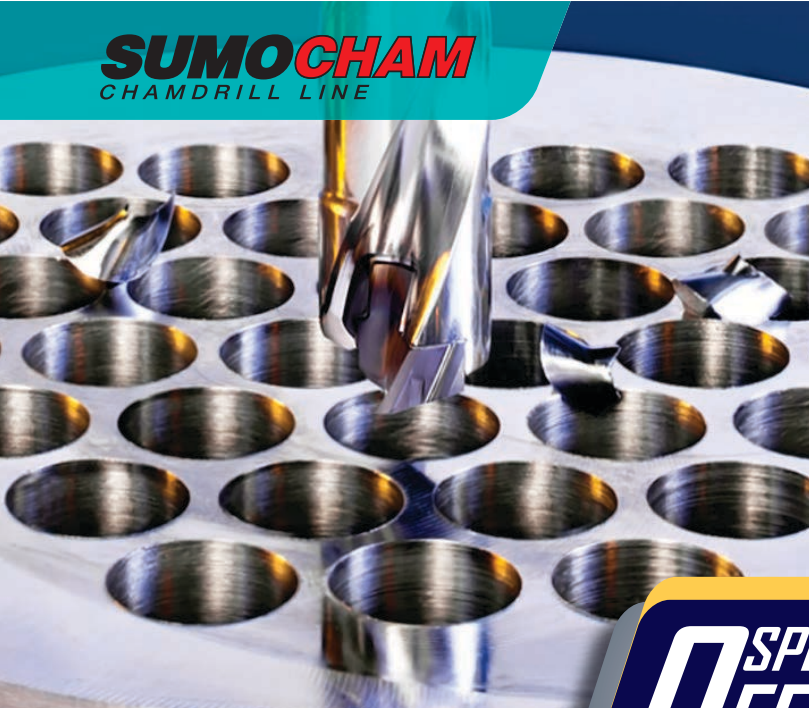


# PROMOLOGIQ

ISCAR CHESS LINES

*Valid from April 1 until December 31, 2019 Imperial Version*

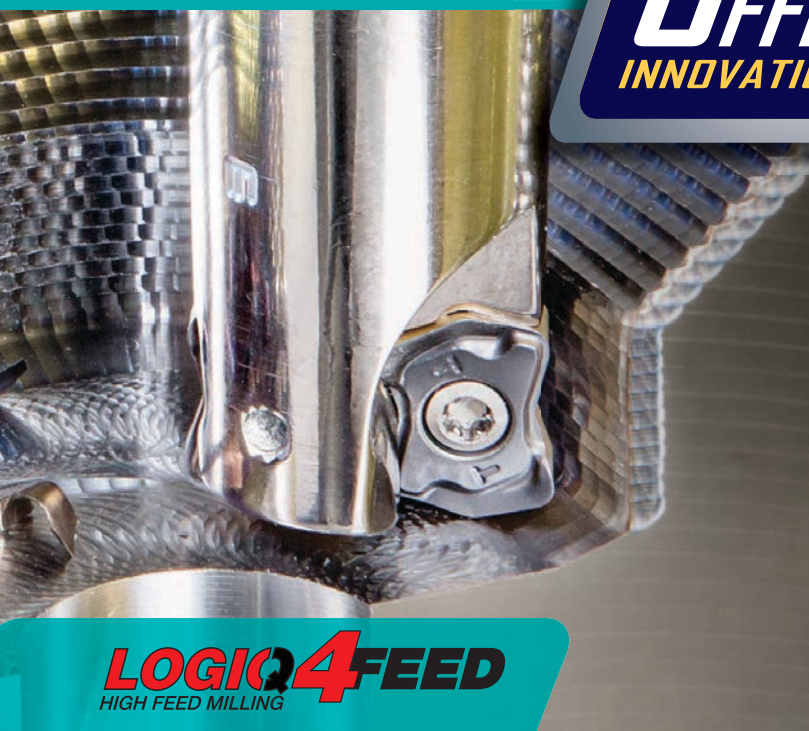
**SUMOCHAM**  
CHAMDRILL LINE



**LOGIQ4TURN**  
POSITIVE DOUBLE SIDED



**SPECIAL  
OFFERS**  
INNOVATION 2019



**LOGIQ4FEED**  
HIGH FEED MILLING



**TANG-GRIP**  
300 LINE

MACHINING **IN** DUSTRY 4.0  
TELLIGENTLY

Member IMC Group  
**iscar**  
[www.iscar.ca](http://www.iscar.ca)



**The Smallest Helical Indexable  
Multi-Toothed Endmill for  
90° Shoulder Milling**



High Positive  
Rake



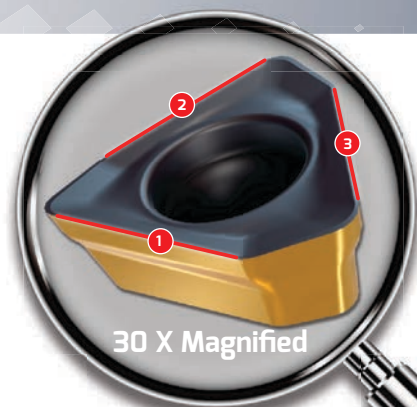
Large  
Diameter Core



Performs  
90° Shoulder



Cost Effective  
Insert



**HM390 TPKT 05  
Helical Cutting Edges**



**Purchase**

10 HM390 TPKT 05 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
(HM390 ETP...-05) up to 0.625"



**Purchase**

30 HM390 TPKT 05 Assorted Inserts

**Receive**

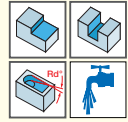
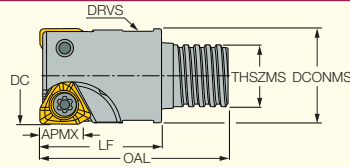
Corresponding Endmill Cutter  
(HM390 ETP...-05) up to 0.625"

**Free of Charge**



**HM390 ETP-MM-05**

90° Endmills with a MULTI-MASTER  
Threaded Adaptation Carrying HM390  
TPKT 0502... Triangular Inserts



| Designation                      | DC   | APMX | CICT <sup>(1)</sup> | LF   | DCONMS | THSZMS | OAL   | DRVS <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT <sup>(4)</sup> |
|----------------------------------|------|------|---------------------|------|--------|--------|-------|---------------------|---------------------|-------------------|
| <b>HM390 ETPD.50-03-MMT08-05</b> | .500 | .138 | 3                   | .650 | .480   | T08    | .950  | .310                | 1.5                 | .20               |
| <b>HM390 ETPD.62-04-MMT10-05</b> | .620 | .138 | 4                   | .740 | .610   | T10    | 1.200 | .390                | 1.5                 | .00               |

• Tightening torque 4.42 lbf\*in

<sup>(1)</sup> Number of inserts

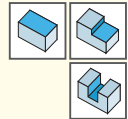
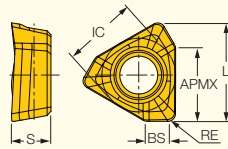
<sup>(2)</sup> Key flat size

<sup>(3)</sup> Ramping angle maximum

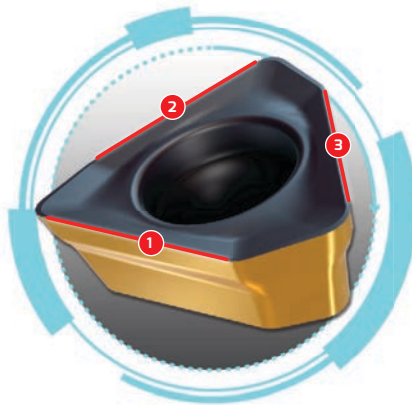
<sup>(4)</sup> Item weight

**HM390 TPKT 0502**

Triangular Inserts with 3 Helical Cutting  
Edges for 90° Shoulder Accuracy



| Designation               | Dimensions |      |      |      |       |      | Tough ↔ Hard |       |       | Recommended Machining Data |                            |
|---------------------------|------------|------|------|------|-------|------|--------------|-------|-------|----------------------------|----------------------------|
|                           | L          | IC   | S    | LE   | RE    | BS   | IC830        | IC808 | IC810 | a<br>(inch)                | f <sub>t</sub><br>(inch/t) |
| <b>HM390 TPCT 0502PDR</b> | .207       | .155 | .083 | .138 | .0157 | .039 | •            | •     | •     | .020-.138                  | .0020-.0039                |
| <b>HM390 TPKT 0502PDR</b> | .207       | .155 | .083 | .138 | .0157 | .039 | •            | •     | •     | .020-.138                  | .0020-.0059                |





**Smallest Indexable Insert Combined  
with Small Diameter Multi-Toothed  
Endmill for 90° Shoulder Milling**



Extra Positive  
Cutting Edge



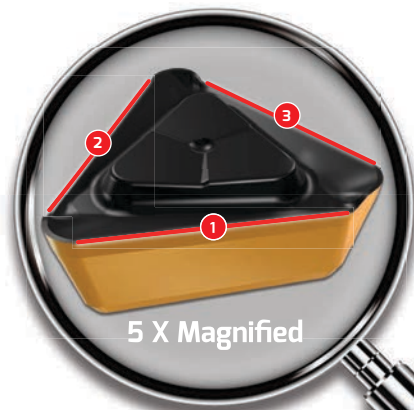
Very Strong and  
Durable Insert



New Generation  
Insert



Performs  
90° Shoulder



**Purchase**

10 HM390 TPKR 04... Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
(HM390 ETP...-04) up to 0.38"



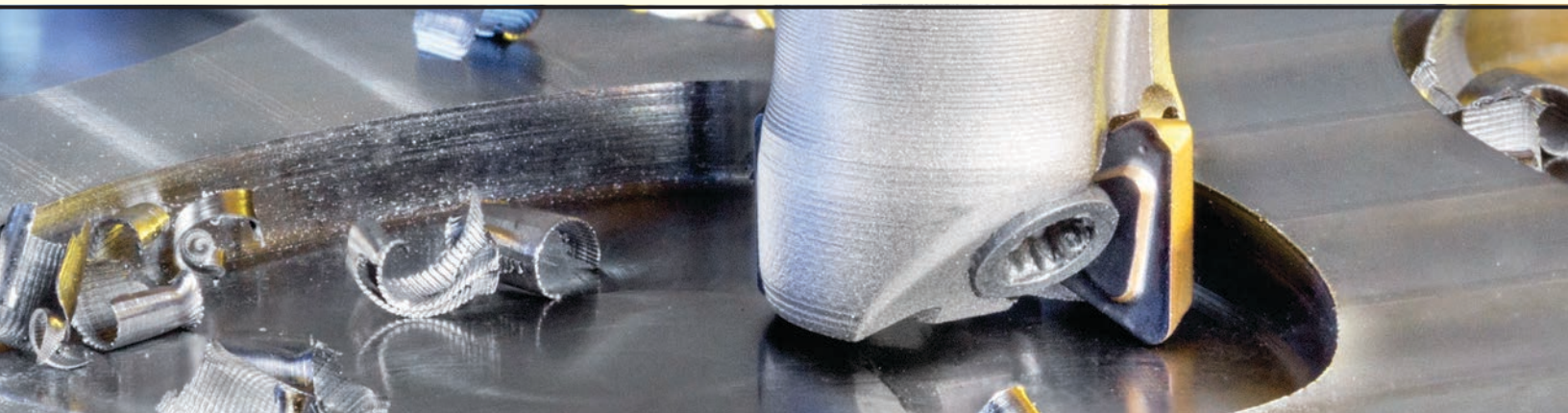
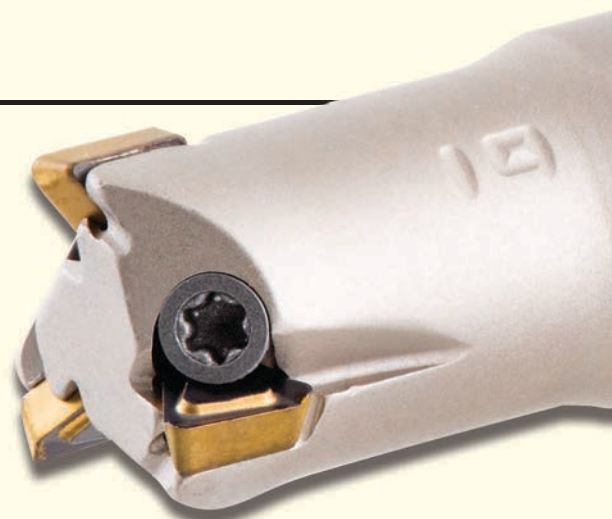
**Purchase**

30 HM390 TPKR 04... Assorted Inserts

**Receive**

Corresponding Endmill Cutter  
(HM390 ETP...-04) up to 0.38"

**Free of Charge**

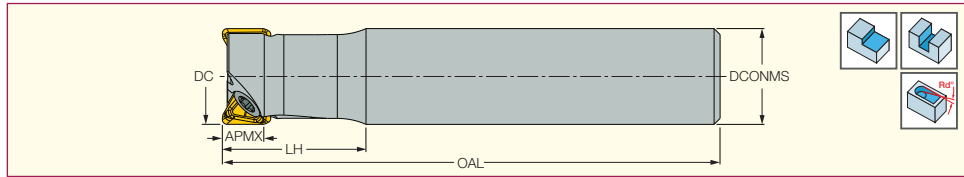




**NANMILL**  
NANO ENDMILL

**HM390 ETP-04**

90° Small Diameter Endmills Carrying  
HM390 TPKR 0401 Triangular Inserts  
with 3 Helical Cutting Edges



| Designation                     | DC   | APMX | CICT <sup>(1)</sup> | OAL   | LH   | DCONMS | Shank <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT <sup>(4)</sup> |
|---------------------------------|------|------|---------------------|-------|------|--------|----------------------|---------------------|-------------------|
| <b>HM390 ETP D.31-2-C.31-04</b> | .313 | .012 | 2                   | 2.500 | .470 | .313   | C                    | 3.0                 | .05               |
| <b>HM390 ETP D.38-3-C.38-04</b> | .375 | .012 | 3                   | 3.000 | .560 | .375   | C                    | 2.6                 | .09               |

• Tightening torque 4 lbf\*in

<sup>(1)</sup> Number of inserts

<sup>(2)</sup> C-Cylindrical

<sup>(3)</sup> Ramping angle maximum

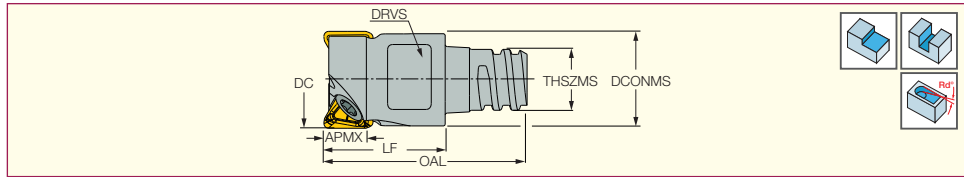
<sup>(4)</sup> Item weight

**NANMILL**  
NANO ENDMILL

**MULTI-MASTER**

**HM390 ETP-MM-04**

90° Endmills with a MULTI-MASTER  
Threaded Adaptation Carrying HM390  
TPKR 0401... Triangular Inserts



| Designation                      | DC   | APMX | CICT <sup>(1)</sup> | LF   | DCONMS | THSZMS | OAL  | DRV <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT <sup>(4)</sup> |
|----------------------------------|------|------|---------------------|------|--------|--------|------|--------------------|---------------------|-------------------|
| <b>HM390 ETP D.31-2-MMT05-04</b> | .310 | .120 | 2                   | .380 | .300   | T05    | .850 | .190               | 3.0                 | .00               |
| <b>HM390 ETP D.38-3-MMT06-04</b> | .380 | .120 | 3                   | .500 | .360   | T06    | .740 | .230               | 2.5                 | .00               |

