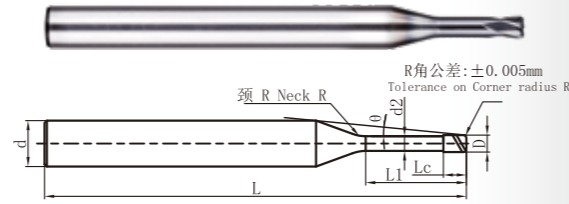


# UM-RN4

小径深加工4刃圆角头立铣刀  
4 flute, corner radius endmill for small diameter & deep machining



| 订货号<br>Ordering Code | 外径<br>(D)<br>Mill Dia. | 圆角<br>(R)<br>Corner Radius | 颈长<br>(L1)<br>Under Neck Length | 刃长<br>(Lc)<br>Flute Length | 颈径<br>(d2)<br>Neck Dia. | 全长<br>(L)<br>Overall Length | 柄径<br>(d)<br>Shank Dia. | 颈<br>(R)<br>Neck R | 干涉角<br>(Θ)<br>Interference Angle | 对应拔模角的有效颈长<br>The effective under-neck length for the various draft angles |    |      |    |     | 库存<br>Stock |
|----------------------|------------------------|----------------------------|---------------------------------|----------------------------|-------------------------|-----------------------------|-------------------------|--------------------|----------------------------------|--|----|------|----|-----|-------------|
|                      |                        |                            |                                 |                            |                         |                             |                         |                    |                                  | 0.5°   | 1° | 1.5° | 2° | 3°  |             |
|                      |                        |                            |                                 |                            |                         |                             |                         |                    |                                  | UM-RN4-100504  | 1  | 0.05 | 4  | 0.8 |             |

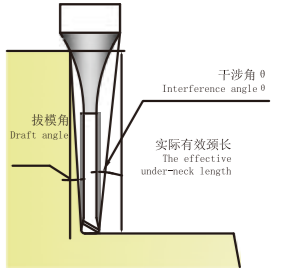
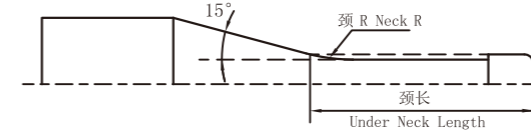
● 标准库存 Stock ○ 需预定 Available Upon Order

推荐切削参数P195

| 圆角R | 公差 Tol.     |
|-----|-------------|
| R   | ±0.005 (mm) |

# UM-RN4

小径深加工4刃圆角头立铣刀  
4 flute, corner radius endmill for small diameter & deep machining



| 订货号<br>Ordering Code | 外径<br>(D)<br>Mill Dia. | 圆角<br>(R)<br>Corner Radius | 颈长<br>(L1)<br>Under Neck Length | 刃长<br>(Lc)<br>Flute Length | 颈径<br>(d2)<br>Neck Dia. | 全长<br>(L)<br>Overall Length | 柄径<br>(d)<br>Shank Dia. | 颈<br>(R)<br>Neck R | 干涉角<br>(Θ)<br>Interference Angle | 对应拔模角的有效颈长<br>The effective under-neck length for the various draft angles |    |      |    |     | 库存<br>Stock |
|----------------------|------------------------|----------------------------|---------------------------------|----------------------------|-------------------------|-----------------------------|-------------------------|--------------------|----------------------------------|--|----|------|----|-----|-------------|
|                      |                        |                            |                                 |                            |                         |                             |                         |                    |                                  | 0.5°   | 1° | 1.5° | 2° | 3°  |             |
|                      |                        |                            |                                 |                            |                         |                             |                         |                    |                                  | UM-RN4-202030  | 2  | 0.2  | 30 | 1.6 |             |

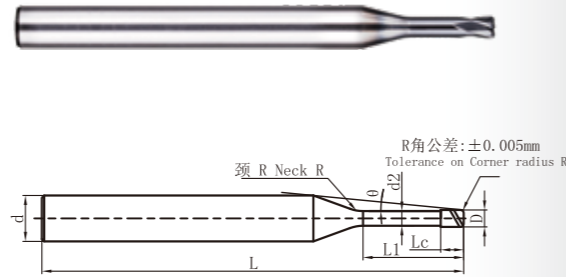
● 标准库存 Stock ○ 需预定 Available Upon Order

推荐切削参数P196

| 圆角R | 公差 Tol.     |
|-----|-------------|
| R   | ±0.005 (mm) |

# UM-RN4

小径深加工4刃圆角头立铣刀  
4 flute, corner radius endmill for small diameter & deep machining



