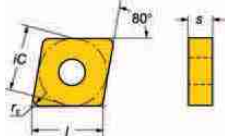




**A**

TORNEADO GENERAL      Plaquetas negativas

**T-Max P**



Para las dimensiones, ver clave de códigos en la página A16.

**B**

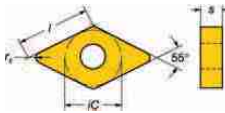
Rómbica 80°

**C**

|                   | ISO               | T  | iC  | P    |      | M    |      | K   |     | S   |              | ANSI         |     |     |     |
|-------------------|-------------------|----|-----|------|------|------|------|-----|-----|-----|--------------|--------------|-----|-----|-----|
|                   |                   |    |     | GC15 | GC30 | GC15 | GC30 | K05 | K10 | K15 | K40          |              | S15 | S20 | S25 |
| Acabado           | CNMG 12 04 04-XF  | 12 | 1/2 | ★    | ★    | ★    | ★    |     |     |     |              | CNMG 431-XF  |     |     |     |
|                   | CNMG 12 04 08-XF  |    |     | ★    | ★    | ★    | ★    |     |     |     |              | CNMG 432-XF  |     |     |     |
| Medio             | CNMG 12 04 04-XM  | 12 | 1/2 | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 431-XM  |     |     |     |
|                   | CNMG 12 04 08-XM  |    |     | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 432-XM  |     |     |     |
|                   | CNMG 12 04 12-XM  |    |     | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 433-XM  |     |     |     |
| Desbaste          | CNMG 12 04 08-XMR | 12 | 1/2 | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 432-XMR |     |     |     |
|                   | CNMG 12 04 12-XMR |    |     | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 433-XMR |     |     |     |
|                   | CNMG 12 04 16-XMR |    |     | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 434-XMR |     |     |     |
|                   | CNMG 16 06 12-XMR | 16 | 5/8 | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 543-XMR |     |     |     |
|                   | CNMG 16 06 16-XMR |    |     | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 544-XMR |     |     |     |
|                   | CNMG 19 06 12-XMR | 19 | 3/4 | ★    | ★    | ★    | ★    |     |     |     | ★            | CNMG 643-XMR |     |     |     |
| CNMG 19 06 16-XMR |                   |    | ★   | ★    | ★    | ★    |      |     |     | ★   | CNMG 644-XMR |              |     |     |     |

★ = Primera elección

**H**

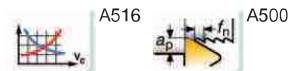


Rómbica 55°

**I**

|         | ISO              | T  | iC  | P    |      | M    |      | K   |     | S   |     | ANSI        |     |     |
|---------|------------------|----|-----|------|------|------|------|-----|-----|-----|-----|-------------|-----|-----|
|         |                  |    |     | GC15 | GC30 | GC15 | GC30 | K05 | K10 | K15 | K40 |             | S15 | S20 |
| Acabado | DNMG 15 04 04-XF | 15 | 1/2 | ★    | ★    | ★    | ★    |     |     |     |     | DNMG 431-XF |     |     |
|         | DNMG 15 04 08-XF |    |     | ★    | ★    | ★    | ★    |     |     |     |     | DNMG 432-XF |     |     |
|         | DNMG 15 06 04-XF |    |     | ★    | ★    | ★    | ★    |     |     |     |     | DNMG 441-XF |     |     |
|         | DNMG 15 06 08-XF |    |     | ★    | ★    | ★    | ★    |     |     |     |     | DNMG 442-XF |     |     |
| Medio   | DNMG 15 04 04-XM | 15 | 1/2 | ★    | ★    | ★    | ★    |     |     |     | ★   | DNMG 431-XM |     |     |
|         | DNMG 15 04 08-XM |    |     | ★    | ★    | ★    | ★    |     |     |     | ★   | DNMG 432-XM |     |     |
|         | DNMG 15 06 04-XM |    |     | ★    | ★    | ★    | ★    |     |     |     | ★   | DNMG 441-XM |     |     |
|         | DNMG 15 06 08-XM |    |     | ★    | ★    | ★    | ★    |     |     |     | ★   | DNMG 442-XM |     |     |

★ = Primera elección



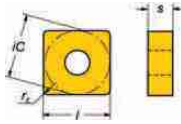


IURN - SPA

Plaquitas negativas TORNEADO GENERAL

A

**T-Max P**

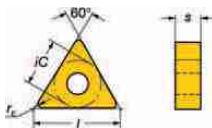


Para las dimensiones, ver clave de códigos en la página A16.

**Cuadradas**

|                 | ISO               | iC     | Material |      |      |      |      |      |      |       |      |      |      |      | ANSI |      |      |      |      |      |   |
|-----------------|-------------------|--------|----------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|---|
|                 |                   |        | P        | M    | K    |      | S    |      |      | Other |      |      |      |      |      |      |      |      |      |      |   |
|                 |                   |        | GC15     | GC30 | GC35 | GC15 | GC30 | GC35 | GC15 | GC30  | GC35 | GC15 | GC30 | GC35 | GC15 | GC30 | GC35 | GC15 | GC30 | GC35 |   |
| <b>Medio</b>    | SNMG 12 04 08-XM  | 12 1/2 | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                 | SNMG 12 04 12-XM  |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
| <b>Desbaste</b> | SNMG 12 04 08-XMR | 12 1/2 | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                 | SNMG 12 04 12-XMR |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                 | SNMG 12 04 16-XMR |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                 | SNMG 19 06 12-XMR | 19 3/4 | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                 |                   |        |          |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |   |
|                 |                   |        |          |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |   |

★ = Primera elección



**Triangulares**

|                | ISO              | iC     | Material |      |      |      |      |      |      |       |      |      |      |      | ANSI |      |      |      |      |      |   |
|----------------|------------------|--------|----------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|---|
|                |                  |        | P        | M    | K    |      | S    |      |      | Other |      |      |      |      |      |      |      |      |      |      |   |
|                |                  |        | GC15     | GC30 | GC35 | GC15 | GC30 | GC35 | GC15 | GC30  | GC35 | GC15 | GC30 | GC35 | GC15 | GC30 | GC35 | GC15 | GC30 | GC35 |   |
| <b>Acabado</b> | TNMG 16 04 04-XF | 16 3/8 | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                | TNMG 16 04 08-XF |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                | TNMG 16 04 12-XF |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
| <b>Medio</b>   | TNMG 16 04 04-XM | 16 3/8 | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                | TNMG 16 04 08-XM |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                | TNMG 16 04 12-XM |        | *        | *    | *    | *    | *    | *    | *    | *     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | * |
|                |                  |        |          |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |   |
|                |                  |        |          |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |   |

★ = Primera elección

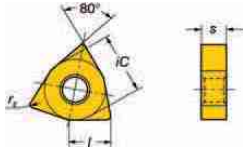




A

TORNEADO GENERAL      Plaquitas negativas

**T-Max P**



Para las dimensiones, ver clave de códigos en la página A16.

B

Trigonales 80°

C

|         | ISO               | iC | iC  | P    | M    | K    | S    | ANSI |              |      |      |      |      |
|---------|-------------------|----|-----|------|------|------|------|------|--------------|------|------|------|------|
|         |                   |    |     | GC15 | GC30 | GC15 | GC30 |      | 3205         | 3210 | 3216 | GC30 | GC15 |
| Acabado | WNUMG 08 04 04-XF | 08 | 1/2 | ☆    | ★    | ☆    | ☆    | ☆    | WNUMG 431-XF |      |      |      |      |
|         | WNUMG 08 04 08-XF |    |     | ☆    | ★    | ☆    | ☆    | ☆    | WNUMG 432-XF |      |      |      |      |
| Medio   | WNUMG 08 04 04-XM | 08 | 1/2 | ☆    | ★    | ☆    | ☆    | ☆    | WNUMG 431-XM |      |      |      |      |
|         | WNUMG 08 04 08-XM |    |     | ☆    | ★    | ☆    | ☆    | ☆    | WNUMG 432-XM |      |      |      |      |
|         | WNUMG 08 04 12-XM |    |     | ☆    | ★    | ☆    | ☆    | ☆    | WNUMG 433-XM |      |      |      |      |
|         |                   |    |     | P20  | P30  | M15  | M20  | K05  | K10          | K15  | K40  | S20  |      |

★ = Primera elección

H

I

J



A516



A500

A 70



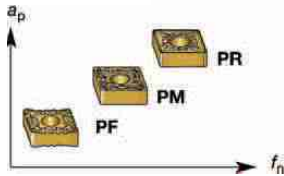


# T-Max P

## Plaquitas de forma básica negativas

Para operaciones de torneado exterior e interior

Las plaquitas T-Max P cumplen con las normas ISO y están disponibles en todos los tipos de formas de plaquita



### Geometrías de plaquita

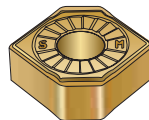
Especiales para:

- Avance y profundidad variables en el área de corte
- Diferentes materiales de pieza

### Calidades de la plaquita

Calidades modernas y productivas, con y sin recubrimiento, para todas las áreas de materiales ISO

- Metal duro cementado
- Cermet
- Cerámica
- Nitruro de boro cúbico



Disponibles en la gama de calidades para torneado de acero: GC4205, GC4215, GC4225 y GC4235.



### Tecnología Wiper

Las impulsoras de la productividad de Sandvik Coromant.

- Doble avance - mismo acabado superficial
- Mismo avance - acabado superficial el doble de bueno

### Soluciones innovadoras, Xcel

Una novedosa solución de herramienta para torneado escalonado especialmente en titanio y superaleaciones termorresistentes. Xcel combina una multitud de ventajas en diseño que, hasta ahora, no estaban disponibles en una única herramienta.

Áreas de aplicación ISO:



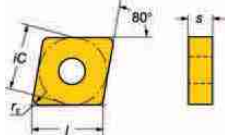


A

TORNEADO GENERAL      Plaquetas negativas

**T-Max P**

Rómbica 80°



Para las dimensiones, ver clave de códigos en la página A16.

