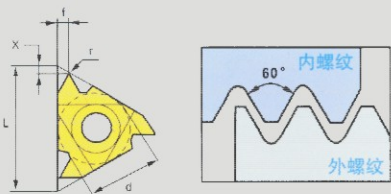
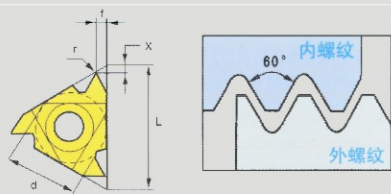
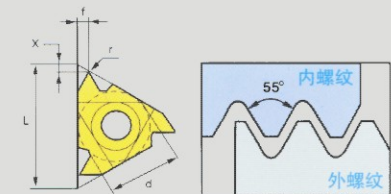
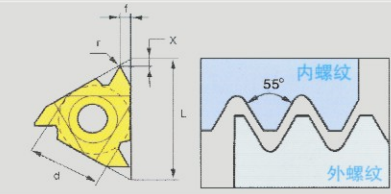




## 60° 通用牙型 PartialProfile 60°

| Type<br>类型              | Picture<br>图片                                                                     | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | (mm)<br>螺距 | TPI   | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-----------------------------------------------------------------------------------|----------------------------|---------------------------|------------|-------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                   |                            |                           |            |       | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |  | 11ER-A60                   | 11EL-A60                  | 0.5-1.5    | 48-16 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                   | 16ER-G60                   | 16EL-G60                  | 1.75-3.0   | 14-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                   | 16ER-AG60                  | 16EL-AG60                 | 0.5-3.0    | 48-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                   | 22ER-N60                   | 22EL-N60                  | 3.5-5.0    | 7-5   | 12.7                 | 22 | 1.7 | 2.5 |        |        |        |        |
|                         |                                                                                   | 27ER-Q60                   | 27EL-Q60                  | 5.5-6.0    | 4.5-4 | 15.875               | 27 | 2.1 | 3.1 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-A60                   | 11NL-A60                  | 0.5-1.5    | 48-16 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                   | 16NR-G60                   | 16NL-G60                  | 1.75-3.0   | 14-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                   | 16NR-AG60                  | 16NL-AG60                 | 0.5-3.0    | 48-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                   | 22NR-N60                   | 22NL-N60                  | 3.5-5.0    | 7-5   | 12.7                 | 22 | 1.7 | 2.5 |        |        |        |        |
|                         |                                                                                   | 27NR-Q60                   | 27NL-Q60                  | 5.5-6.0    | 4.5-4 | 15.875               | 27 | 1.8 | 2.7 |        |        |        |        |

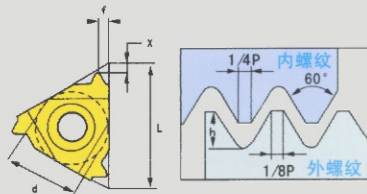
## 55° 通用牙型螺纹 PartialProfile 55°

| Type<br>类型              | Picture<br>图片                                                                       | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | (mm)<br>螺距 | TPI   | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------|------------|-------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                     |                            |                           |            |       | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |  | 11ER-A55                   | 11EL-A55                  | 0.5-1.5    | 48-16 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16ER-G55                   | 16EL-G55                  | 1.75-3.0   | 14-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 16ER-AG55                  | 16EL-AG55                 | 0.5-3.0    | 48-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 22ER-N55                   | 22EL-N55                  | 3.5-5.0    | 7-5   | 12.7                 | 22 | 1.7 | 2.5 |        |        |        |        |
|                         |                                                                                     | 27ER-Q55                   | 27EL-Q55                  | 5.5-6.0    | 4.5-4 | 15.875               | 27 | 2.0 | 2.9 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-A55                   | 11NL-A55                  | 0.5-1.5    | 48-16 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16 R-G55                   | 16NL-G55                  | 1.75-3.0   | 14-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 16 R-AG55                  | 16NL-AG55                 | 0.5-3.0    | 48-8  | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 22 R-N55                   | 22NL-N55                  | 3.5-5.0    | 7-5   | 12.7                 | 22 | 1.7 | 2.5 |        |        |        |        |
|                         |                                                                                     | 27 R-Q55                   | 27NL-Q55                  | 5.5-6.0    | 4.5-4 | 15.875               | 27 | 2.0 | 2.9 |        |        |        |        |

[illegible]



ISO 公制螺纹 ISO Metric (适用于内螺纹刀杆系列)

