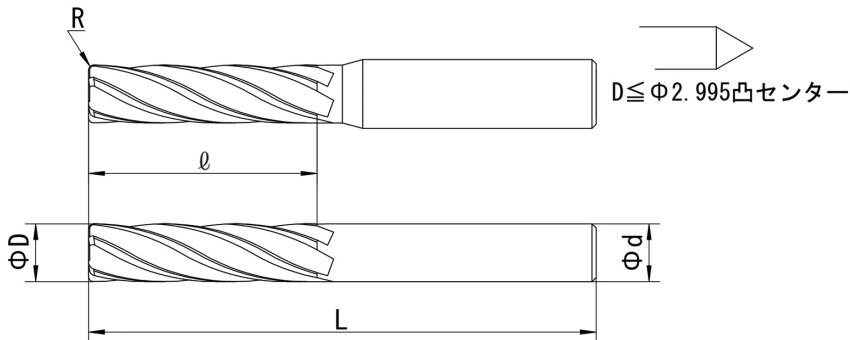
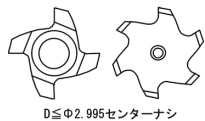


# CSUSR-A

# 超硬ステンレス用リーマ Carbide Solid Reamer for Stainless Steel-A Coated



右刃右ネジレ30° TiAlNコーティング 食付R K03  
Helix Angle-Right30° TiAlN Coating Shape of Chamfer-R Micro Grain Carbide

| 公差<br>(Tolerance) | D                                    |             |  |             |       |                  |       |                  |        | d                |         |                  |
|-------------------|--------------------------------------|-------------|--|-------------|-------|------------------|-------|------------------|--------|------------------|---------|------------------|
|                   | 0.01トビ <sup>*</sup><br>increment0.01 | +0.005<br>0 | 0.005トビ <sup>*</sup><br>increment0.005 | +0.005<br>0 | 0.5~3 | +0.007<br>+0.002 | 3.1~6 | +0.009<br>+0.004 | 6.1~10 | +0.012<br>+0.006 | 10.1~12 | +0.015<br>+0.007 |

| 直径<br>(φD)<br>Dia. | 食付R<br>(R)<br>Chamfer R | 刃長<br>(ℓ)<br>Length<br>of Flutes | 全長<br>(L)<br>Overall<br>Length | シャンク径<br>(φd)<br>Shank<br>Dia. | 刃数<br>(N)<br>Number<br>of Flutes | センタ<br>Center |
|--------------------|-------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------|
| 0.5                | 0.1                     | 6                                | 50                             | 3                              | 4                                | -             |
| 0.6 ~ 0.7          | 0.1                     | 8                                | 50                             | 3                              | 4                                | -             |
| 0.8                | 0.1                     | 12                               | 50                             | 3                              | 4                                | -             |
| 0.9 ~ 1            | 0.2                     | 12                               | 50                             | 3                              | 4                                | -             |
| 1.1 ~ 1.3          | 0.2                     | 15                               | 50                             | 3                              | 4                                | -             |
| 1.4 ~ 1.5          | 0.2                     | 16                               | 50                             | 3                              | 4                                | -             |
| 1.6 ~ 2            | 0.2                     | 18                               | 50                             | 3                              | 4                                | -             |
| 2.1 ~ 2.9          | 0.3                     | 20                               | 50                             | 3                              | 4                                | -             |
| 3 ~ 3.9            | 0.3                     | 27                               | 60                             | 3                              | 4                                | 60° 凹         |
| 4                  | 0.4                     | 27                               | 60                             | 3                              | 4                                | 60° 凹         |