| 订货号<br>Ordering Code | 外径 (D)<br>Mill Dia. | 圆角 (R)<br>Corner Radius | 颈长 (L1)<br>Under Neck Length | 刃长 (Lc)<br>Flute Length | 颈径 (d2)<br>Neck Dia. | 全长 (L)<br>Overall Length | 柄径 (d)<br>Shank Dia. | 颈 R<br>Neck R | 干涉角 (θ)<br>Interference Angle | 对应拔模角的有效颈长<br>The effective under-neck length for the various draft angles |       |       |       |       | 库存<br>Stock |   |   |   |   |   |   |   |
|----------------------|---------------------|-------------------------|------------------------------|-------------------------|----------------------|--------------------------|----------------------|---------------|-------------------------------|--|-------|-------|-------|-------|-------------|---|---|---|---|---|---|---|
|                      |                     |                         |                              |                         |                      |                          |                      |               |                               | 0.5°   | 1°    | 1.5°  | 2°    | 3°    |             |   |   |   |   |   |   |   |
| UM-RN4-305025        | 3                   | 0.5                     | 25                           | 2.4                     | 2.88                 | 70                       |                      |               | 2.85                          | 25.88  | 26.77 | 27.72 | 28.74 | -     | ●           |   |   |   |   |   |   |   |
| UM-RN4-305030        |                     |                         | 30                           |                         |                      | 2.45                     |                      |               | 31.05                         | 32.12  | 33.26 | 34.49 | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-305035        |                     |                         | 35                           |                         |                      | 2.14                     |                      |               | 36.22                         | 37.46  | 38.80 | 40.23 | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-401012        | 4                   | 0.1                     | 12                           | 3.2                     | 3.86                 | 60                       |                      |               | 3.66                          | 12.44  | 12.87 | 13.33 | 13.83 | 14.94 | ●           |   |   |   |   |   |   |   |
| UM-RN4-401020        |                     |                         | 20                           |                         |                      | 2.42                     |                      |               | 20.71                         | 21.43  | 22.20 | 23.03 | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-401030        |                     |                         | 30                           |                         |                      | 1.71                     |                      |               | 31.05                         | 32.12  | 33.28 | -     | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-401040        |                     |                         | 40                           |                         |                      | 1.32                     |                      |               | 41.38                         | 42.82  | -     | -     | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-402012        |                     |                         | 0.2                          |                         |                      | 12                       |                      |               | 3.68                          | 12.44  | 12.86 | 13.32 | 13.81 | 14.92 | ●           |   |   |   |   |   |   |   |
| UM-RN4-402020        |                     |                         |                              |                         |                      | 20                       |                      |               | 2.43                          | 20.71  | 21.42 | 22.19 | 23.01 | -     | ●           |   |   |   |   |   |   |   |
| UM-RN4-402030        |                     | 30                      |                              |                         |                      | 1.71                     |                      |               | 31.04                         | 32.12  | 33.27 | -     | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-402040        |                     | 40                      |                              |                         |                      | 1.32                     |                      |               | 41.38                         | 42.81  | -     | -     | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-403012        |                     | 0.3                     |                              |                         |                      | 12                       |                      |               | 3.70                          | 12.43  | 12.86 | 13.31 | 13.80 | 14.89 | ●           |   |   |   |   |   |   |   |
| UM-RN4-403020        |                     |                         |                              |                         |                      | 20                       |                      |               | 2.44                          | 20.70  | 21.41 | 22.18 | 23.00 | -     | ●           |   |   |   |   |   |   |   |
| UM-RN4-403030        |                     |                         | 30                           |                         |                      | 1.72                     |                      |               | 31.04                         | 32.11  | 33.26 | -     | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-403040        |                     |                         | 40                           |                         |                      | 1.32                     |                      |               | 41.38                         | 42.81  | -     | -     | -     | ●     |             |   |   |   |   |   |   |   |
| UM-RN4-405012        | 0.5                 |                         | 12                           | 3.75                    | 12.43                | 12.84                    | 13.29                | 13.77         | 14.84                         | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-405020        |                     |                         | 20                           | 2.47                    | 20.70                | 21.40                    | 22.15                | 22.97         | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-405030        |                     | 30                      | 1.73                         | 31.03                   | 32.10                | 33.24                    | -                    | -             | ●                             |  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-405040        |                     | 40                      | 1.33                         | 41.37                   | 42.79                | -                        | -                    | -             | ●                             |  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-501020        |                     | 5                       | 0.1                          | 20                      | 4                    | 4.85                     | 70                   | 6             | 4                             | 1.32   | 20.70 | 21.42 | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-501040        |                     |                         |                              | 40                      |                      |                          | 0.69                 |               |                               | 41.38  | -     | -     | -     | -     | ●           |   |   |   |   |   |   |   |
| UM-RN4-502020        | 0.2                 |                         |                              | 20                      |                      |                          | 1.32                 |               |                               | 20.70  | 21.41 | -     | -     | -     | ●           |   |   |   |   |   |   |   |
| UM-RN4-502040        |                     |                         |                              | 40                      |                      |                          | 0.69                 |               |                               | 41.37  | -     | -     | -     | -     | ●           |   |   |   |   |   |   |   |
| UM-RN4-503020        |                     |                         |                              | 0.3                     |                      |                          | 20                   |               |                               | 1.33   | 20.69 | 21.41 | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-503040        |                     |                         |                              |                         |                      |                          | 40                   |               |                               | 0.69   | 41.37 | -     | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-505020        |                     |                         | 0.5                          |                         |                      |                          | 20                   |               |                               | 1.34   | 20.69 | 21.39 | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-505040        |                     |                         |                              |                         |                      |                          | 40                   |               |                               | 0.70   | 41.36 | -     | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-50A020        | 1                   |                         |                              |                         |                      |                          | 20                   |               |                               | 1.38   | 20.67 | 21.36 | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-50A040        |                     |                         |                              |                         |                      |                          | 40                   |               |                               | 0.71   | 41.34 | -     | -     | -     | -           | ● |   |   |   |   |   |   |
| UM-RN4-602030        |                     |                         |                              | 6                       |                      |                          | 0.2                  |               |                               | 30   | 4     | 4.85  | 80    |       |             | - | - | - | - | - | - | ● |
| UM-RN4-602054        |                     |                         |                              |                         |                      |                          |                      |               |                               | 54   |       |       | -     |       |             | - | - | - | - | - | ● |   |
| UM-RN4-602072        |                     | 72                      | -                            |                         | -                    | -                        |                      | -             | -                             | -  |       |       | ●     |       |             |   |   |   |   |   |   |   |
| UM-RN4-603030        |                     | 0.3                     | 30                           |                         | -                    | -                        |                      | -             | -                             | -  |       |       | ●     |       |             |   |   |   |   |   |   |   |
| UM-RN4-603054        | 54                  |                         | -                            |                         | -                    | -                        |                      | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-603072        | 72                  |                         | -                            |                         | -                    | -                        |                      | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-605030        | 0.5                 |                         | 30                           |                         | -                    | -                        | -                    | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-605054        |                     |                         | 54                           |                         | -                    | -                        | -                    | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-605072        |                     |                         | 72                           |                         | -                    | -                        | -                    | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-60A030        |                     | 1                       | 30                           |                         | -                    | -                        | -                    | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-60A054        |                     |                         | 54                           |                         | -                    | -                        | -                    | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |
| UM-RN4-60A072        |                     |                         | 72                           |                         | -                    | -                        | -                    | -             | -                             | ●  |       |       |       |       |             |   |   |   |   |   |   |   |