B

C

G

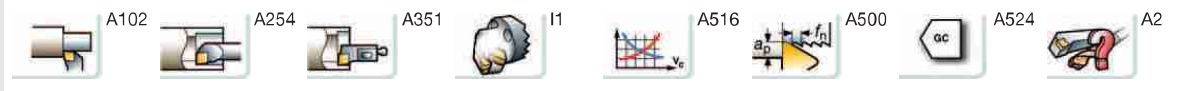
H

I

J

|                      | ISO              | iC | P    |      |      |      |      |      | M    |      |      |      | K    |     | N    |      | S    |      |      |      | ANSI |      |      |      |      |      |              |
|----------------------|------------------|----|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|--------------|
|                      |                  |    | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 2015 | 2025 | 2035 | 235 | 3005 | 3210 | 3215 | HT3A | HT3A | 1005 |      | 1105 | 1115 | 1125 | HT3A | HT3A | S05F         |
| <br>CNMG-WF<br>Wiper | CNMG 09 03 04-WF | 09 | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 321-WF  |
|                      | CNMG 09 03 08-WF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 322-WF  |
|                      | CNMG 12 04 04-WF | 12 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |      | CNMG 431-WF  |
|                      | CNMG 12 04 08-WF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |      | CNMG 432-WF  |
|                      | CNMG 12 04 12-WF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |      | CNMG 433-WF  |
| <br>CNMG-WL<br>Wiper | CNMG 12 04 04-WL | 12 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    |      | ☆    |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 431-WL  |
|                      | CNMG 12 04 08-WL |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      | ☆    |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 432-WL  |
| <br>CNMG-PF          | CNMG 09 03 04-PF | 09 | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 321-PF  |
|                      | CNMG 09 03 08-PF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 322-PF  |
|                      | CNMG 12 04 04-PF | 12 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 431-PF  |
|                      | CNMG 12 04 08-PF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 432-PF  |
| <br>CNMG-MF          | CNMG 12 04 12-PF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 433-PF  |
|                      | CNMG 12 04 04-MF | 12 | 1/2  |      |      |      |      |      | ☆    | ☆    | ☆    |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNMG 431-MF  |
|                      | CNMG 12 04 08-MF |    |      |      |      |      |      |      | ☆    | ☆    | ☆    |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNMG 432-MF  |
|                      | CNMG 12 04 12-MF |    |      |      |      |      |      |      | ☆    | ☆    | ☆    |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNMG 433-MF  |
| <br>CNMG-KF          | CNMG 12 04 04-KF | 12 | 1/2  |      |      |      |      |      |      |      |      |      |      | ☆   | ☆    |      |      |      |      |      |      |      |      |      |      |      | CNMG 431-KF  |
|                      | CNMG 12 04 08-KF |    |      |      |      |      |      |      |      |      |      |      |      | ☆   | ☆    |      |      |      |      |      |      |      |      |      |      |      | CNMG 432-KF  |
|                      | CNMG 12 04 12-KF |    |      |      |      |      |      |      |      |      |      |      |      | ☆   | ☆    |      |      |      |      |      |      |      |      |      |      |      | CNMG 433-KF  |
| <br>CNMG-SF          | CNMG120404-SF    | 12 | 1/2  |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNMG 431-SF  |
|                      | CNMG120408-SF    |    |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNMG 432-SF  |
|                      | CNMG120412-SF    |    |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNMG 433-SF  |
| <br>CNGG-SGF         | CNGG120404-SGF   | 12 | 1/2  |      |      |      |      |      | ☆    | ☆    |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNGG 431-SGF |
|                      | CNGG120408-SGF   |    |      |      |      |      |      |      | ☆    | ☆    |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNGG 432-SGF |
|                      | CNGG120412-SGF   |    |      |      |      |      |      |      | ☆    | ☆    |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      | ☆    | ☆    |      | CNGG 433-SGF |
| <br>CNMG-LC          | CNMG 12 04 04-LC | 12 | 1/2  | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 431-LC  |
|                      | CNMG 12 04 08-LC |    |      | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | CNMG 432-LC  |

★ = Primera elección



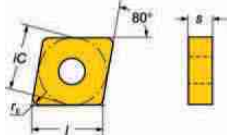


IURN - SPA

Plaquetas negativas TORNEADO GENERAL

**T-Max P**

Rómbica 80°



Para las dimensiones, ver clave de códigos en la página A16.

| Acabado | ISO      | ISO     | IC  | P    |      |      |      | M    |      |      |      | K    |      |      |      | N    |      |      |      | S    |      |      |      | ANSI |             |             |              |              |              |             |
|---------|----------|---------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|--------------|--------------|--------------|-------------|
|         |          |         |     | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 3035 | 3205 | 3210 | 3215 | HT3A | HT3A | 1005 | 1105 |      | 1115        | 1125        | HT0A         | HT3A         | S05F         |             |
| Acabado | CNMG-QF  | 12      | 1/2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |             |              | CNMG 431-QF  |              |             |
|         |          |         |     |      |      |      | *    | *    | *    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |             |              |              |              | CNMG 432-QF |
|         |          |         |     |      |      |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |      |      |      |      |      |      |      |             |             |              |              |              |             |
| Acabado | CNGP     | 12      | 1/2 |      |      |      |      |      | *    |      |      |      |      |      |      |      |      |      | *    | *    | *    | *    | *    |      |             |             | CNGP 43(0.3) |              |              |             |
|         |          |         |     |      |      |      |      |      |      | *    |      |      |      |      |      |      |      |      |      |      |      | *    | *    | *    | *           | *           |              |              | CNGP 430     |             |
| Acabado | CNMG-MF* | 09      | 3/8 |      |      |      |      |      | *    |      |      |      |      | *    | *    |      |      |      |      |      |      |      |      |      |             |             | CNMG 321-MF  |              |              |             |
|         |          |         |     |      |      |      |      |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |      |      |      |      |      |             |             |              |              | CNMG 322-MF  |             |
|         |          | 12      | 1/2 |      |      | *    | *    | *    | *    | *    |      |      |      |      | *    | *    |      |      |      |      |      |      |      |      |             |             |              | CNMG 431-MF  |              |             |
|         |          |         |     |      |      | *    | *    | *    | *    | *    | *    |      |      |      | *    | *    |      |      |      |      |      |      |      | *    | *           |             |              | CNMG 432-MF  |              |             |
|         |          |         |     |      |      | *    | *    | *    | *    | *    | *    | *    |      |      | *    | *    |      |      |      |      |      |      |      | *    | *           |             |              | CNMG 433-MF  |              |             |
|         |          |         |     |      |      |      |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | CNMG 434-MF |              |              |              |             |
| Acabado | CNMG-WMX | 12      | 1/2 |      | *    | *    | *    | *    |      | *    |      |      |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |             |             | CNMG 432-WMX |              |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | *            | CNMG 433-WMX |             |
|         |          | 16      | 5/8 |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | CNMG 542-WMX |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | *            | CNMG 543-WMX |             |
| Medio   | CNMG-WM  | 12      | 1/2 |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 432-WM  |              |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | *            | CNMG 433-WM  |             |
|         | 16       | 5/8     |     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | CNMG 542-WM |              |              |              |             |
|         |          |         |     | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 543-WM  |              |              |             |
|         | Medio    | CNMG-PM | 09  | 3/8  |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 321-PM  |              |              |             |
|         |          |         |     |      |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | *            | CNMG 322-PM  |             |
|         |          |         | 12  | 1/2  |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | CNMG 431-PM  |              |             |
|         |          |         |     |      |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | *            | CNMG 432-PM  |             |
| 16      |          |         | 5/8 |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 433-PM  |              |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | CNMG 434-PM  |              |             |
| 19      | 3/4      |         | *   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | CNMG 542-PM |             |              |              |              |             |
|         |          |         | *   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | CNMG 543-PM |              |              |              |             |
| Medio   | CNMG-MM  | 12      | 1/2 |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | CNMG 432-MM |              |              |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | CNMG 433-MM  |              |             |
|         |          | 16      | 5/8 |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | CNMG 434-MM |              |              |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | CNMG 542-MM  |              |             |
|         |          | 19      | 3/4 |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 543-MM  |              |              |             |
|         |          |         |     |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | *            | CNMG 544-MM  |              |             |
|         |          |         |     |      |      |      |      |      |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 642-MM  |              |              |             |
|         |          |         |     |      |      |      |      |      |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | *           | CNMG 643-MM  |              |              |             |
|         |          |         |     |      |      |      |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | CNMG 644-MM |             |              |              |              |             |

\* Geometría específica para acabado de materiales pastosos.

\* = Primera elección





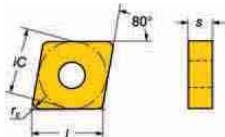


IURN - SPA

Plaquetas negativas TORNEADO GENERAL

**T-Max P**

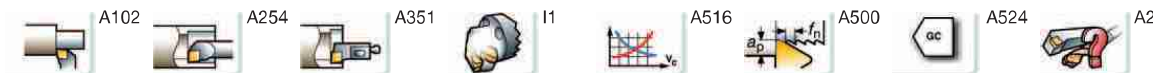
Rómbica 80°



Para las dimensiones, ver clave de códigos en la página A16.

| Medio                       | ISO              | F  | IC  | P  |    |    |    |    |    |    | M  |    |    |    | K  |    |    | N  |    | S  |    |    |    | ANSI        |             |
|-----------------------------|------------------|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------|-------------|
|                             |                  |    |     | ac | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc | cc |             | cc          |
| <br>CNMG-HM                 | CNMG 16 06 12-HM | 16 | 5/8 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 543-HM |             |
|                             | CNMG 16 06 16-HM |    |     | *  | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 544-HM |             |
|                             | CNMG 19 06 12-HM | 19 | 3/4 | *  | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 643-HM |             |
|                             | CNMG 19 06 16-HM |    |     | *  | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 644-HM |             |
|                             | CNMG 19 06 24-HM |    |     |    | *  | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |             | CNMG 646-HM |
| <br>CNMM-WR<br><i>Wiper</i> | CNMM 12 04 08-WR | 12 | 1/2 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 432-WR |             |
|                             | CNMM 12 04 12-WR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 433-WR |             |
|                             | CNMM 12 04 16-WR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 434-WR |             |
|                             | CNMM 16 06 12-WR | 16 | 5/8 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 543-WR |             |
|                             | CNMM 16 06 16-WR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 544-WR |             |
| <br>CNMG-PR                 | CNMG 12 04 08-PR | 12 | 1/2 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 432-PR |             |
|                             | CNMG 12 04 12-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 433-PR |             |
|                             | CNMG 12 04 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 434-PR |             |
|                             | CNMG 16 06 08-PR | 16 | 5/8 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 542-PR |             |
|                             | CNMG 16 06 12-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 543-PR |             |
|                             | CNMG 16 06 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 544-PR |             |
|                             | CNMG 16 06 24-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 546-PR |             |
|                             | CNMG 19 06 08-PR | 19 | 3/4 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | CNMG 642-PR |
|                             | CNMG 19 06 12-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | CNMG 643-PR |
|                             | CNMG 19 06 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | CNMG 644-PR |
| <br>CNMM-PR                 | CNMM 25 09 24-PR | 25 | 1   |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMG 646-PR |             |
|                             | CNMM 12 04 08-PR | 12 | 1/2 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 432-PR |             |
|                             | CNMM 12 04 12-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 433-PR |             |
|                             | CNMM 12 04 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 434-PR |             |
|                             | CNMM 16 06 08-PR | 16 | 5/8 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 542-PR |             |
| <br>CNMG-MR                 | CNMM 16 06 12-PR | 16 | 5/8 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 543-PR |             |
|                             | CNMM 16 06 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 544-PR |             |
|                             | CNMM 16 06 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 544-PR |             |
|                             | CNMM 19 06 12-PR | 19 | 3/4 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 643-PR |             |
|                             | CNMM 19 06 16-PR |    |     |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 644-PR |             |
| <br>CNMM-MR                 | CNMM 19 06 24-PR | 19 | 3/4 |    | *  | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | CNMM 646-PR |             |
|                             | CNMG 12 04 08-MR | 12 | 1/2 |    |    |    |    |    |    | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    | CNMG 432-MR |             |
|                             | CNMG 12 04 12-MR |    |     |    |    |    |    |    |    | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    | CNMG 433-MR |             |
|                             | CNMG 12 04 16-MR |    |     |    |    |    |    |    |    | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    | CNMG 434-MR |             |
|                             | CNMG 16 06 12-MR | 16 | 5/8 |    |    |    |    |    |    | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    | CNMG 543-MR |             |

★ = Primera elección





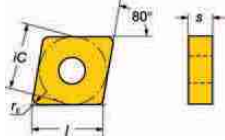


A

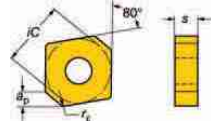
TORNEADO GENERAL Plaquetas negativas

T-Max P

Rómbica 80°



CNMX - SM



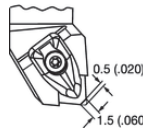
Todos los portaplaquetas CoroTurn RC y T-Max P con diseño de palanca que acepten plaquetas de 80° de 12 mm deben ser modificados para alojar las nuevas plaquetas CNMX.

Placas de apoyo

5322 234-07 para portaplaquetas T-Max P diseño de palanca

5322 234-08 para portaherramientas CoroTurn RC

Para las dimensiones, ver clave de códigos en la página A16.



B

C

G

H

I

J

Table with columns for ISO, Max. ap, IC, P, M, K, N, S, and ANSI. Rows include CNMG-KR, CNMG-KRR, CNMA-KR, Desbaste, CNMX-SM, CNMG-SMR, and CNMM-QR.

★ = Primera elección





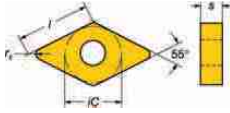


A

TORNEADO GENERAL Plaquitas negativas

T-Max P

Rómbica 55°



Para las dimensiones, ver clave de códigos en la página A16.