| Type<br>类型              | Picture<br>图片                                                                      | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI  | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|------------------------------------------------------------------------------------|----------------------------|---------------------------|------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                    |                            |                           |      | d                    | L  | X   | f   |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-0.35 ISO              | 11NL-0.35 ISO             | 0.35 | 6.35                 | 11 | 0.8 | 0.3 |        |        |        |        |
|                         |                                                                                    | 11NR-0.4 ISO               | 11NL-0.4 ISO              | 0.4  | 6.35                 | 11 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                    | 11NR-0.45 ISO              | 11NL-0.45 ISO             | 0.45 | 6.35                 | 11 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                    | 11NR-0.5 ISO               | 11NL-0.5 ISO              | 05   | 6.35                 | 11 | 0.6 | 0.4 |        |        |        |        |
|                         |                                                                                    | 11NR-0.6 ISO               | 11NL-0.6 ISO              | 0.6  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 11NR-0.7 ISO               | 11NL-0.7 ISO              | 0.7  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 11NR-0.75 ISO              | 11NL-0.75 ISO             | 0.75 | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 11NR-0.8 ISO               | 11NL-0.8 ISO              | 0.8  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 11NR-1.0 ISO               | 11NL-1.0 ISO              | 1.0  | 6.35                 | 11 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                    | 11NR-1.25 ISO              | 11NL-1.25 ISO             | 1.25 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                    | 11NR-1.5 ISO               | 11NL-1.5 ISO              | 1.5  | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                    | 11NR-1.75 ISO              | 11NL-1.75 ISO             | 1.75 | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                    | 11NR-2.0 ISO               | 11NL-2.0 ISO              | 2.0  | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                    | 11NR-2.5 ISO               | 11NL-2.5 ISO              | 2.5  | 6.35                 | 11 | 0.8 | 1.1 |        |        |        |        |
|                         |                                                                                    | 16NR-0.4 ISO               | 16NL-0.4 ISO              | 0.35 | 9.525                | 16 | 0.8 | 0.3 |        |        |        |        |
|                         |                                                                                    | 16NR-0.4 ISO               | 16NL-0.4 ISO              | 0.4  | 9.525                | 16 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                    | 16NR-0.45 ISO              | 16NL-0.45 ISO             | 0.45 | 9.525                | 16 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                    | 16NR-0.5 ISO               | 16NL-0.5 ISO              | 0.5  | 9.525                | 16 | 0.6 | 0.4 |        |        |        |        |
|                         |                                                                                    | 16NR-0.6 ISO               | 16NL-0.6 ISO              | 0.6  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 16NR-0.7 ISO               | 16NL-0.7 ISO              | 0.7  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 16NR-0.75 ISO              | 16NL-0.75 ISO             | 0.75 | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 16NR-0.8 ISO               | 16NL-0.8 ISO              | 0.8  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                    | 16NR-1.0 ISO               | 16NL-1.0 ISO              | 1.0  | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                    | 16NR-1.25 ISO              | 16NL-1.25 ISO             | 1.25 | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                    | 16NR-1.5 ISO               | 16NL-1.5 ISO              | 1.2  | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                    | 16NR-1.75 ISO              | 16NL-1.75 ISO             | 1.75 | 9.525                | 16 | 0.9 | 1.2 |        |        |        |        |
|                         |                                                                                    | 16NR-2.0 ISO               | 16NL-2.0 ISO              | 2.0  | 9.525                | 16 | 1.0 | 1.3 |        |        |        |        |
|                         |                                                                                    | 16NR-2.5 ISO               | 16NL-2.5 ISO              | 2.5  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                    | 16NR-3.0 ISO               | 16NL-3.0 ISO              | 3.0  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                    | 22NR-3.5 ISO               | 22NL-3.5 ISO              | 3.5  | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                    | 22NR-4.0 ISO               | 22NL-4.0 ISO              | 4.0  | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                    | 22NR-4.5 ISO               | 22NL-4.5 ISO              | 4.5  | 12.7                 | 22 | 1.6 | 2.4 |        |        |        |        |
|                         |                                                                                    | 22NR-5.0 ISO               | 22NL-5.0 ISO              | 5.0  | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                    | 27NR-5.5 ISO               | 27NL-5.5 ISO              | 5.5  | 15.875               | 27 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                    | 27NR-6.0 ISO               | 27NL-6.0 ISO              | 6.0  | 15.875               | 27 | 1.8 | 2.5 |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |                                                                                    |                            |                           |      |                      |    |     |     |        |        |        |        |



# 螺纹车削刀片

Threading inserts

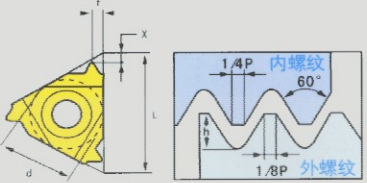
美制螺纹 American: UN,UNC,UNF,UNEF(适用于外螺纹刀杆)

| Type<br>类型              | Picture<br>图片 | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI  | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|---------------|----------------------------|---------------------------|------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |               |                            |                           |      | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |               | 11ER-72UN                  | 11EL-72UN                 | 72   | 6.35                 | 11 | 0.8 | 0.4 |        |        |        |        |
|                         |               | 11ER-64UN                  | 11EL-64UN                 | 64   | 6.35                 | 11 | 0.8 | 0.4 |        |        |        |        |
|                         |               | 11ER-56UN                  | 11EL-56UN                 | 56   | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |               | 11ER-48UN                  | 11EL-48UN                 | 48   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11ER-44UN                  | 11EL-44UN                 | 44   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11ER-40UN                  | 11EL-40UN                 | 40   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11ER-36UN                  | 11EL-36UN                 | 36   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11ER-32UN                  | 11EL-32UN                 | 32   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11ER-28UN                  | 11EL-28UN                 | 28   | 6.35                 | 11 | 0.6 | 0.7 |        |        |        |        |
|                         |               | 11ER-27UN                  | 11EL-27UN                 | 27   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 11ER-24UN                  | 11EL-24UN                 | 24   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 11ER-20UN                  | 11EL-20UN                 | 20   | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |               | 11ER-18UN                  | 11EL-18UN                 | 18   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 11ER-16UN                  | 11EL-16UN                 | 16   | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |               | 11ER-14UN                  | 11EL-14UN                 | 14   | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |               | 16ER-72UN                  | 16EL-72UN                 | 72   | 9.525                | 16 | 0.8 | 0.4 |        |        |        |        |
|                         |               | 16ER-64UN                  | 16EL-64UN                 | 64   | 9.525                | 16 | 0.8 | 0.4 |        |        |        |        |
|                         |               | 16ER-56UN                  | 16EL-56UN                 | 56   | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |               | 16ER-48UN                  | 16EL-48UN                 | 48   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16ER-44UN                  | 16EL-44UN                 | 44   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16ER-40UN                  | 16EL-40UN                 | 40   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16ER-36UN                  | 16EL-36UN                 | 36   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16ER-32UN                  | 16EL-32UN                 | 32   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16ER-28UN                  | 16EL-28UN                 | 28   | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |               | 16ER-27UN                  | 16EL-27UN                 | 27   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 16ER-24UN                  | 16EL-24UN                 | 24   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 16ER-20UN                  | 16EL-20UN                 | 20   | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |               | 16ER-18UN                  | 16EL-18UN                 | 18   | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16ER-16UN                  | 16EL-16UN                 | 16   | 9.525                | 16 | 0.9 | 1.1 |        |        |        |        |
|                         |               | 16ER-14UN                  | 16EL-14UN                 | 14   | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |               | 16ER-13UN                  | 16EL-13UN                 | 13   | 9.525                | 16 | 1.0 | 1.3 |        |        |        |        |
|                         |               | 16ER-12UN                  | 16EL-12UN                 | 12   | 9.525                | 16 | 1.1 | 1.4 |        |        |        |        |
|                         |               | 16ER-11.5UN                | 16EL-11.5UN               | 11.5 | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |               | 16ER-11UN                  | 16EL-11UN                 | 11   | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |               | 16ER-10UN                  | 16EL-10UN                 | 10   | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |               | 16ER-9UN                   | 16EL-9UN                  | 9    | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |               | 16ER-8UN                   | 16EL-8UN                  | 8    | 9.525                | 16 | 1.2 | 1.6 |        |        |        |        |
|                         |               | 22ER-7UN                   | 22EL-7UN                  | 7    | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |               | 22ER-6UN                   | 22EL-6UN                  | 6    | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |               | 22ER-5UN                   | 22EL-5UN                  | 5    | 12.7                 | 22 | 1.7 | 2.5 |        |        |        |        |
|                         |               | 27ER-4.5UN                 | 27EL-4.5UN                | 4.5  | 15.875               | 27 | 1.9 | 2.7 |        |        |        |        |
|                         |               | 27ER-4UN                   | 27EL-4UN                  | 4    | 15.875               | 27 | 2.1 | 3.0 |        |        |        |        |
|                         |               |                            |                           |      |                      |    |     |     |        |        |        |        |
|                         |               |                            |                           |      |                      |    |     |     |        |        |        |        |





