180-240-260                   | 0.06~0.10                   | 0.10~0.20                   | 0.10~0.20                 | NC9071                |
| High alloy steel C>0.3%   | SKD11                | 120-150-200                   | 0.06~0.10                   | 0.10~0.15                   | 0.10~0.15                 | NC2032                |
| Stainless steel           | SUS304               | 120-150-180                   | 0.06~0.10                   | 0.06~0.15                   | 0.10~0.20                 | NC9071                |
| Cast iron                 | FC25                 | 120-150-180                   | 0.06~0.10                   | 0.10~0.15                   | 0.10~0.20                 | NC2032                |
| Al, and non-ferrous metal | A6061                | 200-400-600                   | 0.06~0.15                   | 0.10~0.25                   | 0.10~0.25                 | NC9071                |
| Hardened steel<50 HRC     | SKD61                | 80-90-100                     | 0.06~0.10                   | 0.06~0.12                   | 0.10~0.15                 | NC2032                |





D1 - Cutting Diameter • L1 - Cutting Length  
D2 - Shank Diameter • L2 - Overall Length



UNCOATED

| Wire | D1     | L1    | D2     | L2    | 2 Flute      | PRICE          |
|------|--------|-------|--------|-------|--------------|----------------|
| #70  | 0.0280 | 5/16  | 0.0280 | 1-1/4 | 163-601-002* | <b>\$20.63</b> |
| #69  | 0.0292 | 5/16  | 0.0292 | 1-1/4 | 163-601-004* | <b>\$20.37</b> |
| #68  | 0.0310 | 5/16  | 0.0310 | 1-1/4 | 163-601-006* | <b>\$20.10</b> |
| ~    | 1/32   | 5/16  | 1/32   | 1-1/4 | 163-601-008* | <b>\$15.34</b> |
| #67  | 0.0320 | 5/16  | 0.0320 | 1-1/4 | 163-601-010* | <b>\$19.84</b> |
| #66  | 0.0330 | 5/16  | 0.0330 | 1-1/4 | 163-601-012* | <b>\$19.57</b> |
| #65  | 0.0350 | 5/8   | 0.0350 | 1-1/2 | 163-601-014* | <b>\$19.30</b> |
| #64  | 0.0360 | 5/8   | 0.0360 | 1-1/2 | 163-601-016* | <b>\$19.03</b> |
| #63  | 0.0370 | 5/8   | 0.0370 | 1-1/2 | 163-601-018* | <b>\$18.61</b> |
| #62  | 0.0380 | 5/8   | 0.0380 | 1-1/2 | 163-601-020* | <b>\$18.31</b> |
| #61  | 0.0390 | 5/8   | 0.0390 | 1-1/2 | 163-601-022* | <b>\$18.18</b> |
| ~    | 0.0394 | 5/8   | 0.0394 | 1-1/2 | 163-601-024* | <b>\$21.11</b> |
| #60  | 0.0400 | 3/4   | 0.0400 | 1-1/2 | 163-601-026* | <b>\$17.89</b> |
| #59  | 0.0410 | 3/4   | 0.0410 | 1-1/2 | 163-601-028* | <b>\$17.89</b> |
| #58  | 0.0420 | 3/4   | 0.0420 | 1-1/2 | 163-601-030* | <b>\$17.89</b> |
| #57  | 0.0430 | 3/4   | 0.0430 | 1-1/2 | 163-601-032* | <b>\$17.89</b> |
| #56  | 0.0465 | 3/4   | 0.0465 | 1-1/2 | 163-601-034* | <b>\$17.89</b> |
| ~    | 3/64   | 3/4   | 3/64   | 1-1/2 | 163-601-036* | <b>\$17.89</b> |
| #55  | 0.0520 | 3/4   | 0.0520 | 1-1/2 | 163-601-038* | <b>\$17.89</b> |
| #54  | 0.0550 | 3/4   | 0.0550 | 1-1/2 | 163-601-040* | <b>\$18.09</b> |
| ~    | 0.0591 | 3/4   | 0.0591 | 1-1/2 | 163-601-042* | <b>\$21.32</b> |
| #53  | 0.0595 | 3/4   | 0.0595 | 1-1/2 | 163-601-044* | <b>\$18.09</b> |
| ~    | 1/16   | 3/4   | 1/16   | 1-1/2 | 163-601-046  | <b>\$18.09</b> |
| #52  | 0.0635 | 3/4   | 0.0635 | 1-1/2 | 163-601-048  | <b>\$18.09</b> |
| #51  | 0.0670 | 3/4   | 0.0670 | 1-1/2 | 163-601-050  | <b>\$18.09</b> |
| #50  | 0.0700 | 7/8   | 0.0700 | 1-3/4 | 163-601-052  | <b>\$18.24</b> |
| #49  | 0.0730 | 7/8   | 0.0730 | 1-3/4 | 163-601-054  | <b>\$18.31</b> |
| #48  | 0.0760 | 7/8   | 0.0760 | 1-3/4 | 163-601-056  | <b>\$19.15</b> |
| ~    | 5/64   | 7/8   | 5/64   | 1-3/4 | 163-601-058  | <b>\$19.15</b> |
| #47  | 0.0785 | 7/8   | 0.0785 | 1-3/4 | 163-601-060  | <b>\$19.15</b> |
| ~    | 0.0787 | 7/8   | 0.0787 | 1-3/4 | 163-601-062  | <b>\$22.63</b> |
| #46  | 0.0810 | 7/8   | 0.0810 | 1-3/4 | 163-601-064  | <b>\$19.15</b> |
| #45  | 0.0820 | 7/8   | 0.0820 | 1-3/4 | 163-601-066  | <b>\$19.57</b> |
| #44  | 0.0860 | 1     | 0.0860 | 2     | 163-601-068  | <b>\$20.10</b> |
| #43  | 0.0890 | 1     | 0.0890 | 2     | 163-601-070  | <b>\$20.10</b> |
| #42  | 0.0935 | 1     | 0.0935 | 2     | 163-601-072  | <b>\$20.55</b> |
| ~    | 3/32   | 1     | 3/32   | 2     | 163-601-074  | <b>\$21.40</b> |
| #41  | 0.0960 | 1     | 0.0960 | 2     | 163-601-076  | <b>\$20.70</b> |
| #40  | 0.0980 | 1     | 0.0980 | 2     | 163-601-078  | <b>\$21.32</b> |
| ~    | 0.0984 | 1     | 0.0984 | 2     | 163-601-080  | <b>\$21.32</b> |
| #39  | 0.0995 | 1-1/4 | 0.0995 | 2-1/4 | 163-601-082  | <b>\$21.66</b> |
| #38  | 0.1015 | 1-1/4 | 0.1015 | 2-1/4 | 163-601-084  | <b>\$22.47</b> |
| #37  | 0.1040 | 1-1/4 | 0.1040 | 2-1/4 | 163-601-086  | <b>\$22.47</b> |
| #36  | 0.1065 | 1-1/4 | 0.1065 | 2-1/4 | 163-601-088  | <b>\$22.47</b> |
| ~    | 7/64   | 1-1/4 | 7/64   | 2-1/4 | 163-601-090  | <b>\$23.43</b> |
| #35  | 0.1100 | 1-1/4 | 0.1100 | 2-1/4 | 163-601-092  | <b>\$22.73</b> |
| #34  | 0.1110 | 1-1/4 | 0.1110 | 2-1/4 | 163-601-094  | <b>\$23.51</b> |
| #33  | 0.1130 | 1-1/4 | 0.1130 | 2-1/4 | 163-601-096  | <b>\$23.51</b> |
| #32  | 0.1160 | 1-1/4 | 0.1160 | 2-1/4 | 163-601-098  | <b>\$23.93</b> |
| ~    | 0.1181 | 1-1/4 | 0.1181 | 2-1/4 | 163-601-100  | <b>\$17.39</b> |

\* 135° Point

## SOLID CARBIDE JOBBER DRILLS

### 2 Flute - 118° Four Facet Point

Consider PowerA coatings to run more aggressive speeds and feeds!

ALSO AVAILABLE IN:  
**POWERA**  
APPEND "A" TO THE  
PART NUMBER FOR POWERA

Harder than our original TiAlN by 1000 HV and with an increase in thermal stability of 200°F (100°C), PowerA will ensure that heat buildup, friction, and edge breakdown are all greatly reduced, resulting in better cutting performance and longer tool life.  
**PowerA continues to be the coating of choice for tough-to-cut materials.**

\* Hardness: 3800 HV  
\* Coating Thickness: 2-4 Microns  
\* Thermal Stability: 1,650°F or 900°C



Cutting Edge Tolerance/Shank Tolerance  
+0.000 -0.002

UNCOATED

| Wire | D1     | L1    | D2     | L2    | 2 Flute     | PRICE          |
|------|--------|-------|--------|-------|-------------|----------------|
| #31  | 0.1200 | 1-1/4 | 0.1200 | 2-1/4 | 163-601-102 | <b>\$17.92</b> |
| ~    | 1/8    | 1-1/4 | 1/8    | 2-1/4 | 163-601-104 | <b>\$16.15</b> |
| #30  | 0.1285 | 1-3/8 | 0.1285 | 2-1/2 | 163-601-106 | <b>\$17.05</b> |
| #29  | 0.1360 | 1-3/8 | 0.1360 | 2-1/2 | 163-601-108 | <b>\$17.75</b> |
| ~    | 0.1378 | 1-3/8 | 0.1378 | 2-1/2 | 163-601-110 | <b>\$17.75</b> |
| #28  | 0.1405 | 1-3/8 | 0.1405 | 2-1/2 | 163-601-112 | <b>\$17.75</b> |
| ~    | 9/64   | 1-3/8 | 9/64   | 2-1/2 | 163-601-114 | <b>\$17.75</b> |
| #27  | 0.1440 | 1-3/8 | 0.1440 | 2-1/2 | 163-601-116 | <b>\$20.37</b> |
| #26  | 0.1470 | 1-3/8 | 0.1470 | 2-1/2 | 163-601-118 | <b>\$20.37</b> |
| #25  | 0.1495 | 1-3/8 | 0.1495 | 2-1/2 | 163-601-120 | <b>\$20.37</b> |
| #24  | 0.1520 | 1-3/8 | 0.1520 | 2-1/2 | 163-601-122 | <b>\$20.37</b> |
| #23  | 0.1540 | 1-3/8 | 0.1540 | 2-1/2 | 163-601-124 | <b>\$20.37</b> |
| ~    | 5/32   | 1-3/8 | 5/32   | 2-1/2 | 163-601-126 | <b>\$19.51</b> |
| #22  | 0.1570 | 1-3/8 | 0.1570 | 2-1/2 | 163-601-128 | <b>\$24.06</b> |
| ~    | 0.1575 | 1-3/8 | 0.1575 | 2-1/2 | 163-601-130 | <b>\$24.06</b> |
| #21  | 0.1590 | 1-3/8 | 0.1590 | 2-1/2 | 163-601-132 | <b>\$24.06</b> |
| #20  | 0.1610 | 1-3/8 | 0.1610 | 2-1/2 | 163-601-134 | <b>\$24.06</b> |
| #19  | 0.1660 | 1-5/8 | 0.1660 | 2-3/4 | 163-601-136 | <b>\$24.06</b> |
| #18  | 0.1695 | 1-5/8 | 0.1695 | 2-3/4 | 163-601-138 | <b>\$24.06</b> |
| ~    | 11/64  | 1-5/8 | 11/64  | 2-3/4 | 163-601-140 | <b>\$24.06</b> |
| #17  | 0.1730 | 1-5/8 | 0.1730 | 2-3/4 | 163-601-142 | <b>\$24.56</b> |
| #16  | 0.1770 | 1-5/8 | 0.1770 | 2-3/4 | 163-601-144 | <b>\$24.56</b> |
| ~    | 0.1772 | 1-5/8 | 0.1772 | 2-3/4 | 163-601-146 | <b>\$24.56</b> |
| #15  | 0.1800 | 1-5/8 | 0.1800 | 2-3/4 | 163-601-148 | <b>\$24.56</b> |
| #14  | 0.1820 | 1-5/8 | 0.1820 | 2-3/4 | 163-601-150 | <b>\$24.56</b> |
| #13  | 0.1850 | 1-5/8 | 0.1850 | 2-3/4 | 163-601-152 | <b>\$24.56</b> |
| ~    | 3/16   | 1-5/8 | 3/16   | 2-3/4 | 163-601-154 | <b>\$23.67</b> |
| #12  | 0.1890 | 1-5/8 | 0.1890 | 2-3/4 | 163-601-156 | <b>\$25.80</b> |
| #11  | 0.1910 | 1-5/8 | 0.1910 | 2-3/4 | 163-601-158 | <b>\$25.80</b> |
| #10  | 0.1935 | 1-5/8 | 0.1935 | 2-3/4 | 163-601-160 | <b>\$25.80</b> |
| #9   | 0.1960 | 1-3/4 | 0.1960 | 3     | 163-601-162 | <b>\$25.80</b> |
| ~    | 0.1968 | 1-3/4 | 0.1968 | 3     | 163-601-164 | <b>\$25.80</b> |
| #8   | 0.1990 | 1-3/4 | 0.1990 | 3     | 163-601-166 | <b>\$25.80</b> |
| #7   | 0.2010 | 1-3/4 | 0.2010 | 3     | 163-601-168 | <b>\$25.80</b> |
| ~    | 13/64  | 1-3/4 | 13/64  | 3     | 163-601-170 | <b>\$26.80</b> |
| #6   | 0.2040 | 1-3/4 | 0.2040 | 3     | 163-601-172 | <b>\$30.53</b> |
| #5   | 0.2055 | 1-3/4 | 0.2055 | 3     | 163-601-174 | <b>\$30.53</b> |
| #4   | 0.2090 | 1-3/4 | 0.2090 | 3     | 163-601-176 | <b>\$30.53</b> |
| #3   | 0.2130 | 1-3/4 | 0.2130 | 3     | 163-601-178 | <b>\$30.53</b> |
| ~    | 0.2165 | 1-3/4 | 0.2165 | 3     | 163-601-180 | <b>\$30.53</b> |
| ~    | 7/32   | 1-3/4 | 7/32   | 3     | 163-601-182 | <b>\$30.53</b> |
| #2   | 0.2210 | 1-3/4 | 0.2210 | 3     | 163-601-184 | <b>\$32.98</b> |
| #1   | 0.2280 | 1-3/4 | 0.2280 | 3     | 163-601-186 | <b>\$32.98</b> |
| A    | 0.2340 | 2     | 0.2340 | 3-1/4 | 163-601-188 | <b>\$32.98</b> |
| ~    | 15/64  | 2     | 15/64  | 3-1/4 | 163-601-190 | <b>\$32.98</b> |
| ~    | 0.2362 | 2     | 0.2362 | 3-1/4 | 163-601-192 | <b>\$36.85</b> |
| B    | 0.2380 | 2     | 0.2380 | 3-1/4 | 163-601-194 | <b>\$36.85</b> |
| C    | 0.2420 | 2     | 0.2420 | 3-1/4 | 163-601-196 | <b>\$36.85</b> |
| D    | 0.2460 | 2     | 0.2460 | 3-1/4 | 163-601-198 | <b>\$36.85</b> |
| E    | 1/4    | 2     | 1/4    | 3-1/4 | 163-601-200 | <b>\$34.43</b> |



