

NEW PRODUCT NEWS

T-THREAD

expansion

NEW B-TYPE THREADING INSERTS



T-THREAD

New B-type threading inserts

FEATURES

- Combination of M-type and regular type inserts
- Molded chipbreaker with sharp cutting edges lower cutting force
- Solution for stainless steels, high temperature alloys and mild steel
- Improved chip breaking and better chip evacuation
- Better surface quality
- Economical choice

Now available from TaeguTec, a new threading insert with chip breaker for internal and external machining.

The new line combines the characteristics of both “M” type and regular inserts into one insert-a “B” type threading insert for both internal and external thread turning.

This new “B” type design includes a molded chip breaker with a sharp cutting edge for improved chipbreaking as well as chip evacuation. The combination concept is the optimal solution on stainless steel, high temperature alloys and mild steel achieving better surface quality with economy by reducing tooling cost.



new



B-type

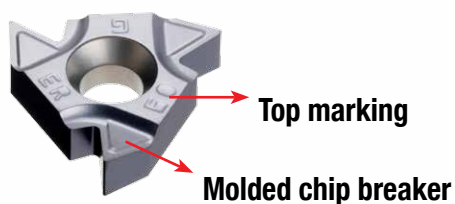


M-type

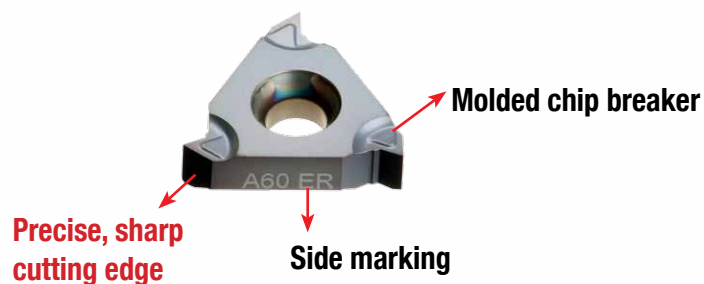


Regular type

M-type



B-type

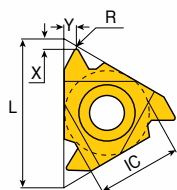


Chip breaker application priorities

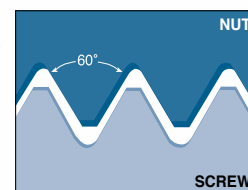
| ISO | Material | Geometries | | |
|-----|---|------------|----------|----------------|
| | | "M" type | "B" type | "Regular" type |
| P | SC < 0.1% steel | 2 | 1 | 3 |
| | Carbon steel | 1 | 2 | 3 |
| | Low alloy steel | 1 | 2 | 3 |
| | High alloy steel | 1 | 2 | 3 |
| | Cast steel | 1 | 2 | 3 |
| M | Stainless steel | 2 | 1 | 3 |
| K | Cast iron | 1 | 2 | 3 |
| N | Aluminum and Non-ferrous | 1 | 2 | 3 |
| S | Heat resistant alloys / Titanium alloys | 2 | 1 | 3 |
| H | Hard materials | 1 | 2 | 3 |