B

C

G

H

I

J

|                  | ISO              | iC             | P    |      |      |      |      |      |      | M    |      |      |      |      |     | K    |      |      | S    |      |      |      |      | ANSI |      |      |              |             |              |
|------------------|------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|--------------|-------------|--------------|
|                  |                  |                | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | HT3A | 1105 | 1115 | 1125 |      | HT0A | HT3A | S05F         |             |              |
|                  | DNMX 11 04 04-WF | 11             | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 331-WF |              |
|                  | DNMX 11 04 08-WF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 332-WF |              |
|                  | DNMX 15 04 04-WF | 15             | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 431-WF |              |
|                  | DNMX 15 04 08-WF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 432-WF |              |
|                  | DNMX 15 04 12-WF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 433-WF |              |
|                  | DNMX 15 06 04-WF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 441-WF |              |
|                  | DNMX 15 06 08-WF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMX 442-WF |              |
| DNMX 15 06 12-WF |                  |                | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | DNMX 443-WF  |             |              |
|                  | DNMG 11 04 04-PF | 11             | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 331-PF |              |
|                  | DNMG 11 04 08-PF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 332-PF |              |
|                  | DNMG 11 04 12-PF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 333-PF |              |
|                  | DNMG 15 04 04-PF | 15             | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 431-PF |              |
|                  | DNMG 15 04 08-PF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 432-PF |              |
|                  | DNMG 15 04 12-PF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 433-PF |              |
|                  | DNMG 15 06 04-PF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 441-PF |              |
| DNMG 15 06 08-PF |                  |                | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | DNMG 442-PF  |             |              |
| DNMG 15 06 12-PF |                  |                | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | DNMG 443-PF  |             |              |
|                  | DNMG 11 04 04-MF | 11             | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 331-MF |              |
|                  | DNMG 11 04 08-MF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 332-MF |              |
|                  | DNMG 15 04 04-MF | 15             | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 431-MF |              |
|                  | DNMG 15 04 08-MF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 432-MF |              |
|                  | DNMG 15 04 12-MF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 433-MF |              |
|                  | DNMG 15 06 04-MF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 441-MF |              |
|                  | DNMG 15 06 08-MF |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 442-MF |              |
| DNMG 15 06 12-MF |                  |                | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | DNMG 443-MF  |             |              |
|                  | DNMG 11 04 04-KF | 11             | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 331-KF |              |
|                  | DNMG 11 04 08-KF |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 332-KF |              |
|                  | DNMG 15 04 04-KF | 15             | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 431-KF |              |
|                  | DNMG 15 04 08-KF |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 432-KF |              |
|                  | DNMG 15 06 04-KF |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 441-KF |              |
|                  | DNMG 15 06 08-KF |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 442-KF |              |
|                  | DNMG 15 06 12-KF |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      |      |      |              | DNMG 443-KF |              |
|                  | DNMG 11 04 04-SF | 11             | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 331-SF |              |
|                  | DNMG 11 04 08-SF |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 332-SF |              |
|                  | DNMG150404-SF    | 15             | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 431-SF |              |
|                  | DNMG150408-SF    |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 432-SF |              |
|                  | DNMG150412-SF    |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 433-SF |              |
|                  | DNMG150604-SF    |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 441-SF |              |
|                  | DNMG150608-SF    |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 442-SF |              |
|                  | DNMG150612-SF    |                |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 443-SF |              |
|                  |                  | DNGG150404-SGF | 15   | 1/2  |      |      |      |      |      |      | ☆    | ☆    |      |      |     |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | ☆           | DNGG 431-SGF |
|                  |                  | DNGG150408-SGF |      |      |      |      |      |      |      |      | ☆    | ☆    |      |      |     |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | ☆           | DNGG 432-SGF |
|                  |                  | DNGG150412-SGF |      |      |      |      |      |      |      |      | ☆    | ☆    |      |      |     |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | ☆           | DNGG 433-SGF |
|                  |                  | DNGG150604-SGF |      |      |      |      |      |      |      |      | ☆    | ☆    |      |      |     |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | ☆           | DNGG 441-SGF |
|                  |                  | DNGG150608-SGF |      |      |      |      |      |      |      |      | ☆    | ☆    |      |      |     |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | ☆           | DNGG 442-SGF |
| DNGG150612-SGF   |                  |                |      |      |      |      |      |      | ☆    | ☆    |      |      |      |      |     |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | DNGG 443-SGF |             |              |
|                  | DNMG 11 04 04-LC | 11             | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 331-LC |              |
|                  | DNMG 11 04 08-LC |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 332-LC |              |
|                  | DNMG 15 04 04-LC | 15             | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 431-LC |              |
|                  | DNMG 15 04 08-LC |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 432-LC |              |
|                  | DNMG 15 06 04-LC |                |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆            | DNMG 441-LC |              |
| DNMG 15 06 08-LC |                  |                | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆   | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | DNMG 442-LC  |             |              |

☆ = Primera elección



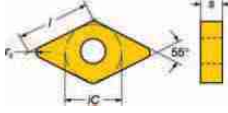


URN - SPA

Plaquetas negativas TORNEADO GENERAL

**T-Max P**

Rómbica 55°



Para las dimensiones, ver clave de códigos en la página A16.

|                      | ISO               | I  | IC  | P    |      |      |      |      |      |      |      | M    |      |     |      | K    |      |      | S    |      |      |             | ANSI         |              |              |
|----------------------|-------------------|----|-----|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-------------|--------------|--------------|--------------|
|                      |                   |    |     | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C  | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C   | 9C          |              | 9C           |              |
|                      |                   |    |     | 1515 | 4205 | 4215 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3210 | H13A | 1105 | 1115 | 1125 | H10A | H13A        |              | S05F         | 9C           |
| <br>DNMG-QF          | DNMG 11 04 04-QF  | 11 | 3/8 |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      | DNMG 331-QF |              |              |              |
|                      | DNMG 11 04 08-QF  |    |     |      |      |      |      | *    |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 332-QF  |              |
| <br>DNMG-K           | DNMG 15 04 04L-K  | 15 | 1/2 |      |      |      |      | *    |      |      |      |      |      |     |      |      |      |      |      |      |      | DNMG 431L-K |              |              |              |
|                      | DNMG 15 04 04R-K  |    |     |      | *    |      | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 431R-K  |              |
|                      | DNMG 15 04 08L-K  |    |     |      | *    |      | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 432L-K  |              |
|                      | DNMG 15 04 08R-K  |    |     |      | *    | *    | *    | *    |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 432R-K  |              |
|                      | DNMG 15 06 04L-K  |    |     |      | *    | *    | *    | *    |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 441L-K  |              |
|                      | DNMG 15 06 04R-K  |    |     |      | *    | *    | *    | *    |      |      |      |      |      | *   |      |      |      |      |      |      |      |             |              |              | DNMG 441R-K  |
|                      | DNMG 15 06 08L-K  |    |     |      | *    | *    | *    | *    |      |      |      |      |      | *   |      |      |      |      |      |      |      |             |              |              | DNMG 442L-K  |
|                      | DNMG 15 06 08R-K  |    |     |      | *    | *    | *    | *    |      |      |      |      |      | *   |      |      |      |      |      |      |      |             |              |              | DNMG 442R-K  |
| <br>DNMG-MF*         | DNMG 11 04 04-MF  | 11 | 3/8 |      |      |      |      | *    |      |      |      |      |      |     |      |      |      |      |      |      |      | DNMG 331-MF |              |              |              |
|                      | DNMG 11 04 08-MF  |    |     |      |      |      |      | *    |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 332-MF  |              |
|                      | DNMG 11 04 12-MF  |    |     |      |      |      | *    | *    |      |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 333-MF  |              |
|                      | DNMG 15 04 04-MF  | 15 | 1/2 |      |      |      | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             | DNMG 431-MF  |              |              |
|                      | DNMG 15 04 08-MF  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 432-MF  |              |
|                      | DNMG 15 04 12-MF  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 433-MF  |              |
|                      | DNMG 15 04 16-MF  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 434-MF  |              |
|                      | DNMG 15 06 04-MF  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     | *    |      |      |      |      |      |      |             |              |              | DNMG 441-MF  |
|                      | DNMG 15 06 08-MF  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     | *    |      |      |      |      |      |      |             |              |              | DNMG 442-MF  |
|                      | DNMG 15 06 12-MF  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     | *    |      |      |      |      |      |      |             |              |              | DNMG 443-MF  |
|                      | DNMX 15 04 08-WMX |    |     | 15   | 1/2  |      | *    | *    | *    | *    |      |      | *    |     |      | *    | *    |      |      |      |      |             |              |              | DNMX 432-WMX |
|                      | DNMX 15 04 12-WMX |    |     |      |      |      | *    | *    | *    | *    |      |      | *    |     |      | *    | *    | *    |      |      |      |             |              |              |              |
| DNMX 15 04 16-WMX    |                   | *  | *   |      |      | *    | *    |      |      | *    |      |      | *    | *   | *    | *    |      |      |      |      |      |             | DNMX 434-WMX |              |              |
| DNMX 15 06 08-WMX    |                   | *  | *   |      |      | *    | *    |      |      | *    |      |      | *    | *   | *    | *    | *    |      |      |      |      |             |              | DNMX 442-WMX |              |
| DNMX 15 06 12-WMX    |                   | *  | *   |      |      | *    | *    |      |      | *    |      |      | *    | *   | *    | *    | *    | *    |      |      |      |             |              | DNMX 443-WMX |              |
| DNMX 15 06 16-WMX    |                   | *  | *   |      |      | *    | *    |      |      | *    |      |      | *    | *   | *    | *    | *    | *    | *    |      |      |             |              | DNMX 444-WMX |              |
| <br>DNMX-WM<br>Wiper | DNMX 11 04 08-WM  | 11 | 3/8 |      | *    | *    | *    | *    |      | *    |      |      |      |     |      |      |      |      |      |      |      | DNMX 332-WM |              |              |              |
|                      | DNMX 11 04 12-WM  |    |     |      | *    | *    | *    | *    |      | *    |      |      |      | *   |      |      |      |      |      |      |      |             |              | DNMX 333-WM  |              |
|                      | DNMX 15 04 08-WM  | 15 | 1/2 |      | *    | *    | *    | *    |      |      |      |      |      |     | *    |      |      |      |      |      |      |             | DNMX 432-WM  |              |              |
|                      | DNMX 15 04 12-WM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      | *    |      |      |      |      |      |             |              | DNMX 433-WM  |              |
|                      | DNMX 15 04 16-WM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      | *    |      |      |      |      |      |             |              | DNMX 434-WM  |              |
|                      | DNMX 15 06 08-WM  |    |     |      | *    | *    | *    | *    | *    |      | *    |      |      |     | *    | *    |      |      |      |      |      |             |              |              | DNMX 442-WM  |
|                      | DNMX 15 06 12-WM  |    |     |      | *    | *    | *    | *    | *    |      | *    |      |      |     | *    | *    | *    |      |      |      |      |             |              |              | DNMX 443-WM  |
|                      | DNMX 15 06 16-WM  |    |     |      | *    | *    | *    | *    | *    |      | *    |      |      |     | *    | *    | *    | *    |      |      |      |             |              |              | DNMX 444-WM  |
| <br>DNMG-PM          | DNMG 11 04 04-PM  | 11 | 3/8 |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             | DNMG 331-PM  |              |              |
|                      | DNMG 11 04 08-PM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 332-PM  |              |
|                      | DNMG 11 04 12-PM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 333-PM  |              |
|                      | DNMG 15 04 04-PM  | 15 | 1/2 |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             | DNMG 431-PM  |              |              |
|                      | DNMG 15 04 08-PM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 432-PM  |              |
|                      | DNMG 15 04 12-PM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 433-PM  |              |
|                      | DNMG 15 06 04-PM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 441-PM  |              |
|                      | DNMG 15 06 08-PM  |    |     |      | *    | *    | *    | *    | *    |      |      |      |      |     |      |      |      |      |      |      |      |             |              | DNMG 442-PM  |              |
| DNMG 15 06 12-PM     |                   | *  | *   | *    | *    | *    |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      | DNMG 443-PM |              |              |              |
| DNMG 15 06 16-PM     |                   | *  | *   | *    | *    | *    |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      | DNMG 444-PM |              |              |              |
| <br>DNMG-MM          | DNMG 11 04 08-MM  | 11 | 3/8 |      | *    | *    | *    | *    | *    |      | *    | *    | *    |     |      |      |      |      |      |      |      | DNMG 332-MM |              |              |              |
|                      | DNMG 11 04 12-MM  |    |     |      | *    | *    | *    | *    | *    |      | *    | *    | *    |     |      |      |      |      |      |      |      |             |              | DNMG 333-MM  |              |
|                      | DNMG 15 04 08-MM  | 15 | 1/2 |      | *    | *    | *    | *    | *    |      | *    | *    | *    |     |      |      |      |      |      |      |      |             | DNMG 432-MM  |              |              |
|                      | DNMG 15 04 12-MM  |    |     |      | *    | *    | *    | *    | *    |      | *    | *    | *    |     |      |      |      |      |      |      |      |             |              | DNMG 433-MM  |              |
|                      | DNMG 15 06 08-MM  |    |     |      | *    | *    | *    | *    | *    |      | *    | *    | *    |     |      |      |      |      |      |      |      |             |              | DNMG 442-MM  |              |
| DNMG 15 06 12-MM     |                   | *  | *   | *    | *    | *    |      | *    | *    | *    |      |      |      |     |      |      |      |      |      |      |      | DNMG 443-MM |              |              |              |

\* Geometría específica para acabado de materiales pastosos.