美制螺纹 American: UN,UNC,UNF,UNEF(适用于内螺纹刀杆系列)

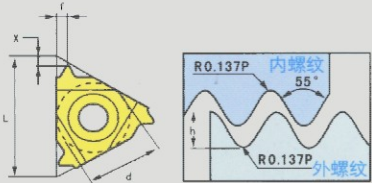
| Type<br>类型              | Picture<br>图片                                                                       | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI  | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------|------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                     |                            |                           |      | d                    | L  | X   | f   |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-72UN                  | 11NL-72UN                 | 72   | 6.35                 | 11 | 0.8 | 0.3 |        |        |        |        |
|                         |                                                                                     | 11NR-64UN                  | 11NL-64UN                 | 64   | 6.35                 | 11 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11NR-56UN                  | 11NL-56UN                 | 56   | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11NR-48UN                  | 11NL-48UN                 | 48   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-44UN                  | 11NL-44UN                 | 44   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-40UN                  | 11NL-40UN                 | 40   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-36UN                  | 11NL-36UN                 | 36   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-32UN                  | 11NL-32UN                 | 32   | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-28UN                  | 11NL-28UN                 | 28   | 6.35                 | 11 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 11NR-27UN                  | 11NL-27UN                 | 27   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 11NR-24UN                  | 11NL-24UN                 | 24   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 11NR-20UN                  | 11NL-20UN                 | 20   | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 11NR-18UN                  | 11NL-18UN                 | 18   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 11NR-16UN                  | 11NL-16UN                 | 16   | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 11NR-14UN                  | 11NL-14UN                 | 14   | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 11NR-12UN                  | 11NL-12UN                 | 12   | 6.35                 | 11 | 0.8 | 1.1 |        |        |        |        |
|                         |                                                                                     | 11NR-11UN                  | 11NL-11UN                 | 11   | 6.35                 | 11 | 0.8 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16NR-72UN                  | 16NL-72UN                 | 72   | 9.525                | 16 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16NR-64UN                  | 16NL-64UN                 | 64   | 9.525                | 16 | 0.8 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16NR-56UN                  | 16NL-56UN                 | 56   | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16NR-48UN                  | 16NL-48UN                 | 48   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-44UN                  | 16NL-44UN                 | 44   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-40UN                  | 16NL-40UN                 | 40   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-36UN                  | 16NL-36UN                 | 36   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-32UN                  | 16NL-32UN                 | 32   | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-28UN                  | 16NL-28UN                 | 28   | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 16NR-27UN                  | 16NL-27UN                 | 27   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 16NR-24UN                  | 16NL-24UN                 | 24   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 16NR-20UN                  | 16NL-20UN                 | 20   | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16NR-18UN                  | 16NL-18UN                 | 18   | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 16NR-16UN                  | 16NL-16UN                 | 16   | 9.525                | 16 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16NR-14UN                  | 16NL-14UN                 | 14   | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16NR-13UN                  | 16NL-13UN                 | 13   | 9.525                | 16 | 1.0 | 1.3 |        |        |        |        |
|                         |                                                                                     | 16NR-12UN                  | 16NL-12UN                 | 12   | 9.525                | 16 | 1.1 | 1.4 |        |        |        |        |
|                         |                                                                                     | 16NR-11.5UN                | 16NL-11.5UN               | 11.5 | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16NR-11UN                  | 16NL-11UN                 | 11   | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16NR-10UN                  | 16NL-10UN                 | 10   | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16NR-9UN                   | 16NL-9UN                  | 9    | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 16NR-8UN                   | 16NL-8UN                  | 8    | 9.525                | 16 | 1.2 | 1.5 |        |        |        |        |
|                         |                                                                                     | 22NR-7UN                   | 22NL-7UN                  | 7    | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22NR-6UN                   | 22NL-6UN                  | 6    | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22NR-5UN                   | 22NL-5UN                  | 5    | 12.7                 | 22 | 1.7 | 2.3 |        |        |        |        |
|                         |                                                                                     | 27NR-4.5UN                 | 27NL-4.5UN                | 4.5  | 15.875               | 27 | 1.9 | 2.4 |        |        |        |        |
|                         |                                                                                     | 27NR-4UN                   | 27NL-4UN                  | 4    | 15.875               | 27 | 2.1 | 2.7 |        |        |        |        |