• 1 = 1st choice / 2 = 2nd choice / 3 = 3rd choice

Partial profile 60°

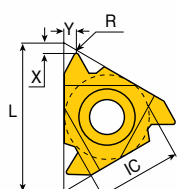


Application:
General industry

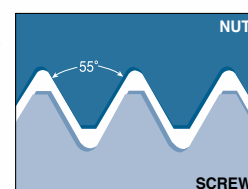


| Thread Form | Designation | IC | Pitch | | Dimension (mm) | | | | Grade |
|-------------|--------------------|------|------------|---------|----------------|------|-----|-----|--------|
| | Right hand | | mm | TPI | L | R | X | Y | TT9030 |
| External | 16ERB A 60 | 3/8" | 0.5 - 1.5 | 48 - 16 | 16 | 0.05 | 0.8 | 0.9 | • |
| | 16ERB AG 60 | | 0.5 - 3.0 | 48 - 8 | 16 | 0.05 | 1.2 | 1.7 | • |
| | 16ERB G 60 | | 1.75 - 3.0 | 14 - 8 | 16 | 0.17 | 1.2 | 1.7 | • |
| Internal | 16IRB A 60 | | 0.5 - 1.5 | 48 - 16 | 16 | 0.05 | 0.8 | 0.9 | • |
| | 16IRB AG 60 | | 0.5 - 3.0 | 48 - 8 | 16 | 0.05 | 1.2 | 1.7 | • |
| | 16IRB G 60 | | 1.75 - 3.0 | 14 - 8 | 16 | 0.12 | 1.2 | 1.7 | • |

Partial profile 55°

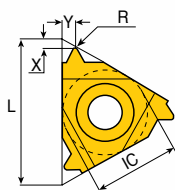


Application:
General industry

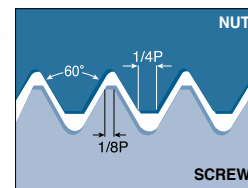


| Thread Form | Designation | IC | Pitch | | Dimension (mm) | | | | Grade |
|-------------|--------------------|------|------------|--------|----------------|------|-----|-----|--------|
| | Right hand | | mm | TPI | L | R | X | Y | TT9030 |
| External | 16ERB AG 55 | 3/8" | 0.5 - 3.0 | 48 - 8 | 16 | 0.05 | 1.2 | 1.7 | • |
| | 16ERB G 55 | | 1.75 - 3.0 | 14 - 8 | 16 | 0.2 | 1.2 | 1.7 | • |
| Internal | 16IRB AG 55 | | 0.5 - 3.0 | 48 - 8 | 16 | 0.05 | 1.2 | 1.7 | • |
| | 16IRB G 55 | | 1.75 - 3.0 | 14 - 8 | 16 | 0.2 | 1.2 | 1.7 | • |

ISO metric full profile



Application:
General industry



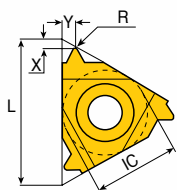
External ISO metric (DIN13 12-1986 class: 6g)

| Designation | IC | Pitch | Dimension (mm) | | | | Grade |
|-----------------------|------|-------|----------------|------|-----|-----|--------|
| | | | mm | L | R | X | |
| Right hand | | | | | | | TT9030 |
| 16ERB 0.80 ISO | 3/8" | 0.8 | 16 | 0.09 | 0.6 | 0.6 | • |
| 16ERB 1.00 ISO | | 1 | 16 | 0.12 | 0.7 | 0.7 | • |
| 16ERB 1.25 ISO | | 1.25 | 16 | 0.15 | 0.8 | 0.9 | • |
| 16ERB 1.50 ISO | | 1.5 | 16 | 0.18 | 0.8 | 1 | • |
| 16ERB 1.75 ISO | | 1.75 | 16 | 0.21 | 0.9 | 1.2 | • |
| 16ERB 2.00 ISO | | 2 | 16 | 0.25 | 1 | 1.3 | • |
| 16ERB 2.50 ISO | | 2.5 | 16 | 0.31 | 1.1 | 1.5 | • |
| 16ERB 3.00 ISO | | 3 | 16 | 0.38 | 1.2 | 1.6 | • |

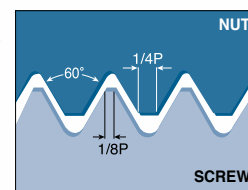
Internal ISO metric (DIN13 12-1986 class: 6H)

