

# TECHNICAL GUIDE

## Code Keys

Insert-Metric series, extract from the international standard. Listed dimensions are the theory measurement for reference. The normal size and tolerance of type codes indicated, on the following list are exactly different. To check the exact tolerance of each insert, please refer to the relative page of inserts.






### 1. Shape

### 2. Side Clearance Angle

0 = Special

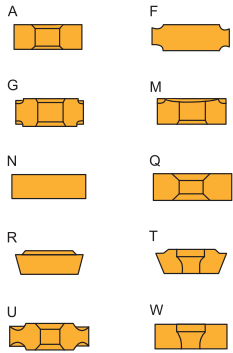
## Code Keys

| 3.Tolerances   |   |  |   |                      |      |      |       |      |        |       |      |       |      |
|----------------|---|--|---|----------------------|------|------|-------|------|--------|-------|------|-------|------|
| Tol.-<br>Class | Tolerance +/-mm   |  |   | For d, dimension(mm) |      |      |       |      |        |       |      |       |      |
|                |  m |  AE |  d | 3.175*               | 4.76 | 6.35 | 9.525 | 12.7 | 15.875 | 19.05 | 25.4 | 31.75 | 38.1 |
| A              | 0.005   | 0.025  | 0.025   | •                    | •    | •    | •     | •    | •      | •     | •    | •     | •    |
| E              | 0.025   | 0.025  | 0.025   | •                    | •    | •    | •     | •    | •      | •     | •    | •     | •    |
| F              | 0.005   | 0.025  | 0.013   | •                    | •    | •    | •     | •    | •      | •     | •    | •     | •    |
| G              | 0.025   | 0.13   | 0.025   | •                    | •    | •    | •     | •    | •      | •     | •    | •     | •    |
| H              | 0.013   | 0.025  | 0.013   | •                    | •    | •    | •     | •    | •      | •     | •    | •     | •    |
| J              | 0.005   | 0.025  | 0.05  | •                    | •    | •    | •     |      |        |       |      |       |      |
|                | 0.005   | 0.025  | 0.08  |                      |      |      |       | •    |        |       |      |       |      |
|                | 0.005   | 0.025  | 0.10  |                      |      |      |       |      | •      | •     |      |       |      |
|                | 0.005   | 0.025  | 0.13  |                      |      |      |       |      |        |       | •    |       |      |
|                | 0.005   | 0.025  | 0.15  |                      |      |      |       |      |        |       |      | •     | •    |
| K              | 0.013   | 0.025  | 0.05  | •                    | •    | •    | •     |      |        |       |      |       |      |
|                | 0.013   | 0.025  | 0.08  |                      |      |      |       | •    |        |       |      |       |      |
|                | 0.013   | 0.025  | 0.10  |                      |      |      |       |      | •      | •     |      |       |      |
|                | 0.013   | 0.025  | 0.13  |                      |      |      |       |      |        |       | •    |       |      |
|                | 0.013   | 0.025  | 0.15  |                      |      |      |       |      |        |       |      | •     | •    |
| M              | 0.08  | 0.13   | 0.05  | •                    | •    | •    | •     |      |        |       |      |       |      |
|                | 0.13  | 0.13   | 0.08  |                      |      |      |       | •    |        |       |      |       |      |
|                | 0.15  | 0.13   | 0.10  |                      |      |      |       |      | •      | •     |      |       |      |
|                | 0.18  | 0.13   | 0.13  |                      |      |      |       |      |        |       | •    |       |      |
|                | 0.20  | 0.13   | 0.15  |                      |      |      |       |      |        |       |      | •     | •    |
| U              | 0.13  | 0.13   | 0.08  | •                    | •    | •    | •     |      |        |       |      |       |      |
|                | 0.20  | 0.13   | 0.13  |                      |      |      |       | •    |        |       |      |       |      |
|                | 0.27  | 0.13   | 0.18  |                      |      |      |       |      | •      | •     |      |       |      |
|                | 0.38  | 0.13   | 0.25  |                      |      |      |       |      |        |       | •    | •     | •    |



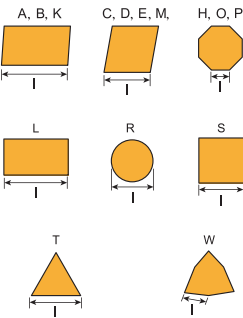
# Inserts Code Keys

## 4. Type

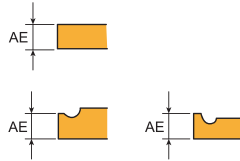


X=Special

## 5. Cutting edge length



## 6. Thickness



01=1,59 mm    04=4,76 mm  
 T1=1,98 mm    05=5,56 mm  
 02=2,38 mm    06=6,35 mm  
 03=3,18 mm    07=7,94 mm  
 T3=3,97 mm    08=8,00 mm  
                   09=9,52 mm

## 7. Insert with corner chamfers / nose radius



A=45°  
 D=60°  
 E=75°  
 F=85°  
 P=90°

Z=Special



A=3°    F=25°  
 B=5°    G=30°  
 C=7°    N=0°  
 D=15°    P=11°  
 E=20°

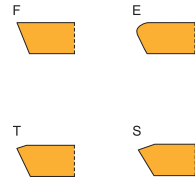
Z=Special



nose radius

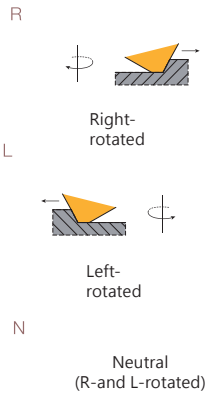
M0\*= round inserts  
 00= sharp  
 01= 0,1mm  
 02= 0,2mm  
 04= 0,4mm  
 08= 0,8mm  
 12= 1,2mm  
 etc  
 \*Metric version

## 8. Cutting edge designation



Not mandatory information

## 9. Direction of cutting



## 10. Internal designation

Machining conditions  
 E = Easy  
 M = Medium  
 D = Difficult

## 11. For TAP only

Tolerance : 6H · 8H

# Insert Grades

## Grades

Cemented carbide is an alloy of tungsten carbide (WC) and cobalt (Co). Cubic carbides like tantalum carbide (TaC), titanium carbide (TiC) and niobium carbide (NbC) can also be added. Tungsten carbide is the main component and gives the hardness. Cobalt is the binder phase and gives the toughness. Cubic carbides are added in order to affect properties like hot hardness, deformation resistance and chemical wear resistance.

Most modern grades are coated with either CVD (Chemical Vapour Deposition) or PVD (physical Vapour Deposition) technique.

The coating improves the wear resistance of the grade.





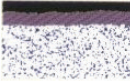
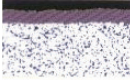
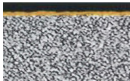
With CVD-technique layers of titanium carbide (TiC), titanium nitride (TiN), titanium carbonitride (Ti(C,N)) and alumina (Al<sub>2</sub>O<sub>3</sub>) can be made. CVD-coated grades are suitable for wear resistance in demanding applications with high feed rates and intermediate to high cutting speed.

The common coating materials made by PVD-technique are titanium nitride (TiN), titanium carbonitride (Ti(C,N)) and titanium aluminium nitride ((Ti,Al)N). PVD-coated grades are recommended for applications with low feed rate where high edge toughness is required. PVD-coated grades are suitable for applications with low to intermediate cutting speed.


|     | Grades | P Steel |     |     |     |     | M Stainless Steel |     |     |     | K Cast iron |     |     |     | N Non Ferrous Metal |     |     |     | S Heat resistant super alloys |     |     |     | H Hardened steel |     |     |     |     |     |     |
|-----|--------|---------|-----|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|-----|---------------------|-----|-----|-----|-------------------------------|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|
|     |        | P01     | P10 | P20 | P30 | P40 | P50               | M01 | M10 | M20 | M30         | M40 | K01 | K10 | K20                 | K30 | K40 | N01 | N10                           | N20 | N30 | S01 | S10              | S20 | S30 | H01 | H10 | H20 | H30 |
| PVD | K10    |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | B100   |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | B350   |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | C250   |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | C350   |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | F20    |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | F30    |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |
|     | CE100  |         |     |     |     |     |                   |     |     |     |             |     |     |     |                     |     |     |     |                               |     |     |     |                  |     |     |     |     |     |     |

# Insert Grades

## PVD coated grades

|   |       |   |
|---|-------|---|
|    | B100  | B100 is a unique rare metal grade with great heat and cracking resistance.<br><br>Tialn   |
|    | B350  | B350 has enhanced the toughness of the tungsten carbide to increase the durability. Specially used in the application of 390 design such as spot drill, center drill, 4-1 counterbore.<br><br>Tialn |
|    | C250  | C250 has a tough substrate in steel machining.<br><br>Helica  |
|    | C350  | C350 is the best recommend grade for steel machining. Especially in 390 system. ( Spot Drill, 4-1 Counterbore, Corner Rounding )<br><br>Helica  |
|    | F20   | This substrate is in accordance to the ISO K, N classification. For application in Cast iron and non-ferrous metal such as Aluminum, copper or plastic ... etc.<br><br>Tin                          |
|  | F30   | F30 is the substrate with new and heat-resistance coating suitable for cast iron.<br><br>Helica   |
|  | CE100 | CE100 is an innovative cermet substrate with great heat and abrasion resistance to improve durability in stable machining conditions.<br><br>Tialn  |

## Uncoated grades

|   |     |   |
|---|-----|---|
|  | K10 | Hard, wear resistant grade for milling in Aluminum and Non-ferrous metal. |
|---|-----|---|

# Insert Geometries

## Designation system

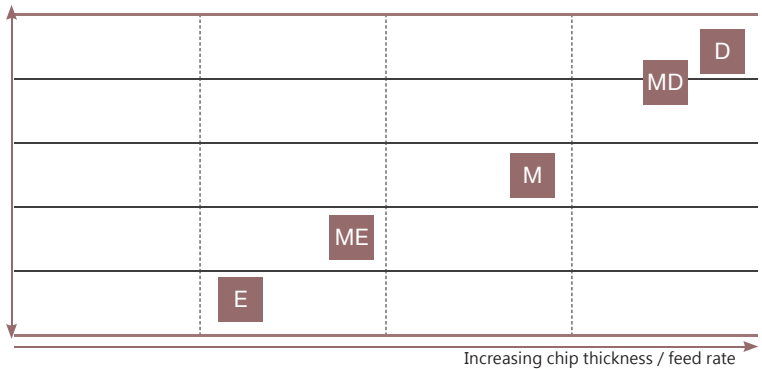
The Y.T. designation system for milling inserts has been developed to provide users with better guidance concerning the fields of application for various insert geometries.



Difficult machining conditions, strong insert cutting edge.



Easy machining conditions, sharp insert cutting edge.



Examples of different insert geometries for a specific insert type.



..AFTN-D Negative and very protected cutting edge



..AFTN-MD Negative and protected cutting edge



..AFTN-M Positive and protected cutting edge



..AFTN-ME Very positive and protected cutting edge



..AFN-E Very positive and very sharp cutting edge



# UFO FAMILY SERIES

## One Shank for Max. Over 400 types insert

“UFO” design is the Y.T.'s innovative-patented insert positioning with tapered polygonal design to achieve higher centering accuracy. It is named after UFO space ship because of its insert design. The holders of the entire series can fit in different types of inserts: T-slot, Thread Milling, Radius, Dual Corner Rounding, Concave Radius, Dual Chamfer, Dovetail, Circlip, Back Boring, Gear Machining. The holders are available in different diameters and lengths. Totally 6 shanks fit more than 1400 inserts.



Video



Patent No.  
M530197



Patent No.  
ZL 201620538204.5



PCT Priority

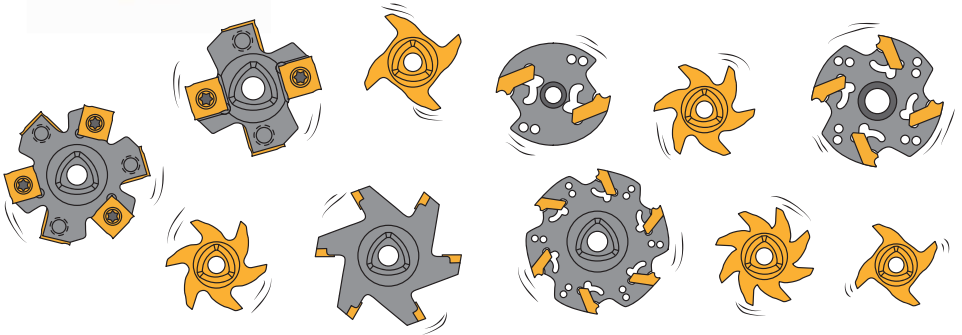




**PATENTED**



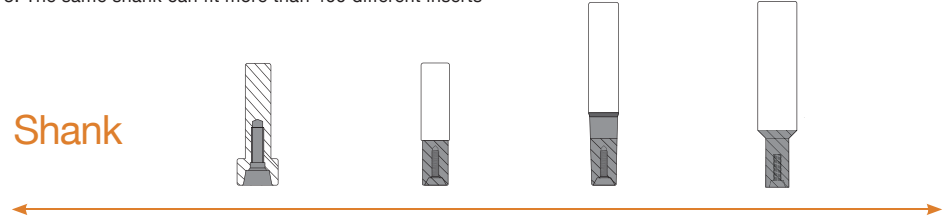
# One holder fits differen inserts up to 400 types



# Design Of UFO Family

## Shank

1. High precision HSS shank (HRC60) with good stability and excellent strength.
2. Comprehensive toolholders with 4 different types of shank, available with overhangs from 40~240mm.
3. The same shank can fit more than 400 different inserts



## Insert

|          |          |          |              |                        |                            |                   |
|----------|----------|----------|--------------|------------------------|----------------------------|-------------------|
| <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b>     | <b>5</b>               | <b>6</b>                   | <b>7</b>          |
|          |          |          |              |                        |                            |                   |
| Dovetail | Radius   | T-slot   | Dual Chamfer | P1.0-P2.0<br>P2.5-P3.5 | Dual<br>Corner<br>Rounding | Concave<br>Radius |
|          |          |          |              | Thread milling         | <b>8</b>                   | <b>9</b>          |
|          |          |          |              |                        |                            |                   |
|          |          |          |              |                        | Circlip                    | Back<br>Boring    |

## Tapered Polygon (Grinded)

### Capacity

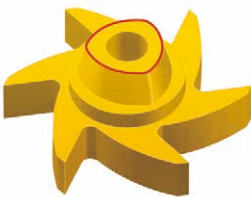
Polygon positioning design has a greater torque capacity than any other positioning designs, the load is generated over a generous area which assure the strength of the shaft.

### Multi Application

Tapered polygon design offers a simple connection with different inserts and applications.

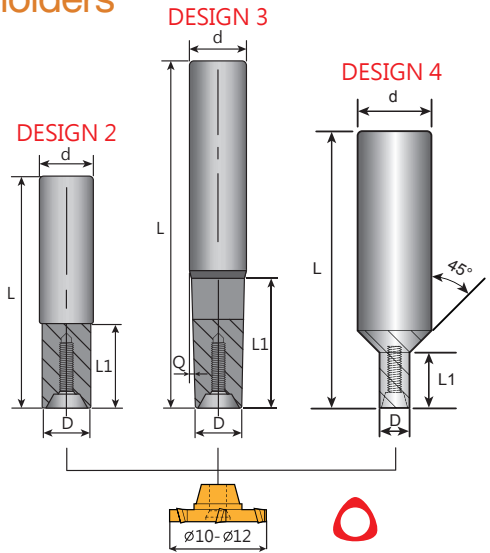
### Center Positioning

The interface is tapered design for keeping eccentricity  $\leq 0.01\text{mm}$ , which enhance the cutting speed and insert tool life.



