

THE NEW VALUE FRONTIER

京瓷 创造新价值



平头钻

2ZDK-HP

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# 2ZDK-HP

NEW

平头钻全新时代的到来!可在多种加工中实现稳定·高精度

在镗孔圆筒面加工中体现稳定性

特殊修磨抑制振刀

低阻力刀尖规格减少毛刺

特殊纳米涂层MEGACOAT NANO保证长寿命



平头钻

# 2ZDK-HP

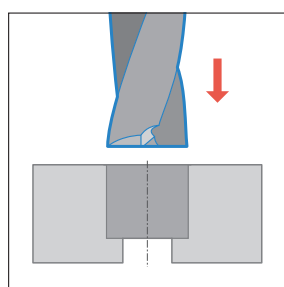
平头钻新时代的到来!特殊修磨在铰孔及圆筒面加工中体现高精度和稳定性。

低阻力刀尖抑制毛刺

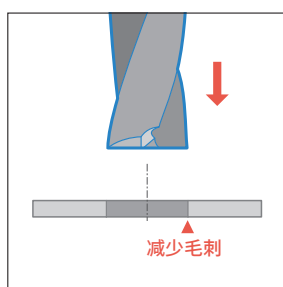
新时代平头钻2ZDK-HP在多种加工环境中体现高精度

1

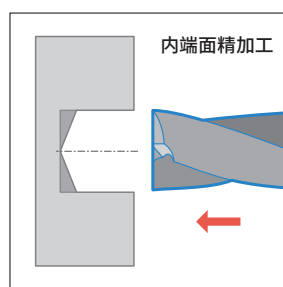
前端角180°平头钻适用于多种加工环境



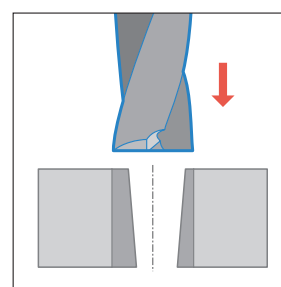
铰孔加工



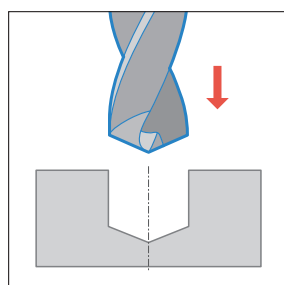
薄板插铣加工



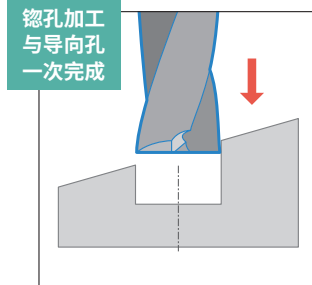
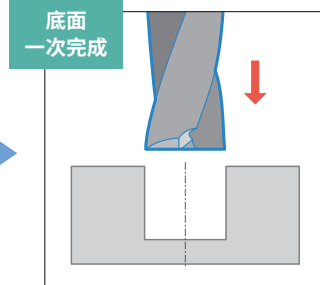
自动车床、车床加工



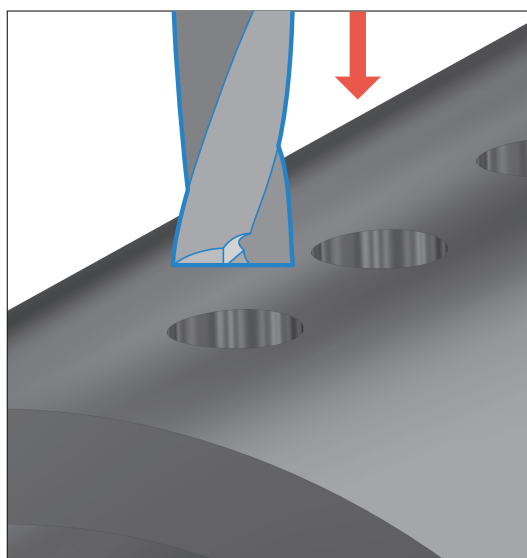
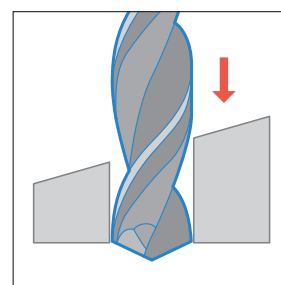
孔矫正



钻孔加工后底面精加工



斜面铰孔加工、导向孔加工



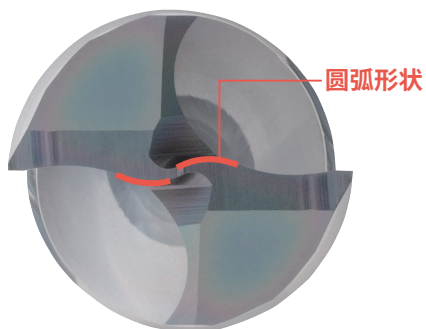
带前端角钻头难以加工的形状  
2ZDK-HP仍可进行高精度稳定孔加工

对圆筒面·曲面进行开孔加工

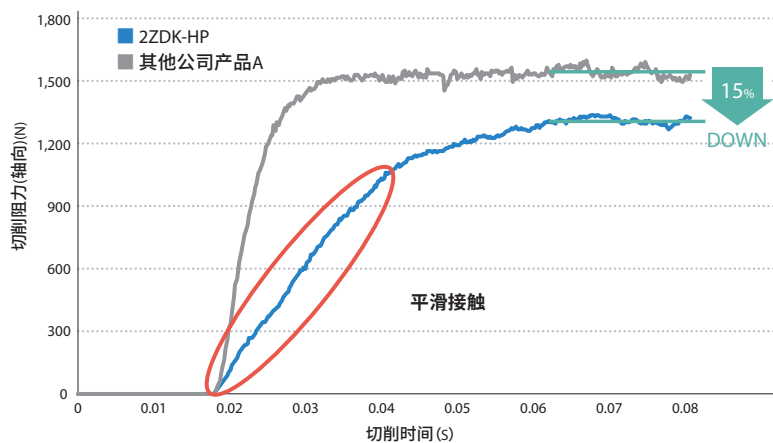
## 2 实现高精加工

实现低阻力圆弧形特殊修磨  
抑制工件接触瞬间的冲击, 以及振刀, 高精加工

### 特殊修磨形状



切削阻力对比 (本公司对比)