R = A Derecha, L = A Izquierda  
★ = Primera elección



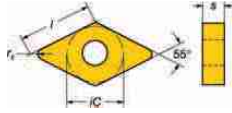


**A**

TORNEADO GENERAL      Plaquitas negativas

**T-Max P**

Rómbica 55°



Para las dimensiones, ver clave de códigos en la página A16.

**B**

**C**

**G**

**H**

**I**

**J**

|              |                  | ISO              | iC  | P    |      |      |      |      |      |      |      |      |      | M    |      |     |      |      | K    |      |      | S    |      |      |       |      | ANSI |              |             |
|--------------|------------------|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|-------|------|------|--------------|-------------|
|              |                  |                  |     | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | HT3A | 1105 | 1115 | 1125 | HT10A | HT3A |      | S05F         |             |
| <b>Medio</b> |                  | DNMG 11 04 08-KM | 11  | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 332-KM  |             |
|              |                  | DNMG 11 04 12-KM |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      |              | DNMG 333-KM |
|              |                  | DNMG 15 04 08-KM | 15  | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | *            | DNMG 432-KM |
|              |                  | DNMG 15 04 12-KM |     |      |      |      |      |      |      |      |      |      |      |      |      |     | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | *            | DNMG 433-KM |
|              |                  | DNMG 15 06 08-KM |     |      |      |      |      |      |      |      |      |      |      |      |      |     | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | *            | DNMG 442-KM |
|              | DNMG 15 04 04-SM | 15               | 1/2 |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *     | *    | *    | DNMG 431-SM  |             |
|              | DNMG 15 04 08-SM |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *     | *    | *    | DNMG 432-SM  |             |
|              | DNMG 15 04 12-SM |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *     | *    | *    | DNMG 433-SM  |             |
|              | DNMG 15 06 04-SM |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *     | *    | *    | DNMG 441-SM  |             |
|              | DNMG 15 06 08-SM |                  |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *     | *    | *    | DNMG 442-SM  |             |
|              | DNMG150408-SMR   | 15               | 1/2 |      |      |      |      |      |      |      |      |      |      |      |      | *   | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | DNMG432-SMR  |             |
|              | DNMG150412-SMR   |                  |     |      |      |      |      |      |      |      |      |      |      |      |      | *   | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | DNMG 433-SMR |             |
|              | DNMG150608-SMR   |                  |     |      |      |      |      |      |      |      |      |      |      |      |      | *   | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | DNMG442-SMR  |             |
|              | DNMG150612-SMR   |                  |     |      |      |      |      |      |      |      |      |      |      |      |      | *   | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | DNMG 443-SMR |             |
|              | DNMG150616-SMR   |                  |     |      |      |      |      |      |      |      |      |      |      |      |      | *   | *    | *    | *    | *    | *    | *    | *    | *    | *     | *    | *    | DNMG 444-SMR |             |
|              | DNMG 11 04 04-QM | 11               | 3/8 |      |      |      |      | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 331-QM  |             |
|              | DNMG 11 04 08-QM |                  |     |      |      |      |      | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 332-QM  |             |
|              | DNMG 11 04 12-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 333-QM  |             |
|              | DNMG 15 04 04-QM | 15               | 1/2 |      |      |      |      | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 431-QM  |             |
|              | DNMG 15 04 08-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 432-QM  |             |
|              | DNMG 15 04 12-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 433-QM  |             |
|              | DNMG 15 06 04-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 441-QM  |             |
|              | DNMG 15 06 08-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 442-QM  |             |
|              | DNMG 15 06 12-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 443-QM  |             |
|              | DNMG 15 06 16-QM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      | *    | *    | *    | *     | *    | *    | DNMG 444-QM  |             |
|              | DNMG 15 04 08-SM | 15               | 1/2 |      |      |      |      | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 432-SM  |             |
|              | DNMG 15 04 12-SM |                  |     |      |      |      |      | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 433-SM  |             |
|              | DNMG 15 06 04-SM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 441-SM  |             |
|              | DNMG 15 06 08-SM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 442-SM  |             |
|              | DNMG 15 06 12-SM |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 443-SM  |             |
|              | DNMG 15 04 08-PR | 15               | 1/2 |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 432-PR  |             |
|              | DNMG 15 04 12-PR |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 433-PR  |             |
|              | DNMG 15 04 16-PR |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 434-PR  |             |
|              | DNMG 15 06 08-PR |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 442-PR  |             |
|              | DNMG 15 06 12-PR |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMG 443-PR  |             |
|              | DNMM 15 06 08-PR | 15               | 1/2 |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMM 442-PR  |             |
|              | DNMM 15 06 12-PR |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMM 443-PR  |             |
|              | DNMM 15 06 16-PR |                  |     |      | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |       |      |      | DNMM 444-PR  |             |

★ = Primera elección

\* Geometría complementaria para semidesbaste en acero.





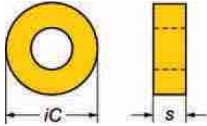


**A**

TORNEADO GENERAL      Plaquitas negativas

**T-Max P**

Redondas



Para las dimensiones, ver clave de códigos en la página A16.

**B**

Versión métrica

|               | iC | ISO            | P   |     |     | M   |     | K   |     | N   |     | S    |     |
|---------------|----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
|               |    |                | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC   |     |
| Medio<br>RCMX | 10 | RCMX 10 03 00E | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 12 | RCMX 12 04 00E | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 10 | RCMX 10 03 00  | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 12 | RCMX 12 04 00  | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 16 | RCMX 16 06 00  | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 20 | RCMX 20 06 00  | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 25 | RCMX 25 07 00  | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               | 32 | RCMX 32 09 00  | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    | ★   |
|               |    |                | P05 | P15 | P25 | P35 | M35 | K10 | K15 | K20 | N15 | N15A | S05 |

Versión en pulgadas

|               | iC  | ANSI    | P   |     |     | M   |     | K   |     | N   |     | S    |     |
|---------------|-----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
|               |     |         | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC  |      |     |
| Medio<br>RNMG | 3/8 | RNMG 32 | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    |     |
|               | 1/2 | RNMG 43 | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    |     |
|               | 5/8 | RNMG 54 | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    |     |
|               | 3/4 | RNMG 64 | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    |     |
|               | 1   | RNMG 86 | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★    |     |
|               |     |         | P05 | P15 | P25 | P35 | M35 | K10 | K15 | K20 | N15 | N15A | S05 |

**H**

Redondas

|                     | ISO              | iC | S   |     |    |
|---------------------|------------------|----|-----|-----|----|
|                     |                  |    | GC  | GC  | GC |
| Desbaste<br>RNMG-SR | RNMG 19 06 00-SR | 19 | ★   | ★   | ★  |
|                     |                  |    | ★   | ★   | ★  |
|                     |                  |    | S15 | S15 |    |

★ = Primera elección

**J**





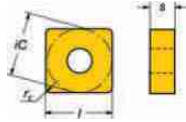
IURN - SPA

Plaquetas negativas

TORNEADO GENERAL

**T-Max P**

Cuadradas



Para las dimensiones, ver clave de códigos en la página A16.

|                 | ISO              | IC | P    |      |      |      |      |      |      |      | M    |      |      |      |     | K    |      |      |      | S    |      |      |             | ANSI        |      |
|-----------------|------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-------------|-------------|------|
|                 |                  |    | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC  | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC          |             | GC   |
|                 |                  |    | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | H13A | 1105 | 1115 | 1125        |             | H13A |
| <b>SNMG-PF</b>  | SNMG 12 04 08-PF | 12 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |      |      | SNMG 432-PF |             |      |
|                 | SNMG 12 04 12-PF |    | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |      |      |             | SNMG 433-PF |      |
|                 |                  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |             |             |      |
| <b>SNMG-MF</b>  | SNMG 12 04 04-MF | 12 | 1/2  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 431-MF |             |      |
|                 | SNMG 12 04 08-MF |    | 1/2  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 432-MF |             |      |
|                 |                  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |             |             |      |
| <b>SNMG-QF</b>  | SNMG 12 04 04-QF | 12 | 1/2  |      |      |      |      |      |      |      |      | ☆    |      |      |     |      |      |      |      |      |      |      | SNMG 431-QF |             |      |
|                 | SNMG 12 04 08-QF |    | 1/2  |      |      |      |      |      |      |      |      | ☆    |      |      |     |      |      |      |      |      |      |      | SNMG 432-QF |             |      |
|                 |                  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |             |             |      |
| <b>SNMG-MF*</b> | SNMG 09 03 04-MF | 09 | 3/8  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 321-MF |             |      |
|                 | SNMG 09 03 08-MF |    | 3/8  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 322-MF |             |      |
|                 | SNMG 09 03 12-MF |    | 3/8  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 323-MF |             |      |
|                 | SNMG 12 04 04-MF | 12 | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 431-MF |             |      |
|                 | SNMG 12 04 08-MF |    | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 432-MF |             |      |
|                 | SNMG 12 04 12-MF |    | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 433-MF |             |      |
| <b>SNMG-PM</b>  | SNMG 09 03 04-PM | 09 | 3/8  |      |      | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |      |      | SNMG 321-PM |             |      |
|                 | SNMG 09 03 08-PM |    | 3/8  |      |      | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |      |      | SNMG 322-PM |             |      |
|                 | SNMG 12 04 04-PM | 12 | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 431-PM |             |      |
|                 | SNMG 12 04 08-PM |    | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 432-PM |             |      |
|                 | SNMG 12 04 12-PM |    | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 433-PM |             |      |
|                 | SNMG 12 04 16-PM |    | 1/2  |      |      |      |      |      |      | ☆    |      |      | ☆    |      |     |      |      |      |      |      |      |      | SNMG 434-PM |             |      |
|                 | SNMG 15 06 12-PM | 15 | 5/8  |      |      | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |      |      | SNMG 543-PM |             |      |
|                 | SNMG 15 06 16-PM |    | 5/8  |      |      | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |      |      | SNMG 544-PM |             |      |
| <b>SNMG-MM</b>  | SNMG 12 04 08-MM | 12 | 1/2  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 432-MM |             |      |
|                 | SNMG 12 04 12-MM |    | 1/2  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 433-MM |             |      |
|                 | SNMG 12 04 16-MM |    | 1/2  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 434-MM |             |      |
|                 | SNMG 15 06 12-MM | 15 | 5/8  |      |      |      |      |      |      |      |      | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 543-MM |             |      |
|                 | SNMG 15 06 16-MM |    | 5/8  |      |      |      |      |      |      |      |      | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 544-MM |             |      |
|                 | SNMG 19 06 12-MM | 19 | 3/4  |      |      |      |      |      |      |      |      | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 643-MM |             |      |
|                 | SNMG 19 06 16-MM |    | 3/4  |      |      |      |      |      |      |      |      | ☆    | ☆    |      |     |      |      |      |      |      |      |      | SNMG 644-MM |             |      |
|                 |                  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |             |             |      |
| <b>SNMG-KM</b>  | SNMG 09 03 08-KM | 09 | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      | SNMG 322-KM |             |      |
|                 | SNMG 12 04 08-KM | 12 | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      | SNMG 432-KM |             |      |
|                 | SNMG 12 04 12-KM |    | 1/2  |      |      |      |      |      |      |      |      |      |      | ☆    | ☆   | ☆    | ☆    |      |      |      |      |      | SNMG 433-KM |             |      |
|                 | SNMG 12 04 16-KM |    | 1/2  |      |      |      |      |      |      |      |      |      |      | ☆    | ☆   | ☆    | ☆    |      |      |      |      |      | SNMG 434-KM |             |      |
|                 | SNMG 15 06 12-KM | 15 | 5/8  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      | SNMG 543-KM |             |      |
|                 | SNMG 15 06 16-KM |    | 5/8  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      | SNMG 544-KM |             |      |
|                 | SNMG 19 06 12-KM | 19 | 3/4  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      | SNMG 643-KM |             |      |
|                 | SNMG 19 06 16-KM |    | 3/4  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      | SNMG 644-KM |             |      |
| <b>SNMG-SM</b>  | SNMG 12 04 08-SM | 12 | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | SNMG 432-SM |             |      |
|                 | SNMG 12 04 12-SM |    | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 433-SM |             |      |
|                 | SNMG 12 04 16-SM |    | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 434-SM |             |      |
|                 | SNMG 15 06 12-SM | 15 | 5/8  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 543-SM |             |      |
|                 | SNMG 15 06 16-SM |    | 5/8  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 544-SM |             |      |
|                 | SNMG 19 06 16-SM | 19 | 3/4  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      | ☆    | ☆    | SNMG 644-SM |             |      |