# PRODUCT SPECIFICATIONS

## UFO Family Common Toolholders



### CB3

• HSS Shanks

| Order code      | Dimensions (mm) |    |     |    |    | Design | KG   | Inserts           | Screw  | Key  |
|-----------------|-----------------|----|-----|----|----|--------|------|-------------------|--------|------|
|                 | D               | d  | L   | L1 | Q  |        |      |                   |        |      |
| CB3-0606-55-12  | 6.5             | 6  | 55  | 10 | -  | 2      | 0.07 | ø10<br>ø11<br>ø12 | C03012 | T09P |
| CB3-0808-80-12  | 7.9             | 8  | 80  |    |    |        |      |                   |        |      |
| CB3-1006-100-12 | 6.5             | 10 | 100 | 20 | 1° | 3      | 0.11 |                   |        |      |
| CB3-1008-100-12 | 7.9             |    |     | 30 |    |        |      |                   |        |      |
| CB3-1606-60-12  | 6.5             | 16 | 60  | 12 | -  | 4      | 0.24 |                   |        |      |
| CB3-1608-65-12  | 7.9             |    | 65  | 16 |    |        | 0.26 |                   |        |      |

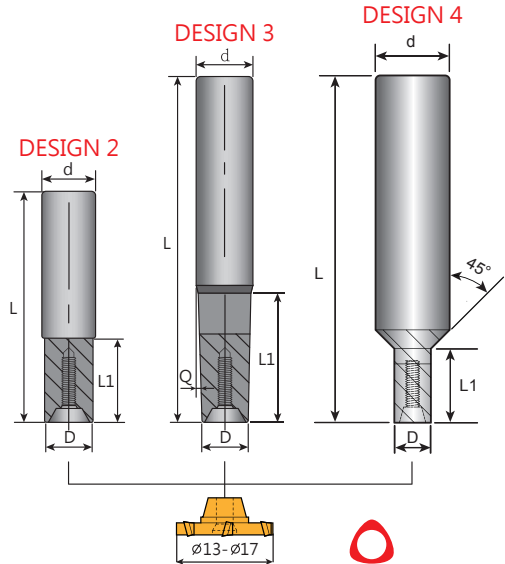
### CB3W

• Carbide Shanks

| Order code       | Dimensions (mm) |    |     |    |    | Design | KG   | Inserts           | Screw  | Key  |
|------------------|-----------------|----|-----|----|----|--------|------|-------------------|--------|------|
|                  | D               | d  | L   | L1 | Q  |        |      |                   |        |      |
| CB3W-0808-80-12  | 7.9             | 8  | 80  | 10 | -  | 2      | 0.11 | ø10<br>ø11<br>ø12 | C03012 | T09P |
| CB3W-1008-100-12 | 7.9             | 10 | 100 | 30 | 1° | 3      | 0.16 |                   |        |      |

• To check the max. AR, please refer to the page of relative inserts or cutters.

# UFO Family Common Toolholders



## CB3 • HSS Shanks

| Order code      | Dimensions (mm) |    |     |    |    | Design | KG   | Inserts                         | Screw  | Key  |
|-----------------|-----------------|----|-----|----|----|--------|------|---------------------------------|--------|------|
|                 | D               | d  | L   | L1 | Q  |        |      |                                 |        |      |
| CB3-0808-55-15  | 7.9             | 8  | 55  | 10 | -  | 2      | 0.08 | Ø13<br>Ø14<br>Ø15<br>Ø16<br>Ø17 | C03012 | T09P |
| CB3-1010-90-15  | 9.9             | 10 | 90  |    |    |        |      |                                 |        |      |
| CB3-1208-110-15 | 7.9             | 12 | 110 | 30 | 1° | 3      | 0.14 |                                 |        |      |
| CB3-1210-120-15 | 9.9             |    | 120 |    |    |        |      |                                 |        |      |
| CB3-1608-75-15  | 7.9             | 16 | 75  | 16 | -  | 4      | 0.24 |                                 |        |      |
| CB3-1610-80-15  | 9.9             |    | 80  |    |    |        |      |                                 |        |      |

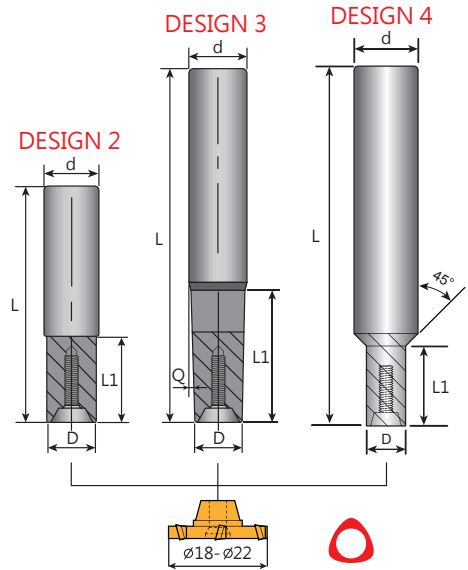
## CB3W • Carbide Shanks

| Order code       | Dimensions (mm) |    |     |    |    | Design | KG   | Inserts                         | Screw  | Key  |
|------------------|-----------------|----|-----|----|----|--------|------|---------------------------------|--------|------|
|                  | D               | d  | L   | L1 | Q  |        |      |                                 |        |      |
| CB3W-1010-90-15  | 9.9             | 10 | 90  | 10 | -  | 2      | 0.15 | Ø13<br>Ø14<br>Ø15<br>Ø16<br>Ø17 | C03012 | T09P |
| CB3W-1208-110-15 | 7.9             | 12 | 110 | 30 | 1° | 3      | 0.21 |                                 |        |      |
| CB3W-1210-120-15 | 9.9             |    | 120 |    |    |        |      |                                 |        |      |

• To check the max. AR, please refer to the page of relative inserts or cutters.



# UFO Family Common Toolholders



## CB3

• HSS Shanks

| Order code      | Dimensions (mm) |    |     |      |      | Design | KG                                   | Inserts | Screw | Key |
|-----------------|-----------------|----|-----|------|------|--------|--------------------------------------|---------|-------|-----|
|                 | D               | d  | L   | L1   | Q    |        |                                      |         |       |     |
| CB3-1010-80-20  | 9.8             | 10 | 80  | 12   | -    | 2      | ø 18<br>ø 19<br>ø 20<br>ø 21<br>ø 22 | C03513  | T10P  |     |
| CB3-1010-100-20 |                 |    | 100 |      |      |        |                                      |         |       |     |
| CB3-1210-90-20  |                 | 12 | 90  | 25   | 3.2° | 3      |                                      |         |       |     |
| CB3-1210-130-20 |                 |    | 130 | 40   | 1.7° |        |                                      |         |       |     |
| CB3-1610-90-20  | 11.8            | 16 | 90  | 20   | -    | 4      | 0.20                                 |         |       |     |
| CB3-1612-95-20  |                 |    | 95  | 25   | -    | 4      | 0.23                                 |         |       |     |
| CB3-1612-150-20 |                 |    | 150 | 55   | 2.4° | 3      | 0.29                                 |         |       |     |
| CB3-1616-150-20 |                 |    |     | 15.8 | 20   | -      | 2                                    | 0.31    |       |     |

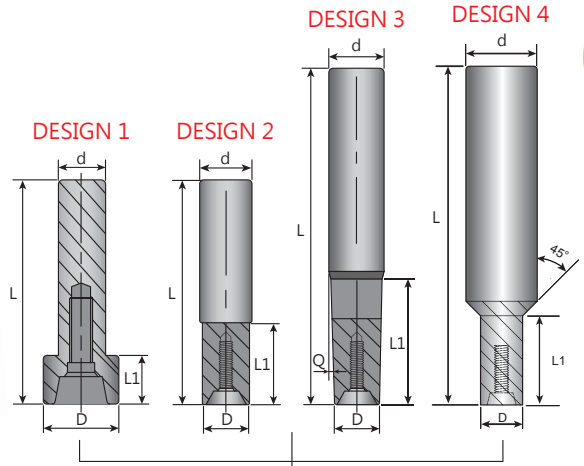
## CB3W

• Carbide Shanks

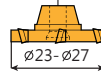
| Order code       | Dimensions (mm) |    |     |    |   | Design | KG   | Inserts                              | Screw  | Key  |
|------------------|-----------------|----|-----|----|---|--------|------|--------------------------------------|--------|------|
|                  | D               | d  | L   | L1 | Q |        |      |                                      |        |      |
| CB3W-1010-100-20 | 9.8             | 10 | 100 | 12 | - | 2      | 0.18 | ø 18<br>ø 19<br>ø 20<br>ø 21<br>ø 22 | C03513 | T10P |
| CB3W-1212-150-20 | 11.8            | 12 | 150 | 20 | - | 2      | 0.32 |                                      |        |      |

• To check the max. AR, please refer to the page of relative inserts or cutters.

# UFO Family Common Toolholders



## CB3 • HSS Shanks



| Order code      | Dimensions (mm) |    |     |    |      | Design | KG   | Inserts                              | Screw  | Key  |
|-----------------|-----------------|----|-----|----|------|--------|------|--------------------------------------|--------|------|
|                 | D               | d  | L   | L1 | Q    |        |      |                                      |        |      |
| CB3-1012-50-25  | 11.8            | 10 | 50  | 10 | -    | 1      | 0.11 | ø 23<br>ø 24<br>ø 25<br>ø 26<br>ø 27 | C04017 | T15P |
| CB3-1212-90-25  |                 | 12 | 90  | 12 | -    | 2      | 0.16 |                                      |        |      |
| CB3-1212-110-25 |                 | 16 | 110 | 35 | 4.2° |        | 0.18 |                                      |        |      |
| CB3-1612-110-25 |                 |    | 150 | 55 | 2.4° | 3      | 0.31 |                                      |        |      |
| CB3-1612-150-25 |                 | 20 | 95  | 25 | -    | 4      | 0.50 |                                      |        |      |
| CB3-2012-95-25  |                 |    |     | 30 | -    |        | 0.55 |                                      |        |      |
| CB3-2016-95-25  | 15.8            |    | 150 | 20 | -    | 2      | 0.46 |                                      |        |      |
| CB3-2020-150-25 | 19.8            |    |     |    |      |        |      |                                      |        |      |

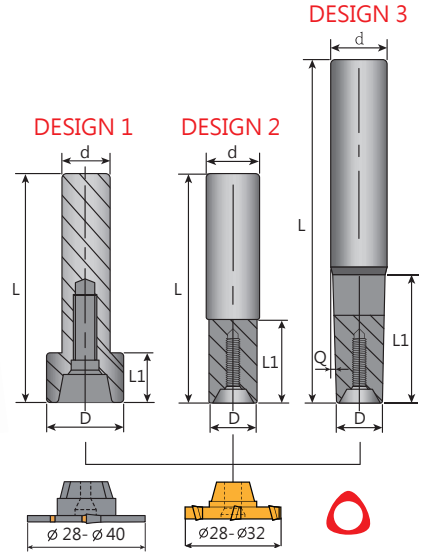
## CB3W • Carbide Shanks

| Order code       | Dimensions (mm) |    |     |    |   | Design | KG   | Inserts                              | Screw  | Key  |
|------------------|-----------------|----|-----|----|---|--------|------|--------------------------------------|--------|------|
|                  | D               | d  | L   | L1 | Q |        |      |                                      |        |      |
| CB3W-1212-110-25 | 11.8            | 12 | 110 | 12 | - | 2      | 0.26 | ø 23<br>ø 24<br>ø 25<br>ø 26<br>ø 27 | C04017 | T15P |
| CB3W-1616-150-25 | 15.8            | 16 | 150 | 20 |   |        | 0.54 |                                      |        |      |

• To check the max. AR, please refer to the page of relative inserts or cutters.



# UFO Family Common Toolholders



## CB3 • HSS Shanks

| Order code      | Dimensions (mm) |    |     |    |      | Design | KG   | Inserts  | Screw  | Key  |
|-----------------|-----------------|----|-----|----|------|--------|------|--|--------|------|
|                 | D               | d  | L   | L1 | Q    |        |      |  |        |      |
| CB3-1016-50-30  | 15.8            | 10 | 50  | 10 | -    | 1      | 0.13 | $\phi 28$<br>$\phi 29$<br>$\phi 30$<br>$\phi 32$<br>$\phi 35$<br>$\phi 40$ | C05016 | T20P |
| CB3-1616-120-30 |                 | 16 | 120 | 15 | -    | 2      | 0.28 |  |        |      |
| CB3-1616-150-30 |                 | 16 | 150 | 45 | 3.8° | 3      | 0.34 |  |        |      |
| CB3-2016-150-30 |                 |    |     |    |      |        | 0.45 |  |        |      |
| CB3-2016-180-30 |                 | 20 | 180 | 70 | 2.0° | 3      | 0.51 |  |        |      |
| CB3-2020-180-30 |                 |    |     |    |      |        | 19.8 |  |        |      |

## CB3W • Carbide Shanks

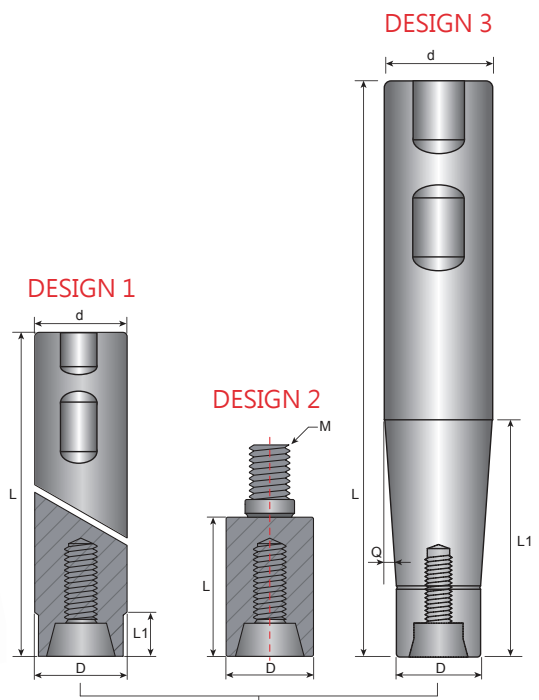
| Order code       | Dimensions (mm) |    |     |    |      | Design | KG   | Inserts   | Screw  | Key  |
|------------------|-----------------|----|-----|----|------|--------|------|---|--------|------|
|                  | D               | d  | L   | L1 | Q    |        |      |   |        |      |
| CB3W-1616-150-30 | 15.8            | 16 | 150 | 15 | -    | 2      | 0.55 | $\phi 28 \phi 29$<br>$\phi 30 \phi 32$<br>$\phi 35 \phi 40$ | C05016 | T20P |
| CB3W-2016-180-30 |                 | 20 | 180 | 70 | 2.0° | 3      | 0.87 |   |        |      |

• To check the max. AR, please refer to the page of relative inserts or cutters.

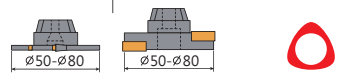
# UFO Family Common Toolholders

- Combi Toolholders P. 285 - 286

UFO Family



## CB3



| Order code   | Dimensions (mm) |    |     |    |    |     | Design | KG   | Inserts           | Screw | Key |
|--------------|-----------------|----|-----|----|----|-----|--------|------|-------------------|-------|-----|
|              | D               | d  | L   | L1 | M  | Q   |        |      |                   |       |     |
| CB3-2525-110 | 24.8            | 25 | 110 | 15 | -  | -   | 1      | 0.42 | ∅ 50<br> <br>∅ 80 | M0825 | -   |
| CB3-2525-170 |                 |    | 170 |    | -  | -   |        | 0.66 |                   |       |     |
| CB3-25       | 25.0            | -  | 40  | -  | 12 | -   | 2      | 0.17 |                   |       |     |
| CB3-3225-110 | 24.8            | 32 | 110 | 40 | -  | 10° | 3      | 0.62 |                   |       |     |
| CB3-3225-170 |                 |    | 170 | 70 | -  | 4°  |        | 0.96 |                   |       |     |

• To check the max. AR, please refer to the page of relative inserts or cutters.





# UFO T-SLOT CUTTER



Video

## Features

Available in materials



Cost  
**200~300%**  
SAVING

Applicable  
Machines  
CNC Milling machine

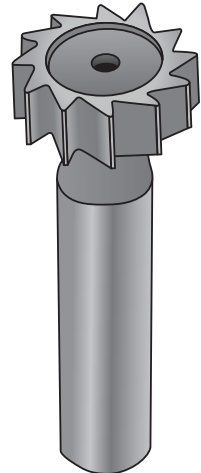
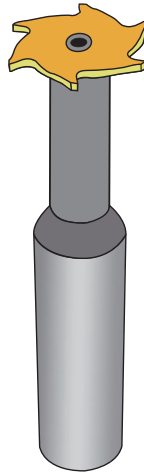
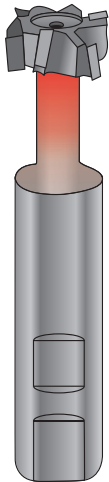
Efficiency  
**400%**  
UP

Durability  
**300%**  
UP

# Insert Design

1. Minimum thickness starts from 0.5mm, and the insert thickness under 2mm is available in slight variation with every 0.1mm difference.
2. 9 different types of inserts are available for selection, the minimum diameter is 10mm.
3. The front-mounted insert is positioned into a tapered seat for center-positioning, giving secure and continuous performance.
4. High productivity with more teeth.( 4-8 teeth )

# Product Introduction



**Carbide brazed**

**Toolholders grade: HSS  
Hardness up to HRC 58**

**Toolholders grade: HSS**

1. Welding carbides on the cutter under high temperature will degrade the tool-holder hardness.
2. Insufficient hardness.
3. Only available in thickness over 2mm.