| Wire | D1     | L1    | D2     | L2    | 2 Flute     | PRICE          |
|------|--------|-------|--------|-------|-------------|----------------|
| ~    | 0.2559 | 2     | 0.2559 | 3-1/4 | 163-601-202 | <b>\$40.90</b> |
| F    | 0.2570 | 2     | 0.2570 | 3-1/4 | 163-601-204 | <b>\$40.90</b> |
| G    | 0.2610 | 2-1/8 | 0.2610 | 3-1/2 | 163-601-206 | <b>\$40.90</b> |
| ~    | 17/64  | 2-1/8 | 17/64  | 3-1/2 | 163-601-208 | <b>\$38.76</b> |
| H    | 0.2660 | 2-1/8 | 0.2660 | 3-1/2 | 163-601-210 | <b>\$43.44</b> |
| I    | 0.2720 | 2-1/8 | 0.2720 | 3-1/2 | 163-601-212 | <b>\$44.57</b> |
| ~    | 0.2756 | 2-1/8 | 0.2756 | 3-1/2 | 163-601-214 | <b>\$44.57</b> |
| J    | 0.2770 | 2-1/8 | 0.2770 | 3-1/2 | 163-601-216 | <b>\$44.57</b> |
| K    | 0.2810 | 2-1/8 | 0.2810 | 3-1/2 | 163-601-218 | <b>\$44.57</b> |
| ~    | 9/32   | 2-1/8 | 9/32   | 3-1/2 | 163-601-220 | <b>\$42.86</b> |
| L    | 0.2900 | 2-1/8 | 0.2900 | 3-1/2 | 163-601-222 | <b>\$50.90</b> |
| M    | 0.2950 | 2-3/8 | 0.2950 | 4     | 163-601-224 | <b>\$50.90</b> |
| ~    | 0.2953 | 2-3/8 | 0.2953 | 4     | 163-601-226 | <b>\$50.90</b> |
| ~    | 19/64  | 2-3/8 | 19/64  | 4     | 163-601-228 | <b>\$46.27</b> |
| N    | 0.3020 | 2-3/8 | 0.3020 | 4     | 163-601-230 | <b>\$51.43</b> |
| ~    | 5/16   | 2-3/8 | 5/16   | 4     | 163-601-232 | <b>\$46.76</b> |
| ~    | 0.3150 | 2-3/8 | 0.3150 | 4     | 163-601-234 | <b>\$55.05</b> |
| O    | 0.3160 | 2-3/8 | 0.3160 | 4     | 163-601-236 | <b>\$56.51</b> |
| P    | 0.3230 | 2-3/8 | 0.3230 | 4     | 163-601-238 | <b>\$56.51</b> |
| ~    | 21/64  | 2-3/8 | 21/64  | 4     | 163-601-240 | <b>\$53.56</b> |
| Q    | 0.3320 | 2-3/8 | 0.3320 | 4     | 163-601-242 | <b>\$61.08</b> |
| ~    | 0.3346 | 2-3/8 | 0.3346 | 4     | 163-601-244 | <b>\$61.08</b> |
| R    | 0.3390 | 2-3/8 | 0.3390 | 4     | 163-601-246 | <b>\$61.08</b> |
| ~    | 11/32  | 2-3/8 | 11/32  | 4     | 163-601-248 | <b>\$55.31</b> |
| S    | 0.3480 | 2-3/8 | 0.3480 | 4     | 163-601-250 | <b>\$68.09</b> |
| ~    | 0.3543 | 2-3/4 | 0.3543 | 4-1/4 | 163-601-252 | <b>\$68.09</b> |
| T    | 0.3580 | 2-3/4 | 0.3580 | 4-1/4 | 163-601-254 | <b>\$68.09</b> |
| ~    | 23/64  | 2-3/4 | 23/64  | 4-1/4 | 163-601-256 | <b>\$63.67</b> |
| U    | 0.3680 | 2-3/4 | 0.3680 | 4-1/4 | 163-601-258 | <b>\$70.00</b> |
| ~    | 0.3740 | 2-3/4 | 0.3740 | 4-1/4 | 163-601-260 | <b>\$70.00</b> |

| Wire | D1     | L1    | D2     | L2    | 2 Flute     | PRICE           |
|------|--------|-------|--------|-------|-------------|-----------------|
| ~    | 3/8    | 2-3/4 | 3/8    | 4-1/4 | 163-601-262 | <b>\$63.44</b>  |
| V    | 0.3770 | 2-3/4 | 0.3770 | 4-1/4 | 163-601-264 | <b>\$81.41</b>  |
| W    | 0.3860 | 2-7/8 | 0.3860 | 4-1/2 | 163-601-266 | <b>\$81.41</b>  |
| ~    | 25/64  | 2-7/8 | 25/64  | 4-1/2 | 163-601-268 | <b>\$77.14</b>  |
| ~    | 0.3937 | 2-7/8 | 0.3937 | 4-1/2 | 163-601-270 | <b>\$90.20</b>  |
| X    | 0.3970 | 2-7/8 | 0.3970 | 4-1/2 | 163-601-272 | <b>\$90.20</b>  |
| Y    | 0.4040 | 2-7/8 | 0.4040 | 4-1/2 | 163-601-274 | <b>\$90.20</b>  |
| ~    | 13/32  | 2-7/8 | 13/32  | 4-1/2 | 163-601-276 | <b>\$82.18</b>  |
| Z    | 0.4130 | 2-7/8 | 0.4130 | 4-1/2 | 163-601-278 | <b>\$107.70</b> |
| ~    | 0.4134 | 2-7/8 | 0.4134 | 4-1/2 | 163-601-280 | <b>\$97.55</b>  |
| ~    | 27/64  | 2-7/8 | 27/64  | 4-1/2 | 163-601-282 | <b>\$97.55</b>  |
| ~    | 0.4331 | 2-7/8 | 0.4331 | 4-1/2 | 163-601-284 | <b>\$115.25</b> |
| ~    | 7/16   | 2-7/8 | 7/16   | 4-1/2 | 163-601-286 | <b>\$94.94</b>  |
| ~    | 0.4527 | 3     | 0.4527 | 4-3/4 | 163-601-288 | <b>\$119.14</b> |
| ~    | 29/64  | 3     | 29/64  | 4-3/4 | 163-601-290 | <b>\$119.14</b> |
| ~    | 15/32  | 3     | 15/32  | 4-3/4 | 163-601-292 | <b>\$113.39</b> |
| ~    | 0.4724 | 3     | 0.4724 | 4-3/4 | 163-601-294 | <b>\$133.64</b> |
| ~    | 31/64  | 3     | 31/64  | 4-3/4 | 163-601-296 | <b>\$133.64</b> |
| ~    | 0.4921 | 3     | 0.4921 | 4-3/4 | 163-601-298 | <b>\$135.47</b> |
| ~    | 1/2    | 3     | 1/2    | 4-3/4 | 163-601-300 | <b>\$123.56</b> |
| ~    | 17/32  | 4     | 17/32  | 6     | 163-601-302 | <b>\$205.98</b> |
| ~    | 9/16   | 4     | 9/16   | 6     | 163-601-304 | <b>\$227.58</b> |
| ~    | 19/32  | 4     | 19/32  | 6     | 163-601-306 | <b>\$252.49</b> |
| ~    | 5/8    | 4     | 5/8    | 6     | 163-601-308 | <b>\$264.33</b> |
| ~    | 21/32  | 4     | 21/32  | 6     | 163-601-310 | <b>\$291.09</b> |
| ~    | 11/16  | 4     | 11/16  | 6     | 163-601-312 | <b>\$300.15</b> |
| ~    | 23/32  | 4     | 23/32  | 6     | 163-601-314 | <b>\$328.57</b> |
| ~    | 3/4    | 4     | 3/4    | 6     | 163-601-316 | <b>\$357.38</b> |
| ~    | 7/8    | 4     | 7/8    | 6     | 163-601-320 | <b>\$419.18</b> |
| ~    | 1      | 4     | 1      | 6     | 163-601-322 | <b>\$448.33</b> |

| Standard Drill Recommendations  |           | Feed Rate (I.P.R.) |        |       |       |       |
|---------------------------------|-----------|--------------------|--------|-------|-------|-------|
| Material Group                  | Speed SFM | 1/16"              | 1/8"   | 1/4"  | 1/2"  | 3/4"  |
| Aluminum/ Aluminum Alloys       | 300-600   | 0.0008             | 0.003  | 0.007 | 0.012 | 0.015 |
| Aluminum Alloyed Si > 10%       | 150-400   | 0.0008             | 0.002  | 0.006 | 0.010 | 0.012 |
| Soft Cast Irons                 | 200-300   | 0.001              | 0.003  | 0.005 | 0.010 | 0.012 |
| Medium Cast Irons               | 125-225   | 0.001              | 0.003  | 0.005 | 0.008 | 0.010 |
| Malleable Cast Irons            | 65-200    | 0.0005             | 0.002  | 0.004 | 0.007 | 0.010 |
| Brass                           | 200-300   | 0.0007             | 0.002  | 0.003 | 0.004 | 0.006 |
| Bronze                          | 150-250   | 0.0007             | 0.002  | 0.003 | 0.004 | 0.006 |
| Coppers/ Copper Alloys          | 150-300   | 0.001              | 0.003  | 0.006 | 0.010 | 0.012 |
| Magnesium                       | 300-600   | 0.001              | 0.003  | 0.007 | 0.012 | 0.015 |
| Nickel Alloys                   | 75-200    | 0.001              | 0.003  | 0.005 | 0.009 | 0.012 |
| Free Machining Stainless Steels | 100-150   | 0.001              | 0.003  | 0.005 | 0.008 | 0.012 |
| Work Hardening Stainless Steels | 50-100    | 0.0005             | 0.002  | 0.004 | 0.006 | 0.010 |
| Low Carbon Steels               | 150-300   | 0.001              | 0.002  | 0.004 | 0.007 | 0.012 |
| Medium Carbon Steels            | 100-200   | 0.001              | 0.002  | 0.003 | 0.006 | 0.010 |
| High Tensile (35-40 Rc) Steels  | 75-150    | 0.001              | 0.002  | 0.003 | 0.004 | 0.005 |
| High Tensile (40-45 Rc) Steels  | 50-100    | 0.0007             | 0.001  | 0.002 | 0.003 | 0.004 |
| High Tensile (45 Rc+) Steels    | 25-75     | 0.0005             | 0.0007 | 0.001 | 0.002 | 0.003 |
| Tool Steels                     | 40-100    | 0.001              | 0.0015 | 0.003 | 0.005 | 0.008 |
| Soft Titanium                   | 80-125    | 0.001              | 0.002  | 0.004 | 0.006 | 0.010 |
| Titanium Alloys Hard Titanium   | 40-100    | 0.0007             | 0.001  | 0.002 | 0.005 | 0.008 |

| MasterCut Tool Corp. |                | 2 & 4 Flute  |               | 2 & 4 Flute   |                 |
|----------------------|----------------|--------------|---------------|---------------|-----------------|
| Diameter             | Overall Length | Flute Length | 2 Flute       | 4 Flute       | PRICE           |
| 1/8"                 | 1-1/2"         | 1/2"         | 163-214-002-1 | 163-214-302-1 | <b>\$18.58</b>  |
| 3/16"                | 2"             | 5/8"         | 163-214-004-1 | 163-214-304-1 | <b>\$27.15</b>  |
| 1/4"                 | 2-1/2"         | 3/4"         | 163-214-006-1 | 163-214-306-1 | <b>\$35.28</b>  |
| 5/16"                | 2-1/2"         | 7/8"         | 163-214-008-1 | 163-214-308-1 | <b>\$44.87</b>  |
| 3/8"                 | 2-1/2"         | 7/8"         | 163-214-010-1 | 163-214-310-1 | <b>\$54.07</b>  |
| 7/16"                | 2-1/2"         | 1"           | 163-214-012-1 | 163-214-312-1 | <b>\$74.76</b>  |
| 1/2"                 | 3"             | 1"           | 163-214-014-1 | 163-214-314-1 | <b>\$79.93</b>  |
| 5/8"                 | 3-1/2"         | 1-1/4"       | 163-214-016-1 | 163-214-316-1 | <b>\$172.35</b> |
| 3/4"                 | 4"             | 1-1/2"       | 163-214-018-1 | 163-214-318-1 | <b>\$244.57</b> |

## Straight Flute Drill Kit

Designed for both production and reparation drilling in high tensile strength materials.  
Suitable for drilling out broken drills, taps, bolts, screws, studs, weldments and more!

Problem Solver For:  
✓ Machinists  
✓ Maintenance Depts.  
✓ Mold & Die Makers  
✓ Mechanics  
✓ Installation Crews

**Micrograin Carbide Substrate**  
Capable of drilling up to 65RcH  
Excellent Heat & Wear Resistance  
Solid Construction

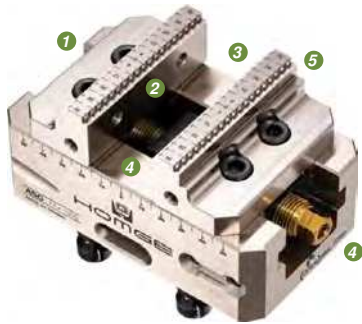


**KIT PRICE \$249.00**

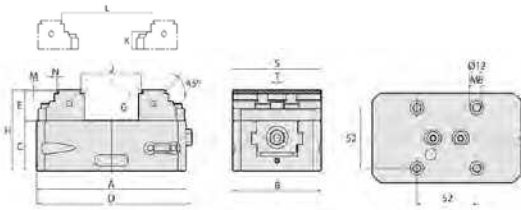


**INCLUDED IN SET (Part # 163-104-9767):**

| Diameter D1 | Length of Cut L1 | Shank Diameter D2 | Overall Length L2 | Uncoated 2 Flute | PRICE (ea)     |
|-------------|------------------|-------------------|-------------------|------------------|----------------|
| 1/8         | 5/8              | 1/8               | 1-1/2             | 163-604-004      | <b>\$23.35</b> |
| 3/16        | 5/8              | 3/16              | 2                 | 163-604-012      | <b>\$31.36</b> |
| 1/4         | 3/4              | 1/4               | 2                 | 163-604-020      | <b>\$45.01</b> |
| 5/16        | 3/4              | 5/16              | 2-1/2             | 163-604-028      | <b>\$62.80</b> |
| 3/8         | 1                | 3/8               | 2-1/2             | 163-604-036      | <b>\$86.40</b> |


**ASC-77x130S**  
**\$1,229.00** each

1. Vise body is made of **High quality Tool Steel**. The sideways are high frequency through hardened to 50 HRC for improved durability.
2. Detachable jaws are made of **High quality Tool Steel** carburized to **55HRC**. Since both jaws are fixed size they can be used as a datum. Users can reverse the jaws to increase the clamping range. **Four-bolt** fixation of the jaws eliminates jaw lift.
3. The vise's clamping force can achieve **1300KG**, the repeatability positioning precision of its clamping center is within **0.015mm**.
4. Users can calibrate the clamping center of vise by adjusting the screws on both ends.
5. The **45° dovetail structure with teeth** on the upper jaw ensures the bottom of the workpiece to be firmly clamped.


**ASC-127x160S**  
**\$1,553.00** each


**Buy a Vise & Base Plate**  
**TOGETHER for \$1,899.00!**

Includes 4 free pull studs (\$76.00 Value)

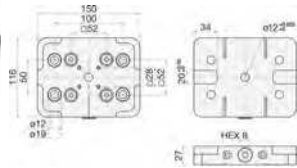
**Buy a Vise & Base Plate**  
**TOGETHER for \$2,799.00!**

Includes 4 free pull studs (\$92.00 Value)

## BASE PLATE


**M-52x52 (8001)**  
 Suitable for  
 ASC-77x102S  
 ASC-77x130S  
 ASC-77x130S4  
 ASC-77x170S  
 ASC-77x210S

- ◆ Features industry standard 52mm 4-pull stud clamping on a high quality steel plate.
- ◆ Has 4 holes for clamping master pallet to machine table, indexer or tombstone.

**\$812.00** each


## Pull Stud

**\$19.00** each

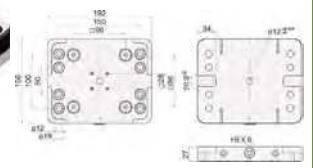
**M52PS**  
 ◆ 4 pcs/set

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 The NEW 2023 Catalog

## BASE PLATE


**M-96x96 (8051)**  
 Suitable for  
 ASC-127x160S  
 ASC-127x210S  
 ASC-127x260S  
 ASC-127x310S  
 ASC-127x360S

- ◆ Features industry standard 96mm 4-pull stud clamping on a high quality steel plate.
- ◆ Has 4 holes for clamping master pallet to machine table, indexer or tombstone.