• Tightening torque 4 lbf\*in

<sup>(1)</sup> Number of inserts

<sup>(2)</sup> Key flat size

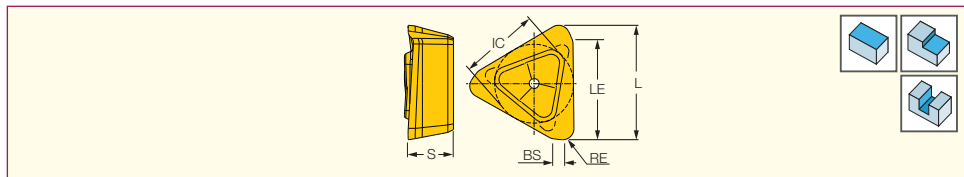
<sup>(3)</sup> Ramping angle maximum

<sup>(4)</sup> Item weight

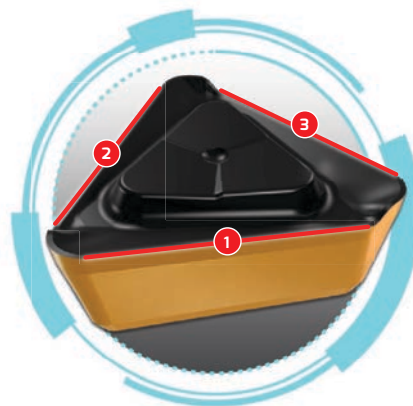
**NANMILL**  
NANO ENDMILL

**HM390 TPKR 0401**

Triangular Miniature Inserts  
with 3 Helical Cutting Edges  
for 90° Shoulders



| Designation                 | Dimensions |      |      |      |       |      | IC830 | Recommended Machining Data |                |
|-----------------------------|------------|------|------|------|-------|------|-------|----------------------------|----------------|
|                             | L          | IC   | S    | LE   | RE    | BS   |       | a.<br>(inch)               | f.<br>(inch/t) |
| <b>HM390 TPKR 0401-PCTR</b> | .157       | .110 | .063 | .118 | .0157 | .016 | •     | .020-.118                  | .0016-.0039    |



## Twisted Shape Insert for High Feed Milling Guarantees Higher Productivity



High Feed  
Milling



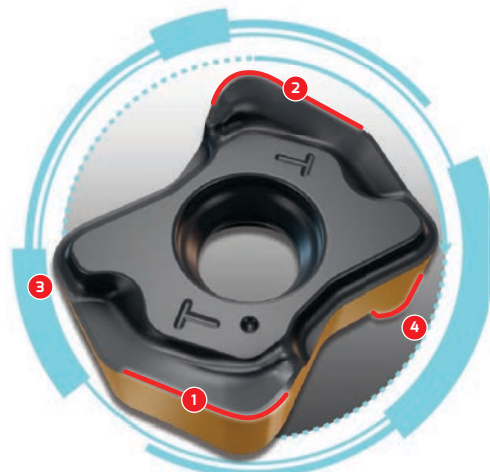
Large Body Core  
Ensures Stability  
and Rigidity



High Positive  
Rake Angle



Double Sided  
Insert



Unique Insert Shape



### Purchase

20 FFX4 XNMU 04... Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
(FFX4 ED...-04) up to 1.25"



### Purchase

30 FFX4 XNMU 04... Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Face Mill Cutter  
(FFX4 FD...-04) up to 1.5"







## Purchase

40 FFX4 XNMU 04... Assorted Inserts

## Receive

Corresponding Endmill Cutter  
(FFX4 ED...-04) up to 1.25"

## Free of Charge



## Purchase

60 FFX4 XNMU 04... Assorted Inserts

## Receive

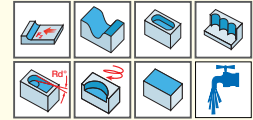
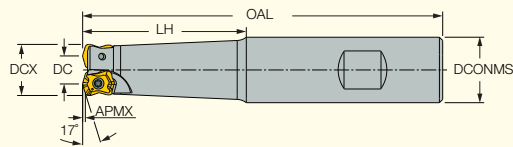
Corresponding Face Mill Cutter  
(FFX4 FD...-04) 1.5"

## Free of Charge



**FFX4 ED**

Endmills Carrying Small Double-Sided "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



| Designation                      | DCX   | DC   | APMX | CICT <sup>(1)</sup> | LH    | OAL   | DCONMS | Shank <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT <sup>(4)</sup> |
|----------------------------------|-------|------|------|---------------------|-------|-------|--------|----------------------|---------------------|-------------------|
| <b>FFX4 ED0.50-1-1.2W0.50-04</b> | .500  | .209 | .032 | 1                   | 1.200 | 3.250 | .500   | W                    | 3.4                 | .15               |
| <b>FFX4 ED0.62-2-1.5W0.62-04</b> | .625  | .334 | .032 | 2                   | 1.500 | 3.500 | .625   | W                    | 4.3                 | .25               |
| <b>FFX4 ED0.62-2-2.0W0.75-04</b> | .625  | .334 | .032 | 2                   | 2.000 | 4.250 | .750   | W                    | 4.3                 | .39               |
| <b>FFX4 ED0.75-3-2.0W0.75-04</b> | .750  | .459 | .032 | 3                   | 2.000 | 4.250 | .750   | W                    | 2.9                 | .44               |
| <b>FFX4 ED0.75-3-2.5W0.75-04</b> | .750  | .459 | .032 | 3                   | 2.500 | 5.000 | .750   | W                    | 2.9                 | .50               |
| <b>FFX4 ED1.00-4-2.0W1.00-04</b> | 1.000 | .709 | .032 | 4                   | 2.000 | 4.500 | 1.000  | W                    | 1.8                 | .02               |
| <b>FFX4 ED1.00-4-3.0W1.00-04</b> | 1.000 | .709 | .032 | 4                   | 3.000 | 5.000 | 1.000  | W                    | 1.8                 | 1.03              |
| <b>FFX4 ED1.25-5-2.5W1.00-04</b> | 1.250 | .959 | .032 | 5                   | 2.500 | 5.000 | 1.000  | W                    | 1.2                 | 1.21              |
| <b>FFX4 ED1.25-5-3.0W1.25-04</b> | 1.250 | .959 | .032 | 5                   | 3.000 | 5.500 | 1.250  | W                    | 1.2                 | 1.50              |

• Radius for programming .071"

<sup>(1)</sup> Number of inserts

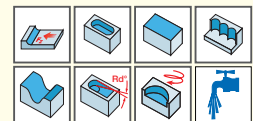
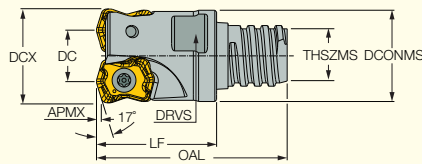
<sup>(2)</sup> W - Weldon

<sup>(3)</sup> Ramping angle maximum

<sup>(4)</sup> Item weight

**MULTI-MASTER**
**FFX4 ED-MM**

Endmills with MULTI-MASTER Adaptation Carrying Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



| Designation                     | DCX  | DC   | CICT <sup>(1)</sup> | APMX | THSZMS | LF   | OAL   | RMPX <sup>(3)</sup> | DCONMS | DRVS <sup>(4)</sup> | WT <sup>(4)</sup> |
|---------------------------------|------|------|---------------------|------|--------|------|-------|---------------------|--------|---------------------|-------------------|
| <b>FFX4 ED16/.63-2-MMT10-04</b> | .630 | .339 | 2                   | .031 | T10    | .787 | 1.250 | 4.3                 | .598   | .512                | .05               |

• Radius for programming .071"

<sup>(1)</sup> Number of inserts

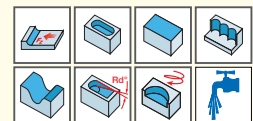
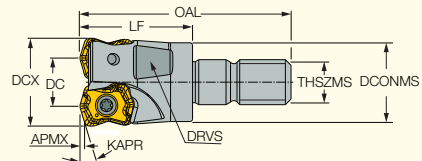
<sup>(3)</sup> Ramping angle maximum

<sup>(4)</sup> Key flat size

<sup>(4)</sup> Item weight

**FLEXFIT**
**FFX4 ED-M**

Endmills with FLEXFIT Adaptation Carrying Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



| Designation                    | DCX   | DC    | CICT <sup>(1)</sup> | APMX | THSZMS | LF    | OAL   | RMPX <sup>(3)</sup> | DCONMS | DRVS <sup>(4)</sup> | WT <sup>(4)</sup> |
|--------------------------------|-------|-------|---------------------|------|--------|-------|-------|---------------------|--------|---------------------|-------------------|
| <b>FFX4 ED20/.78-3-M10-04</b>  | .787  | .496  | 3                   | .031 | M10    | .984  | 1.772 | 2.7                 | .709   | .669                | .09               |
| <b>FFX4 ED25/.98-4-M12-04</b>  | .984  | .693  | 4                   | .031 | M12    | 1.181 | 2.047 | 1.8                 | .827   | .748                | .18               |
| <b>FFX4 ED32/1.26-5-M16-04</b> | 1.260 | .969  | 5                   | .031 | M16    | 1.378 | 2.362 | 1.2                 | 1.142  | 1.063               | .40               |
| <b>FFX4 ED35/1.38-5-M16-04</b> | 1.378 | 1.087 | 5                   | .031 | M16    | 1.378 | 2.362 | 1.1                 | 1.142  | 1.063               | .44               |

• Radius for programming .071"

<sup>(1)</sup> Number of inserts

<sup>(3)</sup> Ramping angle maximum

<sup>(4)</sup> Key flat size

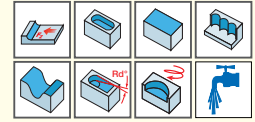
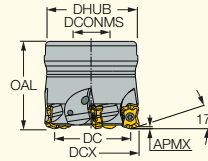
<sup>(4)</sup> Item weight





**FFX4 FD**

Face Mills Carrying Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



| Designation                 | DCX   | DC    | CIC <sup>TM</sup> | APMX | OAL   | DHUB  | DCONMS | RMPX <sup>TM</sup> | WT <sup>TM</sup> |
|-----------------------------|-------|-------|-------------------|------|-------|-------|--------|--------------------|------------------|
| <b>FFX4 FD1.50-6-.50-04</b> | 1.500 | 1.209 | 6                 | .032 | 1.500 | 1.417 | .500   | 1.0                | .51              |

• Radius for programming .071"

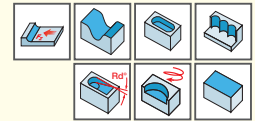
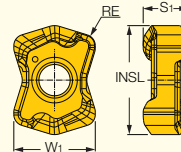
<sup>TM</sup> Number of inserts

<sup>TM</sup> Ramping angle maximum

<sup>TM</sup> Item weight

**FFX4 XNMU**

Small "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



| Designation               | Dimensions |      |       |      | Tough ↔ Hard |       |       |        |       |       | Recommended Machining Data |               |
|---------------------------|------------|------|-------|------|--------------|-------|-------|--------|-------|-------|----------------------------|---------------|
|                           | INSL       | S    | RE    | W1   | IC882        | IC840 | IC830 | IC5820 | IC808 | IC810 | a<br>(inch)                | f<br>(inch/t) |
| <b>FFX4 XNMU 040310HP</b> | .366       | .156 | .0394 | .282 | •            | •     | •     | •      |       |       | .008-.031                  | .0079-.0354   |
| <b>FFX4 XNMU 040310T</b>  | .366       | .156 | .0394 | .282 |              |       | •     |        | •     | •     | .008-.031                  | .0079-.0472   |

• HP- for austenitic stainless steel and high temperature alloys • T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel



## Unique Tangential Insert for High Feed Face Milling



Tangential  
Insert



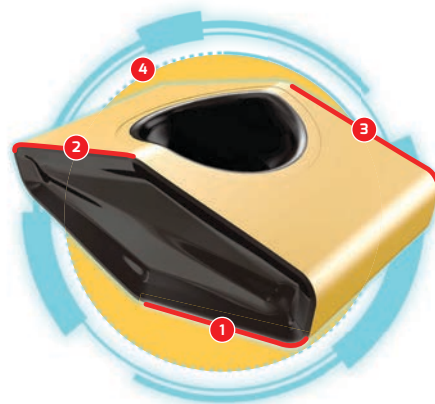
For Steel, Cast Iron  
and Exotic Materials



Strong Cutting  
Edge



Up to 3.1°  
Ramp Down Angle



### Purchase

30 FF VNMT 07... Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Face Mill Cutter  
(FFV D...-VN07) up to 4"



### Purchase

60 FF VNMT 07... Assorted Inserts

**Receive**

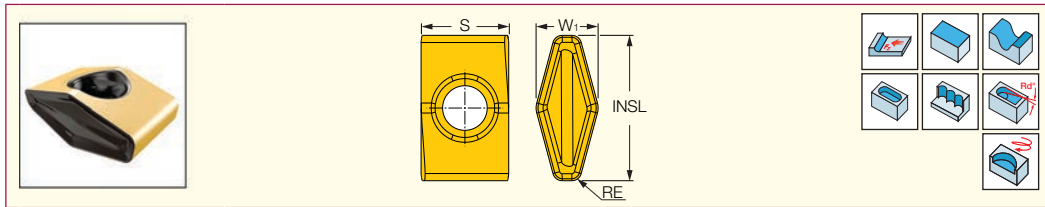
Corresponding Face Mill Cutter  
(FFV D...-VN07) up to 4"

**Free of Charge**





**FF VNMT 0706**

 Tangentially Clamped Inserts with 4  
 Cutting Edges for Fast Feed Milling


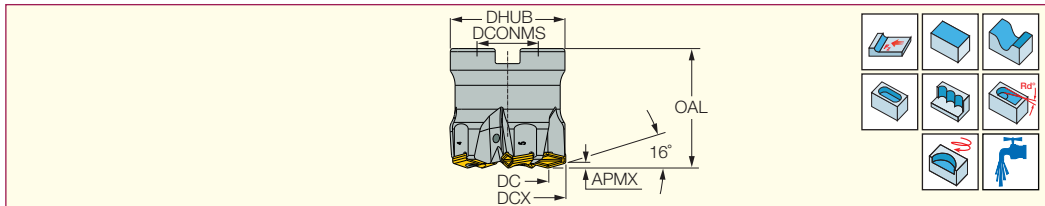
| Designation                       | Dimensions |      |       |      | Tough ↔ Hard |       |       |       |        |        |        |       | Recommended Machining Data |             |               |
|-----------------------------------|------------|------|-------|------|--------------|-------|-------|-------|--------|--------|--------|-------|----------------------------|-------------|---------------|
|                                   | W.         | INSL | RE    | S    | IC882        | IC845 | IC840 | IC830 | IC5820 | IC5400 | IC5500 | IC808 | IC810                      | a<br>(inch) | f<br>(inch/t) |
|                                   |            |      |       |      |              |       |       |       |        |        |        |       |                            |             |               |
| FF VNMT 0706ZN-ER <sup>(1)</sup>  | .252       | .591 | .0394 | .356 | ●            | ●     | ●     | ●     | ●      | ●      | ●      | ●     | ●                          | .020-.059   | .0157-.0709   |
| FF VNMT 0706ZN-ETR <sup>(2)</sup> | .252       | .591 | .0394 | .356 |              |       |       | ●     |        |        | ●      | ●     | ●                          | .020-.059   | .0157-.0709   |