| Designation | IC | Pitch | Dimension (mm) | | | | Grade |
|-----------------------|------|-------|----------------|------|-----|-----|--------|
| | | | mm | L | R | X | |
| Right hand | | | | | | | TT9030 |
| 16IRB 1.00 ISO | 3/8" | 1 | 16 | 0.05 | 0.6 | 0.7 | • |
| 16IRB 1.25 ISO | | 1.25 | 16 | 0.07 | 0.8 | 0.9 | • |
| 16IRB 1.50 ISO | | 1.5 | 16 | 0.08 | 0.8 | 1 | • |
| 16IRB 1.75 ISO | | 1.75 | 16 | 0.1 | 0.9 | 1.2 | • |
| 16IRB 2.00 ISO | | 2 | 16 | 0.12 | 1 | 1.3 | • |
| 16IRB 2.50 ISO | | 2.5 | 16 | 0.15 | 1.1 | 1.5 | • |
| 16IRB 3.00 ISO | | 3 | 16 | 0.18 | 1.1 | 1.5 | • |

American UN full profile (UN, UNC, UNF, UNEF)



Application:
General industry



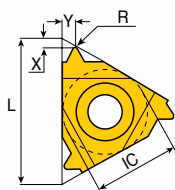
External american UN (ANSI B1, 3M-1986 class: 2A)

| Designation | IC | TPI | Dimension (mm) | | | | Grade |
|--------------------|------|-----|----------------|------|-----|-----|--------|
| | | | L | R | X | Y | |
| Right hand | | | | | | | TT9030 |
| 16ERB 24 UN | 3/8" | 24 | 16 | 0.12 | 0.7 | 0.8 | • |
| 16ERB 20 UN | | 20 | 16 | 0.15 | 0.8 | 0.9 | • |
| 16ERB 18 UN | | 18 | 16 | 0.18 | 0.8 | 1 | • |
| 16ERB 16 UN | | 16 | 16 | 0.18 | 0.9 | 1.1 | • |
| 16ERB 14 UN | | 14 | 16 | 0.22 | 1 | 1.2 | • |
| 16ERB 13 UN | | 13 | 16 | 0.24 | 1 | 1.3 | • |
| 16ERB 12 UN | | 12 | 16 | 0.26 | 1.1 | 1.4 | • |
| 16ERB 11 UN | | 11 | 16 | 0.28 | 1.1 | 1.5 | • |
| 16ERB 10 UN | | 10 | 16 | 0.32 | 1.1 | 1.5 | • |
| 16ERB 9 UN | | 9 | 16 | 0.36 | 1.2 | 1.7 | • |
| 16ERB 8 UN | | 8 | 16 | 0.41 | 1.2 | 1.6 | • |

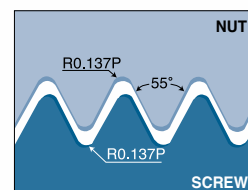
Internal american UN (ANSI B1, 3M-1986 class: 2B)

| Designation | IC | TPI | Dimension (mm) | | | | Grade |
|--------------------|------|-----|----------------|------|-----|-----|--------|
| | | | L | R | X | Y | |
| Right hand | | | | | | | TT9030 |
| 16IRB 24 UN | 3/8" | 24 | 16 | 0.05 | 0.7 | 0.8 | • |
| 16IRB 20 UN | | 20 | 16 | 0.06 | 0.8 | 0.9 | • |
| 16IRB 18 UN | | 18 | 16 | 0.07 | 0.8 | 1 | • |
| 16IRB 16 UN | | 16 | 16 | 0.09 | 0.9 | 1.1 | • |
| 16IRB 14 UN | | 14 | 16 | 0.1 | 0.9 | 1.2 | • |
| 16IRB 10 UN | | 10 | 16 | 0.15 | 1.1 | 1.5 | • |
| 16IRB 8 UN | | 8 | 16 | 0.19 | 1.1 | 1.5 | • |

Whitworth full profile (BSW, BSF, BSP)