**\$1,399.00** each


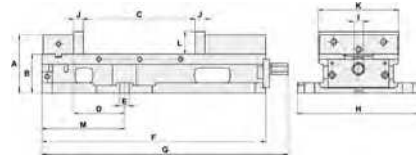
## Pull Stud

**\$23.00** each

**M96PS**  
 ◆ 4 pcs/set


## TV-6 & TV-8 Vises

Versatile machine vises with large opening capacity


**SPECIFICATIONS (Material: FCD 60 Ductile Iron. Hardness: HRC 50°)**

Unit: mm

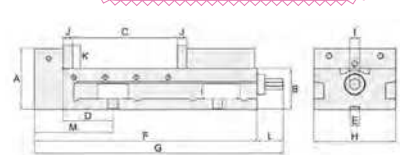
| Model                | A   | B  | C   | D   | E  | F   | G   | H   | I  |
|----------------------|-----|----|-----|-----|----|-----|-----|-----|----|
| TV-6" Super-Open 10" | 113 | 77 | 250 | 100 | 16 | 455 | 484 | 240 | 19 |
| TV-8" Super-Open 12" | 139 | 87 | 305 | 138 | 16 | 570 | 620 | 300 | 19 |

| Model                | J  | K   | L  | M   |  |  |  |  | Weight(kg) |
|----------------------|----|-----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
| TV-6" Super-Open 10" | 19 | 160 | 44 | 162 | 250                                                                                 | 329                                                                                 | 389                                                                                 | 468                                                                                 | 36         |
| TV-8" Super-Open 12" | 24 | 215 | 61 | 230 | 305                                                                                 | 419                                                                                 | 469                                                                                 | 583                                                                                 | 62         |

| Model | Price Each | 4 Piece Plus Price |
|-------|------------|--------------------|
| TV-6  | \$ 649     | \$ 799             |
| TV-8  | \$ 1,299   | \$ 1,449           |

## GH-6 & GH-8 Vises

Great value for the price!


 Versatile machine vise  
 which can be mounted  
 on its end, side or base.

**SPECIFICATIONS (Material: FCD 55 Ductile Iron. Hardness: HRC 50°)**

Unit: mm/inch

| Model                | A   | B  | C   | D   | E  | F   | G   | H   | I  | J  | K  | L  | M   | Weight(kg) |
|----------------------|-----|----|-----|-----|----|-----|-----|-----|----|----|----|----|-----|------------|
| GH-6" Super-Open 8"  | 115 | 77 | 205 | 95  | 18 | 425 | 475 | 156 | 19 | 18 | 44 | 50 | 150 | 30         |
| GH-8" Super-Open 12" | 148 | 88 | 300 | 100 | 18 | 560 | 610 | 202 | 19 | 18 | 63 | 50 | 175 | 60         |

| Model                |  |                               |  |                                  |  |                                  |  |                                  |
|----------------------|--------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
| GH-6" Super-Open 8"  | 205                                                                                  | 8 <sup>1</sup> / <sub>5</sub> | 273                                                                                   | 11 <sup>3</sup> / <sub>25</sub>  | 343                                                                                   | 13 <sup>18</sup> / <sub>25</sub> | 416                                                                                   | 16 <sup>16</sup> / <sub>25</sub> |
| GH-8" Super-Open 12" | 300                                                                                  | 12                            | 393                                                                                   | 15 <sup>18</sup> / <sub>25</sub> | 462                                                                                   | 18 <sup>12</sup> / <sub>25</sub> | 555                                                                                   | 22 <sup>1</sup> / <sub>5</sub>   |

| Model | Price Each | 4 Piece Plus Price |
|-------|------------|--------------------|
| GH-6  | \$699      | \$649              |
| GH-8  | \$1,399    | \$1,349            |





**PURCHASE A BAR AND  
A HEAD TO SUIT  
AND  
CHOOSE A 2ND HEAD  
FREE OF CHARGE!**

## Goodbye, vibrations!

Imagine a world without vibration. It would make your life easier, right? Eliminating vibration in machining completely is not possible. But with our machining tool holders, you can reduce vibration in machining substantially.

**Say hello to MAQ's self-tuning mass damper™.**

### MASS DAMPENING BORING BARS

feature a polymer based technology to instantly tune out vibration when boring at extended lengths. When the vibrations hit the polymer that supports the mass dampener inside the boring bar it changes its properties to tune out the vibration. The leading competitors feature an oil based system which over time breaks down or leaks making the bar less effective.

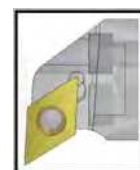
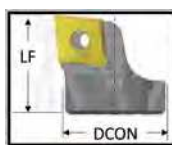


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OR

| EDP        | Description          | Diameter | Length | DCON | Price             |
|------------|----------------------|----------|--------|------|-------------------|
| 330-300040 | STMDI 1/2-5.7"       | 1/2"     | 5.7"   | SL12 | <b>\$923.77</b>   |
| 330-300041 | STMDI 5/8-6.7"       | 5/8"     | 6.7"   | SL16 | <b>\$1,210.21</b> |
| 330-300050 | STMDI 5/8-8.0"       | 5/8"     | 8.0"   | SL16 | <b>\$2,048.05</b> |
| 330-300042 | STMDI 3/4-7.9"       | 3/4"     | 7.9"   | SL20 | <b>\$1,414.30</b> |
| 330-300051 | STMDI 3/4-10.3"      | 3/4"     | 10.3"  | SL20 | <b>\$2,318.37</b> |
| 330-300043 | STMDI 1.00-10"       | 1"       | 10"    | SL25 | <b>\$1,480.54</b> |
| 330-300052 | STMDI 1.00-13.2"     | 1"       | 13.2"  | SL25 | <b>\$2,234.23</b> |
| 330-300044 | STMDI 1-1/4-12.6"    | 1-1/4"   | 12.6"  | SL32 | <b>\$1,510.97</b> |
| 330-300053 | STMDI 1-1/4-16.4"    | 1-1/4"   | 16.4"  | SL32 | <b>\$2,513.51</b> |
| 330-300045 | STMDI 1-1/2-16"      | 1-1/2"   | 16"    | SL40 | <b>\$2,560.06</b> |
| 330-300054 | STMDI 1-1/2-20.8"    | 1-1/2"   | 20.8"  | SL40 | <b>\$3,444.44</b> |
| 330-300046 | STMDI 2.00-20.4-SL40 | 2"       | 20.4"  | SL40 | <b>\$2,957.49</b> |
| 330-300055 | STMDI 2.00-26.0-SL40 | 2"       | 26.0"  | SL40 | <b>\$4,375.37</b> |

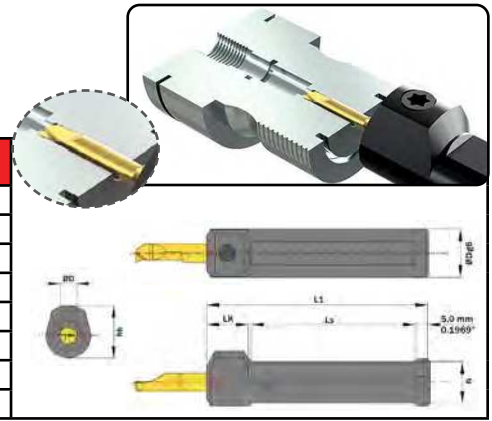


| DCON | DMIN     | LF (CCMT Dimn. in brackets) | CCMT Heads                    | Price           | DCMT Heads                   | Price           | TCMT Heads                   | Price           |
|------|----------|-----------------------------|-------------------------------|-----------------|------------------------------|-----------------|------------------------------|-----------------|
| SL12 | 0.629"   | 0.551" (0.565")             | SCLCR-12-1/2<br>330-300071    | <b>\$171.86</b> | SDUCR-12-1/2<br>330-300059   | <b>\$171.86</b> | STFCR-12-1 /2<br>330-300065  | <b>\$184.40</b> |
| SL16 | 0.790"   | 0.629" (0.605")             | SCLCR-16-5/8<br>330-300072    | <b>\$187.98</b> | SDUCR-16-5/8<br>330-300060   | <b>\$179.03</b> | STFCR-16-5/8<br>330-300066   | <b>\$191.56</b> |
| SL20 | 0.984"   | 0.790" (0.752")             | SCLCR-20-3/4<br>330-300073    | <b>\$198.72</b> | SDUCR-20-3/4<br>330-300061   | <b>\$187.98</b> | STFCR-20-3/4<br>330-300067   | <b>\$191.56</b> |
| SL25 | 1.259"   | 0.870" (0.830")             | SCLCR-25-1<br>330-300074      | <b>\$216.62</b> | SDUCR-25-1<br>330-300062     | <b>\$193.35</b> | STFCR-25-1<br>330-300068     | <b>\$198.72</b> |
| SL32 | 1.575"   | 1.062" (0.950")             | SCLCR-32-1-1 /4<br>330-300075 | <b>\$236.31</b> | SDUCR-32-1-1/4<br>330-300063 | <b>\$204.09</b> | STFCR-32-1-1/4<br>330-300069 | <b>\$204.09</b> |
| SL40 | 1.968" * | 1.260" (0.990")             | SCLCR-40-1-1/2<br>330-300196  | <b>\$393.86</b> | SDUCR-40-1-1/2<br>330-300064 | <b>\$236.31</b> | STFCR-40-1-1/2<br>330-300070 | <b>\$236.31</b> |

\* When used on 1-1/2" bar.

## HOLDERS

| Part Number | Description | Shank Size | L1     | Connectcode | ØDmm | PRICE           |
|-------------|-------------|------------|--------|-------------|------|-----------------|
| 282-AUQY    | A04.0.750T  | 3/4"       | 4.330" | A04T / 4mm  |      | <b>\$194.31</b> |
| 282-AUS8    | A05.0.750T  | 3/4"       | 4.330" | A05T / 5mm  |      | <b>\$198.00</b> |
| 282-AUTX    | A05.1.000T  | 1"         | 4.330" | A05T / 5mm  |      | <b>\$208.89</b> |
| 282-AUT6    | A06.0.750T  | 3/4"       | 4.330" | A06 / 6mm   |      | <b>\$196.11</b> |
| 282-AUUV    | A06.1.000T  | 1"         | 4.330" | A06 / 6mm   |      | <b>\$208.89</b> |
| 282-AUUY    | A07.0.750T  | 3/4"       | 4.330" | A07 / 7mm   |      | <b>\$196.11</b> |
| 282-AUVK    | A07.1.000T  | 1"         | 4.330" | A07 / 7mm   |      | <b>\$208.89</b> |
| 282-AUV5    | A08.1.000T  | 1"         | 4.330" | A08T / 8mm  |      | <b>\$236.43</b> |



## A04 INSERTS

### X800 Series

| Part Number | Description         | L2 Length | Ø Dmin. Min. Bore | Radius | PRICE          |
|-------------|---------------------|-----------|-------------------|--------|----------------|
| 282-AW9G    | A04.1C04.04.10.05YR | 4mm       | 1mm               | 0.05mm | <b>\$51.66</b> |
| 282-AW9H    | A04.1C04.06.10.05YR | 6mm       | 1mm               | 0.05mm | <b>\$53.55</b> |
| 282-AW3A    | A04.1C05.04.12.10YR | 5.1mm     | 1.2mm             | 0.1mm  | <b>\$45.90</b> |
| 282-AW3C    | A04.1C05.07.12.10YR | 7.1mm     | 1.2mm             | 0.1mm  | <b>\$49.14</b> |
| 282-AW3G    | A04.1C06.06.14.10YR | 6mm       | 1.4mm             | 0.1mm  | <b>\$42.30</b> |
| 282-AW3J    | A04.1C06.10.14.10YR | 10.2mm    | 1.4mm             | 0.1mm  | <b>\$44.01</b> |
| 282-AF0J    | A04.1C07.06.17.10YR | 6mm       | 1.7mm             | 0.1mm  | <b>\$41.58</b> |
| 282-ANYC    | A04.1C07.09.17.10YR | 9.1mm     | 1.7mm             | 0.1mm  | <b>\$42.66</b> |
| 282-AW3M    | A04.1C08.09.19.10YR | 9.1mm     | 1.9mm             | 0.1mm  | <b>\$41.58</b> |
| 282-AW3P    | A04.1C08.12.19.10YR | 12.2mm    | 1.9mm             | 0.1mm  | <b>\$45.00</b> |
| 282-ABCM    | A04.1C10.06.22.10YR | 6mm       | 2.2mm             | 0.1mm  | <b>\$41.58</b> |
| 282-ABD9    | A04.1C10.09.22.10YR | 9.1mm     | 2.2mm             | 0.1mm  | <b>\$42.84</b> |
| 282-AGGH    | A04.1C10.13.22.10YR | 13.2mm    | 2.2mm             | 0.1mm  | <b>\$43.92</b> |
| 282-AJ8J    | A04.1C12.10.27.15YR | 10.2mm    | 2.7mm             | 0.15mm | <b>\$42.57</b> |
| 282-AB8C    | A04.1C12.15.27.15YR | 15.2mm    | 2.7mm             | 0.15mm | <b>\$45.00</b> |
| 282-AW3S    | A04.1C14.15.30.15YR | 15.2mm    | 3mm               | 0.15mm | <b>\$49.77</b> |
| 282-AHQ2    | A04.1C14.20.30.15YR | 20.3mm    | 3mm               | 0.15mm | <b>\$52.74</b> |
| 282-AW9T    | A04.1C14.25.30.05YR | 25.4mm    | 3mm               | 0.05mm | <b>\$61.65</b> |
| 282-AG17    | A04.1C15.10.32.15YR | 10.2mm    | 3.2mm             | 0.15mm | <b>\$41.85</b> |
| 282-ABTG    | A04.1C15.15.32.15YR | 15.2mm    | 3.2mm             | 0.15mm | <b>\$46.71</b> |
| 282-AAVU    | A04.1C15.20.32.15YR | 20.3mm    | 3.2mm             | 0.15mm | <b>\$54.27</b> |
| 282-A2AD    | A04.1C15.25.32.15YR | 25.4mm    | 3.2mm             | 0.15mm | <b>\$56.34</b> |
| 282-ANJF    | A04.1C17.10.37.15YR | 10.2mm    | 3.7mm             | 0.15mm | <b>\$41.58</b> |
| 282-AHBD    | A04.1C17.15.37.15YR | 15.2mm    | 3.7mm             | 0.15mm | <b>\$45.00</b> |
| 282-AB5S    | A04.1C17.20.37.15YR | 20.3mm    | 3.7mm             | 0.15mm | <b>\$51.66</b> |
| 282-ANN5    | A04.1C17.25.37.10YR | 25.4mm    | 3.7mm             | 0.1mm  | <b>\$56.88</b> |
| 282-A2AE    | A04.1C17.30.37.10YR | 30.5mm    | 3.7mm             | 0.1mm  | <b>\$59.67</b> |
| 282-AEH9    | A04.1820.10.42.15YR | 10.2mm    | 4.2mm             | 0.15mm | <b>\$39.60</b> |
| 282-AHDX    | A04.1820.15.42.15YR | 15.2mm    | 4.2mm             | 0.15mm | <b>\$42.03</b> |
| 282-AM3K    | A04.1820.20.42.15YR | 20.3mm    | 4.2mm             | 0.15mm | <b>\$47.70</b> |
| 282-AJT1    | A04.1820.25.42.15YR | 25.4mm    | 4.2mm             | 0.15mm | <b>\$50.22</b> |
| 282-ASFY    | A04.1820.30.42.05YR | 30.5mm    | 4.2mm             | 0.05mm | <b>\$56.97</b> |
| 282-A2AF    | A04.1820.35.42.05YR | 35.6mm    | 4.2mm             | 0.05mm | <b>\$60.57</b> |