# 螺纹车削刀片

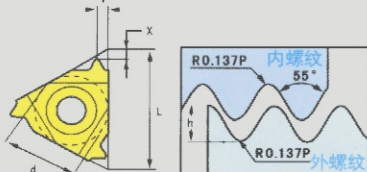
Threading inserts

## 惠氏螺纹 Whitworth:BSW,BSF,BSP (适用于外螺纹刀杆系列)

| Type<br>类型              | Picture<br>图片                                                                       | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------|-----|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                     |                            |                           |     | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |  | 11ER-72W                   | 11EL-72W                  | 72  | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11ER-64W                   | 11EL-64W                  | 64  | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11ER-56W                   | 11EL-56W                  | 56  | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11ER-48W                   | 11EL-48W                  | 48  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11ER-40W                   | 11EL-40W                  | 40  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11ER-36W                   | 11EL-36W                  | 36  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11ER-32W                   | 11EL-32W                  | 32  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11ER-28W                   | 11EL-28W                  | 28  | 6.35                 | 11 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 11ER-26W                   | 11EL-26W                  | 27  | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 11ER-24W                   | 11EL-24W                  | 24  | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 11ER-22W                   | 11EL-22W                  | 22  | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 11ER-20W                   | 11EL-20W                  | 20  | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 11ER-19W                   | 11EL-19W                  | 19  | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 11ER-18W                   | 11EL-18W                  | 18  | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 11ER-16W                   | 11EL-16W                  | 16  | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 11ER-14W                   | 11EL-14W                  | 14  | 6.35                 | 11 | 1.0 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16ER-72W                   | 16EL-72W                  | 72  | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16ER-60W                   | 16EL-60W                  | 60  | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16ER-56W                   | 16EL-56W                  | 56  | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16ER-48W                   | 16EL-48W                  | 48  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16ER-40W                   | 16EL-40W                  | 40  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16ER-36W                   | 16EL-36W                  | 36  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16ER-32W                   | 16EL-32W                  | 32  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16ER-30W                   | 16EL-30W                  | 30  | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 16ER-28W                   | 16EL-28W                  | 28  | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 16ER-26W                   | 16EL-26W                  | 26  | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 16ER-24W                   | 16EL-24W                  | 24  | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 16ER-22W                   | 16EL-22W                  | 22  | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16ER-20W                   | 16EL-20W                  | 20  | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16ER-19W                   | 16EL-19W                  | 19  | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 16ER-18W                   | 16EL-18W                  | 18  | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 16ER-16W                   | 16EL-16W                  | 16  | 9.525                | 16 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16ER-14W                   | 16EL-14W                  | 14  | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16ER-12W                   | 16EL-12W                  | 12  | 9.525                | 16 | 1.1 | 1.4 |        |        |        |        |
|                         |                                                                                     | 16ER-11W                   | 16EL-11W                  | 11  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16ER-10W                   | 16EL-10W                  | 10  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16ER-9W                    | 16EL-9W                   | 9   | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 16ER-8W                    | 16EL-8W                   | 8   | 9.525                | 16 | 1.2 | 1.5 |        |        |        |        |
|                         |                                                                                     | 22ER-7W                    | 22EL-7W                   | 7   | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22ER-6W                    | 22EL-6W                   | 6   | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22ER-5W                    | 22EL-5W                   | 5   | 12.7                 | 22 | 1.7 | 2.4 |        |        |        |        |
|                         |                                                                                     | 27ER-4.5W                  | 27EL-4.5W                 | 4.5 | 15.875               | 27 | 1.8 | 2.6 |        |        |        |        |
|                         |                                                                                     | 27ER-4W                    | 27EL-4W                   | 4   | 15.875               | 27 | 2.0 | 2.9 |        |        |        |        |



惠氏螺纹 Whitworth:BSW,BSF,BSP (适用于内螺纹刀杆)

| Type<br>类型              | Picture<br>图片                                                                       | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------|-----|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                     |                            |                           |     | d                    | L  | X   | f   |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-72W                   | 11NL-72W                  | 72  | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11NR-64W                   | 11NL-64W                  | 64  | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11NR-56W                   | 11NL-56W                  | 56  | 6.35                 | 11 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 11NR-48W                   | 11NL-48W                  | 48  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-40W                   | 11NL-40W                  | 40  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-36W                   | 11NL-36W                  | 36  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-32W                   | 11NL-32W                  | 32  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 11NR-28W                   | 11NL-28W                  | 28  | 6.35                 | 11 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 11NR-26W                   | 11NL-26W                  | 27  | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 11NR-24W                   | 11NL-24W                  | 24  | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 11NR-22W                   | 11NL-22W                  | 22  | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 11NR-20W                   | 11NL-20W                  | 20  | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 11NR-19W                   | 11NL-19W                  | 19  | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 11NR-18W                   | 11NL-18W                  | 18  | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 11NR-16W                   | 11NL-16W                  | 16  | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 11NR-14W                   | 11NL-14W                  | 14  | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 11NR-12W                   | 11NL-12W                  | 12  | 6.35                 | 11 | 0.9 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16NR-72W                   | 16NL-72W                  | 72  | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16NR-60W                   | 16NL-60W                  | 60  | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16NR-56W                   | 16NL-56W                  | 56  | 9.525                | 16 | 0.7 | 0.4 |        |        |        |        |
|                         |                                                                                     | 16NR-48W                   | 16NL-48W                  | 48  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-40W                   | 16NL-40W                  | 40  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-36W                   | 16NL-36W                  | 36  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-32W                   | 16NL-32W                  | 32  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |                                                                                     | 16NR-30W                   | 16NL-30W                  | 30  | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 16NR-28W                   | 16NL-28W                  | 28  | 9.525                | 16 | 0.6 | 0.7 |        |        |        |        |
|                         |                                                                                     | 16NR-26W                   | 16NL-26W                  | 26  | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 16NR-24W                   | 16NL-24W                  | 24  | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |                                                                                     | 16NR-22W                   | 16NL-22W                  | 22  | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16NR-20W                   | 16NL-20W                  | 20  | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16NR-19W                   | 16NL-19W                  | 19  | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 16NR-18W                   | 16NL-18W                  | 18  | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |                                                                                     | 16NR-16W                   | 16NL-16W                  | 16  | 9.525                | 16 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16NR-14W                   | 16NL-14W                  | 14  | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16NR-12W                   | 16NL-12W                  | 12  | 9.525                | 16 | 1.1 | 1.4 |        |        |        |        |
|                         |                                                                                     | 16NR-11W                   | 16NL-11W                  | 11  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16NR-10W                   | 16NL-10W                  | 10  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16NR-9W                    | 16NL-9W                   | 9   | 9.525                | 16 | 1.2 | 1.7 |        |        |        |        |
|                         |                                                                                     | 16NR-8W                    | 16NL-8W                   | 8   | 9.525                | 16 | 1.2 | 1.5 |        |        |        |        |
|                         |                                                                                     | 22NR-7W                    | 22NL-7W                   | 7   | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22NR-6W                    | 22NL-6W                   | 6   | 12.7                 | 22 | 1.6 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22NR-5W                    | 22NL-5W                   | 5   | 12.7                 | 22 | 1.7 | 2.4 |        |        |        |        |
|                         |                                                                                     | 27NR-4.5W                  | 27NL-4.5W                 | 4.5 | 15.875               | 27 | 1.8 | 2.6 |        |        |        |        |
|                         |                                                                                     | 27NR-4W                    | 27NL-4W                   | 4   | 15.875               | 27 | 2.0 | 2.9 |        |        |        |        |