1. One tool-holder can fit in 400 different types of inserts.
2. Insert has patented geometry design.
3. Most suitable for high speed cutting.

1. Insufficient hardness.
2. Hard to regrind.
3. Not suitable for high speed cutting.



# UFO T-SLOT<sup>®</sup>

## FULL RANGE

PATENTED



• P. 33-59

Thickness:

0.5/0.6/0.7/0.8/0.9/1.0/1.1/1.2/1.3/  
1.4/1.5/1.6/1.7/1.8/1.9/2.0/2.2/2.5/  
3.0/3.5/4.0/4.2/4.5/5.0/6.0/8.0 mm



Dia. 10/12/15/20/25/30 mm



• P. 61-66

Thickness:

1.4/1.5/1.6/1.8/2.0/2.2/2.5/2.7/3.0/3.2/  
3.5/4.0/4.2/4.5/5.0/5.2/5.5/6.0/8.0 mm



Dia. 32/35/40/50/60/80 mm



• P. 67-69

Thickness:

4/5/6/7/8/10/12 mm



Dia. 50/60/80 mm



• P. 70

Radius:

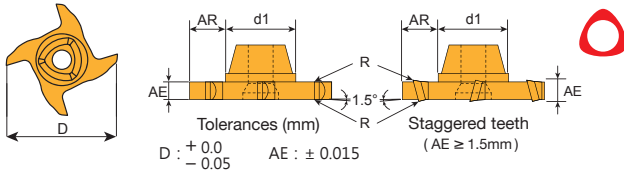
R4/R5/R6 mm



Dia. 60/80 mm

# UFO T-slot Inserts





- Toolholders P. 24
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |         |         |                  |
|-----------------|-----|---------|---------|------------------|
| D               | d1  | AE      | Max. AR | R                |
| 10              | 6.5 | 0.5-0.6 | 1.5     | R0.05<br>± 0.025 |
|                 |     | 0.7-0.8 |         |                  |
|                 |     | 0.9-1.0 |         |                  |
|                 |     | 1.1-1.2 |         |                  |
|                 |     | 1.3-1.4 |         |                  |
|                 |     | 1.5-1.6 |         |                  |
|                 |     | 1.7-1.8 |         |                  |
|                 |     | 1.9-2.0 |         |                  |
|                 |     | 2.2-2.5 |         |                  |
|                 |     | 3.0     |         |                  |

\*Only "ME, B100 & ME, F20" insert are designed with corner radius.

UFO Family

| Inserts   | Order Code    | Grades  |      |      |     |     |        |      |          |    |   |  |  |  |  |
|---|---------------|---------|------|------|-----|-----|--------|------|----------|----|---|--|--|--|--|
|   |               | Carbide |      |      |     |     | Cermet |      | Uncoated |    |   |  |  |  |  |
|   |               | B100    | C200 | C250 | F20 | F30 | CE100  | CE60 | K10      | CE |   |  |  |  |  |
|  <p>4 flutes</p>   | 3T0610-0.5-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.6-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.7-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.8-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.9-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.0-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.1-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.2-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.3-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.4-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.5-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.6-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.7-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.8-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.9-E  |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-2.0-E  |               |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-2.2-E  |               |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-2.5-E  |               |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-3.0-E  |               |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
|  <p>4 flutes</p> | 3T0610-0.5-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.6-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.7-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.8-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-0.9-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.0-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.1-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.2-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.3-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.4-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.5-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.6-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.7-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.8-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
|   | 3T0610-1.9-ME | ☉       |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-2.0-ME   | ☉             |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-2.2-ME   | ☉             |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-2.5-ME   | ☉             |         |      |      |     |     |        |      |          |    |   |  |  |  |  |
| 3T0610-3.0-ME   | ☉             |         |      |      |     |     |        |      |          |    |   |  |  |  |  |



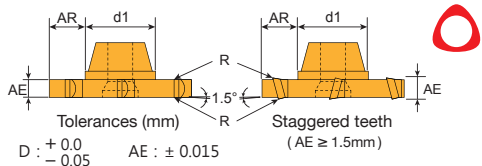
Inserts 2 PCS / Box

- ■ Steel ■ Stainless Steel ☉ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ☉ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0610-0.5-E,K10



# UFO T-slot Inserts

- Toolholders P. 24
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |         |         |                     |
|-----------------|-----|---------|---------|---------------------|
| D               | d1  | AE      | Max. AR | R                   |
| 11              | 6.5 | 0.5-0.6 | 2.0     | R0.05<br>±<br>0.025 |
|                 |     | 0.7-0.8 |         |                     |
|                 |     | 0.9-1.0 |         |                     |
|                 |     | 1.1-1.2 |         |                     |
|                 |     | 1.3-1.4 |         |                     |
|                 |     | 1.5-1.6 |         |                     |
|                 |     | 1.7-1.8 |         |                     |
|                 |     | 1.9-2.0 |         |                     |
|                 |     | 2.2-2.5 |         |                     |
|                 |     | 3.0     |         |                     |

\* Only "ME, B100 & ME, F20" insert are designed with corner radius.

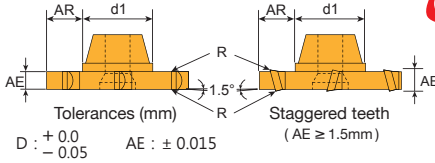
| Inserts         | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |  |  |  |
|-----------------|---------------|---------|------|------|-----|--------|-------|----------|-----|--|----|--|--|--|
|                 |               | Carbide |      |      |     | Cermet |       | Uncoated |     |  |    |  |  |  |
|                 |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |  | CE |  |  |  |
| <p>4 flutes</p> | 3T0611-0.5-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.6-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.7-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.8-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.9-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.0-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.1-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.2-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.3-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.4-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.5-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.6-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.7-E  |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-1.8-E    |               |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-1.9-E    |               |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-2.0-E    |               |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-2.2-E    |               |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-2.5-E    |               |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-3.0-E    |               |         |      |      |     |        |       |          |     |  |    |  |  |  |
| <p>4 flutes</p> | 3T0611-0.5-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.6-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.7-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.8-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-0.9-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.0-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.1-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.2-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.3-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.4-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.5-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.6-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
|                 | 3T0611-1.7-ME | ⊗       |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-1.8-ME   | ⊗             |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-1.9-ME   | ⊗             |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-2.0-ME   | ⊗             |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-2.2-ME   | ⊗             |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-2.5-ME   | ⊗             |         |      |      |     |        |       |          |     |  |    |  |  |  |
| 3T0611-3.0-ME   | ⊗             |         |      |      |     |        |       |          |     |  |    |  |  |  |

\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ■ Steel ■ Stainless Steel ⊗ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0611-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 24
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |         |         |               |
|-----------------|-----|---------|---------|---------------|
| D               | d1  | AE      | Max. AR | R             |
| 12              | 6.5 | 0.5-0.6 | 2.5     | R0.05 ± 0.025 |
|                 |     | 0.7-0.8 |         |               |
|                 |     | 0.9-1.0 |         |               |
|                 |     | 1.1-1.2 |         |               |
|                 |     | 1.3-1.4 |         |               |
|                 |     | 1.5-1.6 |         |               |
|                 |     | 1.7-1.8 |         |               |
|                 |     | 1.9-2.0 |         |               |
|                 |     | 2.2-2.5 |         |               |
|                 |     | 3.0     |         |               |

\* Only "ME, B100 & ME, F20" insert are designed with corner radius.

UFO Family

| Inserts         | Order Code    | Grades  |      |      |     |     |        |      |          |  |    |  |  |
|-----------------|---------------|---------|------|------|-----|-----|--------|------|----------|--|----|--|--|
|                 |               | Carbide |      |      |     |     | Cermet |      | Uncoated |  |    |  |  |
|                 |               | B100    | C200 | C250 | F20 | F30 | CE100  | CE60 | K10      |  | CE |  |  |
| <p>4 flutes</p> | 3T0612-0.5-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.6-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.7-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.8-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.9-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.0-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.1-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.2-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.3-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.4-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.5-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.6-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.7-E  |         |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.8-E  |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-1.9-E    |               |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-2.0-E    |               |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-2.2-E    |               |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-2.5-E    |               |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-3.0-E    |               |         |      |      |     |     |        |      |          |  |    |  |  |
| <p>4 flutes</p> | 3T0612-0.5-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.6-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.7-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.8-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-0.9-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.0-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.1-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.2-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.3-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.4-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.5-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.6-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.7-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
|                 | 3T0612-1.8-ME | ⊙       |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-1.9-ME   | ⊙             |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-2.0-ME   | ⊙             |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-2.2-ME   | ⊙             |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-2.5-ME   | ⊙             |         |      |      |     |     |        |      |          |  |    |  |  |
| 3T0612-3.0-ME   | ⊙             |         |      |      |     |     |        |      |          |  |    |  |  |



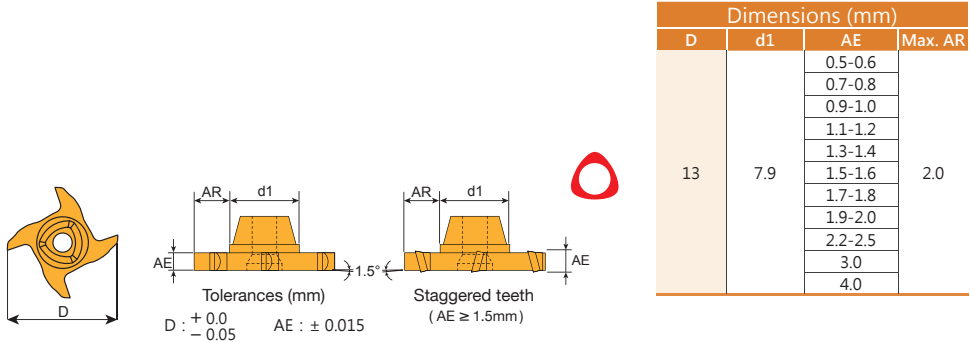
Inserts 2 PCS / Box

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0612-0.5-E,K10



# UFO T-slot Inserts

- Toolholders P. 25
- Cutting Data P. 119 - 120



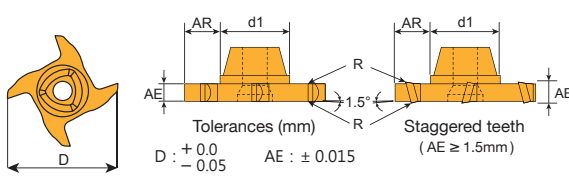
| Inserts      | Order Code   | Grades  |      |      |     |     |        |      |          |  |    |
|--------------|--------------|---------|------|------|-----|-----|--------|------|----------|--|----|
|              |              | Carbide |      |      |     |     | Cermet |      | Uncoated |  |    |
|              |              | B100    | C200 | C250 | F20 | F30 | CE100  | CE60 | K10      |  | CE |
| <br>4 flutes | 3T0813-0.5-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-0.6-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-0.7-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-0.8-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-0.9-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.0-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.1-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.2-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.3-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.4-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.5-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.6-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.7-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.8-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-1.9-E |         |      |      |     |     |        |      |          |  |    |
|              | 3T0813-2.0-E |         |      |      |     |     |        |      |          |  |    |
| 3T0813-2.2-E |              |         |      |      |     |     |        |      |          |  |    |
| 3T0813-2.5-E |              |         |      |      |     |     |        |      |          |  |    |
| 3T0813-3.0-E |              |         |      |      |     |     |        |      |          |  |    |
| 3T0813-4.0-E |              |         |      |      |     |     |        |      |          |  |    |

\* M.O.Q: 12PCS  
 \* Make-to-Order.

- Steel Stainless Steel Steel/Stainless Steel/Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0813-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 25
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |         |         |                  |
|-----------------|-----|---------|---------|------------------|
| D               | d1  | AE      | Max. AR | R                |
| 13              | 7.9 | 0.5-0.6 | 2.0     | R0.05<br>± 0.025 |
|                 |     | 0.7-0.8 |         |                  |
|                 |     | 0.9-1.0 |         |                  |
|                 |     | 1.1-1.2 |         |                  |
|                 |     | 1.3-1.4 |         |                  |
|                 |     | 1.5-1.6 |         |                  |
|                 |     | 1.7-1.8 |         |                  |
|                 |     | 1.9-2.0 |         |                  |
|                 |     | 2.2-2.5 |         |                  |
|                 |     | 3.0     |         |                  |
| 4.0             |     |         |         |                  |

| Inserts       | Order Code    | Grades  |      |      |     |     |        |      |          |  |    |
|---------------|---------------|---------|------|------|-----|-----|--------|------|----------|--|----|
|               |               | Carbide |      |      |     |     | Cermet |      | Uncoated |  |    |
|               |               | B100    | C200 | C250 | F20 | F30 | CE100  | CE60 | K10      |  | CE |
| <br>4 flutes  | 3T0813-0.5-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-0.6-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-0.7-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-0.8-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-0.9-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.0-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.1-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.2-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.3-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.4-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.5-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.6-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.7-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.8-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-1.9-ME | ☉       |      |      |     |     |        |      |          |  |    |
|               | 3T0813-2.0-ME | ☉       |      |      |     |     |        |      |          |  |    |
| 3T0813-2.2-ME | ☉             |         |      |      |     |     |        |      |          |  |    |
| 3T0813-2.5-ME | ☉             |         |      |      |     |     |        |      |          |  |    |
| 3T0813-3.0-ME | ☉             |         |      |      |     |     |        |      |          |  |    |
| 3T0813-4.0-ME | ☉             |         |      |      |     |     |        |      |          |  |    |

\* M.O.Q: 12PCS  
 \* Make-to-Order.

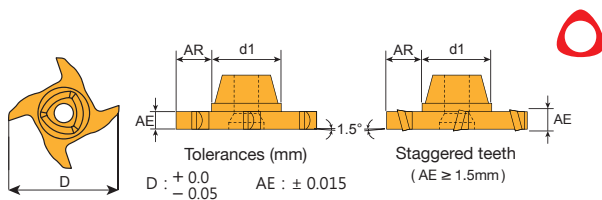
- ■ Steel ■ Stainless Steel ☉ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ☉ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0813-0.5-ME,B100





# UFO T-slot Inserts

- Toolholders P. 25
- Cutting Data P. 119 - 120



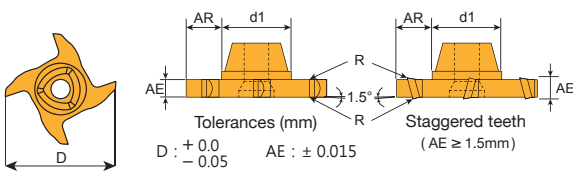
| Dimensions (mm) |     |         |         |
|-----------------|-----|---------|---------|
| D               | d1  | AE      | Max. AR |
| 14              | 7.9 | 0.5-0.6 | 2.5     |
|                 |     | 0.7-0.8 |         |
|                 |     | 0.9-1.0 |         |
|                 |     | 1.1-1.2 |         |
|                 |     | 1.3-1.4 |         |
|                 |     | 1.5-1.6 |         |
|                 |     | 1.7-1.8 |         |
|                 |     | 1.9-2.0 |         |
|                 |     | 2.2-2.5 |         |
|                 |     | 3.0     |         |
| 4.0             |     |         |         |

| Inserts      | Order Code   | Grades  |      |      |     |     |        |          |     |    |  |  |                                    |
|--------------|--------------|---------|------|------|-----|-----|--------|----------|-----|----|--|--|------------------------------------|
|              |              | Carbide |      |      |     |     | Cermet | Uncoated |     |    |  |  |                                    |
|              |              | B100    | C200 | C250 | F20 | F30 | CE100  | CE60     | K10 | CE |  |  |                                    |
| <br>4 flutes | 3T0814-0.5-E |         |      |      |     |     |        |          |     |    |  |  | * M.O.Q: 12PCS<br>* Make-to-Order. |
|              | 3T0814-0.6-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-0.7-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-0.8-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-0.9-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.0-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.1-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.2-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.3-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.4-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.5-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.6-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.7-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.8-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-1.9-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
|              | 3T0814-2.0-E |         |      |      |     |     |        |          |     |    |  |  |                                    |
| 3T0814-2.2-E |              |         |      |      |     |     |        |          |     |    |  |  |                                    |
| 3T0814-2.5-E |              |         |      |      |     |     |        |          |     |    |  |  |                                    |
| 3T0814-3.0-E |              |         |      |      |     |     |        |          |     |    |  |  |                                    |
| 3T0814-4.0-E |              |         |      |      |     |     |        |          |     |    |  |  |                                    |