● 标准库存 Stock ○ 需预定 Available Upon Order

推荐切削参数P197

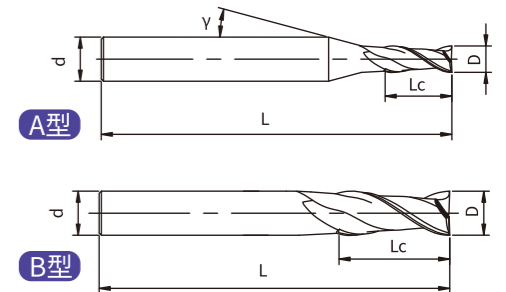
| 圆角R | 公差 Tol.     |
|-----|-------------|
| R   | ±0.005 (mm) |

# E系列

经济型通用加工立铣刀  
E series economic endmill for general machining

## EA-S2

2刃平头铝合金加工立铣刀  
2 flute, square endmill for aluminium alloys general machining



| 订货号<br>Ordering Code | 外径(D)<br>Mill Dia. | 刃长(Lc)<br>Flute Length | 全长(L)<br>Overall Length | 柄径(d)<br>Shank Dia. | 型号<br>Type | 库存<br>Stock |
|----------------------|--------------------|------------------------|-------------------------|---------------------|------------|-------------|
| EA-S2-01003          | 1                  | 3                      | 50                      | 4                   | A          | ●           |
| EA-S2-01504          | 1.5                | 4                      | 50                      | 4                   | A          | ●           |
| EA-S2-02006          | 2                  | 6                      | 50                      | 4                   | A          | ●           |
| EA-S2-03009          | 3                  | 9                      | 50                      | 4                   | A          | ●           |
| EA-S2-04011          | 4                  | 11                     | 50                      | 4                   | B          | ●           |
| EA-S2-63009          | 3                  | 9                      | 50                      | 6                   | A          | ○           |
| EA-S2-64011          | 4                  | 11                     | 50                      | 6                   | A          | ○           |
| EA-S2-05013          | 5                  | 13                     | 50                      | 6                   | A          | ●           |
| EA-S2-06016          | 6                  | 16                     | 50                      | 6                   | B          | ●           |

● 标准库存 Stock ○ 需预定 Available Upon Order

| 外径D    | 公差 Tol.        |
|--------|----------------|
| D ≤ 12 | 0 / -0.02 (mm) |

工件材料 Workpiece Materials

| 碳素钢<br>合金钢<br>Carbon steels<br>Alloy steels | 预硬化钢<br>Pre-hardened<br>steels<br><45HRC | 高硬材料<br>Hardened steels<br>45HRC-55HRC | 高硬材料<br>Hardened steels<br>55HRC-65HRC | 高硬材料<br>Hardened steels<br>>65HRC | 不锈钢<br>Stainless<br>steels | 钛合金<br>耐热合金<br>Ti alloy<br>Heat-resistant alloy | 铜合金<br>Copper<br>alloy | 铝合金<br>Aluminium<br>alloy |
|---|--|--|--|-----------------------------------|----------------------------|---|------------------------|---------------------------|
|   |  |  |  |                                   |                            |   | ○                      | ◎                         |

◎ 最适合 Most Suitable ○ 适合 Suitable