## 螺纹车削刀片

Threading inserts

### BSPT英制标准 British Standard Pipe Thread

| Type<br>类型              | Picture<br>图片 | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|---------------|----------------------------|---------------------------|-----|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |               |                            |                           |     | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |               | 11ER-28BSPT                | 11EL-28BSPT               | 28  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11ER-19BSPT                | 11EL-19BSPT               | 19  | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |               | 11ER-14BSPT                | 11EL-14BSPT               | 14  | 6.35                 | 11 | 0.9 | 1.0 |        |        |        |        |
|                         |               | 16ER-28BSPT                | 16EL-28BSPT               | 28  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16ER-19BSPT                | 16EL-19BSPT               | 19  | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |               | 16ER-14BSPT                | 16EL-14BSPT               | 14  | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |               | 16ER-11BSPT                | 16EL-11BSPT               | 11  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |               | 11NR-28BSPT                | 11NL-28BSPT               | 28  | 6.35                 | 11 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 11NR-19BSPT                | 11NL-19BSPT               | 19  | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |               | 11NR-14BSPT                | 11NL-14BSPT               | 14  | 6.35                 | 11 | 0.9 | 1.0 |        |        |        |        |
|                         |               | 16NR-28BSPT                | 16NL-28BSPT               | 28  | 9.525                | 16 | 0.6 | 0.6 |        |        |        |        |
|                         |               | 16NR-19BSPT                | 16NL-19BSPT               | 19  | 9.525                | 16 | 0.8 | 0.9 |        |        |        |        |
|                         |               | 16NR-14BSPT                | 16NL-14BSPT               | 14  | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |               | 16NR-11BSPT                | 16NL-11BSPT               | 11  | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |

### 美制60° 锥管螺纹 National Pipe Thread:NPT

| Type<br>类型              | Picture<br>图片 | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI  | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|---------------|----------------------------|---------------------------|------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |               |                            |                           |      | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |               | 11ER-27NPT                 | 11EL-27NPT                | 27   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 11ER-18NPT                 | 11EL-18NPT                | 18   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 11ER-14NPT                 | 11EL-14NPT                | 14   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16ER-28NPT                 | 16EL-28NPT                | 27   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 16ER-18NPT                 | 16EL-18NPT                | 18   | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16ER-14NPT                 | 16EL-14NPT                | 14   | 9.525                | 16 | 0.9 | 1.2 |        |        |        |        |
|                         |               | 16ER-11.5NPT               | 16EL-11.5NPT              | 11.5 | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |               | 16ER-8NPT                  | 16EL-8NPT                 | 8    | 9.525                | 16 | 1.3 | 1.8 |        |        |        |        |
|                         |               | 11NR-27NPT                 | 11NL-27NPT                | 27   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 11NR-18NPT                 | 11NL-18NPT                | 18   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 11NR-14NPT                 | 11NL-14NPT                | 14   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16NR-28SPT                 | 16NL-28SPT                | 27   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 16NR-18NPT                 | 16NL-18NPT                | 18   | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16NR-14NPT                 | 16NL-14NPT                | 14   | 9.525                | 16 | 0.9 | 1.2 |        |        |        |        |
|                         |               | 16NR-11.5NPT               | 16NL-11.5NPT              | 11.5 | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |               | 16NR-8NPT                  | 16NL-8NPT                 | 8    | 9.525                | 16 | 1.3 | 1.8 |        |        |        |        |

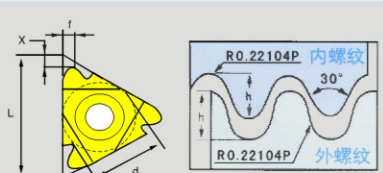
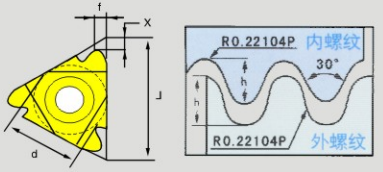
### 美制干密封直管螺纹 National Pipe Thread-Dryseal: NPTF

| Type<br>类型              | Picture<br>图片 | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI  | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|---------------|----------------------------|---------------------------|------|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |               |                            |                           |      | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |               | 11ER-27NPT                 | 11EL-27NPT                | 27   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 11ER-18NPT                 | 11EL-18NPT                | 18   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 11ER-14NPT                 | 11EL-14NPT                | 14   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16ER-28NPT                 | 16EL-28NPT                | 27   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 16ER-18NPT                 | 16EL-18NPT                | 18   | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16ER-14NPT                 | 16EL-14NPT                | 14   | 9.525                | 16 | 0.9 | 1.2 |        |        |        |        |
|                         |               | 16ER-11.5NPT               | 16EL-11.5NPT              | 11.5 | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |               | 16ER-8NPT                  | 16EL-8NPT                 | 8    | 9.525                | 16 | 1.3 | 1.8 |        |        |        |        |
|                         |               | 11NR-27NPT                 | 11NL-27NPT                | 27   | 6.35                 | 11 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 11NR-18NPT                 | 11NL-18NPT                | 18   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 11NR-14NPT                 | 11NL-14NPT                | 14   | 6.35                 | 11 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16NR-28NPT                 | 16NL-28NPT                | 27   | 9.525                | 16 | 0.7 | 0.8 |        |        |        |        |
|                         |               | 16NR-18NPT                 | 16NL-18NPT                | 18   | 9.525                | 16 | 0.8 | 1.0 |        |        |        |        |
|                         |               | 16NR-14NPT                 | 16NL-14NPT                | 14   | 9.525                | 16 | 0.9 | 1.2 |        |        |        |        |
|                         |               | 16NR-11.5NPT               | 16NL-11.5NPT              | 11.5 | 9.525                | 16 | 1.1 | 1.5 |        |        |        |        |
|                         |               | 16NR-8NPT                  | 16NL-8NPT                 | 8    | 9.525                | 16 | 1.3 | 1.8 |        |        |        |        |

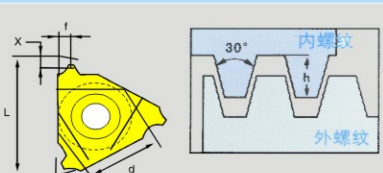
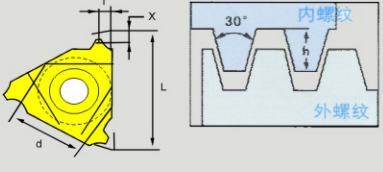