• For side plunging, the initial cutting feed is .004 inch/t

<sup>(1)</sup> For general applications

<sup>(2)</sup> Reinforced cutting edges for interrupted cut and unfavorable conditions

**FFV-D-R-VN07**

 Fast Feed Shell Mill Carrying  
 Tangentially Clamped Inserts  
 with 4 Cutting Edges


| Designation                   | DCX   | DC    | AE   | APMX | CICT <sup>(1)</sup> | OAL   | DCONMS | DHUB  | RMPX <sup>(2)</sup> | Arbor | Lbs  |
|-------------------------------|-------|-------|------|------|---------------------|-------|--------|-------|---------------------|-------|------|
| <b>FFV D2.0-05-.75-R-VN07</b> | 2.000 | 1.417 | .295 | .059 | 5                   | 2.000 | .750   | 1.850 | 3.1                 | A     | 1.01 |
| <b>FFV D2.5-06-1.0-R-VN07</b> | 2.500 | 1.890 | .295 | .059 | 6                   | 1.750 | 1.000  | 2.252 | 2.2                 | A     | 1.35 |
| <b>FFV D3.0-07-1.0-R-VN07</b> | 3.000 | 2.402 | .295 | .059 | 7                   | 2.000 | 1.000  | 2.252 | 1.5                 | B     | 1.63 |
| <b>FFV D4.0-08-1.5-R-VN07</b> | 4.000 | 3.386 | .295 | .059 | 8                   | 2.000 | 1.500  | 3.228 | 1.2                 | B     | 3.43 |

• Radius for programming .110" • To generate a straight surface without cusps, the width of cut must not exceed DC

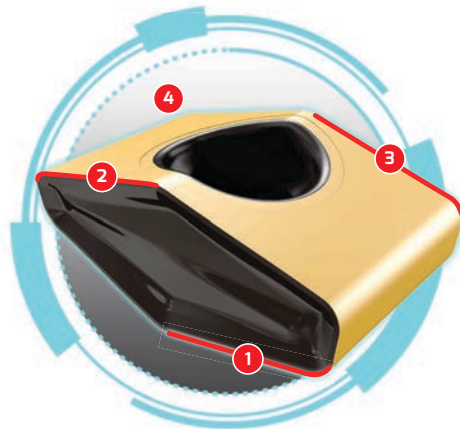
<sup>(1)</sup> Number of inserts

<sup>(2)</sup> Maximum ramping angle

**Spare Parts**

| Designation                   |  |  |  |  |
|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>FFV D2.0-05-.75-R-VN07</b> | SR M4X0.7-L11.5 IP15(a)                                                             | BLD IP15/S7(b)                                                                      | SW6-T-SH                                                                              | SR UNF 3/8X1 B18.3                                                                    |
| <b>FFV D2.5-06-1.0-R-VN07</b> | SR M4X0.7-L11.5 IP15(a)                                                             | BLD IP15/S7(b)                                                                      | SW6-T-SH                                                                              | SR UNF 1/2X20X1 B18.3                                                                 |
| <b>FFV D3.0-07-1.0-R-VN07</b> | SR M4X0.7-L11.5 IP15(a)                                                             | BLD IP15/S7(b)                                                                      | SW6-T-SH                                                                              |                                                                                       |
| <b>FFV D4.0-08-1.5-R-VN07</b> | SR M4X0.7-L11.5 IP15(a)                                                             | BLD IP15/S7(b)                                                                      | SW6-T-SH                                                                              |                                                                                       |

<sup>(a)</sup> Recommended tightening torque: 46.0 lbf\*in

<sup>(b)</sup> For limiting torque, use optional BLD 4 IP15-4.8NM blade & HSD 4-4.8NM handle


**Smallest Indexable Insert Combined  
with Small Diameter Multi-Toothed  
Endmill for High Feed and Productivity**



High Feed  
Milling



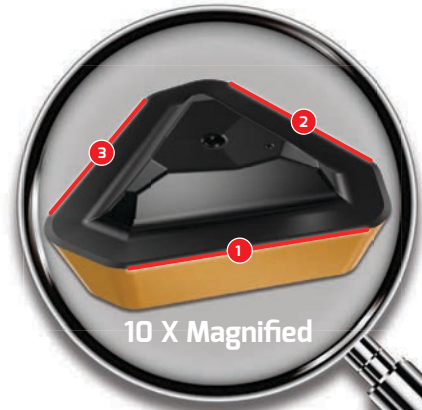
Very Strong and  
Durable Insert



High Ramp Down  
Angle



Easy Chip  
Evacuation



10 X Magnified



**Purchase**

10 FFT3 TXMT 02... Assorted Inserts

**Receive 50%**

**Additional Discount**

on the Corresponding Endmill Cutter  
(FFT3 EFM...-02) up to 0.39"



**Purchase**

30 FFT3 TXMT 02... Assorted Inserts

**Receive**

Corresponding Endmill Cutter  
(FFT3 EFM...-02) up to 0.39"

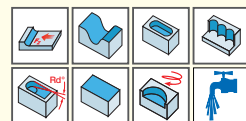
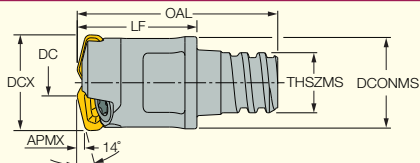
**Free of Charge**





### FFT3 EFM-MM 02

Small Diameter Endmills with a MULTI-MASTER Threaded Adaptation Carrying Triangular Inserts for Fast Feed Milling



| Designation                      | DCX  | DC   | APMX | CICT <sup>(1)</sup> | LF   | DCONMS | THSZMS | OAL  | DRVS <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT <sup>(4)</sup> |
|----------------------------------|------|------|------|---------------------|------|--------|--------|------|---------------------|---------------------|-------------------|
| <b>FFT3 EFMD08/.31-2MMT05-02</b> | .315 | .087 | .024 | 2                   | .394 | .299   | T05    | .659 | .217                | 10.8                | .02               |
| <b>FFT3 EFMD10/.39-3MMT06-02</b> | .394 | .165 | .024 | 3                   | .394 | .382   | T06    | .642 | .315                | 4.7                 | .02               |

• Radius for programing .043 inch

<sup>(1)</sup> Number of inserts

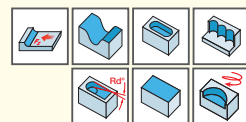
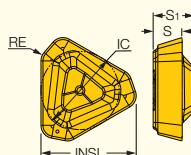
<sup>(2)</sup> Key flat size

<sup>(3)</sup> Ramping angle maximum

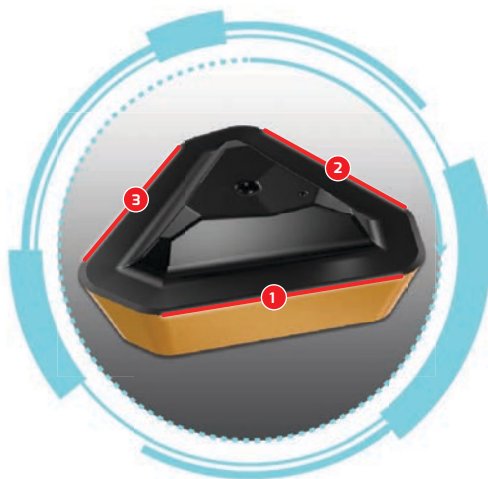
<sup>(4)</sup> Item weight

### FFT3 TXMT 02

Triangular Miniature Inserts for Fast Feed Machining at Small Depth of Cut



| Designation              | Dimensions |      |       |      |      |       | Recommended Machining Data |                |
|--------------------------|------------|------|-------|------|------|-------|----------------------------|----------------|
|                          | INSL       | IC   | RE    | S    | S    | IC830 | a.<br>(inch)               | f.<br>(inch/t) |
| <b>FFT3 TXMT 020105T</b> | .144       | .079 | .0197 | .043 | .061 | •     | .008-.024                  | .0079-.0276    |



**Small Diameter Multi-Toothed Endmill  
for High Feed and Productivity**



High Feed  
Milling



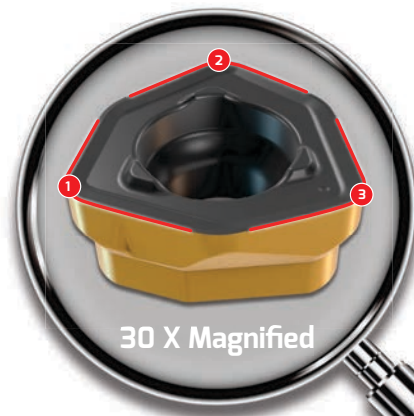
High Positive  
Rake Angle



High  
Productivity



Through-Tool  
Coolant



30 X Magnified



**Purchase**

10 FFT3 WXMT 03... Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
(FFT3 EFM...-03) up to 0.625"



**Purchase**

30 FFT3 WXMT 03... Assorted Inserts

**Receive**

Corresponding Endmill Cutter  
(FFT3 EFM...-03) up to 0.625"

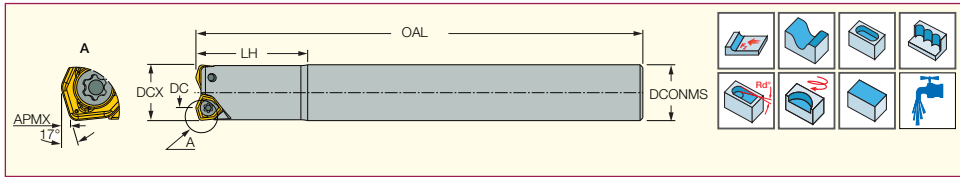
**Free of Charge**





**FFT3 EFM-03**

Endmills Carrying Single-Sided Small Trigon Inserts for Fast Feed Milling



| Designation                      | DCX  | DC   | APMX | CICT <sup>(1)</sup> | LH    | OAL   | DCONMS | Shank <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT  |
|----------------------------------|------|------|------|---------------------|-------|-------|--------|----------------------|---------------------|-----|
| <b>FFT3 EFMD.38-2-4.0C.38-03</b> | .375 | .200 | .024 | 2                   | .750  | 4.000 | .375   | C                    | 7.5                 | .08 |
| <b>FFT3 EFMD.50-3-5.0C.50-03</b> | .500 | .323 | .024 | 3                   | 1.000 | 5.000 | .500   | C                    | 4.0                 | .24 |
| <b>FFT3 EFMD.62-4-5.5C.62-03</b> | .625 | .450 | .024 | 4                   | 1.250 | 5.500 | .625   | C                    | 2.5                 | .40 |

• Radius for programming .043"

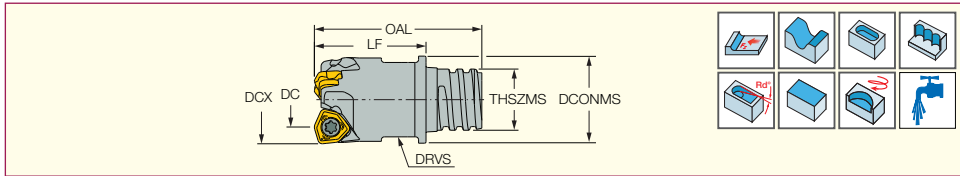
<sup>(1)</sup> Number of inserts

<sup>(2)</sup> W - Weldon

<sup>(3)</sup> Ramping angle maximum

**FFT3 EFM-MM 03**

Endmills with a MULTI-MASTER Threaded Adaptation Carrying Single-Sided Small Trigon Inserts for Fast Feed Milling



| Designation                      | DCX  | DC   | APMX | CICT <sup>(1)</sup> | LF   | DCONMS | THSZMS | OAL   | DRVS <sup>(2)</sup> | RMPX <sup>(3)</sup> | WT <sup>(4)</sup> |
|----------------------------------|------|------|------|---------------------|------|--------|--------|-------|---------------------|---------------------|-------------------|
| <b>FFT3 EFMD10/.39-2MMT06-03</b> | .394 | .220 | .024 | 2                   | .394 | .382   | T06    | .642  | .315                | 6.9                 | .04               |
| <b>FFT3 EFMD12/.47-3MMT08-03</b> | .472 | .299 | .024 | 3                   | .591 | .461   | T08    | .886  | .394                | 4.7                 | .07               |
| <b>FFT3 EFMD16/.63-4MMT10-03</b> | .630 | .457 | .024 | 4                   | .787 | .602   | T10    | 1.232 | .512                | 2.9                 | .11               |

• Radius for programming .043"

<sup>(1)</sup> Number of inserts

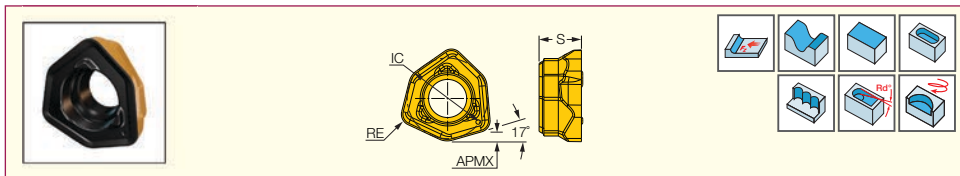
<sup>(2)</sup> Key flat size

<sup>(3)</sup> Ramping angle maximum

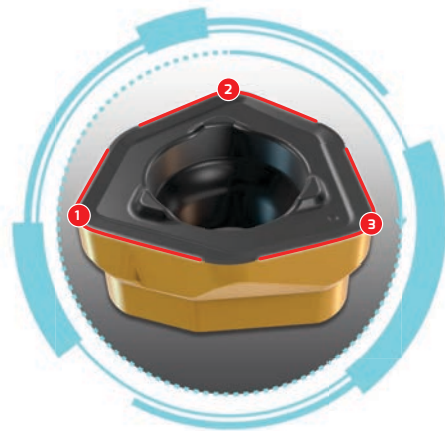
<sup>(4)</sup> Item weight

**FFT3 WXMT 03**

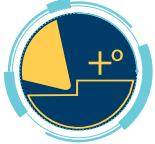
Single-Sided Small Trigon Inserts for Fast Feed Milling



| Designation              | Dimensions |      |       |      | Tough ↔ Hard |       | Recommended Machining Data |                            |
|--------------------------|------------|------|-------|------|--------------|-------|----------------------------|----------------------------|
|                          | IC         | S    | RE    | APMX | IC830        | IC808 | a <sub>p</sub><br>(inch)   | f <sub>t</sub><br>(inch/t) |
| <b>FFT3 WXMT 030206T</b> | .165       | .087 | .0236 | .024 | •            | •     | .008-.024                  | .0079-.0315                |



## Radial Profile Insert for Die & Mold and General Applications



High Positive  
Rake Angle



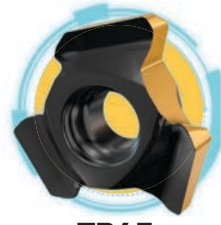
Innovative Insert  
Design



Variety of  
Cutting Geometries



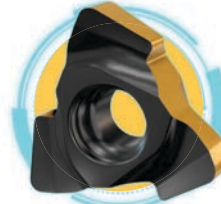
Cost Effective  
Insert



TR45



TR90



TRFF



TR6



### Purchase

20 TR6 TNCU 07 or TR90 TXMT 07 or  
TRFF TXMT 07 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
(TR6 ER...-07) up to 1.25"