\* Geometría específica para acabado de materiales pastosos.

☆ = Primera elección





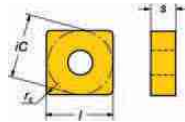


A

TORNEADO GENERAL Plaquetas negativas

**T-Max P**

Cuadradas



Para las dimensiones, ver clave de códigos en la página A16.

B

C

G

H

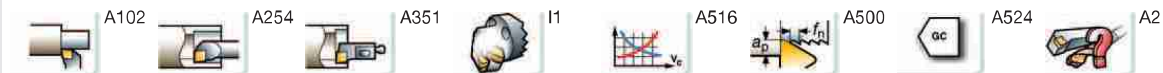
I

J

|  | ISO               | i  | ic  | P  |    |    |    |    |    |    |    |    |    | M  |    |    |    |    | K  |    |    |    | S  |      |      | ANSI |              |              |              |
|--|-------------------|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|--------------|--------------|--------------|
|  |                   |    |     | GC | GC | GC | GC | GC | GC | GC | CT | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | H13A | H13A |      | H13A         | S05F         | GC           |
|  | SNMG120408-SMR    | 12 | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | ★    |      | SNMG 432-SMR |              |              |
|  | SNMG120412-SMR    |    | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      | ★    |              | SNMG 433-SMR |              |
|  | SNMG120416-SMR    |    | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      | ★            |              | SNMG 434-SMR |
|  | SNMG 09 03 04-QM  | 09 | 3/8 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 321-QM  |              |
|  | SNMG 09 03 08-QM  |    | 3/8 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 322-QM  |              |
|  | SNMG 09 03 12-QM  |    | 3/8 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 323-QM  |              |
|  | SNMG 12 04 04-QM  | 12 | 1/2 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 431-QM  |              |
|  | SNMG 12 04 08-QM  |    | 1/2 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 432-QM  |              |
|  | SNMG 12 04 12-QM  |    | 1/2 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 433-QM  |              |
|  | SNMG 12 04 16-QM  |    | 1/2 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 434-QM  |              |
|  | SNMG 15 06 08-QM  | 15 | 5/8 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 542-QM  |              |
|  | SNMG 15 06 12-QM  |    | 5/8 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 543-QM  |              |
|  | SNMG 15 06 16-QM  |    | 5/8 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              |              | SNMG 544-QM  |
|  | SNMG 19 06 08-QM  | 19 | 3/4 |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              |              | SNMG 642-QM  |
|  | SNMG 15 06 08-SM  | 15 | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      | ★    |              | SNMG 542-SM  |              |
|  | SNMG 19 06 12-SM  | 19 | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      | ★    |              | SNMG 643-SM  |              |
|  | SNMG 12 04 08-SM' | 12 | 1/2 |    |    |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 432-SM  |              |
|  | SNMG 12 04 12-SM' |    | 1/2 |    |    |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 433-SM  |              |
|  | SNMG 15 06 12-HM  | 15 | 5/8 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 543-HM  |              |
|  | SNMG 15 06 16-HM  |    | 5/8 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 544-HM  |              |
|  | SNMG 19 06 12-HM  | 19 | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 643-HM  |              |
|  | SNMG 19 06 16-HM  |    | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 644-HM  |              |
|  | SNMG 19 06 24-HM  |    | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 646-HM  |              |
|  | SNMG 25 09 24-HM  | 25 | 1   |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 866-HM  |              |
|  | SNMG 09 03 08     | 09 | 3/8 |    |    |    |    |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 322     |              |
|  | SNMG 12 04 08-PR  | 12 | 1/2 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 432-PR  |              |
|  | SNMG 12 04 12-PR  |    | 1/2 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 433-PR  |              |
|  | SNMG 12 04 16-PR  |    | 1/2 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 434-PR  |              |
|  | SNMG 15 06 08-PR  | 15 | 5/8 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 542-PR  |              |
|  | SNMG 15 06 12-PR  |    | 5/8 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 543-PR  |              |
|  | SNMG 15 06 16-PR  |    | 5/8 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 544-PR  |              |
|  | SNMG 15 06 24-PR  |    | 5/8 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 546-PR  |              |
|  | SNMG 19 06 08-PR  | 19 | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 642-PR  |              |
|  | SNMG 19 06 12-PR  |    | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              |              | SNMG 643-PR  |
|  | SNMG 19 06 16-PR  |    | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              |              | SNMG 644-PR  |
|  | SNMG 19 06 24-PR  |    | 3/4 |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              |              | SNMG 646-PR  |
|  | SNMG 25 07 16-PR  | 25 | 1   |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 854-PR  |              |
|  | SNMG 25 07 24-PR  |    | 1   |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 856-PR  |              |
|  | SNMG 25 09 24-PR  |    | 1   |    |    |    |    | ☆  | ☆  | ★  | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              | SNMG 866-PR  |              |
|  |                   |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |              |              |              |

★ = Primera elección

\* Geometría complementaria para semidesbaste en acero.



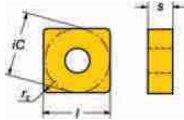


IURN - SPA

Plaquitas negativas TORNEADO GENERAL

**T-Max P**

Cuadradas



Para las dimensiones, ver clave de códigos en la página A16.

|                   | ISO              | ISO               | IC  | P   |    |    |    | M  |    |    |    | K  |    |    |    | S  |    |    |             | ANSI         |              |
|-------------------|------------------|-------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------|--------------|--------------|
|                   |                  |                   |     | GC  | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC          |              | GC           |
| <br>SNMM-PR       | SNMM 12 04 08-PR | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 432-PR  |              |
|                   | SNMM 12 04 12-PR | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 433-PR  |              |
|                   | SNMM 15 06 12-PR | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 543-PR  |              |
|                   | SNMM 15 06 16-PR | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 544-PR  |              |
|                   | SNMM 19 06 12-PR | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 643-PR  |              |
|                   | SNMM 19 06 16-PR | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 644-PR  |              |
|                   | SNMM 19 06 24-PR | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMM 646-PR  |              |
|                   | <br>SNMG-MR      | SNMG 12 04 08-MR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 432-MR  |
|                   |                  | SNMG 12 04 12-MR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 433-MR  |
|                   |                  | SNMG 15 06 12-MR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 543-MR  |
|                   |                  | SNMG 15 06 16-MR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 544-MR  |
|                   |                  | SNMG 19 06 12-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 643-MR  |
|                   |                  | SNMG 19 06 16-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 644-MR  |
|                   | <br>SNMM-MR      | SNMM 12 04 08-MR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 432-MR  |
|                   |                  | SNMM 12 04 12-MR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 433-MR  |
|                   |                  | SNMM 12 04 16-MR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 434-MR  |
|                   |                  | SNMM 15 06 12-MR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 543-MR  |
|                   |                  | SNMM 15 06 16-MR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 544-MR  |
|                   |                  | SNMM 15 06 24-MR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 546-MR  |
|                   |                  | SNMM 19 06 12-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 643-MR  |
|                   |                  | SNMM 19 06 16-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 644-MR  |
|                   |                  | SNMM 19 06 24-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 646-MR  |
|                   |                  | SNMM 19 06 32-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMM 648-MR  |
|                   | <br>SNMG-KR      | SNMG 12 04 08-KR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 432-KR  |
| SNMG 12 04 12-KR  |                  | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMG 433-KR  |              |
| SNMG 12 04 16-KR  |                  | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMG 434-KR  |              |
| SNMG 15 06 12-KR  |                  | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMG 543-KR  |              |
| <br>SNMA-KR       | SNMA 09 03 08-KR | 09                | 3/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 322-KR  |              |
|                   | SNMA 12 04 08-KR | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 432-KR  |              |
| Roughing          | SNMA 12 04 12-KR | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 433-KR  |              |
|                   | SNMA 12 04 16-KR | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 434-KR  |              |
|                   | SNMA 15 06 12-KR | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 543-KR  |              |
|                   | SNMA 15 06 16-KR | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 544-KR  |              |
|                   | SNMA 19 06 08-KR | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 642-KR  |              |
|                   | SNMA 19 06 12-KR | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 643-KR  |              |
|                   | SNMA 19 06 16-KR | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 644-KR  |              |
|                   | SNMA 25 07 24-KR | 25                | 1   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 856-KR  |              |
|                   | Roughing         | SNMG 12 04 08-KRR | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 433-KRR |
|                   |                  | SNMG 12 04 16-KRR | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |              | SNMG 434-KRR |
| SNMG 15 06 16-KRR |                  | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMG 544-KRR |              |
| SNMA 09 03 08-KR  |                  | 09                | 3/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 322-KR  |              |
| SNMA 12 04 08-KR  |                  | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 432-KR  |              |
| SNMA 12 04 12-KR  |                  | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 433-KR  |              |
| SNMA 12 04 16-KR  |                  | 12                | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 434-KR  |              |
| SNMA 15 06 12-KR  |                  | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 543-KR  |              |
| SNMA 15 06 16-KR  |                  | 15                | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 544-KR  |              |
| SNMA 19 06 08-KR  |                  | 19                | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | SNMA 642-KR  |              |
| SNMA 19 06 12-KR  | 19               | 3/4               |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | SNMA 643-KR |              |              |
| SNMA 19 06 16-KR  | 19               | 3/4               |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | SNMA 644-KR |              |              |
| SNMA 25 07 24-KR  | 25               | 1                 |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    | SNMA 856-KR |              |              |

★ = Primera elección



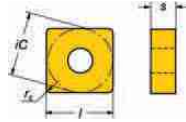


A

TORNEADO GENERAL      Plaquitas negativas

T-Max P

Cuadradas



Para las dimensiones, ver clave de códigos en la página A16.