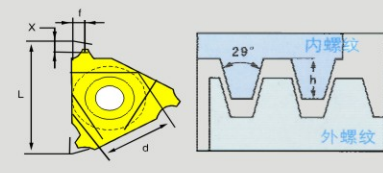
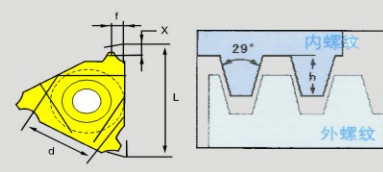
## DIN405圆齿螺纹 Round DIN405

| Type<br>类型              | Picture<br>图片                                                                     | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-----------------------------------------------------------------------------------|----------------------------|---------------------------|-----|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                   |                            |                           |     | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |  | 16ER-10R D                 | 16EL-10R D                | 10  | 9.525                | 16 | 1.1 | 1.2 |        |        |        |        |
|                         |                                                                                   | 16ER-8R D                  | 16EL-8R D                 | 8   | 9.525                | 16 | 1.4 | 1.3 |        |        |        |        |
|                         |                                                                                   | 16ER-6R D                  | 16EL-6R D                 | 6   | 9.525                | 16 | 1.5 | 1.7 |        |        |        |        |
|                         |                                                                                   | 22ER-6R D                  | 22EL-6R D                 | 6   | 12.7                 | 22 | 1.5 | 1.7 |        |        |        |        |
|                         |                                                                                   | 22ER-4R D                  | 22EL-4R D                 | 4   | 12.7                 | 22 | 2.2 | 2.3 |        |        |        |        |
|                         |                                                                                   | 27ER-4R D                  | 27EL-4R D                 | 4   | 15.875               | 27 | 2.2 | 2.3 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 16NR-10R D                 | 16NL-10R D                | 10  | 9.525                | 16 | 1.1 | 1.2 |        |        |        |        |
|                         |                                                                                   | 16NR-8R D                  | 16NL-8R D                 | 8   | 9.525                | 16 | 1.4 | 1.3 |        |        |        |        |
|                         |                                                                                   | 16NR-6R D                  | 16NL-6R D                 | 8   | 9.525                | 16 | 1.5 | 1.7 |        |        |        |        |
|                         |                                                                                   | 22NR-6R D                  | 22NL-6R D                 | 8   | 12.7                 | 22 | 1.5 | 1.7 |        |        |        |        |
|                         |                                                                                   | 22NR-4R D                  | 22NL-4R D                 | 6   | 12.7                 | 22 | 2.2 | 2.3 |        |        |        |        |
|                         |                                                                                   | 27NR-4R D                  | 27NL-4R D                 | 4   | 15.875               | 27 | 2.2 | 2.3 |        |        |        |        |

## DIN103梯形螺纹 Trapez DIN103

| Type<br>类型              | Picture<br>图片                                                                       | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------|-----|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                     |                            |                           |     | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |   | 11ER-1.5TR                 | 11EL-1.5TR                | 1.5 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16ER-1.5TR                 | 16EL-1.5TR                | 1.5 | 9.525                | 16 | 1.0 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16ER-2.0TR                 | 16EL-2.0TR                | 2.0 | 9.525                | 16 | 1.1 | 1.3 |        |        |        |        |
|                         |                                                                                     | 16ER-3.0TR                 | 16EL-3.0TR                | 3.0 | 9.525                | 16 | 1.3 | 1.5 |        |        |        |        |
|                         |                                                                                     | 22ER-4.0TR                 | 22EL-4.0TR                | 4.0 | 12.7                 | 22 | 1.7 | 1.9 |        |        |        |        |
|                         |                                                                                     | 22ER-5.0TR                 | 22EL-5.0TR                | 5.0 | 12.7                 | 22 | 2.1 | 2.5 |        |        |        |        |
|                         |                                                                                     | 27ER-6.0TR                 | 27EL-6.0TR                | 6.0 | 15.875               | 27 | 2.3 | 2.7 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-1.5TR                 | 11NL-1.5TR                | 1.5 | 6.35                 | 11 | 0.8 | 0.9 |        |        |        |        |
|                         |                                                                                     | 16NR-1.5TR                 | 16NL-1.5TR                | 1.5 | 9.525                | 16 | 1.0 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16NR-2.0TR                 | 16NL-2.0TR                | 2.0 | 9.525                | 16 | 1.1 | 1.3 |        |        |        |        |
|                         |                                                                                     | 16NR-2.5TR                 | 16NL-2.5TR                | 2.5 | 9.525                | 16 | 1.2 | 1.4 |        |        |        |        |
|                         |                                                                                     | 16NR-3.0TR                 | 16NL-3.0TR                | 3.0 | 9.525                | 16 | 1.3 | 1.5 |        |        |        |        |
|                         |                                                                                     | 22NR-4.0TR                 | 22NL-4.0TR                | 4.0 | 12.7                 | 22 | 1.7 | 1.9 |        |        |        |        |
|                         |                                                                                     | 22NR-5.0TR                 | 22NL-5.0TR                | 5.0 | 12.7                 | 22 | 2.1 | 2.5 |        |        |        |        |
|                         |                                                                                     | 27NR-6.0TR                 | 27NL-6.0TR                | 6.0 | 15.875               | 27 | 2.3 | 2.7 |        |        |        |        |