Application:
General industry, fittings
and pipe couplings



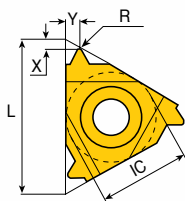
External whitworth (BS 84-1956 DIN 259 medium class)

| Designation | IC | TPI | Dimension (mm) | | | | Grade |
|-------------------|------|-----|----------------|------|-----|-----|--------|
| | | | L | R | X | Y | |
| Right hand | | | | | | | TT9030 |
| 16ERB 19 W | 3/8" | 19 | 16 | 0.15 | 0.8 | 1 | • |
| 16ERB 16 W | | 16 | 16 | 0.18 | 0.9 | 1.1 | • |
| 16ERB 14 W | | 14 | 16 | 0.21 | 1 | 1.2 | • |
| 16ERB 11 W | | 11 | 16 | 0.27 | 1.1 | 1.5 | • |
| 16ERB 10 W | | 10 | 16 | 0.31 | 1.1 | 1.5 | • |

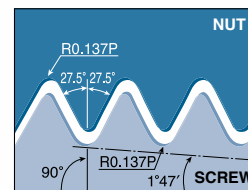
Internal whitworth (BS 84-1956 DIN 259 medium class)

| Designation | IC | TPI | Dimension (mm) | | | | Grade |
|-------------------|------|-----|----------------|------|-----|-----|--------|
| | | | L | R | X | Y | |
| Right hand | | | | | | | TT9030 |
| 16IRB 19 W | 3/8" | 19 | 16 | 0.15 | 0.8 | 1 | • |
| 16IRB 16 W | | 16 | 16 | 0.18 | 0.9 | 1.1 | • |
| 16IRB 14 W | | 14 | 16 | 0.21 | 1 | 1.2 | • |
| 16IRB 11 W | | 11 | 16 | 0.27 | 1.1 | 1.5 | • |
| 16IRB 10 W | | 10 | 16 | 0.31 | 1.1 | 1.5 | • |

BSPT (British Standard Pipe Tapered Thread) full profile



Application:
Steam, gas and
water pipes

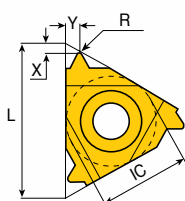


BS 21-1957

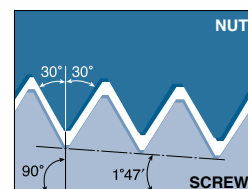
| Thread form | Designation | IC | TPI | Dimension (mm) | | | | Grade |
|-------------|----------------------|------|-----|----------------|------|---|-----|-------|
| | Right hand | | | L | R | X | Y | |
| External | 16ERB 14 BSPT | 3/8" | 14 | 16 | 0.21 | 1 | 1.2 | • |
| | 16ERB 11 BSPT | | 11 | 16 | 0.28 | 1 | 1.5 | • |
| Internal | 16IRB 14 BSPT | | 14 | 16 | 0.21 | 1 | 1.2 | • |
| | 16IRB 11 BSPT | | 11 | 16 | 0.28 | 1 | 1.5 | • |

NPT (National Pipe Tapered Thread) full profile

ANSI / ASME B 1.20.1-1983



Application:
Steam, gas and
water pipes



| Thread form | Designation | IC | TPI | Dimension (mm) | | | | Grade |
|-------------|-----------------------|------|------|----------------|------|-----|-----|-------|
| | Right hand | | | L | R | X | Y | |
| External | 16ERB 18 NPT | 3/8" | 18 | 16 | 0.06 | 0.8 | 1 | • |
| | 16ERB 14 NPT | | 14 | 16 | 0.07 | 0.9 | 1.2 | • |
| | 16ERB 11.5 NPT | | 11.5 | 16 | 0.09 | 1.1 | 1.5 | • |
| | 16ERB 8 NPT | | 8 | 16 | 0.12 | 1.3 | 1.8 | • |
| Internal | 16IRB 14 NPT | | 14 | 16 | 0.07 | 0.9 | 1.2 | • |
| | 16IRB 11.5 NPT | | 11.5 | 16 | 0.09 | 1.1 | 1.5 | • |
| | 16IRB 8 NPT | | 8 | 16 | 0.12 | 1.3 | 1.8 | • |