| 直径<br>(φD)<br>Dia. | 食付R<br>(R)<br>Chamfer R | 刃長<br>(ℓ)<br>Length<br>of Flutes | 全長<br>(L)<br>Overall<br>Length | シャンク径<br>(φd)<br>Shank<br>Dia. | 刃数<br>(N)<br>Number<br>of Flutes | センタ<br>Center |
|--------------------|-------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------|
| 4.1 ~ 4.9          | 0.4                     | 30                               | 70                             | 4                              | 6                                | 60° 凹         |
| 5                  | 0.5                     | 30                               | 70                             | 4                              | 6                                | 60° 凹         |
| 5.1 ~ 5.5          | 0.5                     | 30                               | 80                             | 4                              | 6                                | 60° 凹         |
| 5.6 ~ 6            | 0.5                     | 30                               | 80                             | 6                              | 6                                | 60° 凹         |
| 6.1 ~ 7.4          | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |
| 7.5 ~ 8            | 0.5                     | 35                               | 90                             | 8                              | 6                                | 60° 凹         |
| 8.1 ~ 9.4          | 0.5                     | 40                               | 90                             | 8                              | 6                                | 60° 凹         |
| 9.5 ~ 11           | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 11.1 ~ 11.4        | 0.5                     | 45                               | 100                            | 10                             | 6                                | 60° 凹         |
| 11.5 ~ 12          | 0.5                     | 45                               | 100                            | 12                             | 6                                | 60° 凹         |

0.1トビ

| 直径<br>(φD)<br>Dia. | 食付R<br>(T)<br>Chamfer R | 刃長<br>(ℓ)<br>Length<br>of Flutes | 全長<br>(L)<br>Overall<br>Length | シャンク径<br>(φd)<br>Shank<br>Dia. | 刃数<br>(N)<br>Number<br>of Flutes | センタ<br>Center |
|--------------------|-------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------|
| 0.51 ~ 0.69        | 0.1                     | 8                                | 50                             | 3                              | 4                                | -             |
| 0.71 ~ 0.79        | 0.1                     | 12                               | 50                             | 3                              | 4                                | -             |
| 0.81 ~ 0.99        | 0.2                     | 12                               | 50                             | 3                              | 4                                | -             |
| 1.01 ~ 1.29        | 0.2                     | 15                               | 50                             | 3                              | 4                                | -             |
| 1.31 ~ 1.49        | 0.2                     | 16                               | 50                             | 3                              | 4                                | -             |
| 1.51 ~ 1.99        | 0.2                     | 18                               | 50                             | 3                              | 4                                | -             |
| 2.01 ~ 2.09        | 0.2                     | 20                               | 50                             | 3                              | 4                                | -             |
| 2.11 ~ 2.89        | 0.3                     | 20                               | 50                             | 3                              | 4                                | -             |
| 2.91 ~ 2.99        | 0.3                     | 27                               | 60                             | 3                              | 4                                | -             |
| 3.01 ~ 3.99        | 0.3                     | 27                               | 60                             | 3                              | 4                                | 60° 凹         |
| 4.01 ~ 4.99        | 0.4                     | 30                               | 70                             | 4                              | 6                                | 60° 凹         |
| 5.01 ~ 5.49        | 0.5                     | 30                               | 80                             | 4                              | 6                                | 60° 凹         |
| 5.51 ~ 5.99        | 0.5                     | 30                               | 80                             | 6                              | 6                                | 60° 凹         |

| 直径<br>(φD)<br>Dia. | 食付R<br>(T)<br>Chamfer R | 刃長<br>(ℓ)<br>Length<br>of Flutes | 全長<br>(L)<br>Overall<br>Length | シャンク径<br>(φd)<br>Shank<br>Dia. | 刃数<br>(N)<br>Number<br>of Flutes | センタ<br>Center |
|--------------------|-------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------|
| 6.01 ~ 6.49        | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |
| 6.51 ~ 6.99        | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |
| 7.01 ~ 7.49        | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |
| 7.51 ~ 7.99        | 0.5                     | 35                               | 90                             | 8                              | 6                                | 60° 凹         |
| 8.01 ~ 8.09        | 0.5                     | 35                               | 90                             | 8                              | 6                                | 60° 凹         |
| 8.11 ~ 8.99        | 0.5                     | 40                               | 90                             | 8                              | 6                                | 60° 凹         |
| 9.01 ~ 9.49        | 0.5                     | 40                               | 90                             | 8                              | 6                                | 60° 凹         |
| 9.51 ~ 9.99        | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 10.01 ~ 10.05      | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 10.95 ~ 10.99      | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 11.01 ~ 11.05      | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 11.95 ~ 11.99      | 0.5                     | 45                               | 100                            | 12                             | 6                                | 60° 凹         |
| 12.01 ~ 12.05      | 0.5                     | 45                               | 100                            | 12                             | 6                                | 60° 凹         |