## A05 INSERTS

### X800 Series

| Part Number | Description         | L2 Length | Ø Dmin. Min. Bore | Radius | PRICE          |
|-------------|---------------------|-----------|-------------------|--------|----------------|
| 282-AXJC    | A05.1825.20.49.20YR | 20.3mm    | 4.9mm             | 0.2mm  | <b>\$50.31</b> |
| 282-AXJF    | A05.1825.25.49.20YR | 25.4mm    | 4.9mm             | 0.2mm  | <b>\$55.89</b> |
| 282-AXJK    | A05.1825.30.49.20YR | 30.5mm    | 4.9mm             | 0.2mm  | <b>\$66.42</b> |
| 282-AXJN    | A05.1825.35.49.20YR | 35.6mm    | 4.9mm             | 0.2mm  | <b>\$70.83</b> |
| 282-AXJQ    | A05.1825.40.40.20YR | 40.6mm    | 4.9mm             | 0.2mm  | <b>\$79.65</b> |
| 282-AFCW    | A05.1825.10.52.20YR | 10.2mm    | 5.2mm             | 0.2mm  | <b>\$35.10</b> |
| 282-AF4Y    | A05.1825.15.52.20YR | 15.2mm    | 5.2mm             | 0.2mm  | <b>\$37.26</b> |
| 282-AM8M    | A05.1825.20.52.20YR | 20.3mm    | 5.2mm             | 0.2mm  | <b>\$44.01</b> |
| 282-AFSB    | A05.1825.25.52.20YR | 25.4mm    | 5.2mm             | 0.2mm  | <b>\$49.41</b> |
| 282-AFY1    | A05.1825.30.52.20YR | 30.5mm    | 5.2mm             | 0.2mm  | <b>\$55.71</b> |
| 282-AND4    | A05.1825.35.52.20YR | 35.6mm    | 5.2mm             | 0.2mm  | <b>\$61.11</b> |
| 282-AMQK    | A05.1825.40.52.20YR | 40.6mm    | 5.2mm             | 0.2mm  | <b>\$70.20</b> |

## A06 INSERTS

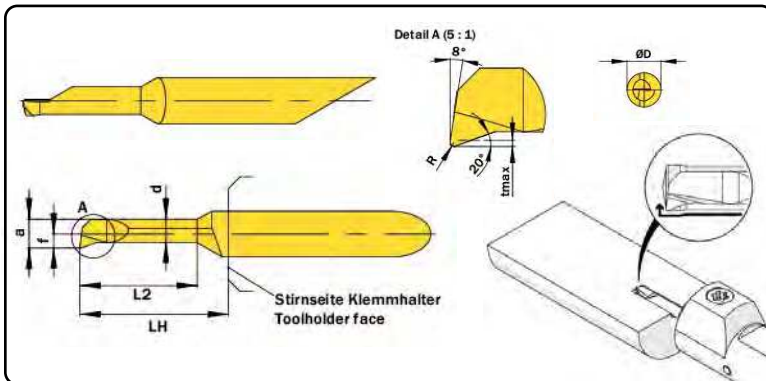
### X800 Series

| Part Number | Description         | L2 Length | Ø Dmin. Min. Bore | Radius | PRICE          |
|-------------|---------------------|-----------|-------------------|--------|----------------|
| 282-AXH6    | A06.1830.35.59.20YR | 35.6mm    | 5.9mm             | 0.2mm  | <b>\$71.55</b> |
| 282-AXH8    | A06.1830.40.59.20YR | 40.6mm    | 5.9mm             | 0.2mm  | <b>\$81.81</b> |
| 282-A2AG    | A06.1830.45.59.20YR | 45.7mm    | 5.9mm             | 0.2mm  | <b>\$85.32</b> |
| 282-AG74    | A06.1830.15.62.20YR | 15.2mm    | 6.2mm             | 0.2mm  | <b>\$37.80</b> |
| 282-AHDQ    | A06.1830.20.62.20YR | 20.3mm    | 6.2mm             | 0.2mm  | <b>\$44.55</b> |
| 282-AMJG    | A06.1830.25.62.20YR | 25.4mm    | 6.2mm             | 0.2mm  | <b>\$50.04</b> |
| 282-AFDC    | A06.1830.30.62.20YR | 30.5mm    | 6.2mm             | 0.2mm  | <b>\$56.34</b> |
| 282-ABT1    | A06.1830.35.62.20YR | 35.6mm    | 6.2mm             | 0.2mm  | <b>\$61.74</b> |
| 282-AC3S    | A06.1830.40.62.20YR | 40.6mm    | 6.2mm             | 0.2mm  | <b>\$70.83</b> |
| 282-A2AH    | A06.1830.50.62.20YR | 50.8mm    | 6.2mm             | 0.2mm  | <b>\$77.13</b> |

## A07 INSERTS

### X800 Series

| Part Number | Description         | L2 Length | Ø Dmin. Min. Bore | Radius | PRICE          |
|-------------|---------------------|-----------|-------------------|--------|----------------|
| 282-APJJ    | A07.1835.25.72.20YR | 25.4mm    | 7.2mm             | 0.2mm  | <b>\$53.64</b> |
| 282-AHXT    | A07.1835.30.72.20YR | 30.5mm    | 7.2mm             | 0.2mm  | <b>\$59.76</b> |
| 282-AMGJ    | A07.1835.35.72.20YR | 35.6mm    | 7.2mm             | 0.2mm  | <b>\$65.79</b> |
| 282-ABCQ    | A07.1835.40.72.20YR | 40.6mm    | 7.2mm             | 0.2mm  | <b>\$71.91</b> |
| 282-AMXA    | A07.1835.45.72.20YR | 45.7mm    | 7.2mm             | 0.2mm  | <b>\$78.03</b> |
| 282-AKWE    | A07.1835.50.72.20YR | 50.8mm    | 7.2mm             | 0.2mm  | <b>\$84.24</b> |
| 282-A2AJ    | A07.1835.60.72.20YR | 60.8mm    | 7.2mm             | 0.2mm  | <b>\$96.84</b> |



Very precise and strong tool system of solid carbide cutting insert and steel toolholders. High repeat accuracy from insert to insert and usable lengths up to 9xD! For best performance in bores as of Ø 0,3 mm (0.012").

BY

**SIMTEK**

NOW AVAILABLE!

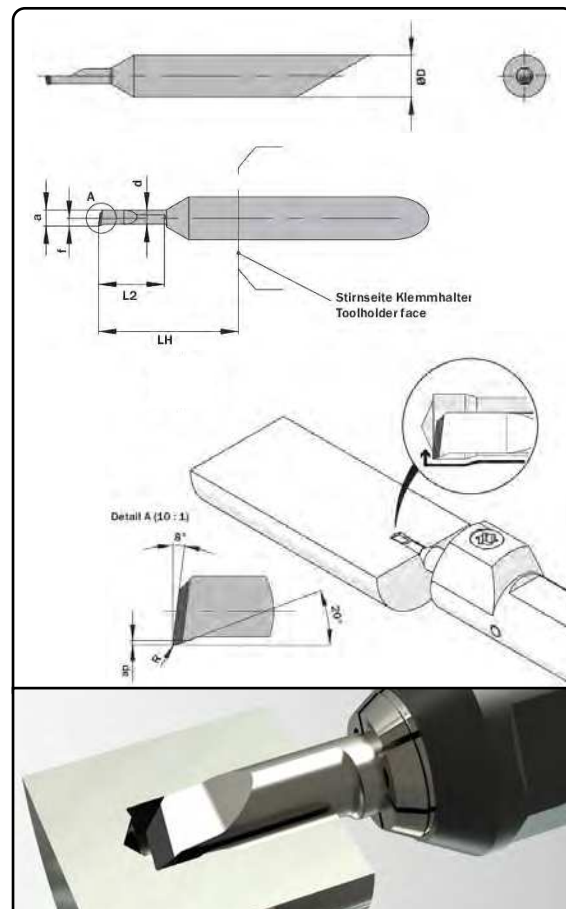
**GRADILUM**

HIGH PERFORMANCE GRADES

**GRADILUM X8****GRADILUM X4****NEW X800**  
Replaces  
**GN39****NEW X400**  
Replaces  
**GT45**Multilayer TiAlN + TiN Cover  
Application Specific Carbide  
Tight Coating Thickness ToleranceMultilayer TiAlN  
Application Specific Carbide  
Tight Coating Thickness Tolerance  
The grade for Stainless & Non-Ferrous metals**CBN TIPPED BORING INSERTS**

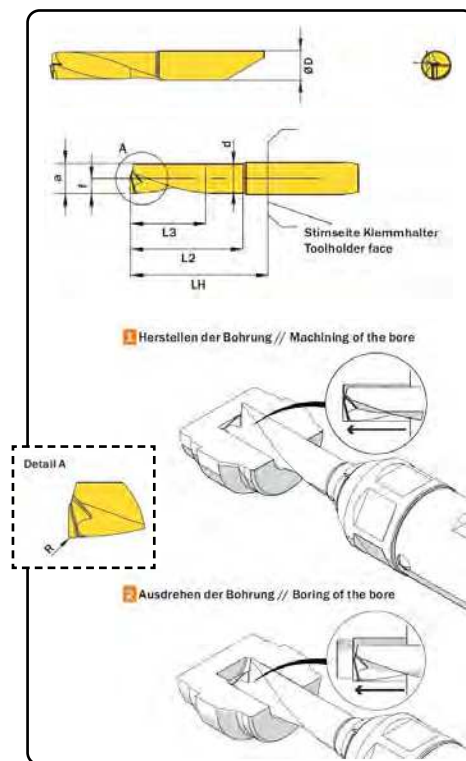
The **simturnAX** - boring inserts with SIMTEK CBN cutting grade for hard part turning applications are now also available for boring of bores starting with a minimum bore diameter of  $\varnothing D_{min} = 1.0$  mm. These tools are especially suitable for boring of bores in materials with HRC > 54, such as hardened steels. In combination with the **simturnAX** toolholders, excellent results are achieved even in materials that are difficult to machine.

| Part Number | Description          | L2 Length | $\varnothing D_{min}$ Min. Bore | Radius | Ap Max. mm | PRICE           |
|-------------|----------------------|-----------|---------------------------------|--------|------------|-----------------|
| 282-AG1U    | A04.1C07.06.17.10YUR | 6mm       | 1.7mm                           | 0.1mm  | 0.08       | <b>\$124.56</b> |
| 282-AHS2    | A04.1810.09.22.10YUR | 9.1mm     | 2.2mm                           | 0.1mm  | 0.11       | <b>\$118.80</b> |
| 282-AKDS    | A04.1812.10.27.15YUR | 10.2mm    | 2.7mm                           | 0.15mm | 0.13       | <b>\$103.59</b> |
| 282-AWK9    | A04.1812.15.27.15YUR | 15.2mm    | 2.7mm                           | 0.15mm | 0.13       | <b>\$107.46</b> |
| 282-ADD4    | A04.1815.10.32.15YUR | 10.2mm    | 3.2mm                           | 0.15mm | 0.16       | <b>\$105.75</b> |
| 282-AQ5Q    | A04.1815.20.32.15YUR | 20.3mm    | 3.2mm                           | 0.15mm | 0.16       | <b>\$115.29</b> |
| 282-ABVW    | A04.1817.15.37.15YUR | 15.2mm    | 3.7mm                           | 0.15mm | 0.18       | <b>\$106.20</b> |
| 282-AH9U    | A04.1820.10.42.15YUR | 10.2mm    | 4.2mm                           | 0.15mm | 0.21       | <b>\$103.50</b> |
| 282-AHVV    | A04.1820.20.42.15YUR | 20.3mm    | 4.2mm                           | 0.15mm | 0.21       | <b>\$115.38</b> |
| 282-AKJE    | A04.1820.25.42.15YUR | 25.4mm    | 4.2mm                           | 0.15mm | 0.21       | <b>\$117.72</b> |
| 282-AD1K    | A05.1825.15.52.20YUR | 15.2mm    | 5.2mm                           | 0.2mm  | 0.26       | <b>\$105.84</b> |
| 282-AA87    | A05.1825.25.52.20YUR | 25.4mm    | 5.2mm                           | 0.2mm  | 0.26       | <b>\$120.42</b> |
| 282-AJBN    | A05.1825.40.52.20YUR | 40.6mm    | 5.2mm                           | 0.2mm  | 0.26       | <b>\$142.47</b> |
| 282-ADEW    | A06.1830.15.62.20YUR | 15.2mm    | 6.2mm                           | 0.2mm  | 0.31       | <b>\$106.02</b> |
| 282-ACXE    | A06.1830.25.62.20YUR | 25.4mm    | 6.2mm                           | 0.2mm  | 0.31       | <b>\$121.50</b> |
| 282-AEJ9    | A06.1830.30.62.20YUR | 30.5mm    | 6.2mm                           | 0.2mm  | 0.31       | <b>\$128.25</b> |
| 282-AJ2Z    | A06.1830.40.62.20YUR | 40.6mm    | 6.2mm                           | 0.2mm  | 0.31       | <b>\$143.19</b> |
| 282-ABD2    | A07.1835.25.72.20YUR | 25.4mm    | 7.2mm                           | 0.2mm  | 0.36       | <b>\$128.61</b> |
| 282-ADK7    | A07.1835.35.72.20YUR | 36.6mm    | 7.2mm                           | 0.2mm  | 0.36       | <b>\$141.84</b> |
| 282-ADDS    | A07.1835.50.72.20YUR | 50.8mm    | 7.2mm                           | 0.2mm  | 0.36       | <b>\$160.47</b> |

**DRILLING & BORING INSERTS**

Simtek's Drilling & Boring inserts allow you to eliminate drills from your operations. These bars can drill into solid material within the DCMIN and DCMAX ranges. You can then use the same tools to then bore out those holes to the required size. Alternatively, you can use them to flat bottom pre-drilled holes.

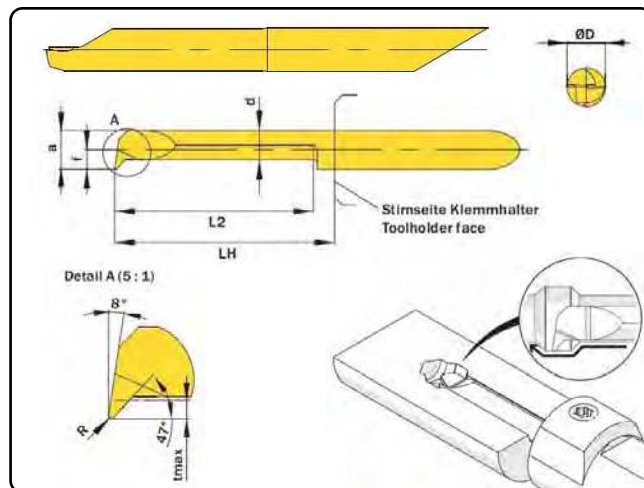
| Part Number | Description         | L2 Length | $\varnothing DC$ MIN | $\varnothing DC$ MAX | Max. Drilling Depth | Radius | $\varnothing D$ / Connect Code | PRICE           |
|-------------|---------------------|-----------|----------------------|----------------------|---------------------|--------|--------------------------------|-----------------|
| 282-A038    | A04.DB19.15.40.20YR | 15.2mm    | 3.7mm                | 4mm                  | 10mm                | 0.2mm  | 4mm/A04T                       | <b>\$103.86</b> |
| 282-A039    | A04.DB19.20.40.20YR | 20.3mm    | 3.7mm                | 4mm                  | 15mm                | 0.2mm  | 4mm/A04T                       | <b>\$106.83</b> |
| 282-A031    | A05.DB25.15.50.20YR | 15.2mm    | 4.7mm                | 5mm                  | 10mm                | 0.2mm  | 5mm/A05T                       | <b>\$106.02</b> |
| 282-A032    | A05.DB25.20.50.20YR | 20.3mm    | 4.7mm                | 5mm                  | 15mm                | 0.2mm  | 5mm/A05T                       | <b>\$110.70</b> |
| 282-A04K    | A05.DB25.25.50.20YR | 25.4mm    | 4.7mm                | 5mm                  | 20mm                | 0.2mm  | 5mm/A05T                       | <b>\$112.50</b> |
| 282-A033    | A06.DB29.15.60.20YR | 15.2mm    | 5.7mm                | 6mm                  | 10mm                | 0.2mm  | 6mm/A06T                       | <b>\$108.09</b> |
| 282-A034    | A06.DB29.20.60.20YR | 20.3mm    | 5.7mm                | 6mm                  | 15mm                | 0.2mm  | 6mm/A06T                       | <b>\$111.69</b> |
| 282-A04H    | A06.DB29.25.60.20YR | 25.4mm    | 5.7mm                | 6mm                  | 20mm                | 0.2mm  | 6mm/A06T                       | <b>\$114.66</b> |
| 282-A04J    | A06.DB29.30.60.20YR | 30.5mm    | 5.7mm                | 6mm                  | 25mm                | 0.2mm  | 6mm/A06T                       | <b>\$117.72</b> |
| 282-A035    | A07.DB34.20.70.20YR | 20.3mm    | 6.7mm                | 7mm                  | 15mm                | 0.2mm  | 7mm/A07T                       | <b>\$116.55</b> |
| 282-A036    | A07.DB34.25.70.20YR | 25.4mm    | 6.7mm                | 7mm                  | 20mm                | 0.2mm  | 7mm/A07T                       | <b>\$119.52</b> |
| 282-A037    | A07.DB34.30.70.20YR | 30.5mm    | 6.7mm                | 7mm                  | 25mm                | 0.2mm  | 7mm/A07T                       | <b>\$124.56</b> |
| 282-A06W    | A08.DB39.20.80.20YR | 20.3mm    | 7.7mm                | 8mm                  | 15mm                | 0.2mm  | 8mm/A08T                       | <b>\$118.98</b> |
| 282-A04F    | A08.DB39.25.80.20YR | 25.4mm    | 7.7mm                | 8mm                  | 20mm                | 0.2mm  | 8mm/A08T                       | <b>\$127.26</b> |
| 282-A04G    | A08.DB39.30.80.20YR | 30.5mm    | 7.7mm                | 8mm                  | 25mm                | 0.2mm  | 8mm/A08T                       | <b>\$130.14</b> |