- Steel Stainless Steel Steel/Stainless Steel/Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0814-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 25
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |         |         |                     |
|-----------------|-----|---------|---------|---------------------|
| D               | d1  | AE      | Max. AR | R                   |
| 14              | 7.9 | 0.5-0.6 | 2.5     | R0.05<br>±<br>0.025 |
|                 |     | 0.7-0.8 |         |                     |
|                 |     | 0.9-1.0 |         |                     |
|                 |     | 1.1-1.2 |         |                     |
|                 |     | 1.3-1.4 |         |                     |
|                 |     | 1.5-1.6 |         |                     |
|                 |     | 1.7-1.8 |         |                     |
|                 |     | 1.9-2.0 |         |                     |
|                 |     | 2.2-2.5 |         |                     |
|                 |     | 3.0     |         |                     |
| 4.0             |     |         |         |                     |

| Inserts       | Order Code    | Grades  |      |      |     |         |       |          |     |  |    |
|---------------|---------------|---------|------|------|-----|---------|-------|----------|-----|--|----|
|               |               | Carbide |      |      |     | Cermets |       | Uncoated |     |  |    |
|               |               | B100    | C200 | C250 | F20 | F30     | CE100 | CE60     | K10 |  | CE |
| <br>4 flutes  | 3T0814-0.5-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-0.6-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-0.7-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-0.8-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-0.9-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.0-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.1-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.2-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.3-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.4-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.5-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.6-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.7-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.8-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-1.9-ME | ☉       |      |      |     |         |       |          |     |  |    |
|               | 3T0814-2.0-ME | ☉       |      |      |     |         |       |          |     |  |    |
| 3T0814-2.2-ME | ☉             |         |      |      |     |         |       |          |     |  |    |
| 3T0814-2.5-ME | ☉             |         |      |      |     |         |       |          |     |  |    |
| 3T0814-3.0-ME | ☉             |         |      |      |     |         |       |          |     |  |    |
| 3T0814-4.0-ME | ☉             |         |      |      |     |         |       |          |     |  |    |

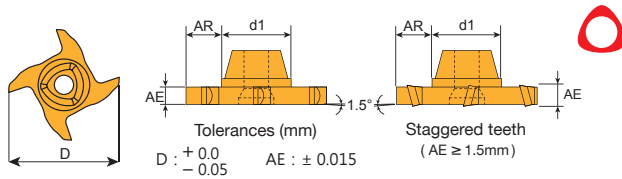
\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ☐ Steel ☐ Stainless Steel ☉ Steel/Stainless Steel/Super alloy ☐ Cast Iron ☐ Aluminum ☐ Steel/Cast Iron
- ☉ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0814-0.5-ME,B100












# UFO T-slot Inserts

- Toolholders P. 25
- Cutting Data P. 119 - 120



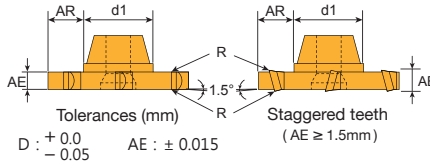
| Dimensions (mm) |     |         |         |
|-----------------|-----|---------|---------|
| D               | d1  | AE      | Max. AR |
| 15              | 7.9 | 0.5-0.6 | 3.0     |
|                 |     | 0.7-0.8 |         |
|                 |     | 0.9-1.0 |         |
|                 |     | 1.1-1.2 |         |
|                 |     | 1.3-1.4 |         |
|                 |     | 1.5-1.6 |         |
|                 |     | 1.7-1.8 |         |
|                 |     | 1.9-2.0 |         |
|                 |     | 2.2-2.5 |         |
|                 |     | 3.0     |         |
| 4.0             |     |         |         |

| Inserts  | Order Code   | Grades  |      |      |     |        |       |          |     |  |   |
|--|--------------|---------|------|------|-----|--------|-------|----------|-----|---|---|
|  |              | Carbide |      |      |     | Cermet |       | Uncoated |     |   |   |
|  |              | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE  |
|  <p>4 flutes</p> | 3T0815-0.5-E |         |      |      |     |        |       |          |     |   |  <p>Inserts 2 PCS / Box</p> |
|  | 3T0815-0.6-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-0.7-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-0.8-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-0.9-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.0-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.1-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.2-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.3-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.4-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.5-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.6-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.7-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.8-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-1.9-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T0815-2.0-E |         |      |      |     |        |       |          |     |   |   |
| 3T0815-2.2-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T0815-2.5-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T0815-3.0-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T0815-4.0-E   |              |         |      |      |     |        |       |          |     |   |   |

-  Steel  Stainless Steel  Steel/Stainless Steel/Super alloy  Cast Iron  Aluminum  Steel/Cast Iron
-  Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0815-0.5-E,K10




# UFO T-slot Inserts

- Toolholders P. 25
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |         |         |                     |
|-----------------|-----|---------|---------|---------------------|
| D               | d1  | AE      | Max. AR | R                   |
| 15              | 7.9 | 0.5-0.6 | 3.0     | R0.05<br>±<br>0.025 |
|                 |     | 0.7-0.8 |         |                     |
|                 |     | 0.9-1.0 |         |                     |
|                 |     | 1.1-1.2 |         |                     |
|                 |     | 1.3-1.4 |         |                     |
|                 |     | 1.5-1.6 |         |                     |
|                 |     | 1.7-1.8 |         |                     |
|                 |     | 1.9-2.0 |         |                     |
|                 |     | 2.2-2.5 |         |                     |
|                 |     | 3.0     |         |                     |
| 4.0             |     |         |         |                     |

UFO Family

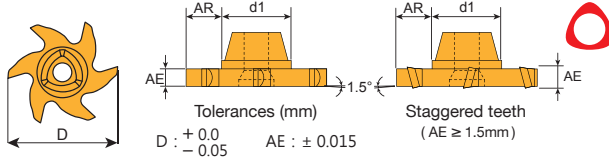
| Inserts  | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |  |   |
|--|---------------|---------|------|------|-----|--------|-------|----------|-----|---|----|--|---|
|  |               | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |  |   |
|  |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |  |   |
| <br>4 flutes | 3T0815-0.5-ME | ☉       |      |      |     |        |       |          |     |   |    |  | <br>Inserts 2 PCS / Box |
|  | 3T0815-0.6-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-0.7-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-0.8-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-0.9-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.0-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.1-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.2-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.3-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.4-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.5-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.6-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.7-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.8-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-1.9-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
|  | 3T0815-2.0-ME | ☉       |      |      |     |        |       |          |     |   |    |  |   |
| 3T0815-2.2-ME  | ☉             |         |      |      |     |        |       |          |     |   |    |  |   |
| 3T0815-2.5-ME  | ☉             |         |      |      |     |        |       |          |     |   |    |  |   |
| 3T0815-3.0-ME  | ☉             |         |      |      |     |        |       |          |     |   |    |  |   |
| 3T0815-4.0-ME  | ☉             |         |      |      |     |        |       |          |     |   |    |  |   |

- ■ Steel ■ Stainless Steel ☉ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ☉ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0815-0.5-ME,B100



# UFO T-slot Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |
|-----------------|----|---------|---------|
| D               | d1 | AE      | Max. AR |
| 18              | 10 | 0.5-0.6 | 3.5     |
|                 |    | 0.7-0.8 |         |
|                 |    | 0.9-1.0 |         |
|                 |    | 1.1-1.2 |         |
|                 |    | 1.3-1.4 |         |
|                 |    | 1.5-1.6 |         |
|                 |    | 1.7-1.8 |         |
|                 |    | 1.9-2.0 |         |
|                 |    | 2.2-2.5 |         |
|                 |    | 3.0-4.0 |         |
|                 |    | 4.2-5.0 |         |
|                 |    | 6.0     |         |
| 8.0             |    |         |         |

| Inserts | Order Code   | Grades  |      |      |     |        |       |          |     |  |    |
|---------|--------------|---------|------|------|-----|--------|-------|----------|-----|--|----|
|         |              | Carbide |      |      |     | Cermet |       | Uncoated |     |  |    |
|         |              | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |  | CE |
|         | 3T1018-0.5-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-0.6-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-0.7-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-0.8-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-0.9-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.0-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.1-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.2-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.3-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.4-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.5-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.6-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.7-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.8-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-1.9-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-2.0-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-2.2-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-2.5-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-3.0-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-3.5-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-4.0-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-4.2-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-4.5-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-5.0-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-6.0-E |         |      |      |     |        |       |          |     |  |    |
|         | 3T1018-8.0-E |         |      |      |     |        |       |          |     |  |    |



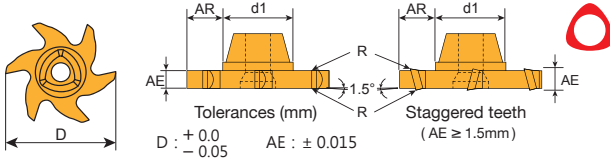
6 flutes

\* M.O.Q: 12PCS  
\* Make-to-Order.

- ■ Steel ■ Stainless Steel ⊗ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1018-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |                     |
|-----------------|----|---------|---------|---------------------|
| D               | d1 | AE      | Max. AR | R                   |
| 18              | 10 | 0.5-0.6 | 3.5     | R0.05<br>±<br>0.025 |
|                 |    | 0.7-0.8 |         |                     |
|                 |    | 0.9-1.0 |         |                     |
|                 |    | 1.1-1.2 |         |                     |
|                 |    | 1.3-1.4 |         |                     |
|                 |    | 1.5-1.6 |         |                     |
|                 |    | 1.7-1.8 |         |                     |
|                 |    | 1.9-2.0 |         |                     |
|                 |    | 2.2-2.5 |         |                     |
|                 |    | 3.0-4.0 |         |                     |
|                 |    | 4.2-5.0 |         |                     |
|                 |    | 6.0     |         |                     |
| 8.0             |    |         |         |                     |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |        |       |          |  |     |    |
|---------|---------------|---------|------|------|-----|--------|-------|----------|--|-----|----|
|         |               | Carbide |      |      |     | Cermet |       | Uncoated |  |     |    |
|         |               | B100    | C200 | CZ50 | F20 | F30    | CEL00 | CE60     |  | K10 | CE |
|         | 3T1018-0.5-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-0.6-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-0.7-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-0.8-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-0.9-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.0-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.1-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.2-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.3-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.4-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.5-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.6-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.7-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.8-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-1.9-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-2.0-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-2.2-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-2.5-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-3.0-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-3.5-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-4.0-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-4.2-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-4.5-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-5.0-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-6.0-ME | ☉       |      |      |     |        |       |          |  |     |    |
|         | 3T1018-8.0-ME | ☉       |      |      |     |        |       |          |  |     |    |



6 flutes

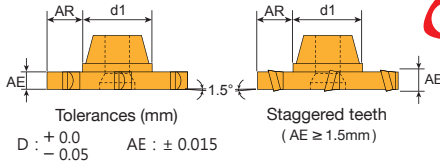
\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ■ Steel ■ Stainless Steel ☉ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron ☉ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1018-0.5-ME,B100



# UFO T-slot Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120










| Dimensions (mm) |    |         |         |
|-----------------|----|---------|---------|
| D               | d1 | AE      | Max. AR |
| 19              | 10 | 0.5-0.6 | 4.0     |
|                 |    | 0.7-0.8 |         |
|                 |    | 0.9-1.0 |         |
|                 |    | 1.1-1.2 |         |
|                 |    | 1.3-1.4 |         |
|                 |    | 1.5-1.6 |         |
|                 |    | 1.7-1.8 |         |
|                 |    | 1.9-2.0 |         |
|                 |    | 2.2-2.5 |         |
|                 |    | 3.0-4.0 |         |
|                 |    | 4.2-5.0 |         |
| 6.0             |    |         |         |
| 8.0             |    |         |         |

| Inserts | Order Code   | Grades  |      |      |     |        |       |          |     |  |    |
|---------|--------------|---------|------|------|-----|--------|-------|----------|-----|---|----|
|         |              | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |
|         |              | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |
|         | 3T1019-0.5-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-0.6-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-0.7-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-0.8-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-0.9-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.0-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.1-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.2-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.3-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.4-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.5-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.6-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.7-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.8-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-1.9-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-2.0-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-2.2-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-2.5-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-3.0-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-3.5-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-4.0-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-4.2-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-4.5-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-5.0-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-6.0-E |         |      |      |     |        |       |          |     |   |    |
|         | 3T1019-8.0-E |         |      |      |     |        |       |          |     |   |    |



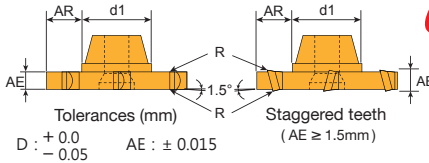
6 flutes

\* M.O.Q: 12PCS  
 \* Make-to-Order.

-  Steel  Stainless Steel  Steel/Stainless Steel/Super alloy  Cast Iron  Aluminum  Steel/Cast Iron
-  Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1019-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |                     |
|-----------------|----|---------|---------|---------------------|
| D               | d1 | AE      | Max. AR | R                   |
| 19              | 10 | 0.5-0.6 | 4.0     | R0.05<br>±<br>0.025 |
|                 |    | 0.7-0.8 |         |                     |
|                 |    | 0.9-1.0 |         |                     |
|                 |    | 1.1-1.2 |         |                     |
|                 |    | 1.3-1.4 |         |                     |
|                 |    | 1.5-1.6 |         |                     |
|                 |    | 1.7-1.8 |         |                     |
|                 |    | 1.9-2.0 |         |                     |
|                 |    | 2.2-2.5 |         |                     |
|                 |    | 3.0-4.0 |         |                     |
|                 |    | 4.2-5.0 |         |                     |
|                 |    | 6.0     |         |                     |
|                 |    | 8.0     |         |                     |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |
|---------|---------------|---------|------|------|-----|--------|-------|----------|-----|--|----|
|         |               | Carbide |      |      |     | Cermet |       | Uncoated |     |  |    |
|         |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |  | CE |
|         | 3T1019-0.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-0.6-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-0.7-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-0.8-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-0.9-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.1-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.3-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.4-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.6-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.7-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.8-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-1.9-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-2.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-2.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-2.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-3.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-3.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-4.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-4.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-4.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-5.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-6.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1019-8.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |



6 flutes

\* M.O.Q: 12PCS  
 \* Make-to-Order.

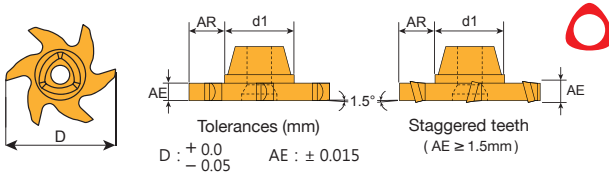
- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1019-0.5-ME,B100






# UFO T-slot Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |
|-----------------|----|---------|---------|
| D               | d1 | AE      | Max. AR |
| 20              | 10 | 0.5-0.6 | 4.5     |
|                 |    | 0.7-0.8 |         |
|                 |    | 0.9-1.0 |         |
|                 |    | 1.1-1.2 |         |
|                 |    | 1.3-1.4 |         |
|                 |    | 1.5-1.6 |         |
|                 |    | 1.7-1.8 |         |
|                 |    | 1.9-2.0 |         |
|                 |    | 2.2-2.5 |         |
|                 |    | 3.0-4.0 |         |
| 4.2-5.0         |    |         |         |
| 6.0             |    |         |         |
| 8.0             |    |         |         |

| Inserts | Order Code   | Grades  |      |      |     |     |        |          |     |  |    |
|---------|--------------|---------|------|------|-----|-----|--------|----------|-----|---|----|
|         |              | Carbide |      |      |     |     | Cermet | Uncoated |     |   |    |
|         |              | B100    | C200 | C250 | F20 | F30 | CE100  | CE60     | K10 |   | CE |
|         | 3T1020-0.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-0.6-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-0.7-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-0.8-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-0.9-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.1-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.2-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.3-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.4-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.6-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.7-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.8-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-1.9-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-2.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-2.2-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-2.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-3.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-3.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-4.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-4.2-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-4.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-5.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-6.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1020-8.0-E |         |      |      |     |     |        |          |     |   |    |



6 flutes

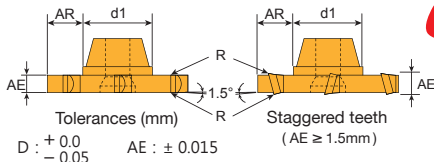


Inserts 2 PCS / Box

- ■ Steel ■ Stainless Steel ■ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ■ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1020-0.5-E,K10