0.01トビ

| 直径<br>(φD)<br>Dia. | 食付R<br>(T)<br>Chamfer R | 刃長<br>(ℓ)<br>Length<br>of Flutes | 全長<br>(L)<br>Overall<br>Length | シャンク径<br>(φd)<br>Shank<br>Dia. | 刃数<br>(N)<br>Number<br>of Flutes | センタ<br>Center |
|--------------------|-------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------|
| 0.955 ~ 0.995      | 0.2                     | 12                               | 50                             | 3                              | 4                                | -             |
| 1.005 ~ 1.045      | 0.2                     | 15                               | 50                             | 3                              | 4                                | -             |
| 1.955 ~ 1.995      | 0.2                     | 18                               | 50                             | 3                              | 4                                | -             |
| 2.005 ~ 2.045      | 0.2                     | 20                               | 50                             | 3                              | 4                                | -             |
| 2.955 ~ 2.995      | 0.3                     | 27                               | 60                             | 3                              | 4                                | -             |
| 3.005 ~ 3.045      | 0.3                     | 27                               | 60                             | 3                              | 4                                | 60° 凹         |
| 3.955 ~ 3.995      | 0.3                     | 27                               | 60                             | 3                              | 4                                | 60° 凹         |
| 4.005 ~ 4.045      | 0.4                     | 30                               | 70                             | 6                              | 4                                | 60° 凹         |
| 4.955 ~ 4.995      | 0.4                     | 30                               | 70                             | 6                              | 4                                | 60° 凹         |
| 5.005 ~ 5.045      | 0.5                     | 30                               | 80                             | 6                              | 4                                | 60° 凹         |
| 5.955 ~ 5.995      | 0.5                     | 30                               | 80                             | 6                              | 6                                | 60° 凹         |
| 6.005 ~ 6.045      | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |

| 直径<br>(φD)<br>Dia. | 食付R<br>(T)<br>Chamfer R | 刃長<br>(ℓ)<br>Length<br>of Flutes | 全長<br>(L)<br>Overall<br>Length | シャンク径<br>(φd)<br>Shank<br>Dia. | 刃数<br>(N)<br>Number<br>of Flutes | センタ<br>Center |
|--------------------|-------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------|
| 6.955 ~ 6.995      | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |
| 7.005 ~ 7.045      | 0.5                     | 35                               | 80                             | 6                              | 6                                | 60° 凹         |
| 7.955 ~ 7.995      | 0.5                     | 35                               | 90                             | 8                              | 6                                | 60° 凹         |
| 8.005 ~ 8.045      | 0.5                     | 35                               | 90                             | 8                              | 6                                | 60° 凹         |
| 8.955 ~ 8.995      | 0.5                     | 40                               | 90                             | 8                              | 6                                | 60° 凹         |
| 9.005 ~ 9.045      | 0.5                     | 40                               | 90                             | 8                              | 6                                | 60° 凹         |
| 9.955 ~ 9.995      | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 10.005 ~ 10.045    | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 10.955 ~ 10.995    | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 11.005 ~ 11.045    | 0.5                     | 40                               | 100                            | 10                             | 6                                | 60° 凹         |
| 11.955 ~ 11.995    | 0.5                     | 45                               | 100                            | 12                             | 6                                | 60° 凹         |
| 12.005 ~ 12.045    | 0.5                     | 45                               | 100                            | 12                             | 6                                | 60° 凹         |

0.005トビ

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