**X800 Series**



Profiling bars for producing undercuts and thread reliefs.

| Part Number | Description         | L2 Length | Ø Dmin. Bore | Radius | tmax  | PRICE          |
|-------------|---------------------|-----------|--------------|--------|-------|----------------|
| 282-AEJJ    | A04.4710.10.22.10YR | 10.2mm    | 2.2mm        | 0.1mm  | 0.4mm | <b>\$40.23</b> |
| 282-ANTX    | A04.4712.15.27.10YR | 15.2mm    | 2.7mm        | 0.1mm  | 0.5mm | <b>\$42.93</b> |
| 282-ADSB    | A04.4715.15.32.10YR | 15.2mm    | 3.2mm        | 0.1mm  | 0.6mm | <b>\$43.02</b> |
| 282-AMFJ    | A04.4720.20.42.15YR | 20.3mm    | 4.2mm        | 0.15mm | 0.8mm | <b>\$40.14</b> |
| 282-AYD3    | A05.4725.15.52.15YR | 15.2mm    | 5.2mm        | 0.15mm | 1.0mm | <b>\$42.30</b> |
| 282-AEMF    | A05.4725.25.52.15YR | 25.4mm    | 5.2mm        | 0.15mm | 1.0mm | <b>\$47.25</b> |
| 282-AACY    | A06.4730.20.62.15YR | 20.3mm    | 6.2mm        | 0.15mm | 1.8mm | <b>\$42.30</b> |
| 282-AJ6F    | A06.4730.30.62.15YR | 30.5mm    | 6.2mm        | 0.15mm | 1.8mm | <b>\$53.64</b> |
| 282-AQ9E    | A07.4735.40.72.20YR | 40.6mm    | 7.2mm        | 0.2mm  | 2.5mm | <b>\$78.39</b> |

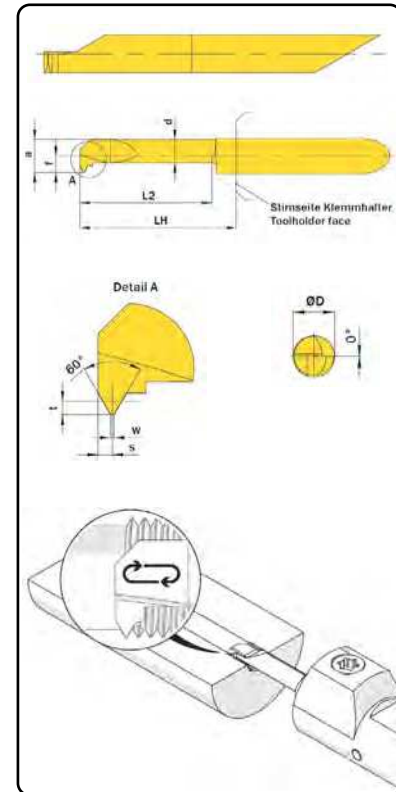


# SIMTEK PARTIAL PROFILE THREADING BARS

## X800 Series

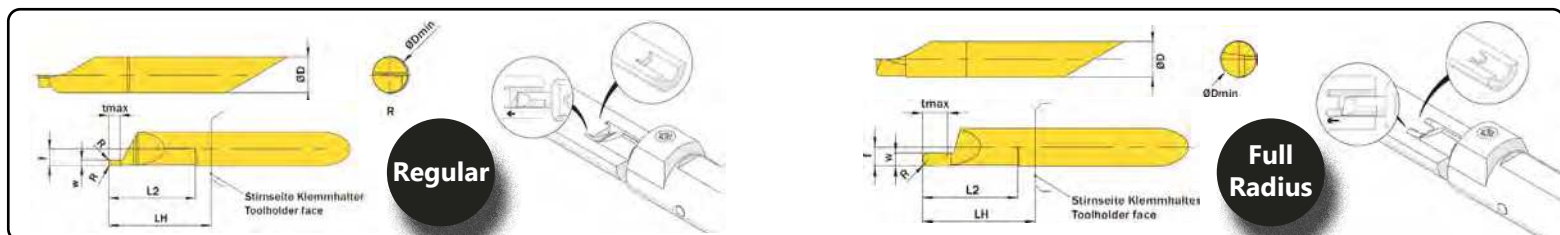
60° Partial profile threading bars for Metric and Unified threads.  
For threads as small as M2x0.4mm.

| Part Number | Description         | L2 Length | Pitch (From) mm | Pitch (To) mm | Pitch (From) TPI | Pitch (To) TPI | ØDmin. Min. Bore | ØD/ Connect Code | PRICE          |
|-------------|---------------------|-----------|-----------------|---------------|------------------|----------------|------------------|------------------|----------------|
| 282-AB5T    | A04.M040.01.05.15MR | 5.0mm     | 0.4             | -             | 64               | -              | 1.57mm           | 4mm/A04T         | <b>\$56.88</b> |
| 282-AH5G    | A04.M045.01.06.17MR | 6.0mm     | 0.45            | -             | 56               | -              | 1.71mm           | 4mm/A04T         | <b>\$56.61</b> |
| 282-ADAU    | A04.M050.01.07.24MR | 7.6mm     | 0.5             | -             | 48               | -              | 2.46mm           | 4mm/A04T         | <b>\$55.98</b> |
| 282-ABVG    | A04.M070.01.10.32MR | 10.2mm    | 0.7             | -             | 36               | -              | 3.24mm           | 4mm/A04T         | <b>\$56.43</b> |
| 282-A05G    | A04.M070.01.15.32MR | 15.2mm    | 0.7             | -             | 36               | -              | 3.24mm           | 4mm/A04T         | <b>\$60.48</b> |
| 282-AW95    | A04.MT08.01.15.39MR | 15.2mm    | 0.8             | 1.0           | 32               | 24             | 3.9mm            | 4mm/A04T         | <b>\$42.66</b> |
| 282-AD6S    | A04.MT05.01.15.42MR | 15.2mm    | 0.5             | 0.7           | 48               | 36             | 4.2mm            | 4mm/A04T         | <b>\$44.73</b> |
| 282-AJA0    | A05.MT10.01.15.48MR | 15.2mm    | 1.0             | 1.25          | 24               | 20             | 4.8mm            | 5mm/A05T         | <b>\$43.56</b> |
| 282-AC5K    | A05.MT10.01.20.48MR | 20.3mm    | 1.0             | 1.25          | 24               | 20             | 4.8mm            | 5mm/A05T         | <b>\$49.95</b> |
| 282-AH4D    | A05.MT10.01.25.48MR | 25.4mm    | 1.0             | 1.25          | 24               | 20             | 4.8mm            | 5mm/A05T         | <b>\$57.69</b> |
| 282-APGS    | A05.MT07.01.15.51MR | 15.2mm    | 0.75            | 1.0           | 32               | 24             | 5.1mm            | 5mm/A05T         | <b>\$43.56</b> |
| 282-AE44    | A05.MT05.01.15.52MR | 15.2mm    | 0.5             | 0.75          | 48               | 32             | 5.2mm            | 5mm/A05T         | <b>\$43.56</b> |
| 282-AAT9    | A06.MT10.01.15.62MR | 15.2mm    | 1.0             | 1.25          | 24               | 20             | 6.2mm            | 6mm/A06T         | <b>\$43.74</b> |
| 282-AG92    | A06.MT12.01.15.62MR | 15.2mm    | 1.25            | 1.5           | 20               | 18             | 6.2mm            | 6mm/A06T         | <b>\$44.55</b> |
| 282-ABDJ    | A06.MT12.01.20.62MR | 20.3mm    | 1.25            | 1.5           | 20               | 18             | 6.2mm            | 6mm/A06T         | <b>\$51.12</b> |
| 282-ABY1    | A06.MT12.01.25.62MR | 25.4mm    | 1.25            | 1.5           | 20               | 18             | 6.2mm            | 6mm/A06T         | <b>\$57.15</b> |
| 282-AHZW    | A06.MT15.01.15.62MR | 15.2mm    | 1.5             | 1.75          | 18               | 14             | 6.2mm            | 6mm/A06T         | <b>\$44.55</b> |
| 282-AACA    | A06.MT15.01.25.62MR | 25.4mm    | 1.5             | 1.75          | 18               | 14             | 6.2mm            | 6mm/A06T         | <b>\$57.15</b> |

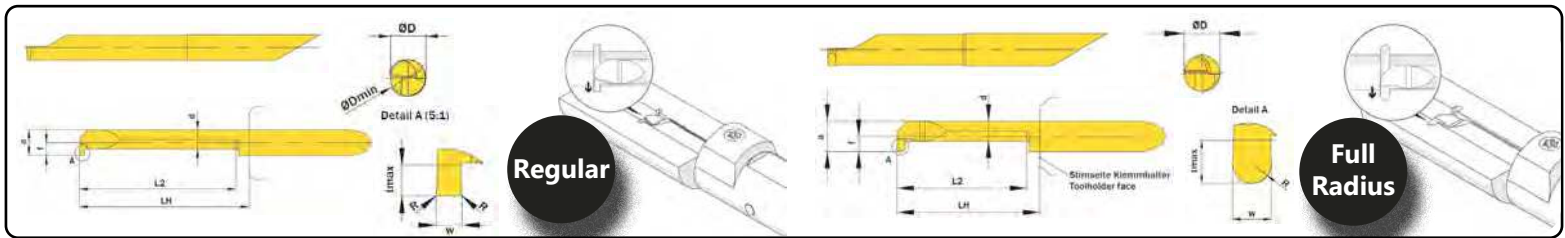


# SIMTEK SQUARE ENDED & FULL RADIUS FACE-GROOVING INSERTS

## X800 Series



| Width mm +0.05 | L2 Length mm | ØDmin. Min. Bore | Tmax mm | ØD/ Connect Code | Regular Grooving Inserts |                   |                | Full Radius Grooving Inserts |                   |        |                |
|----------------|--------------|------------------|---------|------------------|--------------------------|-------------------|----------------|------------------------------|-------------------|--------|----------------|
|                |              |                  |         |                  | Part Number              | Description       | PRICE          | Part Number                  | Description       | Radius | PRICE          |
| 1.0            | 15.2         | 6.2mm            | 2.0     | 5mm/A05T         | 282-AB01                 | A06.0100.15.01AGR | <b>\$57.96</b> | 282-AE1C                     | A06.0100.15.01AVR | 0.5mm  | <b>\$59.04</b> |
| 1.5/1.6        | 15.2         | 6.2mm            | 3.0     | 5mm/A05T         | 282-AMN7                 | A06.0150.15.01AGR | <b>\$57.96</b> | 282-AJPQ                     | A06.0160.15.01AVR | 0.8mm  | <b>\$59.85</b> |
| 2.0            | 15.2         | 6.2mm            | 4.0     | 5mm/A05T         | 282-AJ67                 | A06.0200.15.01AGR | <b>\$57.96</b> | 282-AB30                     | A06.0200.15.01AVR | 1.0mm  | <b>\$59.22</b> |
| 2.5            | 15.2         | 6.2mm            | 5.0     | 5mm/A05T         | 282-AHG4                 | A06.0250.15.01AGR | <b>\$57.96</b> | 282-AAE4                     | A06.0250.15.01AVR | 1.25mm | <b>\$61.11</b> |
| 3.0            | 20.3         | 6.2mm            | 6.0     | 5mm/A05T         | 282-ABX0                 | A06.0300.15.01AGR | <b>\$57.96</b> | 282-AF07                     | A06.0300.15.01AVR | 1.5mm  | <b>\$59.94</b> |