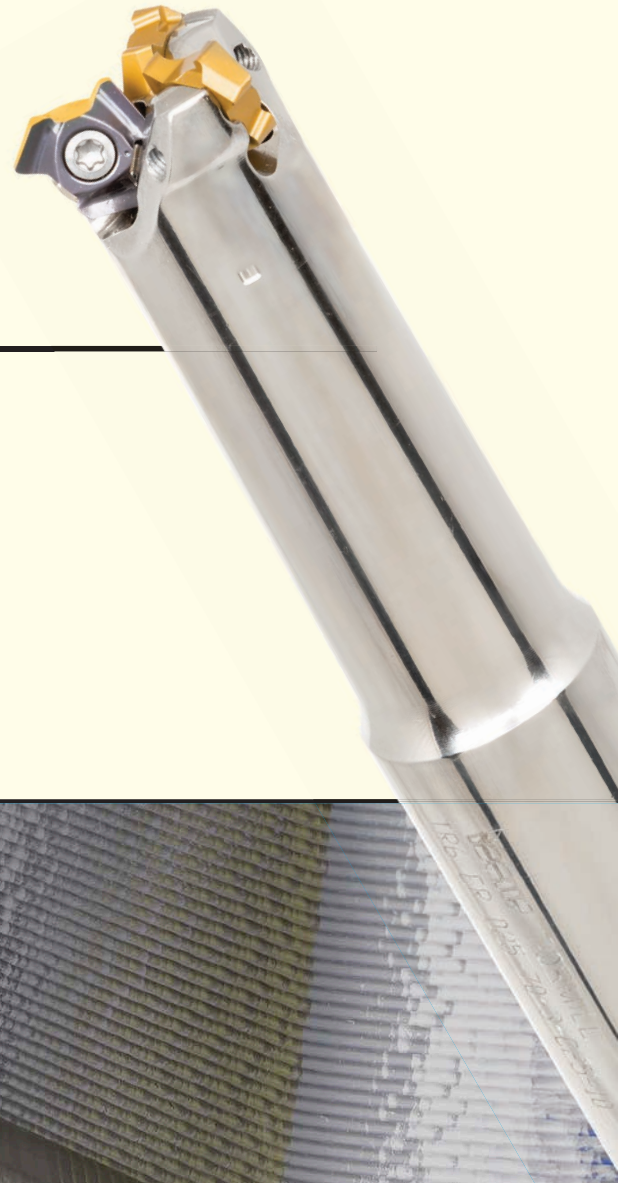
### Purchase

40 TR6 TNCU 07 or TR90 TXMT 07 or  
TRFF TXMT 07 Assorted Inserts

**Receive**

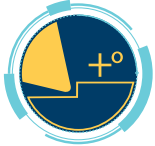
Corresponding Endmill Cutter  
(TR6 ER...-07) up to 1.25"

**Free of Charge**





## Radial Profile Insert for Die & Mold and General Applications



High Positive  
Rake Angle



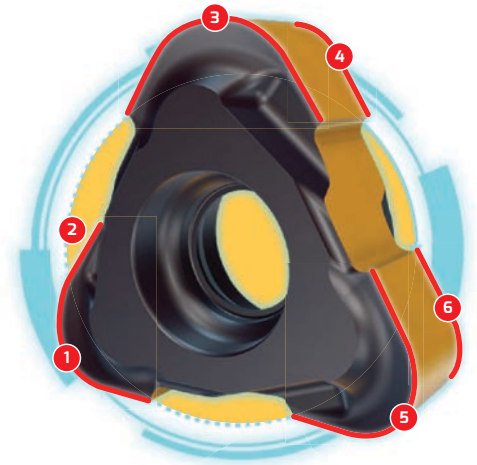
Innovative Insert  
Design



Variety of  
Cutting Geometries



Cost Effective  
Insert



### Purchase

20 TR6 TNCU 10 or TR90 TXMT 10 or  
TRFF TXMT 10 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
(TR6 ER...-10) up to 1.25"

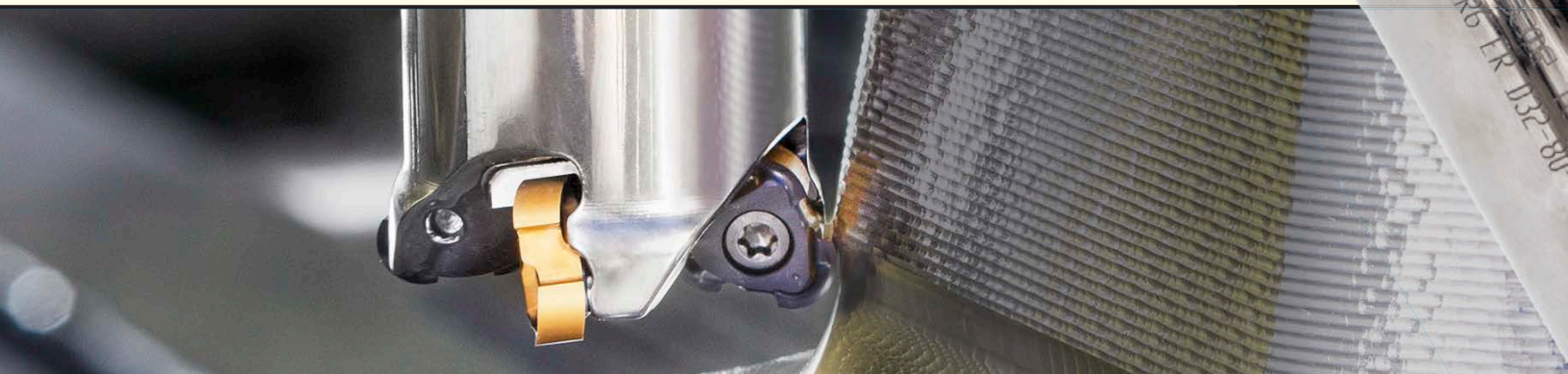
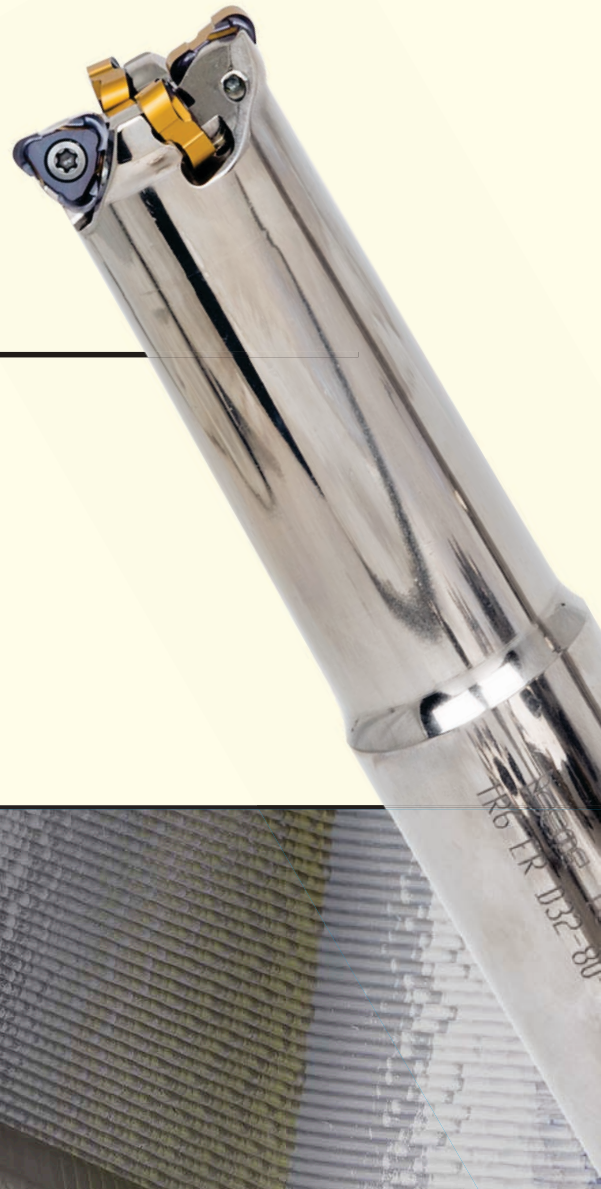


### Purchase

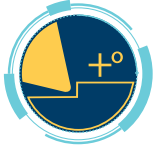
30 TR6 TNCU 10 or TR90 TXMT 10 or  
TRFF TXMT 10 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Face Mill Cutter  
(TR6 FR...-10) up to 3"



## Radial Profile Insert for Die & Mold and General Applications



High Positive  
Rake Angle



Innovative Insert  
Design



Variety of  
Cutting Geometries



Cost Effective  
Insert



### Purchase

40 TR6 TNCU 10 or TR90 TXMT 10 or  
TRFF TXMT 10 Assorted Inserts

### Receive

Corresponding Endmill Cutter  
(TR6 ER...-10) up to 1.25"

### Free of Charge



### Purchase

60 TR6 TNCU 10 or TR90 TXMT 10 or  
TRFF TXMT 10 Assorted Inserts

### Receive

Corresponding Face Mill Cutter  
(TR6 FR...-10) up to 3"

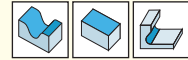
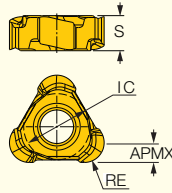
### Free of Charge





**TR6 TNCU/MU**

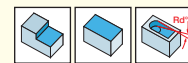
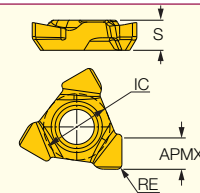
Double Sided Inserts with Six Round Cutting Edges, Available in .0197 Up to .059" Corner Radii



| Designation     | Dimensions |      |      |      | Tough ↔ Hard |       |       |       | Recommended Machining Data |               |
|-----------------|------------|------|------|------|--------------|-------|-------|-------|----------------------------|---------------|
|                 | RE         | APMX | IC   | S    | IC882        | IC830 | IC808 | IC908 | a<br>(inch)                | f<br>(inch/t) |
| TR6 TNCU 070205 | .0197      | .020 | .209 | .110 |              | ●     | ●     |       | .008-.020                  | .0039-.0118   |
| TR6 TNCU 070210 | .0394      | .039 | .209 | .110 |              | ●     | ●     |       | .008-.039                  | .0039-.0118   |
| TR6 TNMU 070215 | .0590      | .059 | .209 | .110 |              | ●     | ●     |       | .008-.059                  | .0039-.0118   |
| TR6 TNCU 100405 | .0197      | .020 | .287 | .165 | ●            | ●     | ●     |       | .008-.020                  | .0039-.0118   |
| TR6 TNCU 100410 | .0394      | .039 | .287 | .165 | ●            | ●     | ●     |       | .008-.039                  | .0039-.0118   |
| TR6 TNCU 100415 | .0590      | .059 | .287 | .165 | ●            | ●     | ●     |       | .008-.059                  | .0039-.0118   |
| TR6 TNMU 100415 | .0590      | .059 | .287 | .165 | ●            | ●     |       |       | .008-.059                  | .0039-.0118   |
| TR6 TNCU 100420 | .0787      | .079 | .287 | .165 | ●            | ●     | ●     |       | .008-.079                  | .0039-.0118   |
| TR6 TNCU 100425 | .0984      | .098 | .287 | .165 | ●            | ●     | ●     | ●     | .008-.098                  | .0039-.0118   |
| TR6 TNCU 100430 | .1181      | .118 | .287 | .165 | ●            | ●     | ●     |       | .008-.118                  | .0039-.0118   |

**TR90 TXMT**

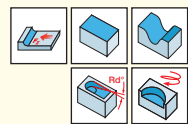
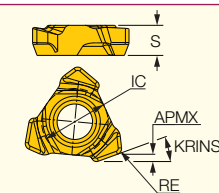
Single Sided Insert with Three Cutting Edges for 90° Shoulder and Face Milling



| Designation      | Dimensions |       |      |      | Tough ↔ Hard |       | Recommended Machining Data |               |
|------------------|------------|-------|------|------|--------------|-------|----------------------------|---------------|
|                  | APMX       | RE    | IC   | S    | IC830        | IC808 | a<br>(inch)                | f<br>(inch/t) |
| TR90 TXMT 070204 | .098       | .0157 | .209 | .094 | ●            | ●     | .020-.098                  | .0039-.0079   |
| TR90 TXMT 100408 | .157       | .0315 | .287 | .154 | ●            | ●     | .035-.157                  | .0039-.0079   |

**TRFF TXMT**

Single Sided Insert with Three Cutting Edges for High Feed Machining



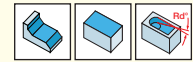
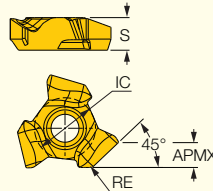
| Designation    | Dimensions |       |                  |      |      |                     | Tough ↔ Hard |       | Recommended Machining Data |               |
|----------------|------------|-------|------------------|------|------|---------------------|--------------|-------|----------------------------|---------------|
|                | APMX       | RE    | Rg <sup>m)</sup> | IC   | S    | KRINS <sup>m)</sup> | IC830        | IC808 | a<br>(inch)                | f<br>(inch/t) |
| TRFF TXMT 0702 | .024       | .0197 | .039             | .209 | .094 | 18.0                | ●            | ●     | .008-.024                  | .0197-.0315   |
| TRFF TXMT 1004 | .031       | .0276 | .055             | .287 | .154 | 17.0                | ●            | ●     | .008-.031                  | .0276-.0472   |

<sup>m)</sup> Radius for programming

<sup>m)</sup> Edge angle related to the wiper

**TR45 TXMT**

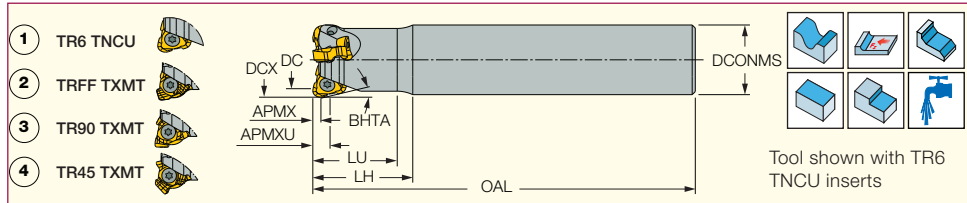
Single Sided Inserts with  
Three Cutting Edges for 45°  
Chamfering and Face Milling



| Designation           | Dimensions |       |      |      | Tough ↔ Hard |       | Recommended  | Machining Data |
|-----------------------|------------|-------|------|------|--------------|-------|--------------|----------------|
|                       | APMX       | RE    | IC   | S    | IC80         | IC808 | a.<br>(inch) | f.<br>(inch/t) |
| <b>TR45 TXMT 1004</b> | .118       | .0157 | .287 | .154 | •            | •     | .039-.118    | .0079-.0157    |