## 美式梯形螺纹ACME American ACME

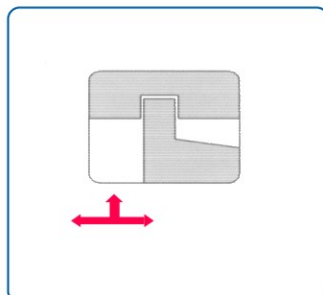
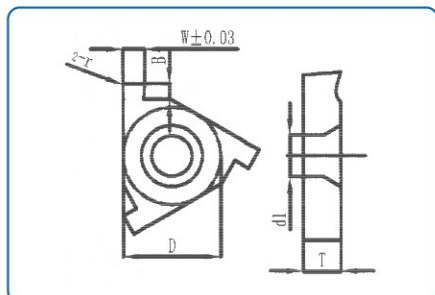
| Type<br>类型              | Picture<br>图片                                                                       | Designation型号<br>(right)右手 | Designation型号<br>(left)左手 | TPI | Dimensions(mm)<br>尺寸 |    |     |     | AS 300 | AC 100 | AL 200 | AT 500 |
|-------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------|-----|----------------------|----|-----|-----|--------|--------|--------|--------|
|                         |                                                                                     |                            |                           |     | d                    | L  | X   | f   |        |        |        |        |
| 外<br>螺<br>纹<br>External |  | 11ER-16ACME                | 11EL-16ACME               | 16  | 6.35                 | 11 | 1.0 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16ER-16ACME                | 16EL-16ACME               | 16  | 9.525                | 16 | 1.0 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16ER-14ACME                | 16EL-14ACME               | 14  | 9.525                | 16 | 1.0 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16ER-12ACME                | 16EL-12ACME               | 12  | 9.525                | 16 | 1.1 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16ER-10ACME                | 16EL-10ACME               | 10  | 9.525                | 16 | 1.3 | 1.4 |        |        |        |        |
|                         |                                                                                     | 16ER-8ACME                 | 16EL-8ACME                | 8   | 9.525                | 16 | 1.4 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16ER-6ACME                 | 16EL-6ACME                | 6   | 9.525                | 16 | 1.7 | 1.9 |        |        |        |        |
|                         |                                                                                     | 22ER-6ACME                 | 22EL-6ACME                | 6   | 12.7                 | 22 | 1.8 | 2.1 |        |        |        |        |
|                         |                                                                                     | 22ER-5ACME                 | 22EL-5ACME                | 5   | 12.7                 | 22 | 2.0 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22ER-4ACME                 | 22EL-4ACME                | 4   | 15.875               | 27 | 2.4 | 2.7 |        |        |        |        |
| 内<br>螺<br>纹<br>Internal |  | 11NR-16ACME                | 11NL-16ACME               | 16  | 6.35                 | 11 | 0.9 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16NR-16ACME                | 16NL-16ACME               | 16  | 9.525                | 16 | 1.0 | 1.1 |        |        |        |        |
|                         |                                                                                     | 16NR-14ACME                | 16NL-14ACME               | 14  | 9.525                | 16 | 1.1 | 1.2 |        |        |        |        |
|                         |                                                                                     | 16NR-12ACME                | 16NL-12ACME               | 12  | 9.525                | 16 | 1.2 | 1.3 |        |        |        |        |
|                         |                                                                                     | 16NR-10ACME                | 16NL-10ACME               | 10  | 9.525                | 16 | 1.2 | 1.3 |        |        |        |        |
|                         |                                                                                     | 16NR-8ACME                 | 16NL-8ACME                | 8   | 9.525                | 16 | 1.4 | 1.5 |        |        |        |        |
|                         |                                                                                     | 16NR-6ACME                 | 16NL-6ACME                | 6   | 9.525                | 16 | 1.7 | 1.9 |        |        |        |        |
|                         |                                                                                     | 22NR-6ACME                 | 22NL-6ACME                | 6   | 12.7                 | 22 | 1.8 | 2.1 |        |        |        |        |
|                         |                                                                                     | 22NR-5ACME                 | 22NL-5ACME                | 5   | 12.7                 | 22 | 2.0 | 2.3 |        |        |        |        |
|                         |                                                                                     | 22NR-4ACME                 | 22NL-4ACME                | 4   | 15.875               | 27 | 2.3 | 2.6 |        |        |        |        |



# 螺纹车削刀片

Threading inserts

平装外切槽刀片 Outside of the paper back slice slot razor blade



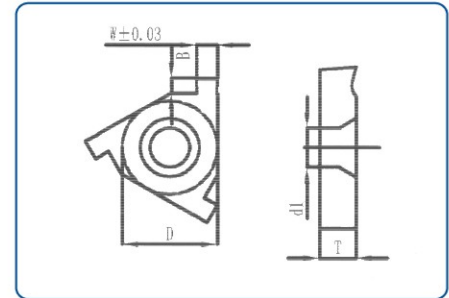
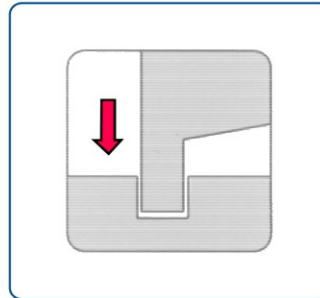
适用于右手(外螺纹刀杆、内螺纹反刀杆)  
Suitable for Right tool holders

| 刀片型号 Designation |        |      | 刀片尺寸 Dimension |      |      |                 |      |                                                                                       |
|------------------|--------|------|----------------|------|------|-----------------|------|---------------------------------------------------------------------------------------|
|                  |        |      | W              | B    | r    | D               | T    |                                                                                       |
| 标准型<br>standard  | 16PTGR | 033E | 0.33           | 1.30 | 0.05 | 9.525<br>(3/8") | 3.65 |  |
|                  | 16PTGR | 050E | 0.50           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 075E | 0.75           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 080E | 0.80           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 100E | 1.00           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 110E | 1.10           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 120E | 1.20           | 1.60 | 0.10 |                 |      |                                                                                       |
|                  | 16PTGR | 125E | 1.25           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 150E | 1.50           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 167E | 1.67           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 175E | 1.75           | 1.85 |      |                 |      |                                                                                       |
|                  | 16PTGR | 192E | 1.92           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 200E | 2.00           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 215E | 2.15           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 220E | 2.20           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 250E | 2.50           |      |      |                 |      |                                                                                       |
|                  | 16PTGR | 272E | 2.72           |      |      |                 |      |                                                                                       |
|                  |        |      |                |      |      |                 |      |                                                                                       |
|                  |        |      |                |      |      |                 |      |                                                                                       |
|                  |        |      |                |      |      |                 |      |                                                                                       |
|                  |        |      |                |      |      |                 |      |                                                                                       |
|                  |        |      |                |      |      |                 |      |                                                                                       |