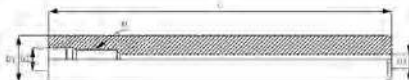
| Width<br>mm<br>+0.03 | L2<br>Length<br>mm | ØDmin.<br>Min. Bore | Tmax<br>mm | ØD/<br>Connect<br>Code | Regular Grooving Inserts |                  |                | Full Radius Grooving Inserts |                  |         |                |
|----------------------|--------------------|---------------------|------------|------------------------|--------------------------|------------------|----------------|------------------------------|------------------|---------|----------------|
|                      |                    |                     |            |                        | Part<br>Number           | Description      | PRICE          | Part<br>Number               | Description      | Radius  | PRICE          |
| 0.5                  | 9.1                | 2.0mm               | 0.4        | 4mm/A04T               | 282-AG6V                 | A04.C050.09.20GR | <b>\$49.14</b> |                              |                  |         |                |
| 0.7                  | 12.2               | 3.0mm               | 0.6        | 4mm/A04T               | 282-ACKP                 | A04.C070.12.30GR | <b>\$50.58</b> |                              |                  |         |                |
| 0.79                 | 15.2               | 4.2mm               | 0.8        | 4mm/A04T               | 282-AJGY                 | A04.0078.15.42GR | <b>\$47.07</b> |                              |                  |         |                |
| 1.0                  | 15.2               | 4.2mm               | 0.8        | 4mm/A04T               | 282-AAQT                 | A04.0100.15.42GR | <b>\$45.18</b> | 282-AC9G                     | A04.0100.15.42VR | 0.5mm   | <b>\$47.70</b> |
| 1.17                 | 15.2               | 4.2mm               | 0.8        | 4mm/A04T               |                          |                  |                | 282-AG4M                     | A04.0117.15.42VR | 0.585mm | <b>\$47.07</b> |
| 0.79                 | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-ANXZ                 | A05.0078.20.52GR | <b>\$50.58</b> |                              |                  |         |                |
| 1.0                  | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-AAXA                 | A05.0100.20.52GR | <b>\$49.77</b> | 282-AHPY                     | A05.0100.20.52VR | 0.5mm   | <b>\$48.33</b> |
| 1.17                 | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-AF9G                 | A05.0117.20.52GR | <b>\$48.78</b> | 282-AGGW                     | A05.0117.20.52VR | 0.585mm | <b>\$50.04</b> |
| 1.5                  | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-AH57                 | A05.0150.20.52GR | <b>\$51.66</b> | 282-AA2S                     | A05.0150.20.52VR | 0.75mm  | <b>\$49.68</b> |
| 1.574                | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-AE6P                 | A05.0157.20.52GR | <b>\$48.78</b> | 282-AM8X                     | A05.0157.20.52VR | 0.787mm | <b>\$50.13</b> |
| 1.626                | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               |                          |                  |                | 282-AT8E                     | A05.0163.20.52VR | 0.813mm | <b>\$50.13</b> |
| 1.98                 | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-ACFG                 | A05.0198.20.52GR | <b>\$51.84</b> | 282-AT8G                     | A05.0198.20.52VR | 0.99mm  | <b>\$47.25</b> |
| 2.0                  | 20.3               | 5.2mm               | 1.0        | 5mm/A05T               | 282-AHTZ                 | A05.0200.20.52GR | <b>\$48.78</b> | 282-AK1U                     | A05.0200.20.52VR | 1.0mm   | <b>\$49.32</b> |
| 1.0                  | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               | 282-AJXT                 | A06.0100.25.62GR | <b>\$55.62</b> | 282-AKUZ                     | A06.0100.25.62VR | 0.5mm   | <b>\$54.90</b> |
| 1.17                 | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               | 282-AC61                 | A06.0117.25.62GR | <b>\$52.65</b> | 282-AKMZ                     | A06.0117.25.62VR | 0.585mm | <b>\$48.51</b> |
| 1.5                  | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               | 282-AFHV                 | A06.0150.25.62GR | <b>\$55.62</b> | 282-AD22                     | A06.0150.25.62VR | 0.75mm  | <b>\$56.16</b> |
| 1.574                | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               | 282-AJFE                 | A06.0157.25.62GR | <b>\$59.13</b> | 282-APSG                     | A06.0157.25.62VR | 0.787mm | <b>\$50.85</b> |
| 1.626                | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               |                          |                  |                | 282-AT8J                     | A06.0163.25.62VR | 0.813mm | <b>\$45.09</b> |
| 1.98                 | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               | 282-AJAX                 | A06.0198.25.62GR | <b>\$54.72</b> | 282-AT8M                     | A06.0198.25.62VR | 0.99mm  | <b>\$46.80</b> |
| 2.0                  | 20.3               | 6.2mm               | 1.8        | 6mm/A06T               | 282-AB0S                 | A06.0200.20.62GR | <b>\$49.95</b> | 282-AMVK                     | A06.0200.20.62VR | 1.0mm   | <b>\$56.43</b> |
| 2.0                  | 25.4               | 6.2mm               | 1.8        | 6mm/A06T               | 282-APT6                 | A06.0200.25.62GR | <b>\$56.61</b> | 282-AH3S                     | A06.0200.25.62VR | 1.0mm   | <b>\$56.88</b> |
| 1.0                  | 30.5               | 7.2mm               | 2.5        | 7mm/A07T               | 282-AA78                 | A07.0100.30.72GR | <b>\$64.89</b> | 282-AMUA                     | A07.0100.30.72VR | 0.5mm   | <b>\$66.60</b> |
| 1.17                 | 30.5               | 7.2mm               | 2.5        | 7mm/A07T               | 282-AKKW                 | A07.0117.30.72GR | <b>\$67.68</b> | 282-ABU4                     | A07.0117.30.72VR | 0.585mm | <b>\$68.13</b> |
| 1.5                  | 30.5               | 7.2mm               | 2.5        | 7mm/A07T               | 282-ACNN                 | A07.0150.30.72GR | <b>\$64.71</b> | 282-AJX4                     | A07.0150.30.72VR | 0.75mm  | <b>\$67.23</b> |
| 1.574                | 30.5               | 7.2mm               | 2.5        | 7mm/A07T               | 282-ABPX                 | A07.0157.30.72GR | <b>\$66.96</b> | 282-AG9X                     | A07.0157.30.72VR | 0.787mm | <b>\$68.94</b> |
| 1.98                 | 30.5               | 7.2mm               | 2.5        | 7mm/A07T               | 282-AJQG                 | A07.0198.30.72GR | <b>\$66.96</b> | 282-AT8S                     | A07.0198.30.72VR | 0.99mm  | <b>\$68.94</b> |
| 2.0                  | 30.5               | 7.2mm               | 2.5        | 7mm/A07T               | 282-AHQQ                 | A07.0200.30.72GR | <b>\$64.71</b> | 282-ACTT                     | A07.0200.30.72VR | 1.0mm   | <b>\$66.33</b> |

| CCMT Non-Coolant Boring Bars | Caliber EDP#                                                | Description     | Shank Ø | Length | Kit Price |
|------------------------------|-------------------------------------------------------------|-----------------|---------|--------|-----------|
|                              | 329-IS05KSCLCR2B                                            | IS05K-SCLCR-2-B | 5/16"   | 5"     | \$122.00  |
|                              | c/w 10pcs 336-CCMT-060204-MK-CP6025 Positive Turning Insert |                 |         |        |           |
|                              | 329-IS06KSCLCR2B                                            | IS06K-SCLCR-2-B | 3/8"    | 5"     | \$126.00  |
|                              | c/w 10pcs 336-CCMT-060204-MK-CP6025 Positive Turning Insert |                 |         |        |           |
|                              | 329-IS08MSCLCR2                                             | IS08M-SCLCR-2   | 1/2"    | 6"     | \$132.00  |
|                              | c/w 10pcs 336-CCMT-060204-MK-CP6025 Positive Turning Insert |                 |         |        |           |
|                              | 329-IS08MSCLCR3                                             | IS08M-SCLCR-3   | 1/2"    | 6"     | \$135.00  |
|                              | c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert |                 |         |        |           |
|                              | 329-IS10QSCLCR3B                                            | IS10Q-SCLCR-3B  | 5/8"    | 7"     | \$146.00  |
|                              | c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert |                 |         |        |           |
|                              | 329-IS12RSCLCR3                                             | IS12R-SCLCR-3   | 3/4"    | 8"     | \$153.00  |
|                              | c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert |                 |         |        |           |
|                              | 329-IS16RSCLCR3                                             | IS16R-SCLCR-3   | 1"      | 8"     | \$165.00  |
|                              | c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert |                 |         |        |           |



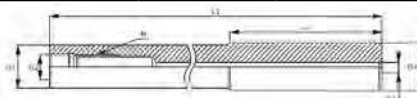
**For Steel Application**

## METRIC Carbide Screw-on Shanks - Straight



| EDP Number  | Description   | Thread | Length | Shank | Price             |
|-------------|---------------|--------|--------|-------|-------------------|
| 317-500-107 | CSS10-M06-75  | M6     | 75mm   | 10mm  | <b>\$136.13</b>   |
| 317-500-108 | CSS10-M06-100 | M6     | 100mm  | 10mm  | <b>\$130.50</b>   |
| 317-500-109 | CSS10-M06-125 | M6     | 125mm  | 10mm  | <b>\$169.89</b>   |
| 317-500-110 | CSS10-M06-150 | M6     | 150mm  | 10mm  | <b>\$163.12</b>   |
| 317-500-111 | CSS12-M06-75  | M6     | 75mm   | 12mm  | <b>\$138.38</b>   |
| 317-500-112 | CSS12-M06-100 | M6     | 100mm  | 12mm  | <b>\$132.73</b>   |
| 317-500-113 | CSS12-M06-125 | M6     | 125mm  | 12mm  | <b>\$200.25</b>   |
| 317-500-114 | CSS12-M06-150 | M6     | 150mm  | 12mm  | <b>\$193.51</b>   |
| 317-500-115 | CSS16-M08-100 | M8     | 100mm  | 16mm  | <b>\$229.50</b>   |
| 317-500-116 | CSS16-M08-150 | M8     | 150mm  | 16mm  | <b>\$264.38</b>   |
| 317-500-117 | CSS16-M08-200 | M8     | 200mm  | 16mm  | <b>\$351.01</b>   |
| 317-500-118 | CSS20-M10-150 | M10    | 150mm  | 20mm  | <b>\$294.74</b>   |
| 317-500-119 | CSS20-M10-200 | M10    | 200mm  | 20mm  | <b>\$533.26</b>   |
| 317-500-120 | CSS20-M10-250 | M10    | 250mm  | 20mm  | <b>\$630.01</b>   |
| 317-500-121 | CSS25-M12-150 | M12    | 150mm  | 25mm  | <b>\$569.25</b>   |
| 317-500-122 | CSS25-M12-200 | M12    | 200mm  | 25mm  | <b>\$736.86</b>   |
| 317-500-123 | CSS25-M12-250 | M12    | 250mm  | 25mm  | <b>\$874.13</b>   |
| 317-500-124 | CSS25-M12-300 | M12    | 300mm  | 25mm  | <b>\$1,041.76</b> |
| 317-500-125 | CSS32-M16-200 | M16    | 200mm  | 32mm  | <b>\$1,051.85</b> |
| 317-500-126 | CSS32-M16-250 | M16    | 250mm  | 32mm  | <b>\$1,356.75</b> |
| 317-500-127 | CSS32-M16-300 | M16    | 300mm  | 32mm  | <b>\$1,600.88</b> |
| 317-500-128 | CSS32-M16-350 | M16    | 350mm  | 32mm  | <b>\$2,063.23</b> |
| 317-500-129 | CSS32-M16-400 | M16    | 400mm  | 32mm  | <b>\$2,359.13</b> |

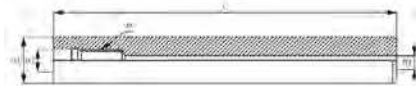
## METRIC Carbide Screw-on Shanks - Necked



| EDP Number  | Description        | Thread | Length | L2 Length | Shank | Price             |
|-------------|--------------------|--------|--------|-----------|-------|-------------------|
| 317-501-107 | CSN10-M06-A25-75   | M6     | 75mm   | 50mm      | 10mm  | <b>\$152.99</b>   |
| 317-501-108 | CSN10-M06-A50-100  | M6     | 100mm  | 50mm      | 10mm  | <b>\$152.99</b>   |
| 317-501-109 | CSN10-M06-A75-125  | M6     | 125mm  | 50mm      | 10mm  | <b>\$192.39</b>   |
| 317-501-110 | CSN10-M06-A100-150 | M6     | 150mm  | 50mm      | 10mm  | <b>\$192.39</b>   |
| 317-501-111 | CSN12-M06-A25-75   | M6     | 75mm   | 50mm      | 12mm  | <b>\$155.24</b>   |
| 317-501-112 | CSN12-M06-A50-100  | M6     | 100mm  | 50mm      | 12mm  | <b>\$155.24</b>   |
| 317-501-113 | CSN12-M06-A75-125  | M6     | 125mm  | 50mm      | 12mm  | <b>\$221.62</b>   |
| 317-501-114 | CSN12-M06-A100-150 | M6     | 150mm  | 50mm      | 12mm  | <b>\$223.87</b>   |
| 317-501-115 | CSN16-M08-A45-100  | M8     | 100mm  | 55mm      | 16mm  | <b>\$250.89</b>   |
| 317-501-116 | CSN16-M08-A95-150  | M8     | 150mm  | 55mm      | 16mm  | <b>\$294.74</b>   |
| 317-501-117 | CSN16-M08-A145-200 | M8     | 200mm  | 55mm      | 16mm  | <b>\$389.23</b>   |
| 317-501-118 | CSN20-M10-A90-150  | M10    | 150mm  | 60mm      | 20mm  | <b>\$442.12</b>   |
| 317-501-119 | CSN20-M10-A140-200 | M10    | 200mm  | 60mm      | 20mm  | <b>\$578.25</b>   |
| 317-501-120 | CSN20-M10-A190-250 | M10    | 250mm  | 60mm      | 20mm  | <b>\$682.88</b>   |
| 317-501-121 | CSN25-M12-A90-150  | M12    | 150mm  | 60mm      | 25mm  | <b>\$599.64</b>   |
| 317-501-122 | CSN25-M12-A140-200 | M12    | 200mm  | 60mm      | 25mm  | <b>\$781.87</b>   |
| 317-501-123 | CSN25-M12-A190-250 | M12    | 250mm  | 60mm      | 25mm  | <b>\$934.86</b>   |
| 317-501-124 | CSN25-M12-A240-300 | M12    | 300mm  | 60mm      | 25mm  | <b>\$1,154.25</b> |
| 317-501-125 | CSN32-M16-A135-200 | M16    | 200mm  | 65mm      | 32mm  | <b>\$1,141.88</b> |
| 317-501-126 | CSN32-M16-A185-250 | M16    | 250mm  | 65mm      | 32mm  | <b>\$1,469.24</b> |
| 317-501-127 | CSN32-M16-A235-300 | M16    | 300mm  | 65mm      | 32mm  | <b>\$1,720.13</b> |
| 317-501-128 | CSN32-M16-A285-350 | M16    | 350mm  | 65mm      | 32mm  | <b>\$2,190.36</b> |
| 317-501-129 | CSN32-M16-A335-400 | M16    | 400mm  | 65mm      | 32mm  | <b>\$2,492.98</b> |



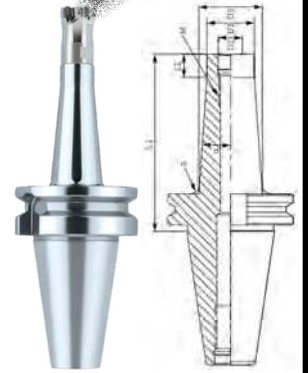
# Fractional Carbide Screw-on Shanks - Straight



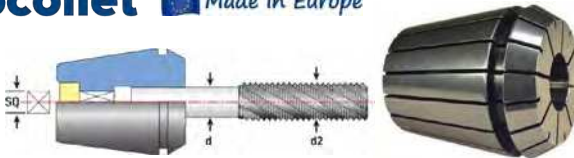
| EDP Number   | Description    | Thread | Length | Shank  | Price           |
|--------------|----------------|--------|--------|--------|-----------------|
| 336-06204080 | ICSS2A06204080 | M8     | 4.00"  | 0.625" | <b>\$279.00</b> |
| 336-06206080 | ICSS2A06206080 | M8     | 6.00"  | 0.625" | <b>\$389.00</b> |
| 336-07504100 | ICSS2A07504100 | M10    | 4.00"  | 0.750" | <b>\$509.00</b> |
| 336-07506100 | ICSS2A07506100 | M10    | 6.00"  | 0.750" | <b>\$669.00</b> |
| 336-10004120 | ICSS2A10004120 | M12    | 4.00"  | 1.000" | <b>POA</b>      |
| 336-10006120 | ICSS2A10006120 | M12    | 6.00"  | 1.000" | <b>POA</b>      |
| 336-12506160 | ICSS2A12506160 | M16    | 6.00"  | 1.250" | <b>POA</b>      |

## Screw-on Arbors - BT40, CAT40 & DIN40

| EDP Number      | Description                               | Thread | L1 Length | D1 Ø   | D3 Ø | Price           |
|-----------------|-------------------------------------------|--------|-----------|--------|------|-----------------|
| 417-BT40M0860   | BT40-SO-M08-60 THREADED (ARBOR-TAPERED)   | M8     | 60mm      | 15.4mm | 19mm | <b>\$149.00</b> |
| 417-BT40M0890   | BT40-SO-M08-90 THREADED (ARBOR-TAPERED)   | M8     | 90mm      | 15.4mm | 24mm | <b>\$149.00</b> |
| 417-BT40M08120  | BT40-SO-M08-120 THREADED (ARBOR-TAPERED)  | M8     | 120mm     | 15.4mm | 30mm | <b>\$179.00</b> |
| 417-CAT40M0890  | CAT40-SO-M08-90 THREADED (ARBOR-TAPERED)  | M8     | 90mm      | 15.4mm | 30mm | <b>\$149.00</b> |
| 417-CAT40M1090  | CAT40-SO-M10-90 THREADED (ARBOR-TAPERED)  | M10    | 90mm      | 19mm   | 30mm | <b>\$149.00</b> |
| 417-CAT40M10135 | CAT40-SO-M10-135 THREADED (ARBOR-TAPERED) | M10    | 135mm     | 19mm   | 36mm | <b>\$179.00</b> |
| 417-CAT40M1290  | CAT40-SO-M12-90 THREADED (ARBOR-TAPERED)  | M12    | 90mm      | 24mm   | 29mm | <b>\$149.00</b> |
| 417-CAT40M12135 | CAT40-SO-M12-135 THREADED (ARBOR-TAPERED) | M12    | 135mm     | 24mm   | 39mm | <b>\$179.00</b> |
| 417-CAT40M1690  | CAT40-SO-M16-90 THREADED (ARBOR-TAPERED)  | M16    | 90mm      | 29mm   | 35mm | <b>\$149.00</b> |
| 417-CAT40M16135 | CAT40-SO-M16-135 THREADED (ARBOR-TAPERED) | M16    | 135mm     | 29mm   | 41mm | <b>\$179.00</b> |