**TR6 ER**

Multifunction Endmills that can Carry  
Four Different Insert Geometries



| Designation                      | DCX   | DCX_2 | DCX_3 | DCX_4 | DC    | DC_2  | DC_4 | APMX | APMX_2 | APMX_3 | APMX_4 | APMXU | BHTA  |
|----------------------------------|-------|-------|-------|-------|-------|-------|------|------|--------|--------|--------|-------|-------|
| <b>TR6 ERD0.62-2-2.0W0.62-07</b> | .625  | .625  | .625  | -     | .546  | .466  | -    | .039 | .024   | .098   | -      | .079  | 21.00 |
| <b>TR6 ERD0.75-4-2.5W0.75-07</b> | .750  | .750  | .750  | -     | .671  | .596  | -    | .039 | .024   | .098   | -      | .079  | 21.00 |
| <b>TR6 ERD1.00-5-3.0W1.00-07</b> | 1.000 | 1.000 | 1.000 | -     | .921  | .846  | -    | .039 | .024   | .098   | -      | .079  | 21.00 |
| <b>TR6 ERD1.25-6-4.0W1.25-07</b> | 1.250 | 1.250 | 1.250 | -     | 1.171 | 1.096 | -    | .039 | .024   | .098   | -      | .079  | 21.00 |
| <b>TR6 ERD1.00-3-3.0W1.00-10</b> | 1.000 | 1.000 | 1.000 | 1.070 | .803  | .763  | .826 | .098 | .031   | .157   | .118   | .165  | 20.50 |
| <b>TR6 ERD1.25-4-3.5W1.25-10</b> | 1.250 | 1.250 | 1.250 | 1.320 | 1.053 | .763  | .826 | .098 | .031   | .157   | .118   | .165  | 20.50 |

| Designation                      | CIC <sup>1)</sup> | LU   | LU_2 | LU_3 | LU_4 | LH    | LH_2 | LH_3 | LH_4 | OAL   | OAL_2 | OAL_3 | OAL_4 | DCONMS |
|----------------------------------|-------------------|------|------|------|------|-------|------|------|------|-------|-------|-------|-------|--------|
| <b>TR6 ERD0.62-2-2.0W0.62-07</b> | 2                 | 1.86 | 1.87 | 1.87 | -    | 1.860 | 1.87 | 1.87 | -    | 3.910 | 3.917 | 3.921 | -     | .625   |
| <b>TR6 ERD0.75-4-2.5W0.75-07</b> | 4                 | 2.36 | 2.37 | 2.37 | -    | 2.360 | 2.37 | 2.37 | -    | 4.530 | 4.538 | 4.542 | -     | .750   |
| <b>TR6 ERD1.00-5-3.0W1.00-07</b> | 5                 | 2.83 | 2.84 | 2.84 | -    | 2.830 | 2.84 | 2.84 | -    | 5.280 | 5.288 | 5.292 | -     | 1.000  |
| <b>TR6 ERD1.25-6-4.0W1.25-07</b> | 6                 | 3.83 | 3.84 | 3.84 | -    | 3.830 | 3.84 | 3.84 | -    | 6.280 | 6.288 | 6.292 | -     | 1.250  |
| <b>TR6 ERD1.00-3-3.0W1.00-10</b> | 3                 | 2.80 | 2.81 | 2.80 | 2.80 | 3.000 | 3.01 | 3.00 | 3.00 | 5.280 | 5.285 | 5.276 | 5.284 | 1.000  |
| <b>TR6 ERD1.25-4-3.5W1.25-10</b> | 4                 | 3.30 | 3.31 | 3.30 | 3.30 | 3.500 | 3.51 | 3.50 | 3.50 | 5.780 | 5.785 | 5.776 | 5.784 | 1.250  |

| Designation                      | Insert          | MIID <sup>2)</sup> | MIID_2 <sup>3)</sup> | MIID_3 <sup>4)</sup> | MIID_4 <sup>5)</sup> | Lbs  |
|----------------------------------|-----------------|--------------------|----------------------|----------------------|----------------------|------|
| <b>TR6 ERD0.62-2-2.0W0.62-07</b> | TR6 TNCU 070210 | TR6 TNCU 070210    | TRFF TXMT 0702       | TR90 TXMT 070204     | -                    | .26  |
| <b>TR6 ERD0.75-4-2.5W0.75-07</b> | TR6 TNCU 070210 | TR6 TNCU 070210    | TRFF TXMT 0702       | TR90 TXMT 070204     | -                    | .41  |
| <b>TR6 ERD1.00-5-3.0W1.00-07</b> | TR6 TNCU 070210 | TR6 TNCU 070210    | TRFF TXMT 0702       | TR90 TXMT 070204     | -                    | .17  |
| <b>TR6 ERD1.25-6-4.0W1.25-07</b> | TR6 TNCU 070210 | TR6 TNCU 070210    | TRFF TXMT 0702       | TR90 TXMT 070204     | -                    | 1.68 |
| <b>TR6 ERD1.00-3-3.0W1.00-10</b> | TR6 TNCU 100425 | TR6 TNCU 100425    | TRFF TXMT 1004       | TR90 TXMT 100408     | TR45 TXMT 1004       | .88  |
| <b>TR6 ERD1.25-4-3.5W1.25-10</b> | TR6 TNCU 100425 | TR6 TNCU 100425    | TRFF TXMT 1004       | TR90 TXMT 100408     | TR45 TXMT 1004       | 1.54 |

• **Note:** The data refers to master inserts, for other insert radii and geometries refer to the table below

<sup>1)</sup> Number of inserts

<sup>2)</sup> Master insert identification

<sup>3)</sup> Master insert identification 2

<sup>4)</sup> Master insert identification 3

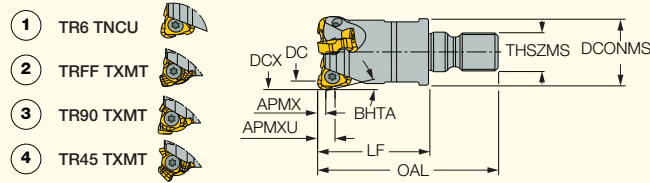
<sup>5)</sup> Master insert identification 4





**TR6 ER-M**

Multifunction Endmills with FLEXFIT  
Threaded Adaptation that can Carry  
Four Different Insert Geometries



| Designation              | DCX   | DCX_2 | DCX_3 | DCX_4 | DC    | DC_2  | DC_4  | APMX | APMX_2 | APMX_3 | APMX_4 | APMXU | BHTA  |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|-------|
| TR6 ER D16/0.63-2-M08-07 | .630  | .630  | .630  | -     | .551  | .476  | -     | .039 | .024   | .098   | -      | .079  | 21.00 |
| TR6 ER D20/0.79-4-M10-07 | .787  | .787  | .787  | -     | .709  | .634  | -     | .039 | .024   | .098   | -      | .079  | 21.00 |
| TR6 ER D25/0.98-5-M12-07 | .984  | .984  | .984  | -     | .906  | .831  | -     | .039 | .024   | .098   | -      | .079  | 21.00 |
| TR6 ER D32/1.26-6-M16-07 | 1.260 | 1.260 | 1.260 | -     | 1.181 | 1.106 | -     | .039 | .024   | .098   | -      | .079  | 21.00 |
| TR6 ER D35/1.38-6-M16-07 | 1.378 | 1.378 | 1.378 | -     | 1.299 | 1.224 | -     | .039 | .024   | .098   | -      | .079  | 21.00 |
| TR6 ER D25/0.98-3-M12-10 | .984  | .984  | .984  | 1.055 | .787  | .811  | .811  | .098 | .031   | .157   | .118   | .165  | 20.50 |
| TR6 ER D32/1.26-4-M16-10 | 1.260 | 1.260 | 1.260 | 1.331 | 1.063 | 1.087 | 1.087 | .098 | .031   | .157   | .118   | .165  | 20.50 |
| TR6 ER D35/1.38-5-M16-10 | 1.378 | 1.378 | 1.378 | 1.449 | 1.181 | 1.205 | 1.205 | .098 | .031   | .157   | .118   | .165  | 20.50 |

| Designation              | CICT <sup>m</sup> | LF    | LF_2  | LF_3  | LF_4  | OAL   | OAL_2 | OAL_3 | OAL_4 | DCONMS | THSZMS |
|--------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| TR6 ER D16/0.63-2-M08-07 | 2                 | .787  | .992  | .996  | -     | 1.673 | 1.858 | 1.685 | -     | .512   | M08    |
| TR6 ER D20/0.79-4-M10-07 | 4                 | .984  | 1.071 | 1.075 | -     | 1.850 | 1.858 | 1.862 | -     | .709   | M10    |
| TR6 ER D25/0.98-5-M12-07 | 5                 | 1.181 | 1.189 | 1.193 | -     | 2.047 | 2.055 | 2.059 | -     | .827   | M12    |
| TR6 ER D32/1.26-6-M16-07 | 6                 | 1.378 | 1.307 | 1.311 | -     | 2.283 | 2.291 | 2.295 | -     | 1.142  | M16    |
| TR6 ER D35/1.38-6-M16-07 | 6                 | 1.378 | 1.307 | 1.311 | -     | 2.283 | 2.291 | 2.295 | -     | 1.142  | M16    |
| TR6 ER D25/0.98-3-M12-10 | 3                 | 1.378 | .990  | .989  | .989  | 1.850 | 1.856 | 1.847 | 1.855 | .827   | M12    |
| TR6 ER D32/1.26-4-M16-10 | 4                 | 1.378 | 1.384 | 1.383 | 1.383 | 2.362 | 2.368 | 2.359 | 2.367 | 1.142  | M16    |
| TR6 ER D35/1.38-5-M16-10 | 5                 | 1.378 | 1.384 | 1.383 | 1.383 | 2.362 | 2.368 | 2.359 | 2.367 | 1.142  | M16    |

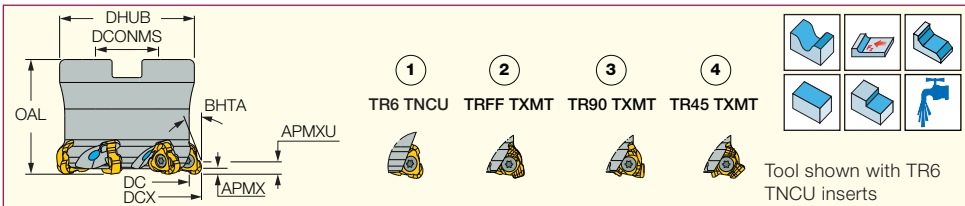
| Designation              | MIID <sup>m</sup> | MIID_2 <sup>m</sup> | MIID_3 <sup>m</sup> | MIID_4 <sup>m</sup> | Lbs | Insert          |
|--------------------------|-------------------|---------------------|---------------------|---------------------|-----|-----------------|
| TR6 ER D16/0.63-2-M08-07 | TR6 TNCU 070210   | TRFF TXMT 0702      | TR90 TXMT 070204    | -                   | .07 | TR6 TNCU 070210 |
| TR6 ER D20/0.79-4-M10-07 | TR6 TNCU 070210   | TRFF TXMT 0702      | TR90 TXMT 070204    | -                   | .11 | TR6 TNCU 070210 |
| TR6 ER D25/0.98-5-M12-07 | TR6 TNCU 070210   | TRFF TXMT 0702      | TR90 TXMT 070204    | -                   | .18 | TR6 TNCU 070210 |
| TR6 ER D32/1.26-6-M16-07 | TR6 TNCU 070210   | TRFF TXMT 0702      | TR90 TXMT 070204    | -                   | .40 | TR6 TNCU 070210 |
| TR6 ER D35/1.38-6-M16-07 | TR6 TNCU 070210   | TRFF TXMT 070 2     | TR90 TXMT 070204    | -                   | .42 | TR6 TNCU 070210 |
| TR6 ER D25/0.98-3-M12-10 | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | .13 | TR6 TNCU 100425 |
| TR6 ER D32/1.26-4-M16-10 | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | .37 | TR6 TNCU 100425 |
| TR6 ER D35/1.38-5-M16-10 | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | .39 | TR6 TNCU 100425 |

• **Note:** The data refers to master inserts, for other insert radii and geometries refer to the table below

<sup>m</sup> Number of inserts <sup>m</sup> Master insert identification <sup>m</sup> Master insert identification 2 <sup>m</sup> Master insert identification 3 <sup>m</sup> Master insert identification 4

**TR6 FR**

Multifunction Face Mills that can Carry  
Four Different Insert Geometries



| Designation             | DCX   | DCX_2 | DCX_3 | DCX_4 | DC    | DC_2  | DC_4  | APMX | APMX_2 | APMX_3 | APMX_4 | APMXU | BHTA  | CICT <sup>m</sup> | OAL   | OAL_2 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|-------|-------------------|-------|-------|
| TR6 FR D1.50-06-0.50-10 | 1.500 | 1.500 | 1.500 | 1.560 | 1.303 | 1.263 | 1.315 | .098 | .310   | .157   | .118   | .165  | 20.50 | 6                 | 1.250 | 1.255 |
| TR6 FR D2.00-07-0.75-10 | 2.000 | 2.000 | 2.000 | 2.062 | 1.803 | 1.763 | 1.815 | .098 | .310   | .157   | .118   | .165  | 20.50 | 7                 | 1.500 | 1.505 |
| TR6 FR D2.50-08-1.00-10 | 2.500 | 2.500 | 2.500 | 2.562 | 2.303 | 2.263 | 2.315 | .098 | .310   | .157   | .118   | .165  | 20.50 | 8                 | 1.750 | 1.755 |
| TR6 FR D3.00-10-1.25-10 | 3.000 | 3.000 | 3.000 | 3.063 | 2.803 | 2.763 | 2.815 | .098 | .310   | .157   | .118   | .165  | 20.50 | 10                | 2.000 | 2.005 |

| Designation             | OAL_3 | OAL_4 | DCONMS | DHUB  | Arbor | MIID <sup>m</sup> | MIID_2 <sup>m</sup> | MIID_3 <sup>m</sup> | MIID_4 <sup>m</sup> | Lbs  |
|-------------------------|-------|-------|--------|-------|-------|-------------------|---------------------|---------------------|---------------------|------|
| TR6 FR D1.50-06-0.50-10 | 1.246 | 1.254 | .500   | 1.250 | A     | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | .28  |
| TR6 FR D2.00-07-0.75-10 | 1.496 | 1.504 | .750   | 1.800 | A     | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | .73  |
| TR6 FR D2.50-08-1.00-10 | 1.746 | 1.754 | 1.000  | 2.250 | A     | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | .99  |
| TR6 FR D3.00-10-1.25-10 | 1.996 | 2.004 | 1.250  | 2.870 | A     | TR6 TNCU 100425   | TRFF TXMT 1004      | TR90 TXMT 100408    | TR45 TXMT 1004      | 2.39 |

• **Note:** The data refers to master inserts, for other insert radii and geometries refer to the table below

<sup>m</sup> Number of inserts <sup>m</sup> Master insert identification <sup>m</sup> Master insert identification 2 <sup>m</sup> Master insert identification 3 <sup>m</sup> Master insert identification 4

## Square Insert for Fast Feed Face Milling with Higher Productivity



Reinforced  
Insert Radius



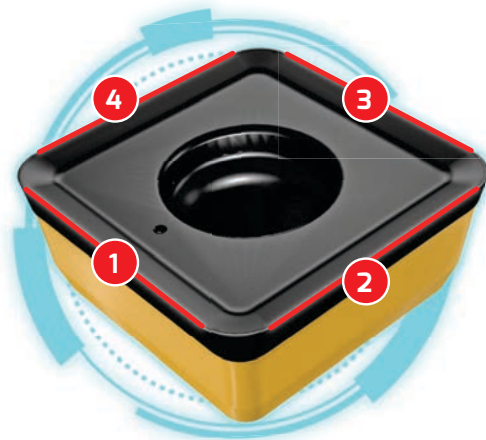
For Stainless Steel,  
Cast Iron  
& Exotic Materials



Positive Insert  
Positioning



Interrupted Cut



### Purchase

20 FFQ4 SOMT 09 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Endmill Cutter  
up to 1.50"



### Purchase

30 FFQ4 SOMT 09 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding Face Mill Cutter  
up to 2.50"







### Purchase

30 FFQ4 SOMT 12 Assorted Inserts

**Receive 80%**

**Additional Discount**

on the Corresponding Endmill Cutter  
up to 1.50"