# UFO T-slot Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |                  |
|-----------------|----|---------|---------|------------------|
| D               | d1 | AE      | Max. AR | R                |
| 20              | 10 | 0.5-0.6 | 4.5     | R0.05<br>± 0.025 |
|                 |    | 0.7-0.8 |         |                  |
|                 |    | 0.9-1.0 |         |                  |
|                 |    | 1.1-1.2 |         |                  |
|                 |    | 1.3-1.4 |         |                  |
|                 |    | 1.5-1.6 |         |                  |
|                 |    | 1.7-1.8 |         |                  |
|                 |    | 1.9-2.0 |         |                  |
|                 |    | 2.2-2.5 |         |                  |
|                 |    | 3.0-4.0 |         |                  |
|                 |    | 4.2-5.0 |         |                  |
|                 |    | 6.0     |         |                  |
|                 |    | 8.0     |         |                  |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |
|---------|---------------|---------|------|------|-----|--------|-------|----------|-----|---|----|
|         |               | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |
|         |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |
|         | 3T1020-0.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-0.6-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-0.7-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-0.8-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-0.9-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.1-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.3-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.4-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.6-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.7-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.8-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-1.9-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-2.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-2.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-2.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-3.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-3.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-4.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-4.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-4.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-5.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-6.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1020-8.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |



6 flutes



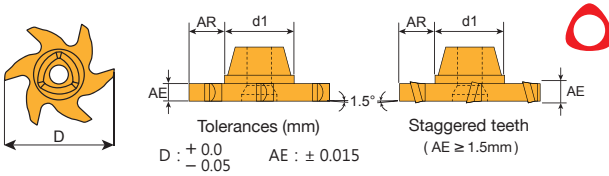
Inserts 2 PCS / Box

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1020-0.5-ME,B100



# UFO T-slot Inserts

- Toolholders P. 27
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |
|-----------------|----|---------|---------|
| D               | d1 | AE      | Max. AR |
| 23              | 12 | 0.5-0.6 | 5.0     |
|                 |    | 0.7-0.8 |         |
|                 |    | 0.9-1.0 |         |
|                 |    | 1.1-1.2 |         |
|                 |    | 1.3-1.4 |         |
|                 |    | 1.5-1.6 |         |
|                 |    | 1.7-1.8 |         |
|                 |    | 1.9-2.0 |         |
|                 |    | 2.2-2.5 |         |
|                 |    | 3.0-4.0 |         |
| 4.2-5.0         |    |         |         |
| 6.0             |    |         |         |
| 8.0             |    |         |         |

| Inserts | Order Code   | Grades  |      |      |     |     |        |          |     |  |    |
|---------|--------------|---------|------|------|-----|-----|--------|----------|-----|--|----|
|         |              | Carbide |      |      |     |     | Cermet | Uncoated |     |  |    |
|         |              | B100    | C200 | C250 | F20 | F30 | CE100  | CE60     | K10 |  | CE |
|         | 3T1223-0.5-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-0.6-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-0.7-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-0.8-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-0.9-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.0-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.1-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.2-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.3-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.4-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.5-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.6-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.7-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.8-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-1.9-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-2.0-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-2.2-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-2.5-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-3.0-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-3.5-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-4.0-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-4.2-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-4.5-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-5.0-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-6.0-E |         |      |      |     |     |        |          |     |  |    |
|         | 3T1223-8.0-E |         |      |      |     |     |        |          |     |  |    |



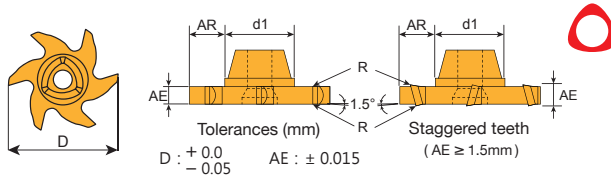
6 flutes

\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ■ Steel ■ Stainless Steel ■ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1223-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 27
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |                     |
|-----------------|----|---------|---------|---------------------|
| D               | d1 | AE      | Max. AR | R                   |
| 23              | 12 | 0.5-0.6 | 5.0     | R0.05<br>±<br>0.025 |
|                 |    | 0.7-0.8 |         |                     |
|                 |    | 0.9-1.0 |         |                     |
|                 |    | 1.1-1.2 |         |                     |
|                 |    | 1.3-1.4 |         |                     |
|                 |    | 1.5-1.6 |         |                     |
|                 |    | 1.7-1.8 |         |                     |
|                 |    | 1.9-2.0 |         |                     |
|                 |    | 2.2-2.5 |         |                     |
|                 |    | 3.0-4.0 |         |                     |
|                 |    | 4.2-5.0 |         |                     |
| 6.0             |    |         |         |                     |
| 8.0             |    |         |         |                     |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |
|---------|---------------|---------|------|------|-----|--------|-------|----------|-----|--|----|
|         |               | Carbide |      |      |     | Cermet |       | Uncoated |     |  |    |
|         |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |  | CE |
|         | 3T1223-0.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-0.6-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-0.7-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-0.8-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-0.9-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.1-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.3-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.4-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.6-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.7-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.8-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-1.9-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-2.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-2.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-2.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-3.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-3.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-4.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-4.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-4.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-5.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-6.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1223-8.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |

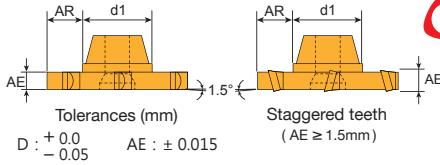
\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, i.e.: 3T1223-0.5-ME,B100




# UFO T-slot Inserts








- Toolholders P. 27
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |
|-----------------|----|---------|---------|
| D               | d1 | AE      | Max. AR |
| 24              | 12 | 0.5-0.6 | 5.5     |
|                 |    | 0.7-0.8 |         |
|                 |    | 0.9-1.0 |         |
|                 |    | 1.1-1.2 |         |
|                 |    | 1.3-1.4 |         |
|                 |    | 1.5-1.6 |         |
|                 |    | 1.7-1.8 |         |
|                 |    | 1.9-2.0 |         |
|                 |    | 2.2-2.5 |         |
|                 |    | 3.0-4.0 |         |
| 4.2-5.0         |    |         |         |
| 6.0             |    |         |         |
| 8.0             |    |         |         |

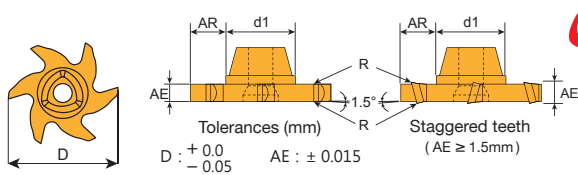
| Inserts  | Order Code   | Grades  |      |      |     |     |        |      |          |  |    |
|--|--------------|---------|------|------|-----|-----|--------|------|----------|---|----|
|  |              | Carbide |      |      |     |     | Cermet |      | Uncoated |   |    |
|  |              | B100    | C200 | C250 | F20 | F30 | CE100  | CE60 | K10      |   | CE |
|  | 3T1224-0.5-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-0.6-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-0.7-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-0.8-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-0.9-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.0-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.1-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.2-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.3-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.4-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.5-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.6-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.7-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.8-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-1.9-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-2.0-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-2.2-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-2.5-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-3.0-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-3.5-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-4.0-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-4.2-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-4.5-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-5.0-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-6.0-E |         |      |      |     |     |        |      |          |   |    |
|  | 3T1224-8.0-E |         |      |      |     |     |        |      |          |   |    |

\* M.O.Q: 12PCS  
 \* Make-to-Order.

-  Steel  Stainless Steel  Steel/Stainless Steel/Super alloy  Cast Iron  Aluminum  Steel/Cast Iron
-  Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1224-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 27
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |                     |
|-----------------|----|---------|---------|---------------------|
| D               | d1 | AE      | Max. AR | R                   |
| 24              | 12 | 0.5-0.6 | 5.5     | R0.05<br>±<br>0.025 |
|                 |    | 0.7-0.8 |         |                     |
|                 |    | 0.9-1.0 |         |                     |
|                 |    | 1.1-1.2 |         |                     |
|                 |    | 1.3-1.4 |         |                     |
|                 |    | 1.5-1.6 |         |                     |
|                 |    | 1.7-1.8 |         |                     |
|                 |    | 1.9-2.0 |         |                     |
|                 |    | 2.2-2.5 |         |                     |
|                 |    | 3.0-4.0 |         |                     |
|                 |    | 4.2-5.0 |         |                     |
| 6.0             |    |         |         |                     |
| 8.0             |    |         |         |                     |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |
|---------|---------------|---------|------|------|-----|--------|-------|----------|-----|--|----|
|         |               | Carbide |      |      |     | Cermet |       | Uncoated |     |  |    |
|         |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |  | CE |
|         | 3T1224-0.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-0.6-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-0.7-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-0.8-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-0.9-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.1-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.3-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.4-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.6-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.7-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.8-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-1.9-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-2.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-2.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-2.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-3.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-3.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-4.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-4.2-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-4.5-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-5.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-6.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |
|         | 3T1224-8.0-ME | ⊙       |      |      |     |        |       |          |     |  |    |



6 flutes

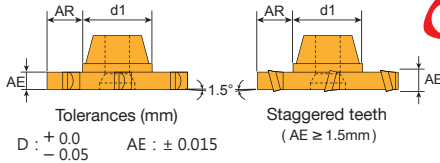
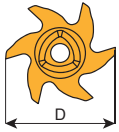
\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1224-0.5-ME,B100













# UFO T-slot Inserts

- Toolholders P. 27
- Cutting Data P. 119 - 120



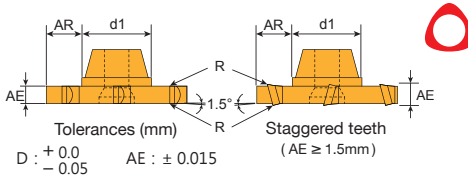
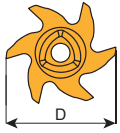
| Dimensions (mm) |    |         |         |
|-----------------|----|---------|---------|
| D               | d1 | AE      | Max. AR |
| 25              | 12 | 0.5-0.6 | 6.0     |
|                 |    | 0.7-0.8 |         |
|                 |    | 0.9-1.0 |         |
|                 |    | 1.1-1.2 |         |
|                 |    | 1.3-1.4 |         |
|                 |    | 1.5-1.6 |         |
|                 |    | 1.7-1.8 |         |
|                 |    | 1.9-2.0 |         |
|                 |    | 2.2-2.5 |         |
|                 |    | 3.0-4.0 |         |
| 4.2-5.0         |    |         |         |
| 6.0             |    |         |         |
| 8.0             |    |         |         |

| Inserts  | Order Code   | Grades  |      |      |     |        |       |          |     |  |   |
|--|--------------|---------|------|------|-----|--------|-------|----------|-----|---|---|
|  |              | Carbide |      |      |     | Cermet |       | Uncoated |     |   |   |
|  |              | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE  |
|  <p>6 flutes</p> | 3T1225-0.5-E |         |      |      |     |        |       |          |     |   |  <p>Inserts 2 PCS / Box</p> |
|  | 3T1225-0.6-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-0.7-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-0.8-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-0.9-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.0-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.1-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.2-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.3-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.4-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.5-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.6-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.7-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.8-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-1.9-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-2.0-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-2.2-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-2.5-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-3.0-E |         |      |      |     |        |       |          |     |   |   |
|  | 3T1225-3.5-E |         |      |      |     |        |       |          |     |   |   |
| 3T1225-4.0-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T1225-4.2-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T1225-4.5-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T1225-5.0-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T1225-6.0-E   |              |         |      |      |     |        |       |          |     |   |   |
| 3T1225-8.0-E   |              |         |      |      |     |        |       |          |     |   |   |

-  Steel  Stainless Steel  Steel/Stainless Steel/Super alloy  Cast Iron  Aluminum  Steel/Cast Iron
-  Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1225-0.5-E,K10

# UFO T-slot Inserts

- Toolholders P. 27
- Cutting Data P. 119 - 120



| Dimensions (mm) |    |         |         |                   |
|-----------------|----|---------|---------|-------------------|
| D               | d1 | AE      | Max. AR | R                 |
| 25              | 12 | 0.5-0.6 | 6.0     | $R0.05 \pm 0.025$ |
|                 |    | 0.7-0.8 |         |                   |
|                 |    | 0.9-1.0 |         |                   |
|                 |    | 1.1-1.2 |         |                   |
|                 |    | 1.3-1.4 |         |                   |
|                 |    | 1.5-1.6 |         |                   |
|                 |    | 1.7-1.8 |         |                   |
|                 |    | 1.9-2.0 |         |                   |
|                 |    | 2.2-2.5 |         |                   |
|                 |    | 3.0-4.0 |         |                   |
|                 |    | 4.2-5.0 |         |                   |
| 6.0             |    |         |         |                   |
| 8.0             |    |         |         |                   |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |
|---------|---------------|---------|------|------|-----|--------|-------|----------|-----|---|----|
|         |               | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |
|         |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |
|         | 3T1225-0.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-0.6-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-0.7-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-0.8-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-0.9-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.1-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.3-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.4-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.6-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.7-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.8-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-1.9-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-2.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-2.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-2.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-3.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-3.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-4.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-4.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-4.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-5.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-6.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |
|         | 3T1225-8.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |



6 flutes



Inserts 2 PCS / Box

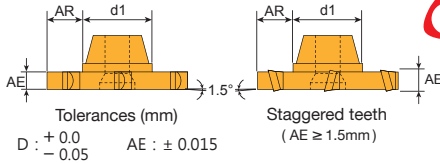
- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1225-0.5-ME,B100













# UFO T-slot Inserts

- Toolholders P. 28
- Cutting Data P. 119 - 120



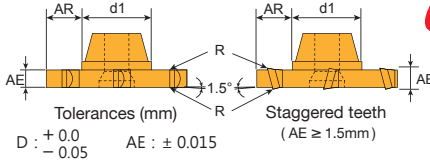
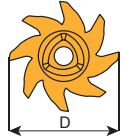
| Dimensions (mm) |      |         |         |
|-----------------|------|---------|---------|
| D               | d1   | AE      | Max. AR |
| 28              | 15.7 | 0.8-0.9 | 5.5     |
|                 |      | 1.0-1.1 |         |
|                 |      | 1.2-1.3 |         |
|                 |      | 1.4-1.5 |         |
|                 |      | 1.6-1.8 |         |
|                 |      | 1.9-2.0 |         |
|                 |      | 2.2-2.5 |         |
|                 |      | 3.0-4.0 |         |
|                 |      | 4.2-5.0 |         |

| Inserts  | Order Code   | Grades  |      |      |     |        |       |          |     |  |    |   |
|--|--------------|---------|------|------|-----|--------|-------|----------|-----|---|----|---|
|  |              | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |   |
|  |              | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |   |
|  <p>8 flutes</p> | 3T1628-0.8-E |         |      |      |     |        |       |          |     |   |    | <p>* M.O.Q: 12PCS</p> <p>* Make-to-Order.</p> |
|  | 3T1628-0.9-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.0-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.1-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.2-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.3-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.4-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.5-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.6-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.7-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.8-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-1.9-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-2.0-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-2.2-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-2.5-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-3.0-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1628-3.5-E |         |      |      |     |        |       |          |     |   |    |   |
| 3T1628-4.0-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1628-4.2-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1628-4.5-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1628-5.0-E   |              |         |      |      |     |        |       |          |     |   |    |   |

-  Steel  Stainless Steel  Steel/Stainless Steel/Super alloy  Cast Iron  Aluminum  Steel/Cast Iron
-  Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1628-0.8-E,K10

# UFO T-slot Inserts

- Toolholders P. 28
- Cutting Data P. 119 - 120



| Dimensions (mm) |      |         |         |                     |
|-----------------|------|---------|---------|---------------------|
| D               | d1   | AE      | Max. AR | R                   |
| 28              | 15.7 | 0.8-0.9 | 5.5     | R0.05<br>±<br>0.025 |
|                 |      | 1.0-1.1 |         |                     |
|                 |      | 1.2-1.3 |         |                     |
|                 |      | 1.4-1.5 |         |                     |
|                 |      | 1.6-1.8 |         |                     |
|                 |      | 1.9-2.0 |         |                     |
|                 |      | 2.2-2.5 |         |                     |
|                 |      | 3.0-4.0 |         |                     |
| 4.2-5.0         |      |         |         |                     |

UFO Family

| Inserts | Order Code    | Grades  |      |      |     |         |       |          |     |  |    |
|---------|---------------|---------|------|------|-----|---------|-------|----------|-----|--|----|
|         |               | Carbide |      |      |     | Cermets |       | Uncoated |     |  |    |
|         |               | B100    | C200 | C250 | F20 | F30     | CE100 | CE60     | K10 |  | CE |
|         | 3T1628-0.8-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-0.9-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.0-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.1-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.2-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.3-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.4-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.5-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.6-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.7-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.8-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-1.9-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-2.0-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-2.2-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-2.5-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-3.0-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-3.5-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-4.0-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-4.2-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-4.5-ME | ⊙       |      |      |     |         |       |          |     |  |    |
|         | 3T1628-5.0-ME | ⊙       |      |      |     |         |       |          |     |  |    |



8 flutes

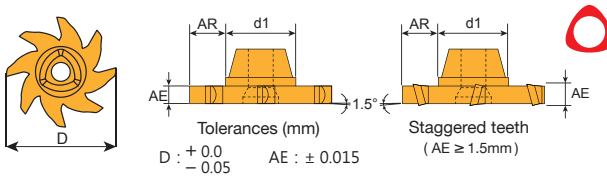
\* M.O.Q: 12PCS  
 \* Make-to-Order.