INCH SIZED  
TAPPING  
ER COLLETS



### ERT16 (INCH SIZED) D=16,5mm / L=27,5mm

| CODE            | d1 mm (inch)  | Square size<br>mm (inch) | Tap Specs | PRICE          |
|-----------------|---------------|--------------------------|-----------|----------------|
| 240-ERT16IN0358 | 3,58 (0.141") | 2,79 (0.110")            | 0-6"      | <b>\$39.17</b> |
| 240-ERT16IN0427 | 4,27 (0.168") | 3,33 (0.131")            | #8        | <b>\$39.17</b> |
| 240-ERT16IN0493 | 4,93 (0.194") | 3,86 (0.152")            | #10       | <b>\$39.17</b> |
| 240-ERT16IN0559 | 5,59 (0.220") | 4,12 (0.162")            | #12       | <b>\$39.17</b> |
| 240-ERT16IN0648 | 6,48 (0.255") | 4,85 (0.191")            | 1/4"      | <b>\$39.17</b> |
| 240-ERT16IN0808 | 8,08 (0.318") | 6,05 (0.238")            | 5/16"     | <b>\$39.17</b> |

### ERT25 (INCH SIZED) D=25,5mm / L=34mm

| CODE            | d1 mm (inch)   | Square size<br>mm (inch) | Tap Specs    | PRICE          |
|-----------------|----------------|--------------------------|--------------|----------------|
| 240-ERT25IN0358 | 3,58 (0.141")  | 2,79 (0.110")            | 0-6"         | <b>\$41.00</b> |
| 240-ERT25IN0427 | 4,27 (0.168")  | 3,33 (0.131")            | #8           | <b>\$41.00</b> |
| 240-ERT25IN0493 | 4,93 (0.194")  | 3,86 (0.152")            | #10          | <b>\$41.00</b> |
| 240-ERT25IN0559 | 5,59 (0.220")  | 4,12 (0.162")            | #12          | <b>\$41.00</b> |
| 240-ERT25IN0648 | 6,48 (0.255")  | 4,85 (0.191")            | 1/4"         | <b>\$41.00</b> |
| 240-ERT25IN0808 | 8,08 (0.318")  | 6,05 (0.238")            | 5/16"        | <b>\$41.00</b> |
| 240-ERT25IN0968 | 9,68 (0.381")  | 7,26 (0.238")            | 3/8"         | <b>\$41.00</b> |
| 240-ERT25IN0820 | 8,20 (0.323")  | 6,15 (0.242")            | 7/16"        | <b>\$41.00</b> |
| 240-ERT25IN0932 | 9,32 (0.367")  | 6,99 (0.275")            | 1/2"         | <b>\$41.00</b> |
| 240-ERT25IN1090 | 10,90 (0.429") | 8,18 (0.322")            | 9/16"        | <b>\$41.00</b> |
| 240-ERT25IN1219 | 12,19 (0.480") | 9,14 (0.360")            | 5/8"         | <b>\$41.00</b> |
| 240-ERT25IN0793 | 7,93 (0.312")  | 5,94 (0.234")            | 1/8" pipe ss | <b>\$41.00</b> |
| 240-ERT25IN1113 | 11,13 (0.438") | 8,33 (0.328")            | 1/8" pipe ls | <b>\$41.00</b> |

### ERT20 (INCH SIZED)

D=20,5mm / L=31,5mm

| CODE            | d1 mm (inch)  | Square size<br>mm (inch) | Tap Specs | PRICE          |
|-----------------|---------------|--------------------------|-----------|----------------|
| 240-ERT20IN0358 | 3,58 (0.141") | 2,79 (0.110")            | 0-6"      | <b>\$39.78</b> |
| 240-ERT20IN0427 | 4,27 (0.168") | 3,33 (0.131")            | #8        | <b>\$39.78</b> |
| 240-ERT20IN0493 | 4,93 (0.194") | 3,86 (0.152")            | #10       | <b>\$39.78</b> |
| 240-ERT20IN0559 | 5,59 (0.220") | 4,12 (0.162")            | #12       | <b>\$39.78</b> |
| 240-ERT20IN0648 | 6,48 (0.255") | 4,85 (0.191")            | 1/4"      | <b>\$39.78</b> |
| 240-ERT20IN0808 | 8,08 (0.318") | 6,05 (0.238")            | 5/16"     | <b>\$39.78</b> |
| 240-ERT20IN0968 | 9,68 (0.381") | 7,26 (0.238")            | 3/8"      | <b>\$39.78</b> |
| 240-ERT20IN0820 | 8,20 (0.323") | 6,15 (0.242")            | 7/16"     | <b>\$39.78</b> |
| 240-ERT20IN0932 | 9,32 (0.367") | 6,99 (0.275")            | 1/2"      | <b>\$39.78</b> |

### ERT32 (INCH SIZED)

D=32,5mm / L=40mm

| CODE            | d1 mm (inch)   | Square size<br>mm (inch) | Tap Specs    | PRICE          |
|-----------------|----------------|--------------------------|--------------|----------------|
| 240-ERT32IN0358 | 3,58 (0.141")  | 2,79 (0.110")            | 0-6"         | <b>\$44.37</b> |
| 240-ERT32IN0427 | 4,27 (0.168")  | 3,33 (0.131")            | #8           | <b>\$44.37</b> |
| 240-ERT32IN0493 | 4,93 (0.194")  | 3,86 (0.152")            | #10          | <b>\$44.37</b> |
| 240-ERT32IN0559 | 5,59 (0.220")  | 4,12 (0.162")            | #12          | <b>\$44.37</b> |
| 240-ERT32IN0648 | 6,48 (0.255")  | 4,85 (0.191")            | 1/4"         | <b>\$44.37</b> |
| 240-ERT32IN0808 | 8,08 (0.318")  | 6,05 (0.238")            | 5/16"        | <b>\$44.37</b> |
| 240-ERT32IN0968 | 9,68 (0.381")  | 7,26 (0.238")            | 3/8"         | <b>\$44.37</b> |
| 240-ERT32IN0820 | 8,20 (0.323")  | 6,15 (0.242")            | 7/16"        | <b>\$44.37</b> |
| 240-ERT32IN0932 | 9,32 (0.367")  | 6,99 (0.275")            | 1/2"         | <b>\$44.37</b> |
| 240-ERT32IN1090 | 10,90 (0.429") | 8,18 (0.322")            | 9/16"        | <b>\$44.37</b> |
| 240-ERT32IN1219 | 12,19 (0.480") | 9,14 (0.360")            | 5/8"         | <b>\$44.37</b> |
| 240-ERT32IN1499 | 14,99 (0.590") | 11,23 (0.447")           | 3/4"         | <b>\$44.37</b> |
| 240-ERT32IN0793 | 7,93 (0.312")  | 5,94 (0.234")            | 1/8" pipe ss | <b>\$44.37</b> |
| 240-ERT32IN1113 | 11,13 (0.438") | 8,33 (0.328")            | 1/8" pipe ls | <b>\$44.37</b> |
| 240-ERT32IN1428 | 14,28 (0.562") | 10,69 (0.421")           | 1/4" pipe    | <b>\$44.37</b> |





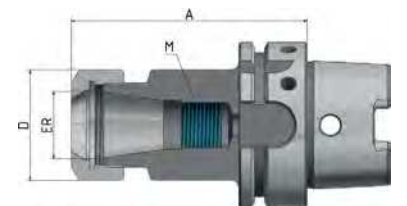
| Order No.      | HSK | ER | D  | A   | Clamping Range | M       | Version     | Price           |
|----------------|-----|----|----|-----|----------------|---------|-------------|-----------------|
| 271-606302-006 | 63  | 11 | 19 | 75  | 1-7            | -       | Extra short | <b>\$257.40</b> |
| 271-606302-001 | 63  | 16 | 28 | 75  | 1-10           | -       | Extra short | <b>\$233.64</b> |
| 271-606302-002 | 63  | 25 | 42 | 75  | 1-16           | -       | Extra short | <b>\$239.58</b> |
| 271-606302-003 | 63  | 32 | 50 | 75  | 2-20           | -       | Extra short | <b>\$249.48</b> |
| 271-606302-004 | 63  | 40 | 63 | 85  | 4-26           | -       | Extra short | <b>\$273.24</b> |
| 271-606302-01  | 63  | 16 | 28 | 100 | 1-10           | M11x1   | Short       | <b>\$237.60</b> |
| 271-606302-07  | 63  | 20 | 34 | 100 | 1-13           | M14x1   | Short       | <b>\$249.48</b> |
| 271-606302-02  | 63  | 25 | 42 | 100 | 1-16           | M18x1,5 | Short       | <b>\$249.48</b> |
| 271-606302-03  | 63  | 32 | 50 | 100 | 2-20           | M24x1,5 | Short       | <b>\$251.46</b> |
| 271-606302-04  | 63  | 40 | 63 | 120 | 4-26           | M28x1,5 | Short       | <b>\$283.14</b> |
| 271-606302-32  | 63  | 16 | 28 | 130 | 1-10           | M11x1   | Long        | <b>\$257.40</b> |
| 271-606302-34  | 63  | 25 | 42 | 130 | 1-16           | M18x1,5 | Long        | <b>\$277.20</b> |
| 271-606302-35  | 63  | 32 | 50 | 130 | 2-20           | M24x1,5 | Long        | <b>\$289.08</b> |
| 271-606302-36  | 63  | 40 | 63 | 130 | 4-26           | M28x1,5 | Long        | <b>\$312.84</b> |
| 271-606302-011 | 63  | 16 | 28 | 160 | 1-10           | M11x1   | Extra long  | <b>\$263.34</b> |
| 271-606302-021 | 63  | 25 | 42 | 160 | 1-16           | M18x1,5 | Extra long  | <b>\$285.12</b> |
| 271-606302-031 | 63  | 32 | 50 | 160 | 2-20           | M24x1,5 | Extra long  | <b>\$318.78</b> |
| 271-606302-041 | 63  | 40 | 63 | 160 | 4-26           | M28x1,5 | Extra long  | <b>\$352.44</b> |
| 271-606302-012 | 63  | 16 | 28 | 200 | 1-10           | M11x1   | Extra long  | <b>\$438.48</b> |
| 271-606302-022 | 63  | 25 | 42 | 200 | 1-16           | M18x1,5 | Extra long  | <b>\$444.96</b> |
| 271-606302-032 | 63  | 32 | 50 | 200 | 2-20           | M24x1,5 | Extra long  | <b>\$481.68</b> |

**HSK-A 63**

Fig. shows A=130  
Includes clamping nut



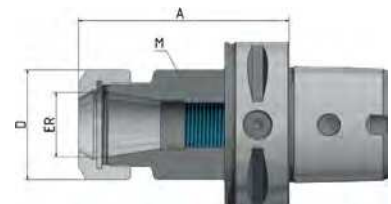
Sealed versions



| Order No.     | C | ER | A   | D  | Clamping Range | M       | Version    | Price           |
|---------------|---|----|-----|----|----------------|---------|------------|-----------------|
| 271-306302-01 | 6 | 16 | 60  | 28 | 1-10           | -       | Short      | <b>\$408.24</b> |
| 271-306302-02 | 6 | 25 | 60  | 42 | 1-16           | -       | Short      | <b>\$408.24</b> |
| 271-306302-03 | 6 | 32 | 60  | 50 | 2-20           | -       | Short      | <b>\$414.72</b> |
| 271-306302-04 | 6 | 40 | 65  | 63 | 4-26           | -       | Short      | <b>\$432.00</b> |
| 271-306302-31 | 6 | 16 | 100 | 28 | 1-10           | M11x1   | Long       | <b>\$486.00</b> |
| 271-306302-32 | 6 | 25 | 100 | 42 | 1-16           | M18x1,5 | Long       | <b>\$486.00</b> |
| 271-306302-33 | 6 | 32 | 100 | 50 | 2-20           | M24x1,5 | Long       | <b>\$486.00</b> |
| 271-306302-34 | 6 | 40 | 100 | 63 | 4-26           | M28x1,5 | Long       | <b>\$516.24</b> |
| 271-306302-52 | 6 | 25 | 130 | 42 | 1-16           | M18x1,5 | Long       | <b>\$524.88</b> |
| 271-306302-53 | 6 | 32 | 130 | 50 | 2-20           | M24x1,5 | Long       | <b>\$524.88</b> |
| 271-306302-61 | 6 | 16 | 160 | 28 | 1-10           | M11x1   | Extra long | <b>\$632.52</b> |
| 271-306302-62 | 6 | 25 | 160 | 42 | 1-16           | M18x1,5 | Extra long | <b>\$632.52</b> |
| 271-306302-63 | 6 | 32 | 160 | 50 | 2-20           | M24x1,5 | Extra long | <b>\$665.28</b> |

**CORUM  
C6, C8**

Fig. shows A=160



| Order No.     | C | ER | A  | D  | Clamping Range | M | Version | Price           |
|---------------|---|----|----|----|----------------|---|---------|-----------------|
| 271-308002-01 | 8 | 16 | 65 | 28 | 1-10           | - | Short   | <b>\$680.40</b> |
| 271-308002-02 | 8 | 25 | 70 | 42 | 1-16           | - | Short   | <b>\$680.40</b> |
| 271-308002-03 | 8 | 32 | 70 | 50 | 2-20           | - | Short   | <b>\$693.00</b> |
| 271-308002-04 | 8 | 40 | 70 | 63 | 4-26           | - | Short   | <b>\$705.60</b> |

**Chum Power**  
CHUMPOWER MACHINERY CORP.

Made in  
Taiwan



- High clamping force 400-700KGf/cm.
- Suitable for high speed running
- Can hold drills, taps and end mills due to high clamping force
- Includes hex key wrench



**HEX KEY DRILL CHUCKS**

| Order Number    | Description       | Clamping Range | Price        |
|-----------------|-------------------|----------------|--------------|
| 331-CT40223202A | CAT40XGHK13S-90L  | 0,3-13MM       | <b>\$299</b> |
| 331-CT40224202A | CAT40XGHK16S-95L  | 1,5-16MM       | <b>\$329</b> |
| 331-CT50224202A | CAT50XGHK16S-95L  | 1,5-16MM       | <b>\$349</b> |
| 331-HK22526     | HSK63AXGHK13S-105 | 0,3-13MM       | <b>\$369</b> |
| 331-HK22528     | HSK63AXGHK16S-110 | 1,5-16MM       | <b>\$389</b> |
| 331-BT22518     | BT40XGHK13S-98L   | 0,3-13MM       | <b>\$299</b> |



## ER8 Kits (Includes Extension, 9 piece boxed collet set & wrench)

| Part Number         | Shank Diameter | Nose Diameter | Overall Length | PRICE           |
|---------------------|----------------|---------------|----------------|-----------------|
| 240-KITER8SET2-08   | 8mm (0.315")   | 12mm (0.472") | 85mm (3.35")   | <b>\$199.00</b> |
| 240-KITER8SET2-10   | 10mm (0.394")  | 12mm (0.472") | 95mm (3.75")   | <b>\$199.00</b> |
| 240-KITER8SET2-12   | 12mm (0.472")  | 12mm (0.472") | 95mm (3.75")   | <b>\$199.00</b> |
| 240-KITER8SET2-12L  | 12mm (0.472")  | 12mm (0.472") | 140mm (5.51")  | <b>\$229.00</b> |
| 240-KITER8SET2-12XL | 12mm (0.472")  | 12mm (0.472") | 150mm (5.90")  | <b>\$249.00</b> |



## ER8 Collet Sets (9 piece sets in box)

| Part Number  | Accuracy                                     | PRICE           |
|--------------|----------------------------------------------|-----------------|
| 240-ER08SET2 | ER8 Class 2 Collets max. .0006-.0008" T.I.R. | <b>\$190.33</b> |
| 240-ER08SETT | ER8 TOPAC Collets max. .0002" T.I.R.         | <b>\$309.06</b> |