### Purchase

60 FFQ4 SOMT 12 Assorted Inserts

**Receive 80%**

**Additional Discount**

on the Corresponding Face Mill Cutter  
up to 2.50"



### Purchase

30 FFQ4 SOMT 17 Assorted Inserts

**Receive 50%**

**Additional Discount**

on the Corresponding Endmill Cutter  
up to 5"



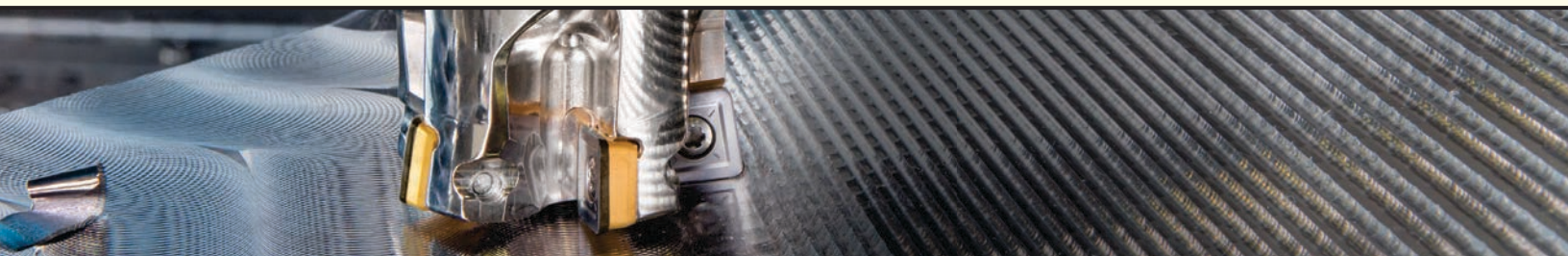
### Purchase

60 FFQ4 SOMT 17 Assorted Inserts

**Receive 80%**

**Additional Discount**

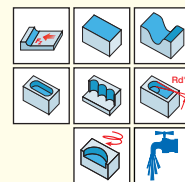
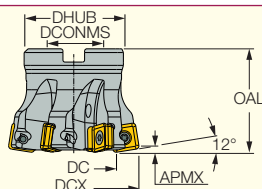
on the Corresponding Face Mill Cutter  
up to 5"



# MILL4FEED

## FFQ4 D-09

Fast Feed Face Mills Carrying Single-Sided Inserts with 4 Cutting Edges



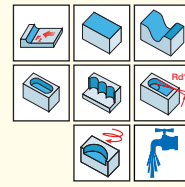
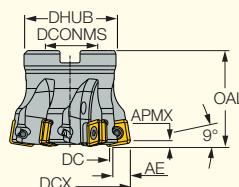
| Designation           | DCX <sup>(1)</sup> | DC    | APMX | AE <sup>(2)</sup> | CICT <sup>(3)</sup> | OAL   | DCONMS | DHUB  | RMPX <sup>(4)</sup> |  | MIID <sup>(5)</sup> | TQ <sup>(6)</sup> |
|-----------------------|--------------------|-------|------|-------------------|---------------------|-------|--------|-------|---------------------|-------------------------------------------------------------------------------------|---------------------|-------------------|
| FFQ4 D1.50-05-0.50-09 | 1.500              | .933  | .047 | .280              | 5                   | 1.400 | .500   | 1.417 | 2.2                 | .38                                                                                 | FFQ4 SOMT 090412T   | 17.70             |
| FFQ4 D2.00-07-0.75-09 | 2.000              | 1.439 | .047 | .280              | 7                   | 1.600 | .750   | 1.850 | 1.5                 | .77                                                                                 | FFQ4 SOMT 090412T   | 17.70             |
| FFQ4 D2.50-08-1.00-09 | 2.500              | 1.937 | .047 | .280              | 8                   | 1.850 | 1.000  | 2.252 | 1.1                 | 1.38                                                                                | FFQ4 SOMT 090412T   | 17.70             |

• Radius for programming .098" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%. <sup>(1)</sup> Cutting diameter maximum <sup>(2)</sup> Maximum plunging width <sup>(3)</sup> Number of inserts <sup>(4)</sup> Maximum ramping angle <sup>(5)</sup> Master insert identification <sup>(6)</sup> Recommended tightening torque (lbf\*in) for insert screw

# MILL4FEED

## FFQ4 D-12

Fast Feed Face Mills Carrying Single-Sided Inserts with 4 Cutting Edges



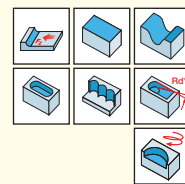
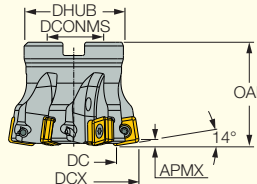
| Designation          | DCX <sup>(1)</sup> | DC    | APMX | AE <sup>(2)</sup> | CICT <sup>(3)</sup> | LF    | DHUB  | DCONMS | Arbor | RMPX <sup>(4)</sup> |  | MIID <sup>(5)</sup> | TQ <sup>(6)</sup> |
|----------------------|--------------------|-------|------|-------------------|---------------------|-------|-------|--------|-------|---------------------|-------------------------------------------------------------------------------------|---------------------|-------------------|
| FFQ4 D2.0-5-0.75-12  | 2.000              | 1.136 | .059 | .394              | 5                   | 2.000 | 1.850 | .750   | A     | 2.6                 | .88                                                                                 | FFQ4 SOMT 120516HP  | 42.50             |
| FFQ4 D2.5-6-1.00-12  | 2.500              | 1.636 | .059 | .394              | 6                   | 2.000 | 2.252 | 1.000  | A     | 1.7                 | 1.30                                                                                | FFQ4 SOMT 120516HP  | 42.50             |
| FFQ4 D3.0-7-1.00-12  | 3.000              | 2.136 | .059 | .394              | 7                   | 2.000 | 2.252 | 1.000  | A     | 1.3                 | 1.72                                                                                | FFQ4 SOMT 120516HP  | 42.50             |
| FFQ4 D4.0-8-1.50-12  | 4.000              | 3.136 | .059 | .394              | 8                   | 2.000 | 3.228 | 1.500  | B     | .9                  | 2.92                                                                                | FFQ4 SOMT 120516HP  | 42.50             |
| FFQ4 D5.0-10-1.50-12 | 5.000              | 4.110 | .059 | .394              | 10                  | 2.000 | 3.799 | 1.500  | B     | .7                  | 5.51                                                                                | FFQ4 SOMT 120516HP  | 42.50             |

• Radius for programming .122" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%. <sup>(1)</sup> Cutting diameter maximum <sup>(2)</sup> Maximum plunging width <sup>(3)</sup> Number of inserts <sup>(4)</sup> Maximum ramping angle <sup>(5)</sup> Master insert identification <sup>(6)</sup> Recommended tightening torque (lbf\*in) for insert screw

# MILL4FEED

## FFQ4 D-17

Fast Feed Face Mills Carrying Single-Sided Inserts with 4 Cutting Edges



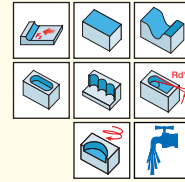
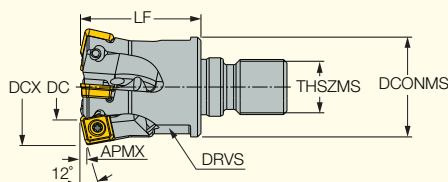
| Designation           | DCX <sup>(1)</sup> | DC    | APMX | AE <sup>(2)</sup> | CICT <sup>(3)</sup> | OAL   | DCONMS | DHUB  | RMPX <sup>(4)</sup> | CSP <sup>(5)</sup> |  | MIID <sup>(6)</sup> | TQ <sup>(7)</sup> |
|-----------------------|--------------------|-------|------|-------------------|---------------------|-------|--------|-------|---------------------|--------------------|---------------------------------------------------------------------------------------|---------------------|-------------------|
| FFQ4 D3.00-06-1.25-17 | 3.000              | 1.850 | .118 | .574              | 6                   | 2.000 | 1.250  | 2.874 | 1.2                 | 1                  | 1.79                                                                                  | FFQ4 SOMT 170625T   | 80.00             |
| FFQ4 D4.00-07-1.50-17 | 4.000              | 2.850 | .118 | .574              | 7                   | 2.000 | 1.500  | 3.228 | .8                  | 1                  | 2.91                                                                                  | FFQ4 SOMT 170625T   | 80.00             |
| FFQ4 D5.00-08-1.50-17 | 5.000              | 3.850 | .118 | .574              | 8                   | 2.250 | 1.500  | 3.228 | .6                  | 1                  | 4.44                                                                                  | FFQ4 SOMT 170625T   | 80.00             |
| FFQ4 D6.00-10-2.00-17 | 6.000              | 4.850 | .118 | .574              | 10                  | 2.500 | 2.000  | 5.000 | .4                  | 0                  | 9.81                                                                                  | FFQ4 SOMT 170625T   | 80.00             |

• Radius for programming .217" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%. <sup>(1)</sup> Cutting diameter maximum <sup>(2)</sup> Maximum plunging width <sup>(3)</sup> Number of inserts <sup>(4)</sup> Maximum ramping angle <sup>(5)</sup> 0 - Without coolant supply, 1 - With coolant supply <sup>(6)</sup> Master insert identification <sup>(7)</sup> Recommended tightening torque (lbf\*in) for insert screw

# MILL4FEED

## FFQ4 D-M-09

Fast Feed Endmills with FLEXFIT Threaded Adaptation Carrying Single-Sided Inserts with 4 Cutting Edges



| Designation          | DCX <sup>(1)</sup> | DC   | APMX | AE <sup>(2)</sup> | CICT <sup>(3)</sup> | THSZMS | LF    | OAL   | DCONMS | RMPX <sup>(4)</sup> | DRVS <sup>(5)</sup> |  | MIID <sup>(6)</sup> | TQ <sup>(7)</sup> |
|----------------------|--------------------|------|------|-------------------|---------------------|--------|-------|-------|--------|---------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|-------------------|
| FFQ4 D1.50-05-M16-09 | 1.500              | .933 | .047 | .280              | 5                   | M16    | 1.400 | 2.400 | 1.142  | 2.3                 | .984                | .39                                                                                   | FFQ4 SOMT 090412T   | 17.70             |

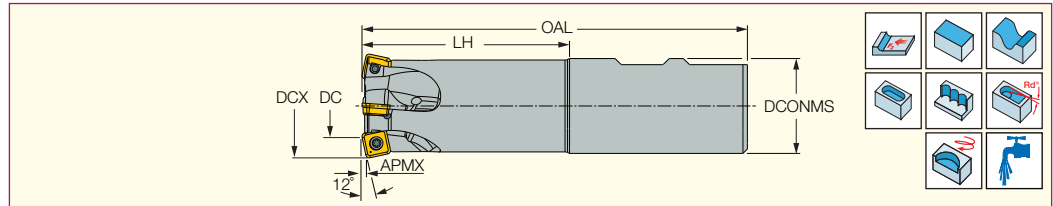
• Radius for programming .098" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%. <sup>(1)</sup> Cutting diameter maximum <sup>(2)</sup> Maximum plunging width <sup>(3)</sup> Number of inserts <sup>(4)</sup> Maximum ramping angle <sup>(5)</sup> Key flat size <sup>(6)</sup> Master insert identification <sup>(7)</sup> Recommended tightening torque (lbf\*in) for insert screw



# MILL4FEED

## FFQ4 D-W-09

Fast Feed Endmills Carrying Single-Sided Inserts with 4 Cutting Edges



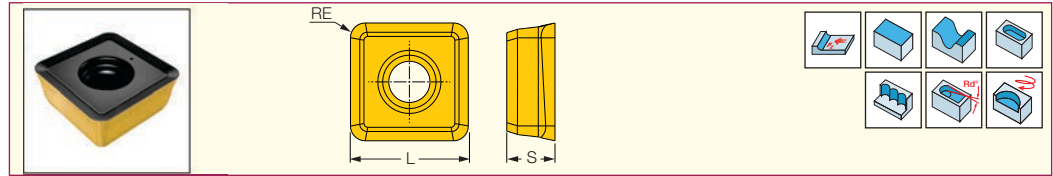
| Designation               | DCX <sup>a</sup> | DC   | APMX | AE <sup>a</sup> | CICT <sup>a</sup> | LH    | DCONMS | OAL   | RMPX <sup>a</sup> |  | MIID <sup>a</sup> | TQ <sup>a</sup> |
|---------------------------|------------------|------|------|-----------------|-------------------|-------|--------|-------|-------------------|-------------------------------------------------------------------------------------|-------------------|-----------------|
| FFQ4 D0.87-2-1.7-W0.75-09 | .875             | .311 | .047 | .280            | 2                 | 1.750 | .750   | 3.800 | 8.0               | .39                                                                                 | FFQ4 S0MT 090412T | 17.70           |
| FFQ4 D1.00-3-2.0-W1.00-09 | 1.000            | .437 | .047 | .280            | 3                 | 2.000 | 1.000  | 4.300 | 5.4               | .74                                                                                 | FFQ4 S0MT 090412T | 17.70           |
| FFQ4 D1.25-4-2.5-W1.00-09 | 1.250            | .689 | .047 | .280            | 4                 | 2.500 | 1.000  | 4.800 | 3.3               | .91                                                                                 | FFQ4 S0MT 090412T | 17.70           |
| FFQ4 D1.50-5-3.0-W1.25-09 | 1.500            | .938 | .047 | .280            | 5                 | 3.000 | 1.250  | 5.300 | 2.2               | 1.55                                                                                | FFQ4 S0MT 090412T | 17.70           |

• Radius for programming .098" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 50%. <sup>a</sup> Cutting diameter maximum <sup>b</sup> Maximum plunging width <sup>c</sup> Number of inserts <sup>d</sup> Maximum ramping angle <sup>e</sup> Master insert identification <sup>f</sup> Recommended tightening torque (lb\*in) for insert screw

# MILL4FEED

## FFQ4 S0MT 0904

Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling



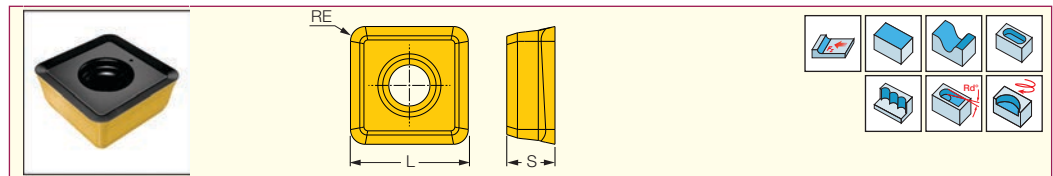
| Designation        | Dimensions |      |       | Tough ↔ Hard |       |        |       |       | Recommended Machining Data |             |
|--------------------|------------|------|-------|--------------|-------|--------|-------|-------|----------------------------|-------------|
|                    | L          | S    | RE    | IC882        | IC830 | IC5820 | IC808 | IC810 | a (inch)                   | f (inch/t)  |
| FFQ4 S0MT 090412T  | .339       | .154 | .0472 |              | •     |        | •     | •     | .020-.047                  | .0157-.0590 |
| FFQ4 S0MT 0904RM-T | .339       | .150 | .0472 |              | •     |        | •     | •     | .020-.047                  | .0157-.0590 |
| FFQ4 S0MT 090412HP | .339       | .150 | .0472 | •            | •     | •      | •     | •     | .020-.047                  | .0157-.0551 |