B

C

G

H

I

J

|                  | ISO               | i □ | ic  | P  |    |    |    |    |    |    |    | M  |    |    |    |    | K  |    |    |    | S  |    |    |    | ANSI |    |    |    |             |              |
|------------------|-------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|-------------|--------------|
|                  |                   |     |     | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC |      | GC | GC | GC | GC          | GC           |
|                  | SNMG 15 06 16-SMR | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG544-SMR  |
|                  | SNMG 19 06 12-SMR | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 643-SMR |
|                  | SNMG 19 06 16-SMR |     | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG644-SMR  |
|                  | SNMM 12 04 08-QR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 432-QR  |
|                  | SNMM 12 04 12-QR  |     | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 433-QR  |
|                  | SNMM 12 04 16-QR  |     | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 434-QR  |
|                  | SNMM 15 06 08-QR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 542-QR  |
|                  | SNMM 15 06 12-QR  |     | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 543-QR  |
|                  | SNMM 15 06 16-QR  |     | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 544-QR  |
|                  | SNMM 15 06 24-QR  |     | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 546-QR  |
|                  | SNMM 19 06 08-QR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 642-QR  |
|                  | SNMM 19 06 12-QR  |     | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             |              |
| SNMM 19 06 16-QR |                   | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 644-QR  |
| SNMM 19 06 24-QR |                   | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 646-QR  |
| SNMM 25 07 24-QR | 25                | 1   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 856-QR  |
|                  | SNMM 19 06 16-HR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 644-HR  |
|                  | SNMM 19 06 24-HR  |     | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 646-HR  |
|                  | SNMM 25 07 24-HR  | 25  | 1   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 856-HR  |
|                  | SNMM 25 07 32-HR  |     | 1   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 858-HR  |
|                  | SNMM 25 09 24-HR  |     | 1   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 866-HR  |
| SNMM 25 09 32-HR |                   | 1   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMM 868-HR  |
|                  | SNMG 12 04 08-MR  | 12  | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 432-MR  |
|                  | SNMG 12 04 12-MR  |     | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 433-MR  |
|                  | SNMG 12 04 16-MR  |     | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 434-MR  |
|                  | SNMG 15 06 12-MR  | 15  | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 543-MR  |
|                  | SNMG 15 06 16-MR  |     | 5/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 544-MR  |
|                  | SNMG 19 06 08-MR  | 19  | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 642-MR  |
|                  | SNMG 19 06 12-MR  |     | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 643-MR  |
|                  | SNMG 19 06 16-MR  |     | 3/4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |             | SNMG 644-MR  |
| SNMG 25 07 24-MR | 25                | 1   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    | SNMG 856-MR |              |
| SNMG 25 09 24-MR |                   | 1   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    | SNMG 866-MR |              |
|                  | SNMM 09 03 08     | 09  | 3/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    | SNMM 322    |              |

★ = Primera elección

\* Geometría específica para acero y desbaste de acero inoxidable.





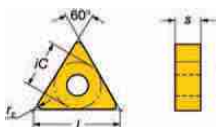


A

TORNEADO GENERAL Plaquetas negativas

**T-Max P**

Triangulares



Para las dimensiones, ver clave de códigos en la página A16.

B

C

G

H

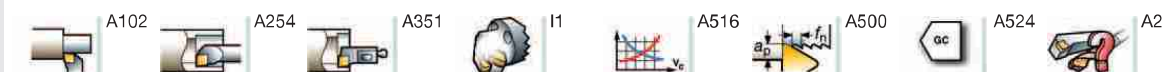
I

J

| Acabado  | ISO               | IC               | P    |      |      |      |      | M    |      |      |      |      | K    |     |      |      |      | S    |      |      |      |      | ANSI |      |      |      |             |              |             |
|----------|-------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------------|--------------|-------------|
|          |                   |                  | GC   | GC   | GC   | GC   | CT   | GC   | GC   | GC   | GC   | GC   | GC   | GC  | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |      |      |      |      |             |              |             |
|          |                   |                  | 1515 | 1825 | 4205 | 4215 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | HT3A | 1105 | 1115 | 1125 |      | HT3A | 1105 | 1115 | 1125        | S05F         |             |
| TnMG-MF* | TNMG 11 03 02-MF  | 11               | 1/4  |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      | TNMG 220-MF |              |             |
|          | TNMG 11 03 04-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 221-MF  |             |
|          | TNMG 11 03 08-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 222-MF  |             |
|          | TNMG 11 03 12-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 223-MF  |             |
|          | TNMG 16 04 04-MF  | 16               | 3/8  |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 331-MF  |             |
|          | TNMG 16 04 08-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 332-MF  |             |
|          | TNMG 16 04 12-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 333-MF  |             |
|          | TNMG 16 04 16-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 334-MF  |             |
| TnMX-WMX | TNMG 22 04 04-MF  | 22               | 1/2  |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 431-MF  |             |
|          | TNMG 22 04 08-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 432-MF  |             |
|          | TNMG 22 04 12-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 433-MF  |             |
|          | TNMG 22 04 16-MF  |                  |      |      |      |      | *    | *    | *    | *    |      |      |      |     | *    |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 433-MF  |             |
|          | TNMX 16 04 08-WMX | 16               | 3/8  |      |      | *    | *    | *    | *    |      | *    |      |      |     | *    | *    | *    |      |      |      |      |      |      |      |      |      |             | TNMX 332-WMX |             |
|          | TNMX 16 04 12-WMX |                  |      |      |      |      | *    | *    | *    | *    |      | *    |      |     | *    | *    | *    |      |      |      |      |      |      |      |      |      |             | TNMX 333-WMX |             |
|          | TnMX-WM           | TNMX 16 04 08-WM | 16   | 3/8  |      |      | *    | *    | *    | *    |      | *    |      |     | *    | *    | *    |      |      |      |      |      |      |      |      |      |             |              | TNMX 332-WM |
|          |                   | TNMX 16 04 12-WM |      |      |      |      | *    | *    | *    | *    |      | *    |      |     | *    | *    | *    |      |      |      |      |      |      |      |      |      |             |              | TNMX 333-WM |
| TnMG-PM  | TNMG 16 04 04-PM  | 16               | 3/8  |      |      |      | *    | *    | *    | *    |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |             | TNMG 331-PM  |             |
|          | TNMG 16 04 08-PM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 332-PM  |             |
|          | TNMG 16 04 12-PM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 333-PM  |             |
|          | TNMG 22 04 04-PM  | 22               | 1/2  |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 431-PM  |             |
|          | TNMG 22 04 08-PM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 432-PM  |             |
|          | TNMG 22 04 12-PM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 433-PM  |             |
| TnMG-MM  | TNMG 22 04 16-PM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 434-PM  |             |
|          | TNMG 16 04 08-MM  | 16               | 3/8  |      |      |      | *    | *    | *    | *    |      | *    |      |     | *    | *    | *    |      |      |      |      |      |      |      |      |      |             | TNMG 332-MM  |             |
|          | TNMG 16 04 12-MM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 333-MM  |             |
|          | TNMG 22 04 08-MM  | 22               | 1/2  |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 432-MM  |             |
| TnMG-KM  | TNMG 22 04 12-MM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 433-MM  |             |
|          | TNMG 22 04 16-MM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 434-MM  |             |
|          | TNMG 16 04 08-KM  | 16               | 3/8  |      |      |      | *    | *    | *    | *    |      | *    |      |     | *    | *    | *    |      |      |      |      |      |      |      |      |      |             | TNMG 332-KM  |             |
|          | TNMG 16 04 12-KM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 333-KM  |             |
| TnMG-SM  | TNMG 22 04 08-KM  | 22               | 1/2  |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 432-KM  |             |
|          | TNMG 22 04 12-KM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 433-KM  |             |
|          | TNMG 22 04 16-KM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      |      |      |      |      |      |      |      |      |      |             | TNMG 434-KM  |             |
|          | TNMG 16 04 08-SM  | 16               | 3/8  |      |      |      | *    | *    | *    | *    |      | *    |      |     | *    | *    | *    |      | *    | *    | *    | *    | *    | *    | *    | *    | *           | TNMG 332-SM  |             |
| TnMG-SM  | TNMG 16 04 12-SM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | TNMG 333-SM  |             |
|          | TNMG 22 04 08-SM  | 22               | 1/2  |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | TNMG 432-SM  |             |
|          | TNMG 22 04 12-SM  |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | TNMG 433-SM  |             |
|          |                   |                  |      |      |      | *    | *    | *    | *    |      | *    |      |      | *   | *    | *    |      | *    | *    | *    | *    | *    | *    | *    | *    | *    | *           | TNMG 433-SM  |             |

\* Geometría específica para acabado de materiales pastosos.

\* = Primera elección

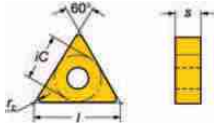




URN - SFA

Plaquetas negativas TORNEADO GENERAL

T-Max P Triangulares



Para las dimensiones, ver clave de códigos en la página A16.

|                  | ISO              | $\triangle$      | /C  | P   |    |    |    |    |    | M  |    |    |    | K  |    |    |    | S  |    |    |    | ANSI        |             |             |
|------------------|------------------|------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------|-------------|-------------|
|                  |                  |                  |     | 3C  | 30 | 30 | 60 | 60 | CT | 6C | 6C | 6C | 6C | 6C | 6C | 6C | 6C | 6C | 6C | 6C | 6C |             |             |             |
| TNMG-QM          | TNMG 11 03 04-QM | 11               | 1/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 221-QM |
|                  | TNMG 11 03 08-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 222-QM |
|                  | TNMG 16 03 04-QM | 16               | 3/8 |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 321-QM |
|                  | TNMG 16 03 08-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 322-QM |
|                  | TNMG 16 04 04-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 331-QM |
|                  | TNMG 16 04 08-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    | *  | *  | *  | *  |             |             | TNMG 332-QM |
|                  | TNMG 16 04 12-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    | *  | *  | *  | *  |             |             | TNMG 333-QM |
|                  | TNMG 22 04 04-QM | 22               | 1/2 |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    | *           | *           | TNMG 431-QM |
|                  | TNMG 22 04 08-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    | *           | *           | TNMG 432-QM |
|                  | TNMG 22 04 12-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    | *           | *           | TNMG 433-QM |
|                  | TNMG 22 04 16-QM |                  |     |     |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    | *           | *           | TNMG 434-QM |
|                  | TNMG-SM*         | TNMG 16 04 04-SM | 16  | 3/8 |    |    |    | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 331-SM |
| TNMG 16 04 08-SM |                  |                  |     |     |    |    | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 332-SM |             |
| TNMG 16 04 12-SM |                  |                  |     |     |    |    | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 333-SM |             |
| TNMG 22 04 08-SM |                  | 22               | 1/2 |     |    |    | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 432-SM |             |
| TNMG 22 04 12-SM |                  |                  |     |     |    | *  | *  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 433-SM |             |
| TNMG-HM          | TNMG 27 06 12-HM | 27               | 5/8 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 543-HM |             |
|                  | TNMG 27 06 16-HM |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMG 544-HM |
|                  | TNMG 33 09 24-HM | 33               | 3/4 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 666-HM |             |
| TNMX-WR Wiper    | TNMX 22 04 12-WR | 22               | 1/2 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMX 433-WR |             |
|                  | TNMX 22 04 16-WR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             |             | TNMX 434-WR |
| TNMG-PR          | TNMG 16 04 08-PR | 16               | 3/8 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 332-PR |             |
|                  | TNMG 16 04 12-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 333-PR |             |
|                  | TNMG 22 04 08-PR | 22               | 1/2 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 432-PR |             |
|                  | TNMG 22 04 12-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 433-PR |             |
|                  | TNMG 22 04 16-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 434-PR |             |
|                  | TNMG 27 06 08-PR | 27               | 5/8 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 542-PR |             |
|                  | TNMG 27 06 12-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 543-PR |             |
|                  | TNMG 27 06 16-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 544-PR |             |
|                  | TNMG 33 07 16-PR | 33               | 3/4 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 654-PR |             |
|                  | TNMG 33 09 24-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMG 666-PR |             |
| TNMM-PR          | TNMM 16 04 08-PR | 16               | 3/8 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMM 332-PR |             |
|                  | TNMM 16 04 12-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMM 333-PR |             |
|                  | TNMM 22 04 08-PR | 22               | 1/2 |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMM 432-PR |             |
|                  | TNMM 22 04 12-PR |                  |     |     | *  | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |             | TNMM 433-PR |             |
| TNMM 22 04 16-PR |                  |                  |     | *   | *  | *  | *  |    | *  |    |    |    |    |    |    |    |    |    |    |    |    | TNMM 434-PR |             |             |
| TNMG-MR          | TNMG 16 04 08-MR | 16               | 3/8 |     |    |    |    |    |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |             | TNMG 332-MR |             |
|                  | TNMG 16 04 12-MR |                  |     |     |    |    |    |    |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |             | TNMG 333-MR |             |
|                  | TNMG 22 04 08-MR | 22               | 1/2 |     |    |    |    |    |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |             | TNMG 432-MR |             |
|                  | TNMG 22 04 12-MR |                  |     |     |    |    |    |    |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |             | TNMG 433-MR |             |
| TNMG 22 04 16-MR |                  |                  |     |     |    |    |    |    | *  | *  | *  | *  |    |    |    |    |    |    |    |    |    | TNMG 434-MR |             |             |

★ = Primera elección



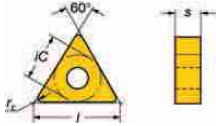


**A**

TORNEADO GENERAL Plaquitas negativas

**T-Max P**

Triangulares



Para las dimensiones, ver clave de códigos en la página A16.