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1628-0.8-ME,B100



# UFO T-slot Inserts

- Toolholders P. 28
- Cutting Data P. 119 - 120









| Dimensions (mm) |      |         |         |
|-----------------|------|---------|---------|
| D               | d1   | AE      | Max. AR |
| 29              | 15.7 | 0.8-0.9 | 6.0     |
|                 |      | 1.0-1.1 |         |
|                 |      | 1.2-1.3 |         |
|                 |      | 1.4-1.5 |         |
|                 |      | 1.6-1.8 |         |
|                 |      | 1.9-2.0 |         |
|                 |      | 2.2-2.5 |         |
|                 |      | 3.0-4.0 |         |
|                 |      | 4.2-5.0 |         |

| Inserts | Order Code   | Grades  |      |      |     |     |        |          |     |  |    |
|---------|--------------|---------|------|------|-----|-----|--------|----------|-----|---|----|
|         |              | Carbide |      |      |     |     | Cermet | Uncoated |     |   |    |
|         |              | B100    | C200 | C250 | F20 | F30 | CE100  | CE60     | K10 |   | CE |
|         | 3T1629-0.8-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-0.9-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.1-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.2-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.3-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.4-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.6-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.7-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.8-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-1.9-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-2.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-2.2-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-2.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-3.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-3.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-4.0-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-4.2-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-4.5-E |         |      |      |     |     |        |          |     |   |    |
|         | 3T1629-5.0-E |         |      |      |     |     |        |          |     |   |    |



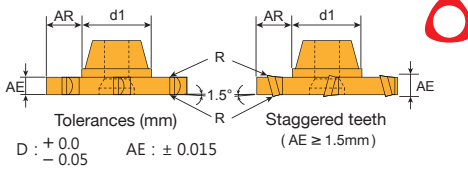
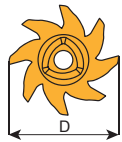
8 flutes

\* M.O.Q: 12PCS  
 \* Make-to-Order.

-  Steel  Stainless Steel  Steel/Stainless Steel/Super alloy  Cast Iron  Aluminum  Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1629-0.8-E,K10

# UFO T-slot Inserts

- Toolholders P. 28
- Cutting Data P. 119 - 120



| Dimensions (mm) |      |         |         |               |
|-----------------|------|---------|---------|---------------|
| D               | d1   | AE      | Max. AR | R             |
| 29              | 15.7 | 0.8-0.9 | 6.0     | R0.05 ± 0.025 |
|                 |      | 1.0-1.1 |         |               |
|                 |      | 1.2-1.3 |         |               |
|                 |      | 1.4-1.5 |         |               |
|                 |      | 1.6-1.8 |         |               |
|                 |      | 1.9-2.0 |         |               |
|                 |      | 2.2-2.5 |         |               |
|                 |      | 3.0-4.0 |         |               |
| 4.2-5.0         |      |         |         |               |

| Inserts  | Order Code    | Grades  |      |      |     |        |       |          |     |  |    |  |  |
|--|---------------|---------|------|------|-----|--------|-------|----------|-----|---|----|--|--|
|  |               | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |  |  |
|  |               | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |  |  |
|  <p>8 flutes</p> | 3T1629-0.8-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-0.9-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.1-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.3-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.4-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.6-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.7-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.8-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-1.9-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-2.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-2.2-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-2.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-3.0-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
|  | 3T1629-3.5-ME | ⊙       |      |      |     |        |       |          |     |   |    |  |  |
| 3T1629-4.0-ME  | ⊙             |         |      |      |     |        |       |          |     |   |    |  |  |
| 3T1629-4.2-ME  | ⊙             |         |      |      |     |        |       |          |     |   |    |  |  |
| 3T1629-4.5-ME  | ⊙             |         |      |      |     |        |       |          |     |   |    |  |  |
| 3T1629-5.0-ME  | ⊙             |         |      |      |     |        |       |          |     |   |    |  |  |

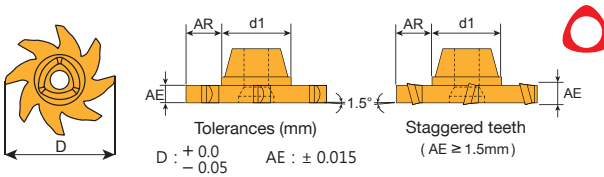
\* M.O.Q: 12PCS  
\* Make-to-Order.

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1629-0.8-ME,B100






# UFO T-slot Inserts

- Toolholders P. 28
- Cutting Data P. 119 - 120



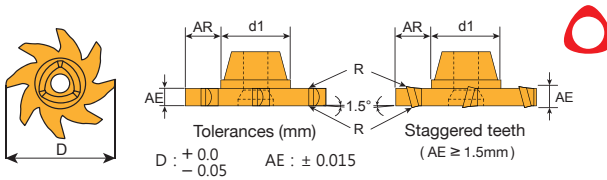
| Dimensions (mm) |      |         |         |
|-----------------|------|---------|---------|
| D               | d1   | AE      | Max. AR |
| 30              | 15.7 | 0.8-0.9 | 6.5     |
|                 |      | 1.0-1.1 |         |
|                 |      | 1.2-1.3 |         |
|                 |      | 1.4-1.5 |         |
|                 |      | 1.6-1.8 |         |
|                 |      | 1.9-2.0 |         |
|                 |      | 2.2-2.5 |         |
|                 |      | 3.0-4.0 |         |
|                 |      | 4.2-5.0 |         |

| Inserts  | Order Code   | Grades  |      |      |     |        |       |          |     |  |    |   |
|--|--------------|---------|------|------|-----|--------|-------|----------|-----|---|----|---|
|  |              | Carbide |      |      |     | Cermet |       | Uncoated |     |   |    |   |
|  |              | B100    | C200 | C250 | F20 | F30    | CE100 | CE60     | K10 |   | CE |   |
|  <p>8 flutes</p> | 3T1630-0.8-E |         |      |      |     |        |       |          |     |   |    |  <p>Inserts 2 PCS / Box</p> |
|  | 3T1630-0.9-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.0-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.1-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.2-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.3-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.4-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.5-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.6-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.7-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.8-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-1.9-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-2.0-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-2.2-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-2.5-E |         |      |      |     |        |       |          |     |   |    |   |
|  | 3T1630-3.0-E |         |      |      |     |        |       |          |     |   |    |   |
| 3T1630-3.5-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1630-4.0-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1630-4.2-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1630-4.5-E   |              |         |      |      |     |        |       |          |     |   |    |   |
| 3T1630-5.0-E   |              |         |      |      |     |        |       |          |     |   |    |   |

- ■ Steel ■ Stainless Steel ⊗ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1630-0.8-E,K10

# UFO T-slot Inserts

- Toolholders P. 28
- Cutting Data P. 119 - 120



| Dimensions (mm) |      |         |         |                 |
|-----------------|------|---------|---------|-----------------|
| D               | d1   | AE      | Max. AR | R               |
| 30              | 15.7 | 0.8-0.9 | 6.5     | R0.05<br>±0.025 |
|                 |      | 1.0-1.1 |         |                 |
|                 |      | 1.2-1.3 |         |                 |
|                 |      | 1.4-1.5 |         |                 |
|                 |      | 1.6-1.8 |         |                 |
|                 |      | 1.9-2.0 |         |                 |
|                 |      | 2.2-2.5 |         |                 |
|                 |      | 3.0-4.0 |         |                 |
| 4.2-5.0         |      |         |         |                 |

| Inserts       | Order Code    | Grades  |      |      |     |        |          |      |     |  |    |  |  |
|---------------|---------------|---------|------|------|-----|--------|----------|------|-----|--|----|--|--|
|               |               | Carbide |      |      |     | Cermet | Uncoated |      |     |  |    |  |  |
|               |               | B100    | C200 | C250 | F20 | F30    | CE100    | CE60 | K10 |  | CE |  |  |
| <br>8 flutes  | 3T1630-0.8-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-0.9-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.0-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.1-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.2-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.3-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.4-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.5-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.6-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.7-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.8-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-1.9-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-2.0-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-2.2-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-2.5-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-3.0-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-3.5-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
|               | 3T1630-4.0-ME | ☉       |      |      |     |        |          |      |     |  |    |  |  |
| 3T1630-4.2-ME | ☉             |         |      |      |     |        |          |      |     |  |    |  |  |
| 3T1630-4.5-ME | ☉             |         |      |      |     |        |          |      |     |  |    |  |  |
| 3T1630-5.0-ME | ☉             |         |      |      |     |        |          |      |     |  |    |  |  |

- ■ Steel ■ Stainless Steel ☉ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ☉ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1630-0.8-ME,B100



# UFO T-SLOT CUTTER



Patent No. : M538848



Patent No. : ZL 2016 2 1300067.8



PCT Priority

## Features

Available in materials



Cost  
**200~300%**  
SAVING

Applicable  
Machines  
CNC Milling machine

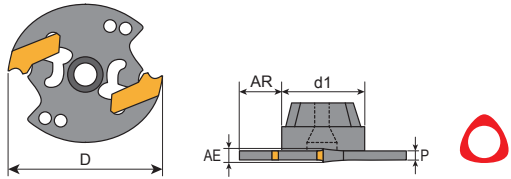
Efficiency  
**400%**  
UP

Durability  
**300%**  
UP

# UFO T-slot Cutters

- Toolholders P. 28
- Inserts P. 182 - 189
- Cutting Data P. 121 - 122

3T



| Order Code | Dimensions (mm) |     |     |      |      | Z    | KG   | MAX RPM | Inserts LNGT | Wrench    |      |      |      |
|------------|-----------------|-----|-----|------|------|------|------|---------|--------------|-----------|------|------|------|
|            | D               | d1  | AR  | AE   | P    |      |      |         |              |           |      |      |      |
| 3T1632-1.4 | 32              | 16  | 7.5 | 1.4  | 1.2  | 2    | 0.03 | 8000    | 1414         | 150.10-30 |      |      |      |
| 3T1632-1.6 |                 |     |     | 1.5  |      |      |      |         | 1415         |           |      |      |      |
| 3T1632-1.8 |                 |     |     | 1.6  | 1616 |      |      |         |              |           |      |      |      |
| 3T1632-2.0 |                 |     |     | 1.8  | 1818 |      |      |         |              |           |      |      |      |
| 3T1632-2.5 |                 |     |     | 2.0  | 1.75 |      |      |         | 2.25         |           | 2.2  | 0.04 | 2020 |
|            |                 |     |     | 2.5  |      |      |      |         |              |           | 2022 |      |      |
|            |                 |     |     | 3.0  |      |      |      |         |              |           | 2025 |      |      |
| 3T1632-3.0 |                 |     |     | 2.5  | 2.7  |      |      |         | 3.7          |           | 2.7  | 0.05 | 2525 |
|            |                 |     |     | 3.0  |      |      |      |         |              |           | 2527 |      |      |
|            |                 |     |     | 3.5  |      |      |      |         |              |           | 2530 |      |      |
| 3T1632-4.0 | 4.0             | 4.5 | 5.5 | 4.2  | 0.05 | 3030 |      |         |              |           |      |      |      |
|            | 4.5             |     |     | 3032 |      |      |      |         |              |           |      |      |      |
|            | 5.0             |     |     | 3035 |      |      |      |         |              |           |      |      |      |
| 3T1632-5.0 | 5.0             | 5.5 | 5.5 | 5.2  | 0.05 | 4040 |      |         |              |           |      |      |      |
|            | 5.5             |     |     | 4042 |      |      |      |         |              |           |      |      |      |
|            | 5.5             |     |     | 4045 |      |      |      |         |              |           |      |      |      |

\* Wrench for above holders sold separately.

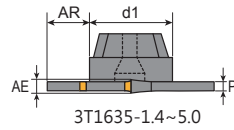
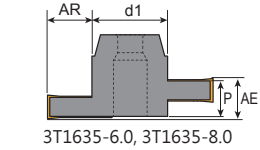
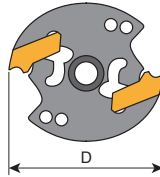




# UFO T-slot Cutters

- Toolholders P. 28
- Insert P. 182 - 189
- Cutting Data P. 121 - 122

**3T**



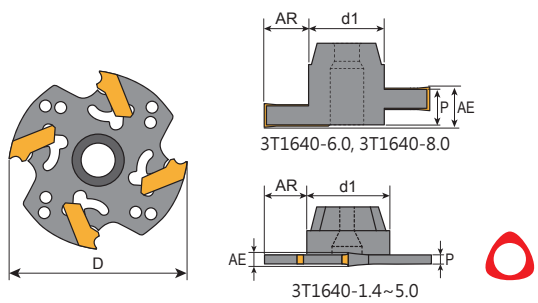
| Order Code | Dimensions (mm) |      |        |     |      | Z | ZC | KG   | MAX RPM | Inserts LNGT | Wrench    |
|------------|-----------------|------|--------|-----|------|---|----|------|---------|--------------|-----------|
|            | D               | d1   | AR     | AE  | P    |   |    |      |         |              |           |
| 3T1635-1.4 | 35              | 16   | 9.0    | 1.4 | 1.2  | 2 | 2  | 0.03 | 8000    | 1414         | 150.10-30 |
| 3T1635-1.6 |                 |      |        | 1.5 |      |   |    |      |         | 1415         |           |
| 3T1635-1.8 |                 |      |        | 1.6 | 1616 |   |    |      |         |              |           |
| 3T1635-2.0 |                 |      |        | 1.8 | 1818 |   |    |      |         |              |           |
| 3T1635-2.5 |                 |      |        | 2.0 | 1.75 |   |    |      |         |              |           |
|            |                 |      |        | 2.2 |      |   |    |      |         |              |           |
|            |                 |      |        | 2.5 |      |   |    |      |         |              |           |
| 3T1635-3.0 |                 |      |        | 2.5 | 2.25 |   |    |      |         |              |           |
|            |                 |      |        | 2.7 |      |   |    |      |         |              |           |
|            |                 |      |        | 3.0 |      |   |    |      |         |              |           |
| 3T1635-4.0 | 3.0             | 2.7  |        |     |      |   |    |      |         |              |           |
|            | 3.2             |      |        |     |      |   |    |      |         |              |           |
|            | 3.5             |      |        |     |      |   |    |      |         |              |           |
| 3T1635-5.0 | 4.0             | 3.7  |        |     |      |   |    |      |         |              |           |
|            | 4.2             |      |        |     |      |   |    |      |         |              |           |
|            | 4.5             |      |        |     |      |   |    |      |         |              |           |
| 3T1635-6.0 | 5.0             | 4.5  |        |     |      |   |    |      |         |              |           |
|            | 5.2             |      |        |     |      |   |    |      |         |              |           |
|            | 5.5             |      |        |     |      |   |    |      |         |              |           |
| 3T1635-8.0 | 6.0             | 5.5  |        |     |      |   |    |      |         |              |           |
|            | 8.0             |      |        |     |      |   |    |      |         |              |           |
| 3T1635-8.0 | 1               | 0.05 | 5050NS |     |      |   |    |      |         |              |           |

\* Wrench for above holders sold seperately.