• For side plunging, the initial cutting feed is .004 inch/t • T - type for steel, ferritic and martensitic stainless steel, cast iron and hardened steel • RM-T type for interrupted cut and machining near straight shoulders on steel, ferritic and martensitic stainless steel, cast iron and hardened steel • HP- type for austenitic stainless steel and high temperature alloys

# MILL4FEED

## FFQ4 S0MT 1706

Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling



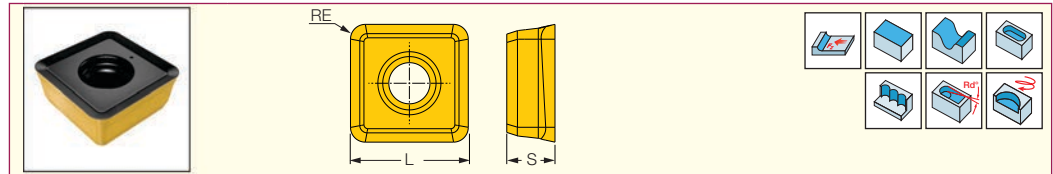
| Designation                       | Dimensions |      |       | Tough ↔ Hard |       |        |       |       | Recommended Machining Data |             |
|-----------------------------------|------------|------|-------|--------------|-------|--------|-------|-------|----------------------------|-------------|
|                                   | L          | S    | RE    | IC882        | IC830 | IC5820 | IC808 | IC810 | a (inch)                   | f (inch/t)  |
| FFQ4 S0MT 1706RM-T <sup>(1)</sup> | .689       | .236 | .0984 |              | •     |        | •     | •     | .047-.118                  | .0157-.0787 |
| FFQ4 S0MT 170625HP <sup>(2)</sup> | .689       | .236 | .0984 | •            | •     | •      | •     | •     | .047-.118                  | .0157-.0590 |
| FFQ4 S0MT 170625T <sup>(3)</sup>  | .689       | .236 | .0984 |              | •     |        | •     | •     | .047-.118                  | .0157-.0787 |

• For side plunging, the initial cutting feed is .004 inch/t <sup>(1)</sup> For interrupted cut and machining next to shoulders on steel, stainless steel, cast iron and hardened steel <sup>(2)</sup> For austenitic stainless steel and high temperature alloys <sup>(3)</sup> For steel, ferritic and martensitic stainless steel, cast iron and hardened steel

# MILL4FEED

## FFQ4 S0MT 1205

Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling



| Designation         | Dimensions |      |      | Tough ↔ Hard |       |        |       |       | Recommended Machining Data |             |
|---------------------|------------|------|------|--------------|-------|--------|-------|-------|----------------------------|-------------|
|                     | L          | S    | RE   | IC882        | IC830 | IC5820 | IC808 | IC810 | a (inch)                   | f (inch/t)  |
| FFQ4 S0MT 1205RM-HP | .500       | .205 | .063 |              | •     |        | •     | •     | .020-.059                  | .0157-.0709 |
| FFQ4 S0MT 1205RM-T  | .500       | .205 | .063 |              | •     |        | •     | •     | .020-.059                  | .0157-.0787 |
| FFQ4 S0MT 120516HP  | .500       | .205 | .063 | •            | •     | •      | •     | •     | .020-.059                  | .0157-.0709 |
| FFQ4 S0MT 120516T   | .500       | .205 | .063 |              | •     |        | •     | •     | .020-.059                  | .0157-.0787 |
| FFQ4 S0MT 120516T20 | .500       | .205 | .063 |              | •     |        | •     | •     | .020-.059                  | .0157-.0787 |

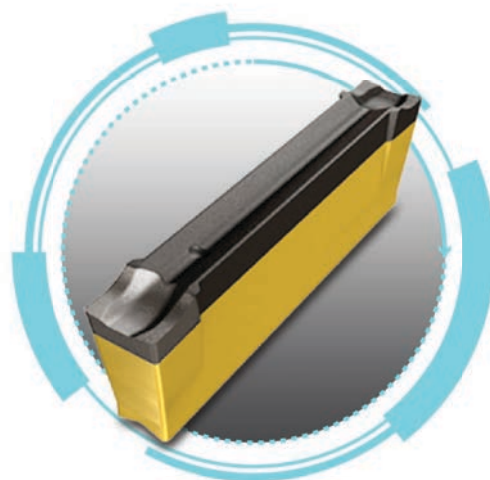
• RM-HP- for interrupted cut and machining next to shoulders of austenitic stainless steel and high temperature alloys • RM-T- for interrupted cut and machining next to shoulders of steel, ferritic and martensitic stainless steel, cast iron and hardened steel • HP- for austenitic stainless steel and high temperature alloys • T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel • T20- for grey and nodular cast iron

## The One and Only Double-Sided Twisted Parting Insert with **no Depth of Cut Limitation**

In addition to highly efficient parting inserts in single and double-ended conventional configurations, ISCAR offers a unique double-ended twisted geometry for unlimited depth of penetration.

The **DO-GRIP** ranges also include the largest choice of parting widths available in today's market, covering all applications.

ISCAR offers a wide variety of chipformers and the most advanced grades to ensure unbeatable performance and extended tool life.



### **Purchase**

20 DGN/L/R 1.4/2/3/4/5 Assorted Inserts

### **Receive**

1 Corresponding Blade, DGFH (26/32)

**OR**

Integral Holder\* DGTR/L at

**50%**

**Additional Discount**

\* JHP Holders are not included



## ISCAR's single-ended insert for parting, with an **improved clamping method**

- Very rigid clamping in a tangentially oriented pocket
- Enables machining at high feed rates and provides excellent straightness and surface finish
- Recommended for parting also large diameter parts and for interrupted cuts
- Offers a free, unobstructed chip flow, since there is no upper jaw as in the other clamping systems



### Purchase

20 TAG 1.4/2/3/4/5/6 Assorted Inserts

### Receive 50% Additional Discount

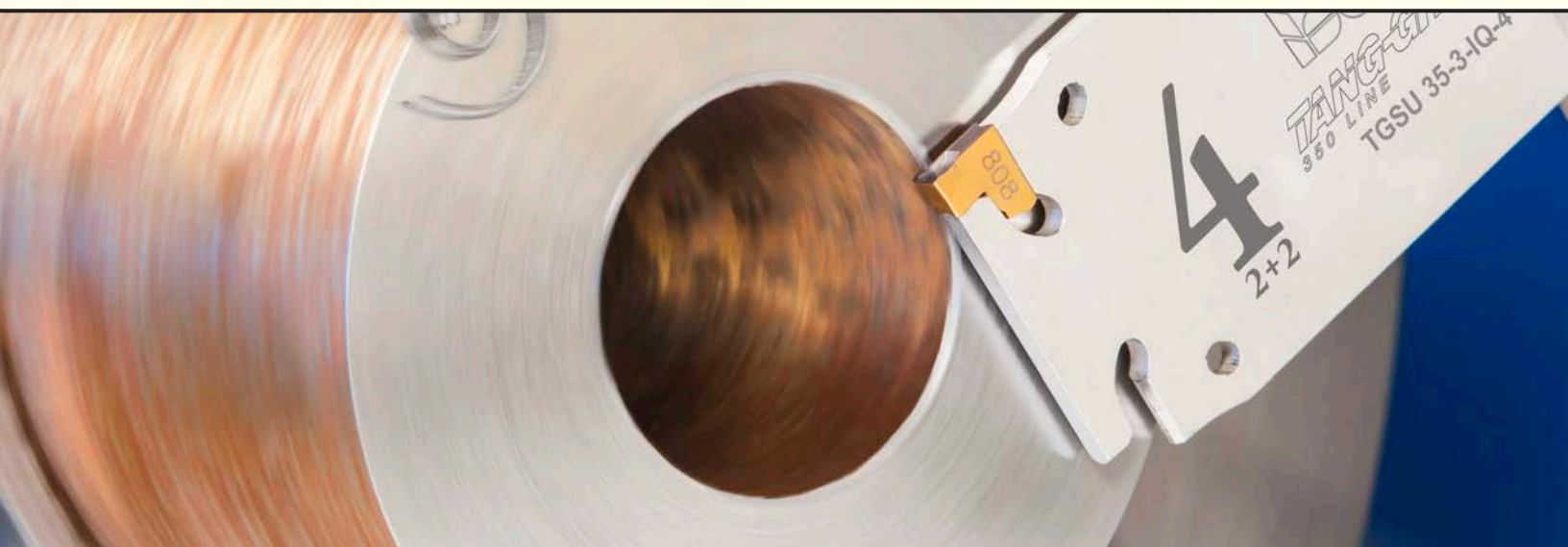
1 Corresponding Blade, TGFH 26/32 or TGSU 35

**OR**

Integral Holder\* TGT/L/R at

### 50% Additional Discount

\* JHP Holders are not included





## Pentagonal Economical Adapters, 5 Pockets for Parting & Grooving



Ease of Use



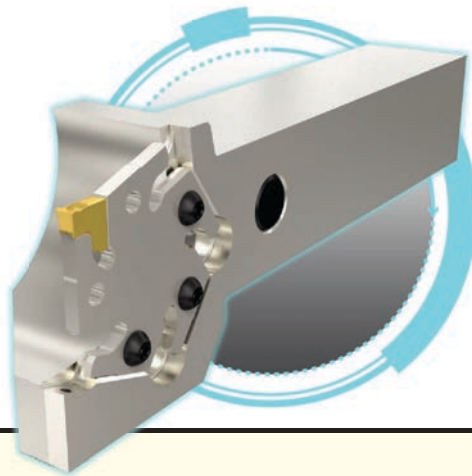
High Pressure  
Coolant



New Generation



Cost Effective  
Insert



### Purchase

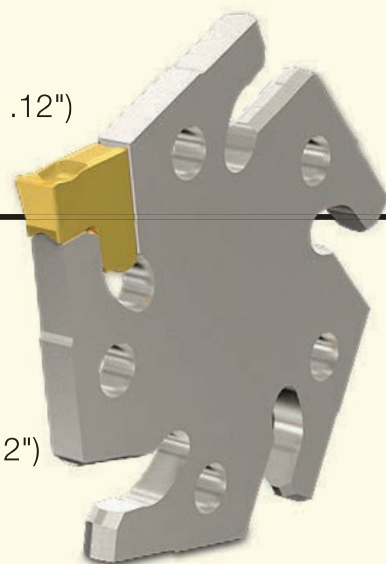
20 assorted TAG Inserts from widths .08" and .12"

**Receive 50%**

**Additional Discount**

on the THMPR\ - D45 Holder  
(for parting diameter up to 1.77")  
and Corresponding ADMP D45 - 2/3 Adapter (.08" and .12")

**Free of Charge**



### Purchase

30 assorted TAG Inserts from widths .08" and .12"

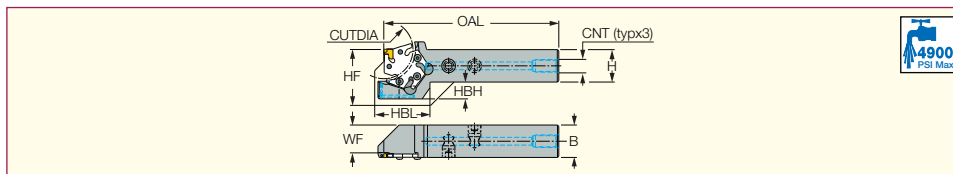
**Receive**

a Corresponding ADMP-D45 - 2/3 Adapter (.08" and .12")  
and a THMPR\ - D45 Holder (for parting up to 1.77")

**Free of Charge**



**THMPR/L D45-JHP**  
Holders with High Pressure  
Coolant Channels for Pentagonal  
TANG-GRIP Adapters

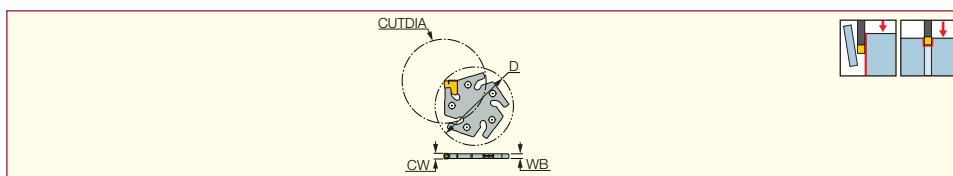


| Designation          | H     | HF    | HBH | B     | WF   | CUTDIA | OAL   | HBL  | CNT  |
|----------------------|-------|-------|-----|-------|------|--------|-------|------|------|
| THMPR/L 19-D45-JHP   | .750  | .752  | .75 | .750  | .644 | 1.77   | 5.315 | 1.40 | G1/8 |
| THMPR/L 25.4-D45-JHP | 1.000 | 1.004 | .50 | 1.000 | .896 | 1.77   | 5.315 | 1.40 | G1/8 |

**Spare Parts**

| Designation     |                         |        |                  |        |
|-----------------|-------------------------|--------|------------------|--------|
| THMPR/L D45-JHP | SR M3X8 ISO 14580 BLACK | T-10/5 | PLG 1/8BSP TL360 | HW 5.0 |

**ADMP D45**  
Parting and Grooving Adapters  
With 5 Pockets for TANG-GRIP  
Tangentially Clamped Inserts.

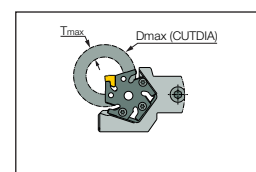


| Designation  | CWN <sup>m</sup> | CWX <sup>m</sup> | WB   | D     | CUTDIA | Insert |
|--------------|------------------|------------------|------|-------|--------|--------|
| ADMP D45-2.0 | .071             | .094             | .063 | 1.654 | 1.77   | TAG 2  |
| ADMP D45-3.0 | .110             | .138             | .098 | 1.654 | 1.77   | TAG 3  |

<sup>m</sup> Minimum cutting width

<sup>m</sup> Maximum cutting width

| DESIGNATION | THMPR/L...-D45-JHP Tmax. to Dmax. |       |       |       |       |       |       |       |       |  |
|-------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Tmax.       | ≤.12"                             | ≤.16" | ≤.2"  | ≤.24" | ≤.27" | ≤.31" | ≤.35" | ≤.39" | ≤.88" |  |
| Dmax.       | 3.35"                             | 3.15" | 2.95" | 2.75" | 2.56" | 2.36" | 2.16" | 1.97" | 1.77" |  |

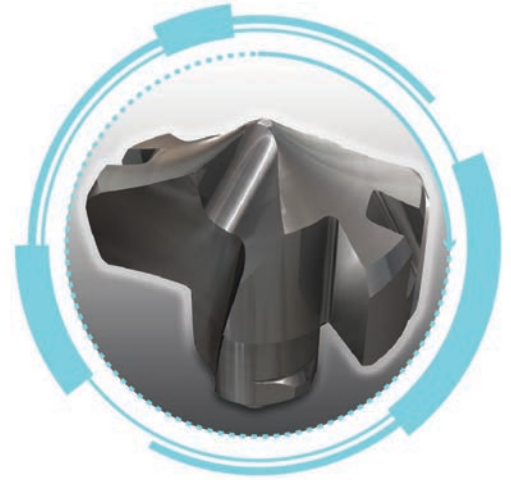


**Spare Parts**

| Designation  |             |
|--------------|-------------|
| ADMP D45-2.0 | ETG 2*      |
| ADMP D45-3.0 | ETG 3-4-SH* |

\* Optional, should be ordered separately

The **SUMOCHAM** drill line comprises a revolutionary clamping system for precise machining and high productivity. The wide variety of exchangeable heads provides solutions for drilling all types of materials and applications. **SUMOCHAM** is the most productive and profitable solution for the holmaking industry.