## ER8 Extensions

| Part Number    | Shank Diameter | Nose Diameter | Overall Length | PRICE           |
|----------------|----------------|---------------|----------------|-----------------|
| 240-ER0808085M | 8mm (0.315")   | 12mm (0.472") | 85mm (3.35")   | <b>\$76.50</b>  |
| 240-ER0810095M | 10mm (0.394")  | 12mm (0.472") | 95mm (3.75")   | <b>\$76.50</b>  |
| 240-ER0812095M | 12mm (0.472")  | 12mm (0.472") | 95mm (3.75")   | <b>\$76.50</b>  |
| 240-ER0812150M | 12mm (0.472")  | 12mm (0.472") | 150mm (5.90")  | <b>\$149.00</b> |



## Metric ER Collet Sets

| Order Number | Description            | Clamping Range | No. Of Collets | PRICE           |
|--------------|------------------------|----------------|----------------|-----------------|
| 240-ER11SET2 | ER11 Metric Collet Set | 1-7mm          | 13 pcs.        | <b>\$229.81</b> |
| 240-ER16SET2 | ER16 Metric Collet Set | 1-10mm         | 10 pcs.        | <b>\$135.86</b> |
| 240-ER20SET2 | ER20 Metric Collet Set | 2-13mm         | 12 pcs.        | <b>\$170.44</b> |
| 240-ER25SET2 | ER25 Metric Collet Set | 2-16mm         | 15 pcs.        | <b>\$233.48</b> |
| 240-ER32SET2 | ER32 Metric Collet Set | 3-20mm         | 18 pcs.        | <b>\$283.97</b> |
| 240-ER40SET2 | ER40 Metric Collet Set | 4-26mm         | 23 pcs.        | <b>\$469.40</b> |



## CAT 40 Collet Chucks

| Order Number     | Description                     | L Gauge Length | D Nut Diameter | PRICE          |
|------------------|---------------------------------|----------------|----------------|----------------|
| 240-CAT40ER16    | ER16 CAT40 Collet Chuck - Short | 60mm           | 28mm           | <b>\$79.00</b> |
| 240-CAT40ER16100 | ER16 CAT40 Collet Chuck 100mm   | 100mm          | 28mm           | <b>\$85.00</b> |
| 240-CAT40ER3270  | ER32 CAT40 Collet Chuck - Short | 70mm           | 50mm           | <b>\$79.00</b> |
| 240-CAT40ER32100 | ER32 CAT40 Collet Chuck 100mm   | 100mm          | 50mm           | <b>\$85.00</b> |



## Inch ER Collet Sets

| Order Number   | Description          | Clamping Range | No. Of Collets | PRICE           |
|----------------|----------------------|----------------|----------------|-----------------|
| 240-ER16SETIN2 | ER16 Inch Collet Set | 1/16"-3/8"     | 10 pcs.        | <b>\$145.04</b> |
| 240-ER20SETIN2 | ER20 Inch Collet Set | 1/16"-1/2"     | 12 pcs.        | <b>\$188.50</b> |
| 240-ER25SETIN2 | ER25 Inch Collet Set | 1/16"-5/8"     | 15 pcs.        | <b>\$257.35</b> |
| 240-ER32SETIN2 | ER32 Inch Collet Set | 1/8"-3/4"      | 18 pcs.        | <b>\$300.49</b> |
| 240-ER40SETIN2 | ER40 Inch Collet Set | 1/8"-1"        | 23 pcs.        | <b>\$504.90</b> |





## TORQUE Control Adapters

The best solution for protecting your taps and work pieces from tap breakage. The prime application for torque control adapters is Blind Hole Tapping and where Chip Evacuation is a concern.



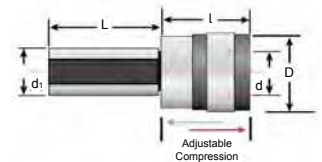
## RIGID Control Adapters

The best suited for through holes and in applications where tap breakage is not a concern.

| Tap Size |           |         | RIGID Control Adapters |         |                 |         | TORQUE Control Adapters |          |                |          |
|----------|-----------|---------|------------------------|---------|-----------------|---------|-------------------------|----------|----------------|----------|
|          |           |         | Size 1                 |         | Size 2          |         | Size 1                  |          | Size 2         |          |
| ANSI     | ISO       | STI     | Order #                | PRICE   | Order #         | PRICE   | Order #                 | PRICE    | Order #        | PRICE    |
| #0-6     | M1.6-M3.5 | 2,3,4   | 117-19/11-4036         | \$44.00 |                 |         | 117-19/1-4036           | \$109.00 |                |          |
| # 8      | M4        | 5       | 117-19/11-4041         | \$44.00 |                 |         | 117-19/1-4041           | \$109.00 |                |          |
| # 10     | M5        | 6       | 117-19/11-4048         | \$44.00 |                 |         | 117-19/1-4048           | \$109.00 |                |          |
| # 12     |           | 8       | 117-19/11-4054         | \$44.00 |                 |         | 117-19/1-4054           | \$109.00 |                |          |
| 1/4      | M6        | 10      | 117-19/11-4063         | \$44.00 |                 |         | 117-19/1-4063           | \$109.00 |                |          |
| 5/16     | M8        | 12, 1/4 | 117-19/11-4079         | \$44.00 | 117-31/12-4079  | \$56.00 | 117-19/1-4079           | \$109.00 | 117-31/2-4079  | \$140.00 |
| 3/8      | M10       | 5/16    | 117-19/11-4095         | \$44.00 | 117-31/12-4095  | \$56.00 | 117-19/1-4095           | \$109.00 | 117-31/2-4095  | \$140.00 |
| 7/16     | M11       |         | 117-19/11-4111         | \$44.00 | 117-31/12-4111  | \$56.00 | 117-19/1-4111           | \$109.00 | 117-31/2-4111  | \$140.00 |
| 1/2      | M12       | 3/8     | 117-19/11-4127         | \$44.00 | 117-31/12-4127  | \$56.00 | 117-19/1-4127           | \$109.00 | 117-31/2-4127  | \$140.00 |
| 9/16     | M14       | 7/16    | 117-19/11-4142         | \$44.00 | 117-31/12-4142  | \$56.00 | 117-19/1-4142           | \$109.00 | 117-31/2-4142  | \$140.00 |
| 5/8      | M16       | 1/2     |                        |         | 117-31/12-4158  | \$56.00 |                         |          | 117-31/2-4158  | \$140.00 |
| 11/16    | M18       | 9/16    |                        |         | 117-31/12-4174  | \$56.00 |                         |          | 117-31/2-4174  | \$140.00 |
| 3/4      |           |         |                        |         | 117-31/12-4190C | \$56.00 |                         |          | 117-31/2-4190  | \$140.00 |
| 13/16    | M20       |         |                        |         | 117-31/12-4206C | \$56.00 |                         |          | 117-31/2-4206  | \$140.00 |
| 7/8      | M22       | 3/4     |                        |         | 117-31/12-4222C | \$56.00 |                         |          | 117-31/2-4222  | \$140.00 |
| 1/8 NPT  |           |         | 117-19/11-4097         | \$44.00 |                 |         | 117-19/1-4097           | \$109.00 |                |          |
| 1/4 NPT  |           |         |                        |         | 117-31/12-4131C | \$56.00 |                         |          | 117-31/2-4131C | \$140.00 |
| 3/8 NPT  |           |         |                        |         | 117-31/12-4166C | \$56.00 |                         |          | 117-31/2-4166C | \$140.00 |
| 1/2 NPT  |           |         |                        |         | 117-31/12-4209C | \$56.00 |                         |          | 117-31/2-4209C | \$140.00 |



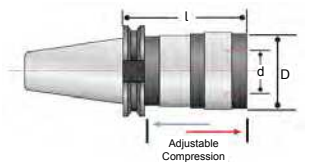
## TENSION & COMPRESSION TAPPING CHUCKS



| Order #            | Description                    | D1    | D     | l     | L     | Tap Capacity | Compensation |             | PRICE    |
|--------------------|--------------------------------|-------|-------|-------|-------|--------------|--------------|-------------|----------|
|                    |                                |       |       |       |       |              | Tension      | Compression |          |
| 117-32400/INC1     | 1" Shank T/C Holder Size 1     | 1.00" | 1.5"  | 1.76" | 1.95" | 0 - 9/16"    | 0.35"        | 0.35"       | \$319.00 |
| 117-32600/INC1     | 1" Shank T/C Holder Size 2     | 1.00" | 2.17" | 2.52" | 2.00" | 5/16 - 7/8"  | 0.59"        | 0.59"       | \$380.00 |
| 117-32600/INC1-1/2 | 1-1/2" Shank T/C Holder Size 2 | 1.50" | 2.17" | 2.52" | 3.50" | 5/16 - 7/8"  | 0.59"        | 0.59"       | \$413.00 |



## CAT TENSION/COMPRESSION TAP HOLDERS



| Order #         | Description              | d      | D     | l     | Size | Tap Capacity | Compensation |             | PRICE    |
|-----------------|--------------------------|--------|-------|-------|------|--------------|--------------|-------------|----------|
|                 |                          |        |       |       |      |              | Tension      | Compression |          |
| 117-32400/40CAT | CAT40 T/C Holder, Size 1 | 0.748" | 1.5"  | 2.36" | 1    | 0 - 9/16"    | 0.35"        | 0.35"       | \$376.00 |
| 117-32400/50CAT | CAT50 T/C Holder, Size 1 | 0.748" | 1.5"  | 2.44" | 1    | 0 - 9/16"    | 0.35"        | 0.35"       | \$501.00 |
| 117-32600/40CAT | CAT40 T/C Holder, Size 2 | 1.220" | 2.17" | 3.94" | 2    | 5/16 - 7/8"  | 0.59"        | 0.59"       | \$425.00 |
| 117-32600/50CAT | CAT50 T/C Holder, Size 2 | 1.220" | 2.17" | 3.27" | 2    | 5/16 - 7/8"  | 0.59"        | 0.59"       | \$553.00 |



## Combination Square Set

- \* Made of cast iron
- \* Square head, protractor and center head
- \* Stainless steel blade with etched clear graduation
- \* Fine milled measuring faces
- \* Blade graduation:
  - For metric/inch: top 1/2mm, bottom 1mm,
  - top 1/64" inch, bottom 1/32" inch on rear side
- \* Packed in cardboard



| EDP #        | Blade Size | PRICE           |
|--------------|------------|-----------------|
| 370-240-0733 | 300mm/12"  | <b>\$133.47</b> |

## Thread Plug Gauges

- \* Right hand thread
- \* Finely ground and lapped
- \* Includes Dakks test certificate
- \* High quality plastic tube
- \* DIN13 6H standard



| EDP #          | Size (mm) | PRICE          | EDP #          | Size (mm) | PRICE          |
|----------------|-----------|----------------|----------------|-----------|----------------|
| 370-5109-02-5  | M2x0.4    | <b>\$53.07</b> | 370-5109-10-14 | M10x1.5   | <b>\$55.46</b> |
| 370-5109-025-6 | M2.5x0.45 | <b>\$53.07</b> | 370-5109-12-15 | M12x1.75  | <b>\$55.46</b> |
| 370-5109-03-7  | M3x0.5    | <b>\$53.07</b> | 370-5109-14-16 | M14x2.0   | <b>\$57.06</b> |
| 370-5109-035-8 | M3.5x0.6  | <b>\$53.07</b> | 370-5109-16-16 | M16x2.0   | <b>\$57.06</b> |
| 370-5109-04-9  | M4x0.7    | <b>\$50.67</b> | 370-5109-18-17 | M18x2.5   | <b>\$61.05</b> |
| 370-5109-05-11 | M5x0.8    | <b>\$50.67</b> | 370-5109-20-17 | M20x2.5   | <b>\$61.05</b> |
| 370-5109-06-12 | M6x1.0    | <b>\$50.67</b> | 370-5109-22-17 | M22x2.5   | <b>\$61.05</b> |
| 370-5109-08-13 | M8x1.25   | <b>\$50.67</b> | 370-5109-24-18 | M24x3.0   | <b>\$72.22</b> |

Other Sizes Available Upon Request!

## Double Function Ratchet

- \* Standard function
  - For use in non limited spaces, levering of ratchet turns square.
- \* Rotation function
  - Opening function for handle (turning back the handle) changes ratchet to rotation function.
  - Turning the handle moves the square; no levering needed.



| EDP #         | Size | Total Length | PRICE          |
|---------------|------|--------------|----------------|
| 370-9220-9644 | 1/4" | 17.3cm       | <b>\$49.28</b> |
| 370-9220-9651 | 3/8" | 23.8cm       | <b>\$56.66</b> |
| 370-9220-9668 | 1/2" | 28.7cm       | <b>\$66.63</b> |

## Stainless Steel Ruler

- \* Stainless spring steel
- \* Etched graduation for a clear reading
- \* Packed in plastic box



| EDP #        | Size  | Section  | PRICE         |
|--------------|-------|----------|---------------|
| 370-241-7367 | 150mm | 13x0.5mm | <b>\$1.96</b> |
| 370-241-7374 | 6"    | 13x0.5mm | <b>\$1.96</b> |

## Utility Knife

- \* Sturdy zinc alloy body
- \* 4pcs spare replaceable blades
- \* Packed in PE plastic bag



| EDP #        | Size        | PRICE          |
|--------------|-------------|----------------|
| 370-294-7626 | 168x36x25mm | <b>\$12.57</b> |

## Digital Inclinometer

- \* Large LCD for easy reading, LCD display is foldable
- \* With magnetic V-base
- \* Two buttons: ON/OFF, HOLD
- \* Degree and slope conversion
- \* Resolution: 0.1°
- \* Battery: AAA x2
- \* Packed in cardboard



| EDP #        | Size       | Range | PRICE          |
|--------------|------------|-------|----------------|
| 370-242-0719 | 55x57x32mm | ±180° | <b>\$80.64</b> |

## Digital Caliper

- \* With removable thumbwheel
- \* Four way measurement
- \* Hardened stainless steel
- \* Buttons: On/Off, mm/inch, Zero
- \* CR2032 battery
- \* Includes inspection report



| EDP #        | Range     | Reading        | PRICE           |
|--------------|-----------|----------------|-----------------|
| 370-210-9064 | 150mm/6"  | 0.01mm/0.0005" | <b>\$58.24</b>  |
| 370-210-9071 | 200mm/8"  | 0.01mm/0.0005" | <b>\$85.10</b>  |
| 370-210-9088 | 300mm/12" | 0.01mm/0.0005" | <b>\$134.46</b> |

## LED Flashlight

- \* Metal body, black oxide
- \* Lighting function brightness 100% - 75% - 50% - flicker
- \* Power supply AAAx3
- \* Single black canvas bag packaging
- \* Packed in colourbox



| EDP #        | Size     | PRICE          |
|--------------|----------|----------------|
| 370-294-8968 | 145x40mm | <b>\$52.67</b> |

## Magnifier with LED Lamp

- \* Dome lens magnifying glass loupe with LED light illuminated
- \* 3 different brightness by button control
- \* High quality of the lens, the font will not appear deformed, even long look nor feel dizzy and fatigue
- \* Micro USB rechargeable, no need to buy batteries, convenient to use
- \* Large vision lenses, without moving back and forth frequently
- \* Packed in colourbox



| EDP #        | Size | Magnification | PRICE          |
|--------------|------|---------------|----------------|
| 370-295-8975 | 94mm | 5X            | <b>\$44.01</b> |

## 90° Precision Inspection Bevelled Edge Square

- \* DIN875/00
- \* Made of stainless steel
- \* With two bevelled edges, hardened
- \* Working surface lapped
- \* Packed in cardboard
- \* Includes certificate



| EDP #        | Size      | Section | PRICE          |
|--------------|-----------|---------|----------------|
| 370-240-1273 | 50x40mm   | 14x10mm | <b>\$28.37</b> |
| 370-240-1280 | 75x50mm   | 14x10mm | <b>\$34.67</b> |
| 370-240-1297 | 100x70mm  | 18x12mm | <b>\$37.87</b> |
| 370-240-1303 | 150x100mm | 24x14mm | <b>\$63.32</b> |
| 370-240-1310 | 200x130mm | 28x16mm | <b>\$81.64</b> |