**B**

**C**

**G**

**H**

**I**

**J**

|                  | ISO               | iC               | P   |     |    |    | M  |    |    |    | K  |    |    |    | S  |    |    |    | ANSI |              |             |
|------------------|-------------------|------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|--------------|-------------|
|                  |                   |                  | GC  | GC  | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC | GC |      |              |             |
|                  | TNMM 16 04 08-MR  | 16               | 3/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 332-MR  |             |
|                  | TNMM 16 04 12-MR  |                  |     | ☆   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 333-MR  |             |
|                  | TNMM 22 04 08-MR  | 22               | 1/2 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 432-MR  |             |
|                  | TNMM 22 04 12-MR  |                  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 433-MR  |             |
|                  | TNMM 22 04 16-MR  |                  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 434-MR  |             |
|                  | TNMM 27 06 12-MR  | 27               | 5/8 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 543-MR  |             |
|                  | TNMG 16 04 08-KR  | 16               | 3/8 |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 332-KR  |             |
|                  | TNMG 16 04 12-KR  |                  |     |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 333-KR  |             |
|                  | TNMG 16 04 16-KR  |                  |     |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 334-KR  |             |
|                  | TNMG 22 04 08-KR  | 22               | 1/2 |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 432-KR  |             |
|                  | TNMG 22 04 12-KR  |                  |     |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 433-KR  |             |
|                  | TNMG 27 06 16-KR  | 27               | 5/8 |     |    |    |    |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMG 544-KR  |             |
|                  | TNMG 16 04 08-KRR | 16               | 3/8 |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 332-KRR |             |
|                  | TNMG 16 04 12-KRR |                  |     |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMG 333-KRR |             |
|                  |                   | TNMA 16 04 04-KR | 16  | 3/8 |    |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |      |              | TNMA 331-KR |
|                  |                   | TNMA 16 04 08-KR |     |     |    |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |      |              | TNMA 332-KR |
|                  |                   | TNMA 16 04 12-KR |     |     |    |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |      |              | TNMA 333-KR |
|                  |                   | TNMA 16 04 16-KR |     |     |    |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |      |              | TNMA 334-KR |
| TNMA 22 04 04-KR |                   | 22               | 1/2 |     |    |    |    |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMA 431-KR  |             |
| TNMA 22 04 08-KR |                   |                  |     |     |    |    |    |    |    |    |    |    | ☆  | ☆  | ☆  |    |    |    |      | TNMA 432-KR  |             |
|                  | TNMM 16 04 08-QR  | 16               | 3/8 |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMM 332-QR  |             |
|                  | TNMM 16 04 12-QR  |                  |     |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMM 333-QR  |             |
|                  | TNMM 22 04 08-QR  | 22               | 1/2 |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMM 432-QR  |             |
|                  | TNMM 22 04 12-QR  |                  |     |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMM 433-QR  |             |
|                  | TNMM 22 04 16-QR  |                  |     |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMM 434-QR  |             |
|                  | TNMM 27 06 12-QR  | 27               | 5/8 |     |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 543-QR  |             |
|                  | TNMM 27 06 16-QR  |                  |     |     |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 544-QR  |             |
|                  | TNMM 27 06 16-HR  | 27               | 5/8 |     |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 544-HR  |             |
|                  | TNMM 27 06 24-HR  |                  |     |     |    |    | ☆  |    |    |    |    |    |    |    |    |    |    |    |      | TNMM 546-HR  |             |
|                  |                   | TNMG 16 04 08-MR | 16  | 3/8 |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |      |              | TNMG 332-MR |
|                  |                   | TNMG 16 04 12-MR |     |     |    | ☆  | ☆  | ☆  |    |    |    |    |    |    |    |    |    |    |      |              | TNMG 333-MR |
|                  |                   | TNMG 22 04 08-MR | 22  | 1/2 |    | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |      |              | TNMG 432-MR |
| TNMG 22 04 12-MR |                   |                  |     |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMG 433-MR  |             |
| TNMG 22 04 16-MR |                   |                  |     |     | ☆  | ☆  | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMG 434-MR  |             |
| TNMG 22 04 24-MR |                   |                  |     |     | ☆  |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMG 436-MR  |             |
|                  | TNMG 27 06 08-MR  | 27               | 5/8 |     |    |    | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMG 542-MR  |             |
|                  | TNMG 27 06 12-MR  |                  |     |     |    |    | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMG 543-MR  |             |
|                  | TNMG 27 06 16-MR  |                  |     |     |    |    | ☆  |    |    |    |    |    | ☆  |    |    |    |    |    |      | TNMG 544-MR  |             |
|                  | TNMG 33 09 24-MR  | 33               | 3/4 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TNMG 666-MR  |             |

☆ = Primera elección

\* Geometría específica para acero y desbaste de acero inoxidable.



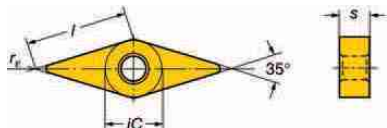


UJRN - SFA

Plaquetas negativas TORNEADO GENERAL

### T-Max P

Rómbica 35°

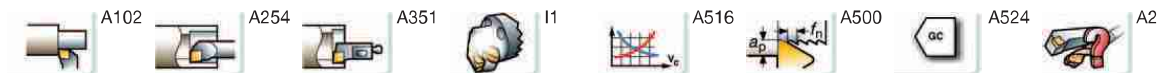


Para las dimensiones, ver clave de códigos en la página A16.

|          | ISO              | IC | P    |      |      |      |      |      |      |      |      |      | M    |      |     |      |      | K    |      |      |       |      | S    |      |      |       |      | ANSI         |
|----------|------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|-------|------|------|------|------|-------|------|--------------|
|          |                  |    | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | 3215 | HT13A | 1005 | 1105 | 1115 | 1125 | HT13A | S05F |              |
| VNMG-PF  | VNMG 16 04 04-PF | 16 | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |       |      |      |      |      |       |      | VNMG 331-PF  |
|          | VNMG 16 04 08-PF |    |      | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |     |      |      |      |      |      |       |      |      |      |      |       |      |              |
| VNMG-MF  | VNMG 16 04 04-MF | 16 | 3/8  |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |      |     |      |      |      |      |      |       |      | ☆    | ☆    | ☆    | ☆     |      | VNMG 331-MF  |
|          | VNMG 16 04 08-MF |    |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |      |     |      |      |      |      |      |       |      | ☆    | ☆    | ☆    | ☆     |      | VNMG 332-MF  |
| VNMG-SF  | VNMG160404-SF    | 16 | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |       | ☆    | ☆    | ☆    | ☆    | ☆     |      | VNMG 331-SF  |
|          | VNMG160408-SF    |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |       | ☆    | ☆    | ☆    | ☆    | ☆     |      | VNMG 332-SF  |
|          | VNMG160412-SF    |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |       | ☆    | ☆    | ☆    | ☆    | ☆     |      | VNMG 333-SF  |
| VNGG-SGF | VNGG160404-SGF   | 16 | 3/8  |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |      |     |      |      |      |      |      |       | ☆    | ☆    | ☆    | ☆    | ☆     |      | VNGG 331-SGF |
|          | VNGG160408-SGF   |    |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |      |     |      |      |      |      |      |       | ☆    | ☆    | ☆    | ☆    | ☆     |      | VNGG 332-SGF |
|          | VNGG160412-SGF   |    |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |      |     |      |      |      |      |      |       | ☆    | ☆    | ☆    | ☆    | ☆     |      | VNGG 333-SGF |
| VNMG-LC  | VNMG 16 04 04-LC | 16 | 3/8  | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |      |     |      |      |      |      |      |       |      |      |      |      |       |      | VNMG 331-LC  |
|          | VNMG 16 04 08-LC |    |      | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |      |     |      |      |      |      |      |       |      |      |      |      |       |      | VNMG 332-LC  |
| VNGP     | VNGP 16 04 01    | 16 | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |       | ☆    |      |      |      |       |      | VNGP 33(0.3) |
|          | VNGP 16 04 02    |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |       | ☆    |      |      |      |       |      | VNGP 330     |
| VNMG-MF* | VNMG 16 04 04-MF | 16 | 3/8  |      |      | ☆    | ☆    | ☆    |      |      |      |      | ☆    |      |     |      |      |      |      |      |       |      |      |      |      |       |      | VNMG 331-MF  |
|          | VNMG 16 04 08-MF |    |      |      |      | ☆    | ☆    | ☆    |      |      |      |      | ☆    |      |     |      |      |      |      |      |       |      |      |      |      |       |      | VNMG 332-MF  |
|          | VNMG 16 04 12-MF |    |      |      |      | ☆    | ☆    | ☆    |      |      |      |      | ☆    |      |     |      |      |      |      |      |       |      |      |      |      |       |      | VNMG 333-MF  |

\* Geometría específica para acabado de materiales pastosos.

☆ = Primera elección





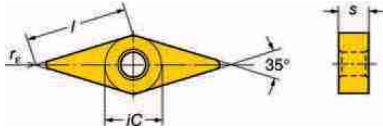


A

TORNEADO GENERAL      Plaquetas negativas

**T-Max P**

Rómbica 35°



Para las dimensiones, ver clave de códigos en la página A16.