### Purchase

6 ICP/ICK/ICM/HCP/FCP/ICG/QCP,  
Assorted Inserts (of the same size)  
+ Corresponding Drill Body

### Receive 20%

**Additional Discount on the whole package-  
tool and inserts,** up to 8XD





**3 Effective Cutting Edges**  
**Dia 25.9-12 mm**  
**Drilling Master**

Available in Diameter Range of 12-25.9 mm with 3 & 5xD Body Overhang



Self Centering  
Insert



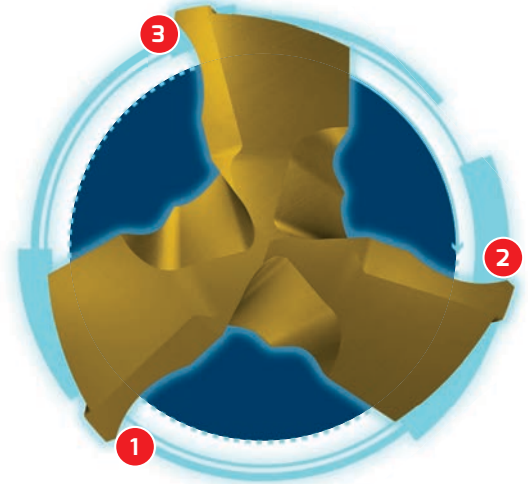
For Steel &  
Cast Iron



High Productivity



Cost Effective  
Insert



**Purchase**

6 Inserts size 0.591"~0.744",  
Assorted Inserts (of the same size)  
+ Corresponding Drill Body

**Receive 75%**  
**Additional Discount**  
on Drill Body up to 5XD



- More flutes in relation to cutting diameter, spiral flutes reduce cutting forces
- Sharp ground helical cutting edges
- Low cutting forces
- Short machining time
- Thread diameter accuracy adjustment
- Thread milling next to bottom of blind hole
- Bottom thread relief not required
- Excellent and controlled thread surface finish
- No problem with broken taps
- One tool is suitable for various thread milling profiles
- Easy and efficient machining for thread milling on CNC milling centers



## Purchase

2 Solid Carbide Mill Thread Assorted Tools

**Receive 15%  
Additional Discount**



## Purchase

4 Solid Carbide Mill Thread Assorted Tools

**Receive 25%  
Additional Discount**





## Double Sided Insert with 4 Positive Cutting Edges

ISCAR introduces new double-sided inserts with 4 unique cutting edges as an advantageous alternative to the conventional ISO standard positive inserts with 2 cutting edges.



Medium Finish



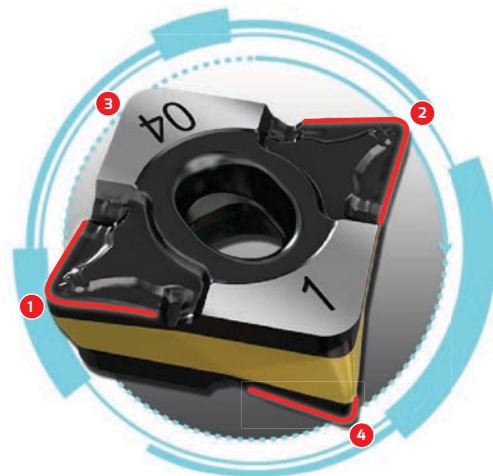
Double Sided  
Insert



Dovetail



Positive Rake  
Insert



### Purchase

20 CXMG 09 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding External Holder

\* JHP Holders are not included



### Purchase

30 CNGX 09 Assorted Inserts

**Receive**

External Holder

**Free of Charge**

**OR**

Internal Holder at

**50% Additional Discount**







## Purchase

20 CXMG 12 Assorted Inserts

**Receive 50%  
Additional Discount**

on the Corresponding External Holder

\* JHP Holders are not included



## Purchase

30 CNGX 12 Assorted Inserts

**Receive**

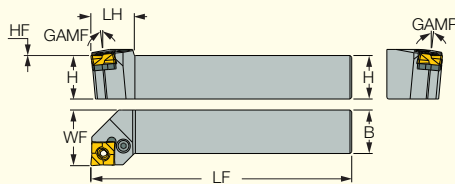
Corresponding External Holder

**Free of Charge**

\* JHP Holders are not included

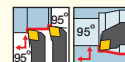
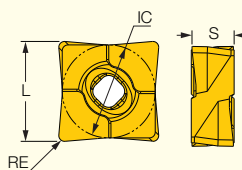


**PCLXR/L**

 Lever Lock Tools Carrying the  
 CXMG 80° Rhombic Inserts


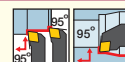
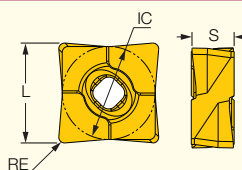
| Designation          | B     | H     | HF    | LF    | LH    | WF    | GAMP | GAMF | Insert    |
|----------------------|-------|-------|-------|-------|-------|-------|------|------|-----------|
| <b>PCLXR/L 08-3X</b> | .500  | .500  | .500  | 3.250 | .875  | .625  | 6.0  | 6.0  | CXMG 09.. |
| <b>PCLXR/L 10-3X</b> | .625  | .625  | .625  | 4.000 | .800  | .800  | 6.0  | 6.0  | CXMG 09.. |
| <b>PCLXR/L 12-4X</b> | .750  | .750  | .750  | 4.500 | 1.000 | 1.000 | 6.0  | 6.0  | CXMG 12.. |
| <b>PCLXR/L 16-4X</b> | 1.000 | 1.000 | 1.000 | 6.000 | 1.000 | 1.250 | 6.0  | 6.0  | CXMG 12.. |

**CXMG-F3M**

 80° Double-Sided and Double-Positive  
 Inserts with a Positive Rake for  
 Finishing on Stainless Steel and H.T.A.


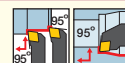
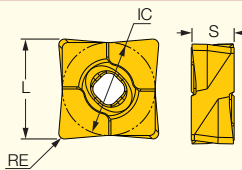
| Designation            | Dimensions |      |      |       | Tough ↔ Hard |       |       | Recommended | Machining Data |
|------------------------|------------|------|------|-------|--------------|-------|-------|-------------|----------------|
|                        | L          | IC   | S    | RE    | IC6025       | IC806 | IC807 | a<br>(inch) | f<br>(IPR)     |
| <b>CXMG 090404-F3M</b> | .409       | .382 | .183 | .0157 | •            | •     | •     | .016-.079   | .0020-.0098    |
| <b>CXMG 12T504-F3M</b> | .544       | .504 | .228 | .0157 | •            | •     | •     | .016-.079   | .0020-.0098    |
| <b>CXMG 12T508-F3M</b> | .541       | .504 | .228 | .0315 | •            | •     | •     | .031-.079   | .0020-.0098    |

**CXMG-F3P**

 80° Double-Sided and Double-  
 Positive Inserts with a Positive Rake  
 for Finishing on Alloyed Steel


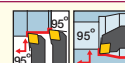
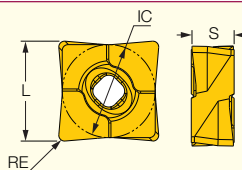
| Designation            | Dimensions |      |      |       | IC8150 | Recommended |             | Machining Data |
|------------------------|------------|------|------|-------|--------|-------------|-------------|----------------|
|                        | L          | IC   | S    | RE    |        | a<br>(inch) | f<br>(IPR)  |                |
| <b>CXMG 090404-F3P</b> | .409       | .382 | .183 | .0157 | •      | .016-.079   | .0020-.0098 |                |
| <b>CXMG 12T504-F3P</b> | .544       | .504 | .228 | .0157 | •      | .016-.079   | .0020-.0098 |                |
| <b>CXMG 12T508-F3P</b> | .541       | .504 | .228 | .0315 | •      | .016-.079   | .0020-.0098 |                |

**CXMG-M3M**

 80° Double-Sided and Double-  
 Positive Inserts with a Positive  
 Rake for Medium Machining on  
 Stainless Steel and H.T.A.


| Designation            | Dimensions |       |      |      | Tough ↔ Hard |       |       | Recommended | Machining Data |
|------------------------|------------|-------|------|------|--------------|-------|-------|-------------|----------------|
|                        | L          | RE    | S    | IC   | IC6025       | IC806 | IC807 | a<br>(inch) | f<br>(IPR)     |
| <b>CXMG 090408-M3M</b> | .406       | .0315 | .183 | .382 | •            | •     | •     | .031-.118   | .0059-.0197    |
| <b>CXMG 12T508-M3M</b> | .541       | .0315 | .228 | .504 | •            | •     | •     | .031-.197   | .0059-.0197    |
| <b>CXMG 12T512-M3M</b> | .539       | .0472 | .228 | .504 | •            | •     | •     | .047-.197   | .0059-.0197    |

**CXMG-M3P**

 80° Double-Sided and Double-Positive  
 Inserts with a Positive Rake for  
 Medium Machining on Alloyed Steel


| Designation            | Dimensions |      |      |       | Tough ↔ Hard |        | Recommended |             | Machining Data |
|------------------------|------------|------|------|-------|--------------|--------|-------------|-------------|----------------|
|                        | L          | IC   | S    | RE    | IC8250       | IC8150 | a<br>(inch) | f<br>(IPR)  |                |
| <b>CXMG 090408-M3P</b> | .406       | .382 | .183 | .0315 | •            | •      | .031-.118   | .0039-.0197 |                |
| <b>CXMG 12T508-M3P</b> | .541       | .504 | .228 | .0315 | •            | •      | .031-.197   | .0039-.0197 |                |
| <b>CXMG 12T512-M3P</b> | .539       | .504 | .228 | .0472 | •            | •      | .047-.197   | .0039-.0197 |                |

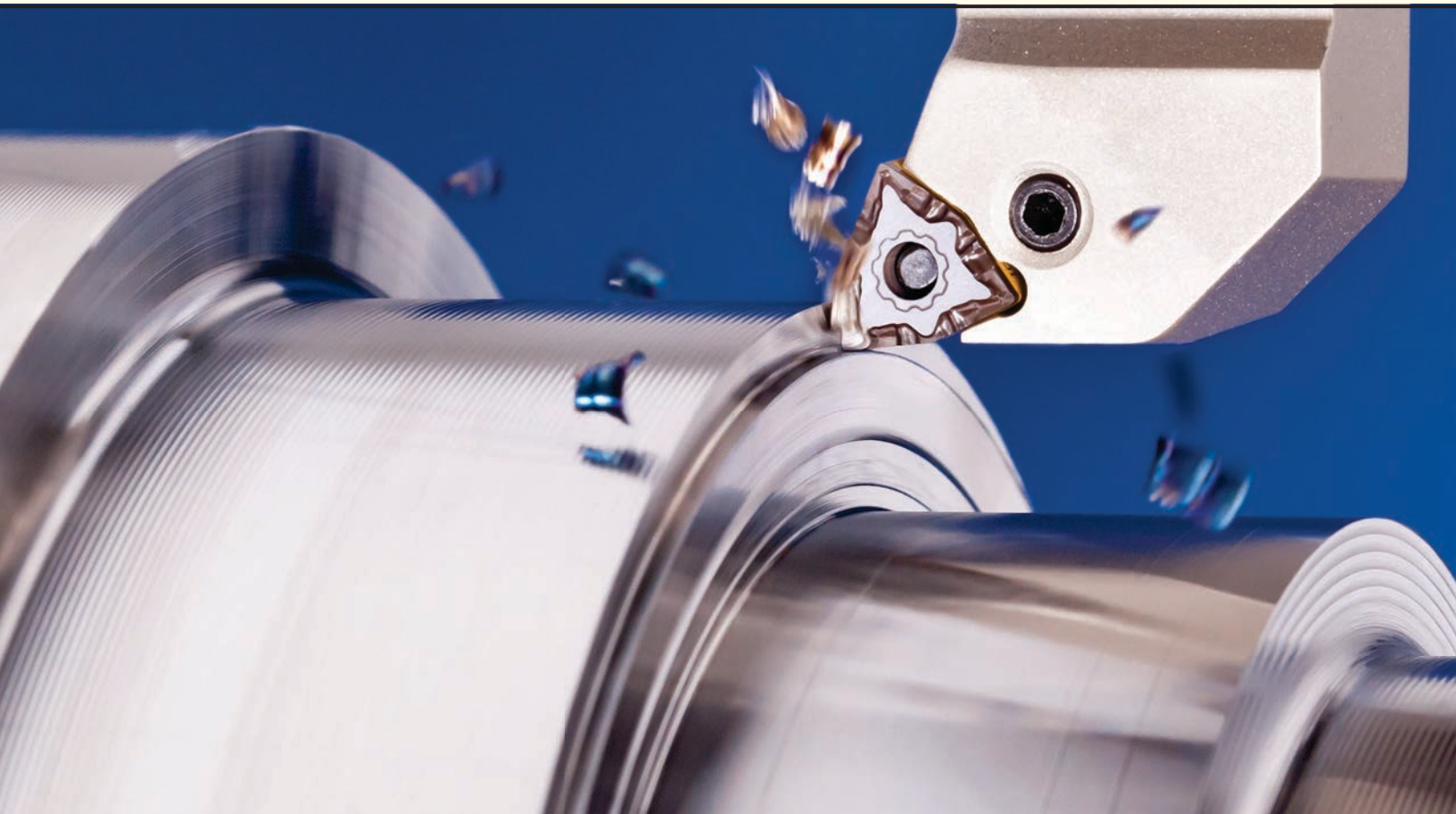
ISO standard tools perform most of the industry's chip removal. The applications range from finishing to roughing. As a full-line supplier of metalworking tools, ISCAR naturally provides the full ISO range of quality tools. All standard geometries are supplied, including the most popular trigon shape. These semi-triangular turning inserts are used for axial and face turning and feature six 80° corner cutting edges, saving production time and costs while maximizing insert life. ISCAR offers a variety of unique chipformer and grade combinations that provide solutions to most of modern industry's machining needs.



## Purchase

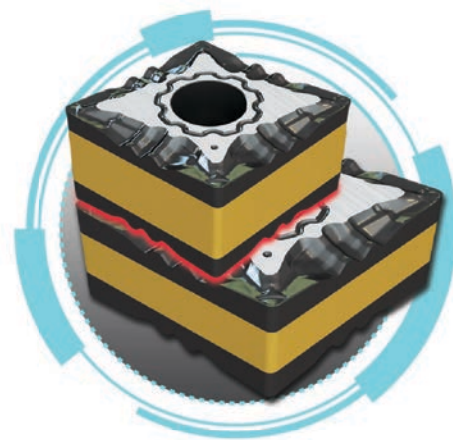
50 CNMG 43... / WNMG 43...  
CVD/PVD Assorted Inserts

**Receive 15%**  
**Additional Discount**





In many turning applications, people tend to use larger inserts than are actually required for the machining parameters being applied. To fill the niche, ISCAR is introducing a wide range of **ISOTURN** small sized inserts, which provide an economical advantage per cutting edge. The new inserts are available in a wide range of geometries, corner radii, new chipformers and the most advanced **SUMO TEC** carbide grades.



### Purchase

50 Assorted Inserts

**Receive 15%**  
**Additional Discount**



# Become an **INDUSTRY 4.0 Master!**



## ISCAR's Easy to Use **Digital World of Applications**

### Web Apps



### Mobile Apps