# UFO T-slot Cutters

- Toolholders P. 28
- Insert P. 182 - 189
- Cutting Data P. 121 - 122

3T



| Order Code | Dimensions (mm) |     |      |      |        | Z | ZC | KG   | MAX RPM | Inserts LNGT | Wrench    |
|------------|-----------------|-----|------|------|--------|---|----|------|---------|--------------|-----------|
|            | D               | d1  | AR   | AE   | P      |   |    |      |         |              |           |
| 3T1640-1.4 | 40              | 16  | 11.5 | 1.4  | 1.2    | 4 | -  | 0.03 | 7500    | 1414         | 150.10-30 |
| 3T1640-1.6 |                 |     |      | 1.5  |        |   |    |      |         | 1415         |           |
| 3T1640-1.8 |                 |     |      | 1.6  |        |   |    |      |         | 1616         |           |
| 3T1640-2.0 |                 |     |      | 1.8  | 1616   |   |    |      |         |              |           |
| 3T1640-2.5 |                 |     |      | 2.0  | 1.75   |   |    |      |         |              |           |
|            |                 |     |      | 2.2  |        |   |    |      |         |              |           |
|            |                 |     |      | 2.5  |        |   |    |      |         |              |           |
| 3T1640-3.0 |                 |     |      | 2.5  | 2.25   |   |    |      |         |              |           |
|            |                 |     |      | 2.7  |        |   |    |      |         |              |           |
|            |                 |     |      | 3.0  |        |   |    |      |         |              |           |
| 3T1640-4.0 | 3.0             | 2.7 |      |      |        |   |    |      |         |              |           |
|            | 3.2             |     |      |      |        |   |    |      |         |              |           |
|            | 3.5             |     |      |      |        |   |    |      |         |              |           |
| 3T1640-5.0 | 4.0             | 3.7 |      |      |        |   |    |      |         |              |           |
|            | 4.2             |     |      |      |        |   |    |      |         |              |           |
|            | 4.5             |     |      |      |        |   |    |      |         |              |           |
| 3T1640-6.0 | 5.0             | 4.5 |      |      |        |   |    |      |         |              |           |
|            | 5.2             |     |      |      |        |   |    |      |         |              |           |
|            | 5.5             |     |      |      |        |   |    |      |         |              |           |
| 3T1640-8.0 | 6.0             | 5.5 | 2    | 0.06 | 5050NS |   |    |      |         |              |           |
| 3T1640-8.0 | 8.0             | 7.5 |      |      |        |   |    |      |         |              |           |

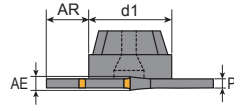
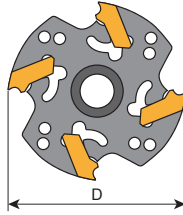
\* Wrench for above holders sold separately.



# UFO T-slot Cutters

- Toolholders P. 29
- Insert P. 182 - 189
- Cutting Data P. 121 - 122

3T



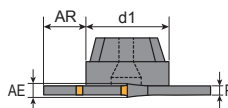
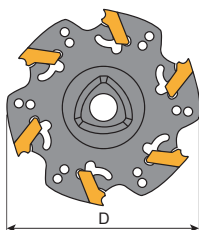
| Order Code | Dimensions (mm) |    |    |                   |      | Z | KG   | MAX RPM      | Inserts LNGT | Wrench |
|------------|-----------------|----|----|-------------------|------|---|------|--------------|--------------|--------|
|            | D               | d1 | AR | AE                | P    |   |      |              |              |        |
| 3T2550-1.4 | 50              | 25 | 12 | 1.4               | 1.2  | 4 | 7000 | 1414<br>1415 | 150.10-30    |        |
| 3T2550-1.6 |                 |    |    | 1.6               |      |   |      |              |              | 0.08   |
| 3T2550-1.8 |                 |    |    | 1.8               | 0.08 |   |      |              |              |        |
| 3T2550-2.0 |                 |    |    | 2.0<br>2.2<br>2.5 | 1.75 |   |      |              |              | 0.08   |
| 3T2550-2.5 |                 |    |    | 2.5<br>2.7<br>3.0 | 2.25 |   |      |              |              | 0.09   |
| 3T2550-3.0 |                 |    |    | 3.0<br>3.2<br>3.5 | 2.7  |   |      |              |              | 0.09   |
| 3T2550-4.0 |                 |    |    | 4.0<br>4.2<br>4.5 | 3.7  |   |      |              |              | 0.10   |
| 3T2550-5.0 |                 |    |    | 5.0<br>5.2<br>5.5 | 4.5  |   |      |              |              | 0.10   |

\* Wrench for above holders sold seperately.

# UFO T-slot Cutters

- Toolholders P. 29
- Insert P. 182 - 189
- Cutting Data P. 121 - 122

3T



| Order Code | Dimensions (mm) |     |      |     |      | Z | KG   | MAX RPM | Inserts LNGT | Wrench    |
|------------|-----------------|-----|------|-----|------|---|------|---------|--------------|-----------|
|            | D               | d1  | AR   | AE  | P    |   |      |         |              |           |
| 3T2560-1.4 | 60              | 25  | 17   | 1.4 | 1.2  | 6 | 0.09 | 6500    | 1414         | 150.10-30 |
| 3T2560-1.6 |                 |     |      | 1.5 |      |   |      |         | 1415         |           |
| 3T2560-1.6 |                 |     |      | 1.6 | 1616 |   |      |         |              |           |
| 3T2560-1.8 |                 |     |      | 1.8 | 1818 |   |      |         |              |           |
| 3T2560-2.0 |                 |     |      | 2.0 | 1.75 |   |      |         | 2020         |           |
| 3T2560-2.5 |                 |     |      | 2.2 |      |   |      |         | 2022         |           |
| 3T2560-2.5 |                 |     |      | 2.5 |      |   |      |         | 2025         |           |
| 3T2560-2.5 |                 |     |      | 2.5 | 2.25 |   |      |         | 2525         |           |
| 3T2560-3.0 |                 |     |      | 2.7 |      |   |      |         | 2527         |           |
| 3T2560-3.0 |                 |     |      | 3.0 |      |   |      |         | 2530         |           |
| 3T2560-3.0 | 3.0             | 2.7 | 3030 |     |      |   |      |         |              |           |
| 3T2560-4.0 | 3.2             |     | 3032 |     |      |   |      |         |              |           |
| 3T2560-4.0 | 3.5             |     | 3035 |     |      |   |      |         |              |           |
| 3T2560-4.0 | 4.0             | 3.7 | 4040 |     |      |   |      |         |              |           |
| 3T2560-5.0 | 4.2             |     | 4042 |     |      |   |      |         |              |           |
| 3T2560-5.0 | 4.5             |     | 4045 |     |      |   |      |         |              |           |
| 3T2560-5.0 | 5.0             | 4.5 | 5050 |     |      |   |      |         |              |           |
| 3T2560-5.0 | 5.2             |     | 5052 |     |      |   |      |         |              |           |
| 3T2560-5.0 | 5.5             |     | 5055 |     |      |   |      |         |              |           |

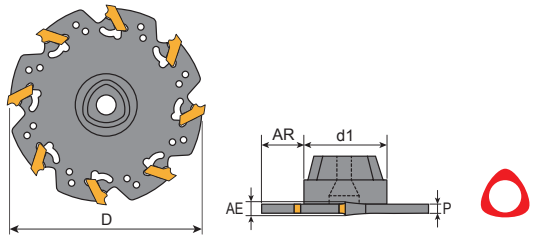
\* Wrench for above holders sold separately.



# UFO T-slot Cutters

- Toolholders P. 29
- Insert P. 182 - 189
- Cutting Data P. 121 - 122

3T



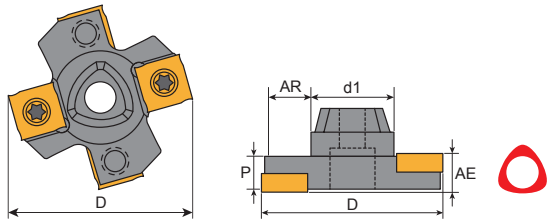
| Order Code | Dimensions (mm) |     |    |     |      | Z | KG   | MAX RPM      | Inserts LNGT | Wrench |
|------------|-----------------|-----|----|-----|------|---|------|--------------|--------------|--------|
|            | D               | d1  | AR | AE  | P    |   |      |              |              |        |
| 3T2580-1.4 | 80              | 25  | 27 | 1.4 | 1.2  | 8 | 6500 | 1414<br>1415 | 150.10-30    |        |
| 3T2580-1.6 |                 |     |    | 1.5 |      |   |      |              |              | 1.6    |
| 3T2580-1.8 |                 |     |    | 1.6 | 1.4  |   |      |              |              |        |
| 3T2580-2.0 |                 |     |    | 1.8 | 1.6  |   |      |              |              |        |
| 3T2580-2.5 |                 |     |    | 2.0 | 2.25 |   |      |              |              |        |
|            |                 |     |    | 2.2 |      |   |      |              |              |        |
|            |                 |     |    | 2.5 |      |   |      |              |              |        |
| 3T2580-3.0 |                 |     |    | 2.5 | 2.7  |   |      |              |              |        |
|            |                 |     |    | 2.7 |      |   |      |              |              |        |
|            |                 |     |    | 3.0 |      |   |      |              |              |        |
| 3T2580-4.0 | 3.0             | 2.7 |    |     |      |   |      |              |              |        |
|            | 3.2             |     |    |     |      |   |      |              |              |        |
|            | 3.5             |     |    |     |      |   |      |              |              |        |
| 3T2580-5.0 | 4.0             | 3.7 |    |     |      |   |      |              |              |        |
|            | 4.2             |     |    |     |      |   |      |              |              |        |
|            | 4.5             |     |    |     |      |   |      |              |              |        |
| 3T2580-5.0 | 5.0             | 4.5 |    |     |      |   |      |              |              |        |
|            | 5.2             |     |    |     |      |   |      |              |              |        |
|            | 5.5             |     |    |     |      |   |      |              |              |        |


\* Wrench for above holders sold separately.

# UFO T-slot Cutters

- Toolholders P. 29
- Insert P. 190 - 192
- Cutting Data P. 123 - 124

## 3TS



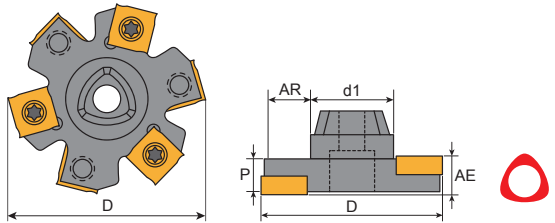
| Order Code  | Dimensions (mm) |    |    |    |     | Z | Zc   | <br>kg | MAX RPM | Inserts SNGX SNGW | Screw | Key     |
|-------------|-----------------|----|----|----|-----|---|------|---|---------|-------------------|-------|---------|
|             | D               | d1 | AR | AE | P   |   |      |   |         |                   |       |         |
| 3TS2550-4.0 | 50              | 25 | 12 | 4  | 3.4 | 4 | 2    | 0.09  | 17000   | 1102              | T9354 | 908-T9  |
| 3TS2550-5.0 |                 |    |    | 5  | 4.2 |   |      |   |         | 1103              | T9355 | 908-T8  |
| 3TS2550-6.0 |                 |    |    | 6  | 5   |   |      |   |         | 1203              | T945  | 908-T15 |
| 3TS2550-7.0 |                 |    |    | 7  | 6   |   |      |   |         | 1204              | T946  |         |
| 3TS2550-8.0 |                 |    |    | 8  | 7   |   |      |   |         | 12045             | T947  |         |
| 3TS2550-10  |                 |    |    | 10 | 9   |   |      |   |         | 1205              | T948  |         |
| 3TS2550-12  |                 |    |    | 12 | 11  |   |      |   |         | 1207              | T9411 |         |
|             |                 |    |    |    |     |   | 0.10 |   |         |                   |       |         |
|             |                 |    |    |    |     |   |      | 0.12  |         |                   |       |         |




# UFO T-slot Cutters

- Toolholders P. 29
- Insert P. 190 - 192
- Cutting Data P. 123 - 124

**3TS**

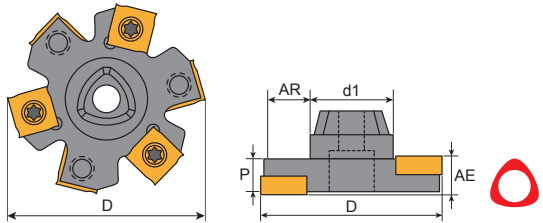


| Order Code  | Dimensions (mm) |    |    |    |     | Z | Zc | <br>KG | MAX<br>RPM | Inserts<br>SNGX<br>SNGW | Screw | Key     |
|-------------|-----------------|----|----|----|-----|---|----|---|------------|-------------------------|-------|---------|
|             | D               | d1 | AR | AE | P   |   |    |   |            |                         |       |         |
| 3TS2560-4.0 | 60              | 25 | 17 | 4  | 3.4 | 6 | 3  | 0.10  | 15000      | 1102                    | T9354 | 908-T9  |
| 3TS2560-5.0 |                 |    |    | 5  | 4.2 |   |    |   |            | 1103                    | T9355 | 908-T8  |
| 3TS2560-6.0 |                 |    |    | 6  | 5   |   |    |   |            | 1203                    | T945  | 908-T15 |
| 3TS2560-7.0 |                 |    |    | 7  | 6   |   |    |   |            | 1204                    | T946  |         |
| 3TS2560-8.0 |                 |    |    | 8  | 7   |   |    | 12045   |            | T947                    |       |         |
| 3TS2560-10  |                 |    |    | 10 | 9   |   |    | 1205  |            | T948                    | 0.17  |         |
| 3TS2560-12  |                 |    |    | 12 | 11  |   |    | 1207  |            | T9411                   |       | 0.18    |

# UFO T-slot Cutters

- Toolholders P. 29
- Insert P. 190 - 192
- Cutting Data P. 123 - 124

3TS



| Order Code  | Dimensions (mm) |    |    |    |     | Z     | Zc   | KG   | MAX RPM | Inserts SNGX SNGW | Screw | Key     |
|-------------|-----------------|----|----|----|-----|-------|------|------|---------|-------------------|-------|---------|
|             | D               | d1 | AR | AE | P   |       |      |      |         |                   |       |         |
| 3TS2580-4.0 | 80              | 25 | 27 | 4  | 3.4 | 8     | 4    | 0.13 | 14000   | 1102              | T9354 | 908-T9  |
| 3TS2580-5.0 |                 |    |    | 5  | 4.2 |       |      |      |         | 1103              | T9355 | 908-T8  |
| 3TS2580-6.0 |                 |    |    | 6  | 5   |       |      |      |         | 1203              | T945  | 908-T15 |
| 3TS2580-7.0 |                 |    |    | 7  | 6   |       |      |      |         | 1204              | T946  |         |
| 3TS2580-8.0 |                 |    |    | 8  | 7   | 12045 | T947 |      |         |                   |       |         |
| 3TS2580-10  |                 |    |    | 10 | 9   | 6     | 3    |      |         | 0.21              | 1205  | T948    |
| 3TS2580-12  |                 |    |    | 12 | 11  | 6     | 3    |      |         | 0.31              | 1207  | T9411   |

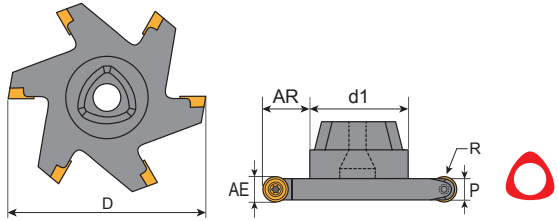




# UFO T-slot Cutters

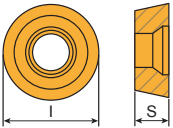
• Toolholders P. 29

3T

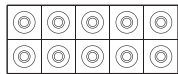


| Order Code | Dimensions (mm) |    |    |    |     |    | Z | KG   | MAX RPM | Inserts<br>RDKW<br>RDKT<br>RPKT | Screw  | Key        |      |
|------------|-----------------|----|----|----|-----|----|---|------|---------|---------------------------------|--------|------------|------|
|            | D               | d1 | AR | AE | P   | R  |   |      |         |                                 |        |            |      |
| 3T2560-R4  | 60              | 25 | 17 | 8  | 6.2 | 4R | 6 | 0.20 | 13000   | 0803                            | C02506 | T08P       |      |
| 3T2580-R4  | 80              |    | 27 |    |     |    |   |      |         |                                 |        |            |      |
| 3T2560-R5  | 60              |    | 17 | 10 | 8.0 | 5R |   | 4    | 0.30    | 13000                           | 10T3   | C03007     | T09P |
| 3T2580-R5  | 80              |    | 27 |    |     |    |   |      |         |                                 |        |            |      |
| 3T2560-R6  | 60              |    | 17 | 12 | 10  | 6R |   | 4    | 0.40    | 9500                            | 1204   | C03508-T15 | T15P |
| 3T2580-R6  | 80              |    | 27 |    |     |    |   |      |         |                                 |        |            |      |

## RDKT / RDKW / RPKT Inserts




Tolerances (mm)  
D=±0.04 S=±0.05



Inserts 10 PCS / Box

| Dimensions (mm) |      |    |   |
|-----------------|------|----|---|
| Code            | S    | I  | R |
| 0803            | 3.05 | 8  | 4 |
| 10T3            | 3.97 | 10 | 5 |
| 1204            | 4.7  | 12 | 6 |

| Inserts   | Order Code      | Grades  |      |      |     |     |              |      |          |    |
|---|-----------------|---------|------|------|-----|-----|--------------|------|----------|----|
|   |                 | Carbide |      |      |     |     | Metal cermet |      | Uncoated |    |
|   |                 | B100    | C200 | C250 | F20 | F30 | CE25         | CE60 | K10      | CE |
|  | RDKW 0803MOT-MD | ⊙       |      |      |     |     |              |      |          |    |
|   | RDKT 10T3MOT-M  | ⊙       |      |      |     |     |              |      |          |    |
|   | RPKT 1204MOT-M  | ⊙       |      |      |     |     |              |      |          |    |

- Steel Stainless Steel Steel/Stainless Steel/Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: RDKW 0803MOT-MD, B100

**UFO  
RADIUS  
DUAL CORNER ROUNDING  
CONCAVE RADIUS  
DUAL CHAMFER  
DOVETAIL  
CIRCLIP**



Video



## Features

Available in  
materials



Cost  
**200~300%**  
SAVING

Applicable  
Machines  
CNC Milling machine

Efficiency  
**400%**  
UP

Durability  
**300%**  
UP





# UFO



## UFO Radius Inserts

R0.5 to R3.0 cutters are readily available in stock. Performs impressive cutting speed in 6 flutes.