平装内切槽刀片 Slice inside paper back Slot razor blade

适用于左手(内螺纹刀杆、外螺纹反刀杆)  
Suitable Inside outside knife pole



| 刀片型号 Designation |        |      | 刀片尺寸 Dimension |      |      |                |      |                                                                                       |                 |      |
|------------------|--------|------|----------------|------|------|----------------|------|---------------------------------------------------------------------------------------|-----------------|------|
|                  |        |      | W              | B    | r    | D              | T    |                                                                                       |                 |      |
| 标准型<br>standard  | 11PTGR | 100N | 1.00           | 0.70 | 0.05 | 6.35<br>(1/4") | 3.18 |  |                 |      |
|                  | 11PTGR | 117N | 1.17           |      |      |                |      |                                                                                       |                 |      |
|                  | 11PTGR | 137N | 1.37           | 1.50 | 0.10 |                |      |                                                                                       | 9.525<br>(3/8") | 3.65 |
|                  | 11PTGR | 167N | 1.67           |      |      |                |      |                                                                                       |                 |      |
|                  | 11PTGR | 192N | 1.92           | 1.80 |      |                |      |                                                                                       |                 |      |
|                  | 11PTGR | 220N | 2.20           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 033N | 0.33           | 1.20 | 0.05 |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 050N | 0.50           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 075N | 0.75           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 080N | 0.80           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 100N | 1.00           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 117N | 1.17           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 120N | 1.20           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 137N | 1.37           | 1.80 | 0.10 |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 150N | 1.50           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 167N | 1.67           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 175N | 1.75           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 192N | 1.92           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 200N | 2.00           | 2.20 |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 215N | 2.15           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 220N | 2.20           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 250N | 2.50           |      |      |                |      |                                                                                       |                 |      |
|                  | 16PTGR | 272N | 2.72           |      |      |                |      |                                                                                       |                 |      |

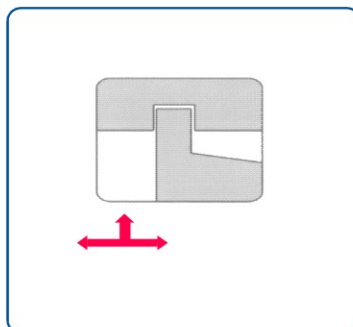
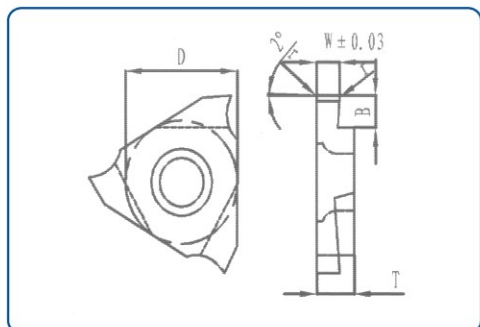




# 螺纹车削刀片

Threading inserts

## 可转位竖装切槽刀片 External Grooving Inserts



**E**适用于外径切槽

**N**适用于内径槽刀

| 刀片型号 Designation |        |        | 刀片尺寸 Dimension |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|------------------|--------|--------|----------------|---------------------------------------------------------------------------------------|------|-----------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                  |        |        | W              | B                                                                                     | r    | D               | T    |                                                                                       |                                                                                       |
| 标准型<br>standard  | 16JTGR | 033E/N | 0.33           | 0.80                                                                                  | 0.05 | 9.525<br>(3/8") | 3.18 |  |                                                                                       |
|                  | 16JTGR | 043E/N | 0.43           | 1.20                                                                                  |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 050E/N | 0.50           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 065E/N | 0.65           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 075E/N | 0.75           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 080E/N | 0.80           | 2.20                                                                                  | 0.10 |                 |      |                                                                                       |  |
|                  | 16JTGR | 085E/N | 0.85           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 090E/N | 0.90           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 095E/N | 0.95           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 100E/N | 1.00           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 110E/N | 1.10           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 115E/N | 1.15           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 120E/N | 1.20           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 125E/N | 1.25           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 130E/N | 1.30           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 135E/N | 1.35           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 140E/N | 1.40           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 145E/N | 1.45           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 150E/N | 1.50           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 155E/N | 1.55           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 160E/N | 1.60           |                                                                                       |      |                 |      |                                                                                       |                                                                                       |
|                  | 16JTGR | 165E/N | 1.65           |  |      |                 |      |                                                                                       |                                                                                       |



## 槽刀片 Slot razor blade

| 刀片型号 Designation |        | 刀片尺寸 Dimension |      |      |                 |      |                                                                                      |      |
|------------------|--------|----------------|------|------|-----------------|------|--------------------------------------------------------------------------------------|------|
|                  |        | W              | B    | r    | D               | T    |                                                                                      |      |
| 16JTGR           | 170E/N | 1.70           | 2.20 | 0.10 | 9.525<br>(3/8") | 3.18 |  |      |
| 16JTGR           | 175E/N | 1.75           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 180E/N | 1.80           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 190E/N | 1.90           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 195E/N | 1.95           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 200E/N | 2.00           | 2.70 |      |                 |      |                                                                                      | 0.15 |
| 16JTGR           | 220E/N | 2.20           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 225E/N | 2.25           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 240E/N | 2.40           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 250E/N | 2.50           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 270E/N | 2.70           |      |      |                 |      |                                                                                      |      |
| 16JTGR           | 275E/N | 2.75           | 3.20 | 0.15 |                 |      |                                                                                      |      |
| 22JTGR           | 150E/N | 1.50           | 3.50 |      |                 |      |                                                                                      |      |
| 22JTGR           | 175E/N | 1.75           | 3.70 |      |                 |      |                                                                                      |      |
| 22JTGR           | 200E/N | 2.00           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 230E/N | 2.30           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 250E/N | 2.50           | 4.20 | 0.25 |                 |      |                                                                                      |      |
| 22JTGR           | 265E/N | 2.65           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 280E/N | 2.80           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 300E/N | 3.00           |      | 5.00 | 0.30            |      |                                                                                      |      |
| 22JTGR           | 330E/N | 3.30           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 350E/N | 3.50           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 400E/N | 4.00           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 430E/N | 4.30           |      |      |                 |      |                                                                                      |      |
| 22JTGR           | 450E/N | 4.50           |      |      |                 |      |                                                                                      |      |
|                  |        |                |      |      |                 |      |                                                                                      |      |
|                  |        |                |      |      |                 |      |                                                                                      |      |
|                  |        |                |      |      |                 |      |                                                                                      |      |
|                  |        |                |      |      |                 |      |                                                                                      |      |
|                  |        |                |      |      |                 |      |                                                                                      |      |