B

C

|             | ISO              | IC     | P    |      |      |      |      |      |      |      |      |      | M    |      |     |      |      | K    |      |      |      | S    |      |      |      |                            | ANSI                                      |
|-------------|------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|----------------------------|---|
|             |                  |        | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | H13A | 1005 | 1105 | 1115 | 1125 | H13A | S05F                       |   |
| <br>VNMG-PM | VNMG 16 04 08-PM | 16 3/8 | *    | *    | *    | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      | VNMG 332-PM<br>VNMG 333-PM |   |
|             | VNMG 16 04 12-PM |        |      |      |      | *    | *    | *    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |                            |   |
| <br>VNMG-MM | VNMG 16 04 08-MM | 16 3/8 |      |      |      |      |      |      | *    | *    | *    | *    |      |      |     |      |      |      |      |      |      |      |      |      |      |                            | VNMG 332-MM                               |
|             | VNMG 16 04 12-MM |        |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |                            |   |
| <br>VNMG-KM | VNMG 16 04 08-KM | 16 3/8 |      |      |      |      |      |      |      |      |      |      |      | *    | *   | *    | *    |      |      |      |      |      |      |      |      |                            | VNMG 332-KM<br>VNMG 333-KM                |
|             | VNMG 16 04 12-KM |        |      |      |      |      |      |      |      |      |      |      |      | *    | *   | *    | *    |      |      |      |      |      |      |      |      |                            |   |
| <br>VNMG-SM | VNMG 16 04 04-SM | 16 3/8 |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *    | *    | *                          | VNMG 331-SM<br>VNMG 332-SM<br>VNMG 333-SM |
|             | VNMG 16 04 08-SM |        |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *    | *    | *                          |   |
|             | VNMG 16 04 12-SM |        |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | *    | *    | *    | *    | *    | *    | *                          |   |
| <br>VNMG-QM | VNMG 16 04 04-QM | 16 3/8 |      | *    | *    | *    | *    | *    | *    | *    |      | *    | *    | *    | *   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *                          | VNMG 331-QM<br>VNMG 332-QM<br>VNMG 333-QM |
|             | VNMG 16 04 08-QM |        |      | *    | *    | *    | *    | *    | *    | *    |      | *    | *    | *    | *   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *                          |   |
|             | VNMG 16 04 12-QM |        |      | *    | *    | *    | *    | *    | *    | *    |      | *    | *    | *    | *   | *    | *    | *    | *    | *    | *    | *    | *    | *    | *    | *                          |   |
|             |                  |        | P25  | P15  | P05  | P15  | P25  | P35  | P10  | M15  | M25  | M15  | M25  | M35  | M35 | K10  | K05  | K10  | K15  | K20  | S15  | S15  | S20  | S25  | S15  | S05                        |   |

★ = Primera elección

H

I

J



A 40





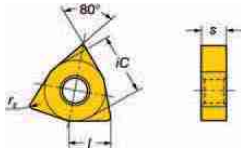


A

TORNEADO GENERAL      Plaquetas negativas

**T-Max P**

Trigonales 80°



Para las dimensiones, ver clave de códigos en la página A16.

B

C

G

H

I

J

|                    | ISO               | iC | P    |      |      |      |      |      |      |      | M    |      |      |      |     | K    |      |      | S    |      |      |      | ANSI |      |             |              |
|--------------------|-------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|-------------|--------------|
|                    |                   |    | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30  | 30   | 30   | 30   | 30   | 30   | 30   | 30   |      | 30   | 30          |              |
|                    |                   |    | 1515 | 1525 | 4205 | 4215 | 4225 | 4235 | 5015 | 1115 | 1125 | 2015 | 2025 | 2035 | 235 | 3005 | 3205 | 3210 | 3215 | H13A | 1105 | 1115 | 1125 | H13A | S05F        |              |
| <br>WIPER<br>WIPER | WNMG 06 04 08-WMX | 06 | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 332-WMX |
|                    | WNMG 06 04 12-WMX |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 333-WMX |
|                    | WNMG 08 04 08-WMX | 08 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 432-WMX |
|                    | WNMG 08 04 12-WMX |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 433-WMX |
| <br>WIPER<br>WIPER | WNMG 06 04 08-WM  | 06 | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 332-WM  |
|                    | WNMG 06 04 12-WM  |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 333-WM  |
|                    | WNMG 08 04 08-WM  | 08 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 432-WM  |
|                    | WNMG 08 04 12-WM  |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      | ☆    |      |      |     | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |             | WNMG 433-WM  |
| <br>PM<br>PM       | WNMG 06 04 08-PM  | 06 | 3/8  | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |             | WNMG 332-PM  |
|                    | WNMG 06 04 12-PM  |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |             | WNMG 333-PM  |
|                    | WNMG 08 04 08-PM  | 08 | 1/2  | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |             | WNMG 432-PM  |
|                    | WNMG 08 04 12-PM  |    |      | ☆    | ☆    | ☆    | ☆    | ☆    |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |             | WNMG 433-PM  |
| <br>MM<br>MM       | WNMG 06 04 08-MM  | 06 | 3/8  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      |      |      | WNMG 332-MM |              |
|                    | WNMG 06 04 12-MM  |    |      |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      |      |      | WNMG 333-MM |              |
|                    | WNMG 08 04 08-MM  | 08 | 1/2  |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      |      |      | WNMG 432-MM |              |
|                    | WNMG 08 04 12-MM  |    |      |      |      |      |      |      |      | ☆    | ☆    | ☆    | ☆    |      |     |      |      |      |      |      |      |      |      |      | WNMG 433-MM |              |
| <br>KM<br>KM       | WNMG 06 04 08-KM  | 06 | 3/8  |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      | WNMG 332-KM |              |
|                    | WNMG 06 04 12-KM  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      | ☆    | ☆    |      |      |      |      |      |      | WNMG 333-KM |              |
|                    | WNMG 08 04 08-KM  | 08 | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     | ☆    | ☆    | ☆    |      |      |      |      |      |      | WNMG 432-KM |              |
|                    | WNMG 08 04 12-KM  |    |      |      |      |      |      |      |      |      |      |      |      |      |     | ☆    | ☆    | ☆    |      |      |      |      |      |      | WNMG 433-KM |              |
| <br>SM<br>SM       | WNMG 08 04 04-SM  | 08 | 1/2  |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | WNMG 431-SM |              |
|                    | WNMG 08 04 08-SM  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | WNMG 432-SM |              |
|                    | WNMG 08 04 12-SM  |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | WNMG 433-SM |              |
|                    |                   |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |             |              |
| <br>SMR<br>SMR     | WNMG 08 04 08-SMR | 08 | 1/2  |      |      |      |      |      |      |      |      |      | ☆    |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | WNMG432-SMR |              |
|                    | WNMG 08 04 12-SMR |    |      |      |      |      |      |      |      |      |      |      | ☆    |      |     |      |      |      |      | ☆    | ☆    | ☆    | ☆    | ☆    | WNMG433-SMR |              |

☆ = Primera elección



A 42

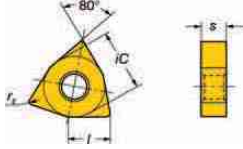




IURN - SPA

Plaquitas negativas TORNEADO GENERAL

**T-Max P**  
Trigonales 80°



Para las dimensiones, ver clave de códigos en la página A16.

|                           | ISO                            | L <sub>L</sub> | IC  | P  |    |    |    |    |    |    |    |    |    | M  |    |    |    |    | K  |    |    | S  |    |    |    |    | ANSI         |             |
|---------------------------|--------------------------------|----------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------|-------------|
|                           |                                |                |     | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |              | 30          |
| <br>WNMG-QM               | WNMG 06 04 08-QM               | 06             | 3/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 332-QM  |             |
|                           | WNMG 06 04 12-QM               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              | WNMG 333-QM |
|                           | WNMG 08 04 04-QM               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              | WNMG 431-QM |
|                           | WNMG 08 04 08-QM               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              | WNMG 432-QM |
|                           | WNMG 08 04 12-QM               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              | WNMG 433-QM |
| <br>WNMG-SM <sup>1)</sup> | WNMG 08 04 16-QM               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 434-QM  |             |
|                           | WNMG 08 04 08-SM <sup>1)</sup> | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 432-SM  |             |
|                           | WNMG 08 04 12-SM <sup>1)</sup> |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 433-SM  |             |
| <br>WNMG-PR               | WNMG 06 04 08-PR               | 06             | 3/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 332-PR  |             |
|                           | WNMG 06 04 12-PR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 333-PR  |             |
|                           | WNMG 08 04 08-PR               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 432-PR  |             |
|                           | WNMG 08 04 12-PR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 433-PR  |             |
|                           | WNMG 08 04 16-PR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 434-PR  |             |
| <br>WNMM-MR               | WNMM 08 04 12-MR               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMM 433-MR  |             |
|                           |                                |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              |             |
| <br>WNMG-MR               | WNMG 06 04 08-MR               | 06             | 3/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 332-MR  |             |
|                           | WNMG 06 04 12-MR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 333-MR  |             |
|                           | WNMG 08 04 08-MR               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 432-MR  |             |
|                           | WNMG 08 04 12-MR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 433-MR  |             |
| <br>WNMG-KR               | WNMG 06 04 08-KR               | 06             | 3/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 332-KR  |             |
|                           | WNMG 06 04 12-KR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 333-KR  |             |
|                           | WNMG 08 04 08-KR               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 432-KR  |             |
|                           | WNMG 08 04 12-KR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 433-KR  |             |
|                           |                                |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |              | WNMG 434-KR |
| <br>WNMG-KRR              | WNMG 08 04 08-KRR              | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 432-KRR |             |
|                           | WNMG 08 04 12-KRR              |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 433-KRR |             |
| <br>WNMA-KR               | WNMA 06 04 08-KR               | 06             | 3/8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMA 332-KR  |             |
|                           | WNMA 06 04 12-KR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMA 333-KR  |             |
|                           | WNMA 08 04 08-KR               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMA 432-KR  |             |
|                           | WNMA 08 04 16-KR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMA 433-KR  |             |
| <br>WNMG-MR*              | WNMG 08 04 12-MR               | 08             | 1/2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 432-MR  |             |
|                           | WNMG 08 04 16-MR               |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 433-MR  |             |
|                           |                                |                |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | WNMG 434-MR  |             |

★ = Primera elección

1) Geometría complementaria para semidesbaste en acero  
\* Geometría específica para acero y desbaste de acero inoxidable.



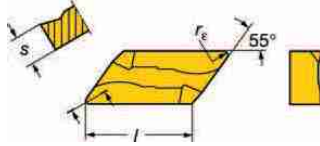


A

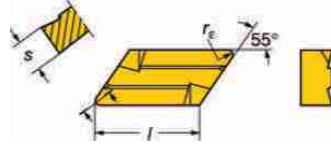
TORNEADO GENERAL      Plaquitas negativas

**T-Max®**

**KNMX**



**KNUX**



Para las dimensiones, ver clave de códigos en la página A16.

B

C

|                     | ISO                | P  |     |     |     | M   |     | K   | ANSI               |                    |
|---------------------|--------------------|----|-----|-----|-----|-----|-----|-----|--------------------|--------------------|
|                     |                    | GC | GC  | CT  | GC  | GC  | GC  | GC  |                    |                    |
| <br>KNMX-71         | KNMX 16 04 05 L-71 | 16 | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNMX 16 04 05 L-71 |                    |
|                     | KNMX 16 04 05 R-71 |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNMX 16 04 05 R-71 |                    |
|                     | KNMX 16 04 10 L-71 |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNMX 16 04 10 L-71 |                    |
|                     | KNMX 16 04 10 R-71 |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNMX 16 04 10 R-71 |                    |
| Acabado<br><br>KNUX | KNUX 16 04 05F L12 | 16 |     |     |     |     | ☆   | ☆   | KNUX 16 04 05F L12 |                    |
|                     | KNUX 16 04 05F R12 |    |     |     |     |     | ☆   | ☆   | KNUX 16 04 05F R12 |                    |
|                     | KNUX 16 04 05L11   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 05L11   |                    |
|                     | KNUX 16 04 05L12   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 05L12   |                    |
|                     | KNUX 16 04 05R11   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 05R11   |                    |
|                     | KNUX 16 04 05R12   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 05R12   |                    |
|                     | KNUX 16 04 10F L12 |    |     |     |     |     |     | ☆   | ☆                  | KNUX 16 04 10F L12 |
|                     | KNUX 16 04 10F R12 |    |     |     |     |     |     | ☆   | ☆                  | KNUX 16 04 10F R12 |
|                     | KNUX 16 04 10L11   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 10L11   |                    |
|                     | KNUX 16 04 10L12   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 10L12   |                    |
|                     | KNUX 16 04 10R11   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 10R11   |                    |
|                     | KNUX 16 04 10R12   |    | ☆   | ☆   | ☆   | ☆   | ☆   | ☆   | KNUX 16 04 10R12   |                    |
|                     | KNUX 16 04 15F R13 |    |     |     |     |     |     | ☆   | ☆                  | KNUX 16 04 15F R13 |
|                     |                    |    | P15 | P25 | P10 | P10 | M25 | M35 | M15                | K20                |

R = A Derecha, L = A Izquierda

G

H

I

J