Fig.1

## UFO Dovetail Inserts

Available with 45°, 60° angles and designed with 6 flutes.

## UFO Dual Chamfer

Up and down chamfering are available in the same insert.

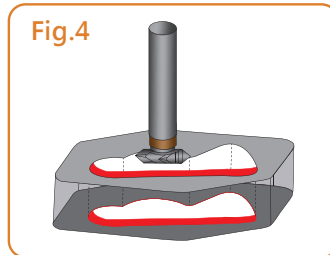
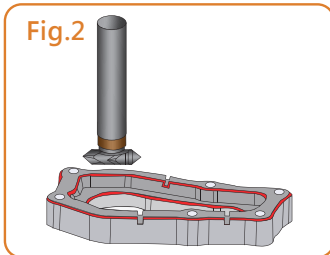
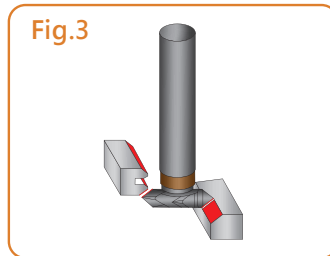
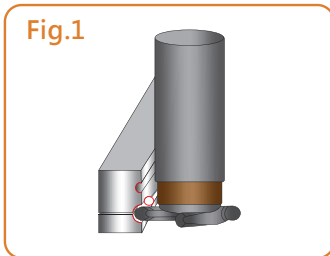
Support different angles and radii:

- 45° chamfer: Ø9.8-Ø11.8-Ø14.8 with 4 teeth.
- Radius: R0.5~R2.0, Ø9.8-Ø11.8-Ø19.8 with 4 teeth.

Fig.2/3/4

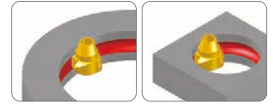
## UFO Circlip Inserts

For circlip range: 1.1~4.15 mm  
Same shank fits all different inserts. All items are available from stock.

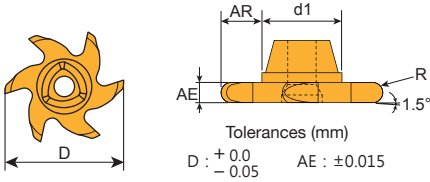


# UFO Radius Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



UFO Family



| Dimensions (mm) |     |     |      |         |
|-----------------|-----|-----|------|---------|
| D               | d1  | AE  | R    | Max. AR |
| 20              | 9.9 | 1.0 | 0.5  | 4.5     |
|                 |     | 1.5 | 0.75 |         |
|                 |     | 2.0 | 1.0  |         |
|                 |     | 2.5 | 1.25 |         |
|                 |     | 3.0 | 1.5  |         |
|                 |     | 4.0 | 2.0  |         |
|                 |     | 5.0 | 2.5  |         |
|                 |     | 6.0 | 3.0  |         |

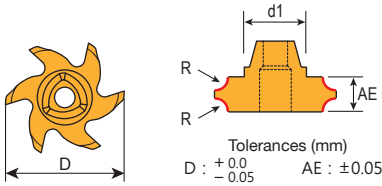
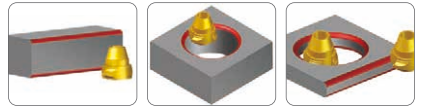
| Inserts         | Order Code      | Grades  |      |      |     |     |              |          |     |    |  |  |                            |
|-----------------|-----------------|---------|------|------|-----|-----|--------------|----------|-----|----|--|--|----------------------------|
|                 |                 | Carbide |      |      |     |     | Metal cermet | Uncoated |     |    |  |  |                            |
|                 |                 | B100    | C200 | C250 | F20 | F30 | CE25         | CE60     | K10 | CE |  |  |                            |
| <p>6 flutes</p> | 3T1020-R0.5-E   |         |      |      |     |     |              |          |     |    |  |  | <p>Inserts 2 PCS / Box</p> |
|                 | 3T1020-R0.75-E  |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R1.0-E   |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R1.25-E  |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R1.5-E   |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R2.0-E   |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R2.5-E   |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R3.0-E   |         |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R0.5-ME  | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R0.75-ME | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R1.0-ME  | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R1.25-ME | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R1.5-ME  | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R2.0-ME  | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
|                 | 3T1020-R2.5-ME  | ⊙       |      |      |     |     |              |          |     |    |  |  |                            |
| 3T1020-R3.0-ME  | ⊙               |         |      |      |     |     |              |          |     |    |  |  |                            |

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1020-R0.5-E, F20



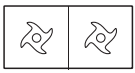



# UFO Dual Corner Rounding Inserts

- Toolholders P. 24 · P. 26
- Cutting Data P. 119 - 120



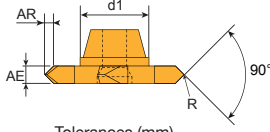
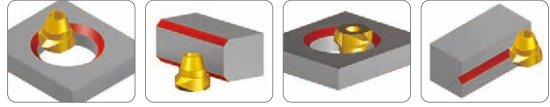
| Dimensions (mm) |     |     |      |         |
|-----------------|-----|-----|------|---------|
| D               | d1  | AE  | R    | Max. AR |
| 9.8             | 6.5 | 3.0 | 0.5  | 0.5     |
|                 |     | 3.0 | 0.5  | 0.5     |
| 4.0             |     | 1.0 | 1.0  |         |
| 5.0             |     | 1.5 | 1.5  |         |
| 19.8            |     | 9.9 | 3.0  | 0.5     |
|                 | 3.5 |     | 0.75 | 0.75    |
|                 | 4.0 |     | 1.0  | 1.0     |
|                 | 4.5 |     | 1.25 | 1.25    |
|                 | 5.0 |     | 1.5  | 1.5     |
|                 | 6.0 |     | 2.0  | 2.0     |

| Inserts   | Order Code        | Grades  |      |      |     |     |              |      |          |    |  |  |   |
|---|-------------------|---------|------|------|-----|-----|--------------|------|----------|----|--|--|---|
|   |                   | Carbide |      |      |     |     | Metal cermet |      | Uncoated |    |  |  |   |
|   |                   | B100    | C200 | C250 | F20 | F30 | CE25         | CE60 | K10      | CE |  |  |   |
| <br>4 flutes   | 3T0610-DCR0.5-E   |         |      |      |     |     |              |      |          |    |  |  | <br>Inserts 2 PCS / Box |
|   | 3T0612-DCR0.5-E   |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T0612-DCR1.0-E   |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T0612-DCR1.5-E   |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR0.5-E   |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR0.75-E  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR1.0-E   |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR1.25-E  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR1.5-E   |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR2.0-E   |         |      |      |     |     |              |      |          |    |  |  |   |
| <br>6 flutes | 3T0610-DCR0.5-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T0612-DCR0.5-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T0612-DCR1.0-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T0612-DCR1.5-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR0.5-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR0.75-ME |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR1.0-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR1.25-ME |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR1.5-ME  |         |      |      |     |     |              |      |          |    |  |  |   |
|   | 3T1020-DCR2.0-ME  |         |      |      |     |     |              |      |          |    |  |  |   |

- ■ Steel ■ Stainless Steel ■ ■ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T0610-DCR0.5-E,F20

## UFO Dual Chamfer Inserts

- Toolholders P. 24 - 25
- Cutting Data P. 119 - 120



Tolerances (mm)  
 D :  $\begin{matrix} +0.0 \\ -0.05 \end{matrix}$     AE :  $\pm 0.05$

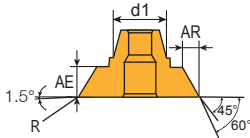
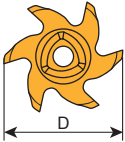
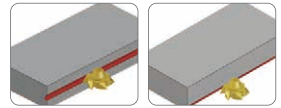


| Dimensions (mm) |     |    |         |     |
|-----------------|-----|----|---------|-----|
| D               | d1  | AE | Max. AR | R   |
| 9.8             | 6.5 | 3  | 0.5     | 0.2 |
| 11.8            |     |    | 1.0     |     |
| 14.8            |     |    | 7.9     |     |

| Inserts      | Order Code     | Grades  |      |      |     |     |              |      |          |    |  |  |                         |
|--------------|----------------|---------|------|------|-----|-----|--------------|------|----------|----|--|--|-------------------------|
|              |                | Carbide |      |      |     |     | Metal cermet |      | Uncoated |    |  |  |                         |
|              |                | B100    | C200 | C250 | F20 | F30 | CE25         | CE60 | K10      | CE |  |  |                         |
| <br>4 flutes | 3T0610-3-45-E  |         |      |      |     |     |              |      |          |    |  |  | <br>Inserts 2 PCS / Box |
|              | 3T0612-3-45-E  |         |      |      |     |     |              |      |          |    |  |  |                         |
|              | 3T0815-3-45-E  |         |      |      |     |     |              |      |          |    |  |  |                         |
|              | 3T0610-3-45-ME | ⊙       |      |      |     |     |              |      |          |    |  |  |                         |
|              | 3T0612-3-45-ME | ⊙       |      |      |     |     |              |      |          |    |  |  |                         |
|              | 3T0815-3-45-ME | ⊙       |      |      |     |     |              |      |          |    |  |  |                         |

## UFO Dovetail Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



Tolerances (mm)  
 D :  $\begin{matrix} +0.0 \\ -0.05 \end{matrix}$     AE :  $\pm 0.05$



| Dimensions (mm) |     |     |       |         |     |
|-----------------|-----|-----|-------|---------|-----|
| D               | d1  | AE  | Angle | Max. AR | R   |
| 20              | 9.9 | 5.0 | 45°   | 3.0     | 0.4 |
|                 |     |     | 60°   | 2.5     |     |

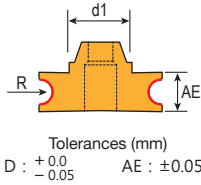
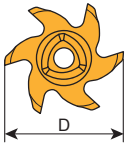
| Inserts      | Order Code   | Grades  |      |      |     |     |              |      |          |    |  |                         |
|--------------|--------------|---------|------|------|-----|-----|--------------|------|----------|----|--|-------------------------|
|              |              | Carbide |      |      |     |     | Metal cermet |      | Uncoated |    |  |                         |
|              |              | B100    | C200 | C250 | F20 | F30 | CE25         | CE60 | K10      | CE |  |                         |
| <br>6 flutes | 3T1020-45-E  |         |      |      |     |     |              |      |          |    |  | <br>Inserts 2 PCS / Box |
|              | 3T1020-60-E  |         |      |      |     |     |              |      |          |    |  |                         |
|              | 3T1020-45-ME | ⊙       |      |      |     |     |              |      |          |    |  |                         |
|              | 3T1020-60-ME | ⊙       |      |      |     |     |              |      |          |    |  |                         |

- ■ Steel ■ Stainless Steel ⊙ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron ⊙ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1020-45-E,F20






# UFO Concave Radius Inserts

- Toolholders P. 26
- Cutting Data P. 119 - 120



| Dimensions (mm) |     |     |      |
|-----------------|-----|-----|------|
| D               | d1  | AE  | R    |
| 20              | 9.9 | 4.5 | 1.0  |
|                 |     | 5.0 | 1.25 |
|                 |     | 5.5 | 1.5  |
|                 |     | 6.5 | 2.0  |

| Inserts   | Order Code       | Grades  |      |      |     |     |              |          |     |  |    |   |  |
|---|------------------|---------|------|------|-----|-----|--------------|----------|-----|--|----|---|--|
|   |                  | Carbide |      |      |     |     | Metal cermet | Uncoated |     |  |    |   |  |
|   |                  | B100    | C200 | C250 | F20 | F30 | CE25         | CE60     | K10 |  | CE |   |  |
|  <p>6 flutes</p> | 3T1020-CR1.0-E   |         |      |      |     |     |              |          |     |  |    |  <p>Inserts 2 PCS / Box</p> |  |
|   | 3T1020-CR1.25-E  |         |      |      |     |     |              |          |     |  |    |   |  |
|   | 3T1020-CR1.5-E   |         |      |      |     |     |              |          |     |  |    |   |  |
|   | 3T1020-CR2.0-E   |         |      |      |     |     |              |          |     |  |    |   |  |
|   | 3T1020-CR1.0-ME  |         |      |      |     |     |              |          |     |  |    |   |  |
|   | 3T1020-CR1.25-ME |         |      |      |     |     |              |          |     |  |    |   |  |
|   | 3T1020-CR1.5-ME  |         |      |      |     |     |              |          |     |  |    |   |  |
|   | 3T1020-CR2.0-ME  |         |      |      |     |     |              |          |     |  |    |   |  |
|   |                  |         |      |      |     |     |              |          |     |  |    |   |  |
|   |                  |         |      |      |     |     |              |          |     |  |    |   |  |
|   |                  |         |      |      |     |     |              |          |     |  |    |   |  |
|   |                  |         |      |      |     |     |              |          |     |  |    |   |  |

- ■ Steel ■ Stainless Steel ⊗ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: 3T1020-CR1.0-E, F20

# UFO Circlip Inserts

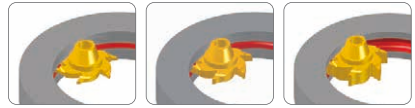
- Toolholders P. 26
- Cutting Data P. 119 - 120



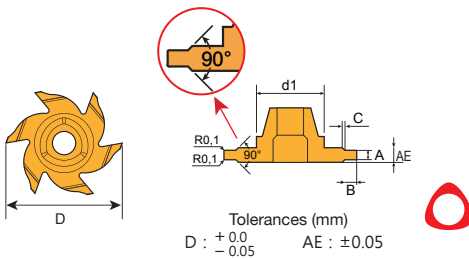
DIN471



DIN472



Offer customized items at standard prices by MOQ 12 pcs



| Dimensions (mm) |    |      |         |      |     |     |
|-----------------|----|------|---------|------|-----|-----|
| D               | d1 | A    | Circlip | B    | C   | AE  |
| 20              | 10 | 1.21 | 1.1     | 0.5  | 0.1 | 2.2 |
|                 |    | 1.41 | 1.3     | 0.85 |     |     |
|                 |    | 1.71 | 1.6     | 1.0  |     |     |
|                 |    | 1.96 | 1.85    | 1.25 | 0.2 | 3   |
|                 |    | 2.26 | 2.15    | 1.5  |     |     |
|                 |    | 2.76 | 2.65    | 1.75 |     |     |
|                 |    | 3.26 | 3.15    | 1.75 |     |     |
|                 |    | 4.26 | 4.15    | 2.0  | 4   |     |
|                 |    |      |         |      |     | 5   |

| Inserts         | Order Code      | Grades  |      |      |     |     |      |              |          |  |                            |
|-----------------|-----------------|---------|------|------|-----|-----|------|--------------|----------|--|----------------------------|
|                 |                 | Carbide |      |      |     |     |      | Metal cermet | Uncoated |  |                            |
|                 |                 | B100    | C200 | C250 | F20 | F30 | CE25 | CE60         | K10      |  | CE                         |
| <p>6 flutes</p> | C3T1020-1.1-E   |         |      |      |     |     |      |              |          |  | <p>Inserts 2 PCS / Box</p> |
|                 | C3T1020-1.3-E   |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-1.6-E   |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-1.85-E  |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-2.15-E  |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-2.65-E  |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-3.15-E  |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-4.15-E  |         |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-1.1-ME  | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-1.3-ME  | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-1.6-ME  | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-1.85-ME | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-2.15-ME | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-2.65-ME | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-3.15-ME | ☉       |      |      |     |     |      |              |          |  |                            |
|                 | C3T1020-4.15-ME | ☉       |      |      |     |     |      |              |          |  |                            |

- ■ Steel ■ Stainless Steel ⊗ Steel/Stainless Steel/Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: C3T1020-1.1-E,K10