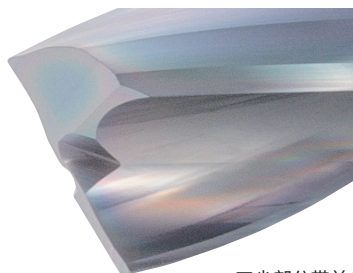


切削参数:  $n = 1,800 \text{ min}^{-1}$ ,  $V_f = 400 \text{ mm/min}$ , 加工深度 10 mm, Dry 加工直径  $\phi 12 \text{ mm}$  (3D型)  
被削材: S50C

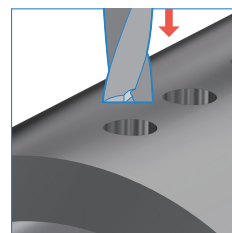
## 3 抑制毛刺

前端角  $180^\circ$  和锋利刀尖规格降低切削阻力  
抑制毛刺

刀尖形状降低切削阻力

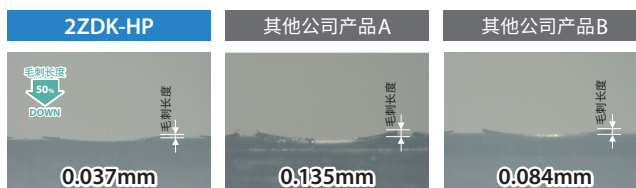


刀尖部分带前角



毛刺状态对比 (本公司对比)

对圆筒面的开孔加工

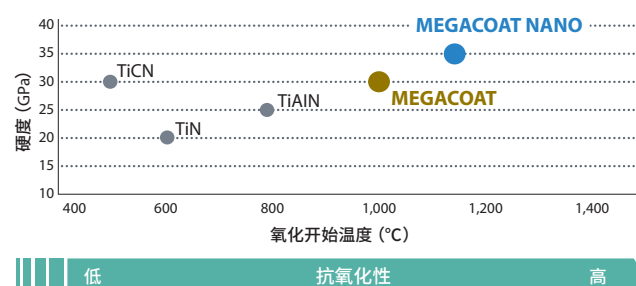


切削参数:  $n = 7,000 \text{ min}^{-1}$ ,  $V_f = 420 \text{ mm/min}$ , Wet 加工直径  $\phi 3.5 \text{ mm}$  (3D型)  
被削材: 碳钢管  $\phi 17.3 \text{ mm}$  (厚度 3.2 mm)

## 4 MEGACOAT NANO 保证长寿命

特殊纳米涂层、高硬度 (35GPa) 与优越的抗氧化性 (氧化开始温度:  $1,150^\circ\text{C}$ ) 可以抑制磨损、提高抗崩损性。

涂层特性

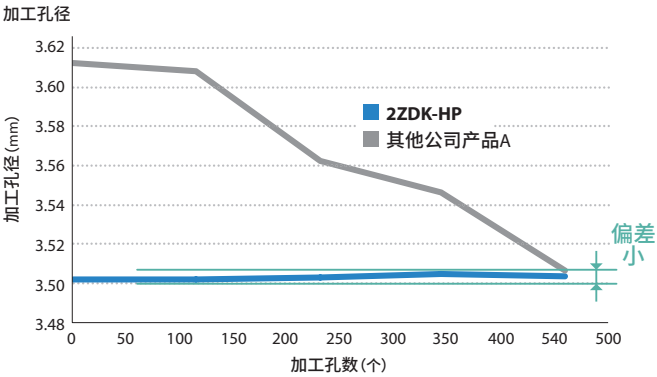


平面的开孔加工

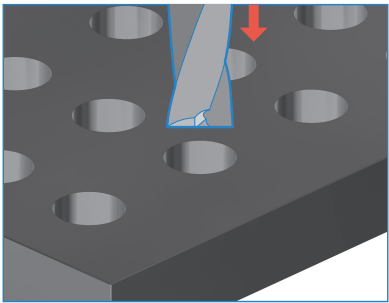
切削性能对比 (本公司对比)

加工径 :  $\phi 3.5\text{mm}$

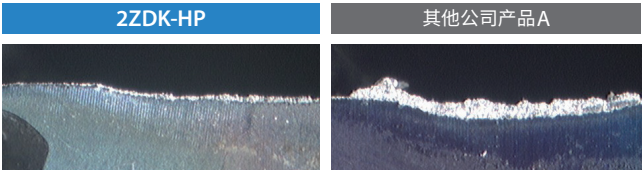
加工孔径偏差小、实现稳定・高精度加工  
刀尖状态良好



切削参数 :  $n = 6,000 \text{ min}^{-1}$ ,  $V_f = 360 \text{ mm/min}$ , 加工深度 5 mm, Wet  
加工直径  $\phi 3.5 \text{ mm}$  (3D型) 被削材 : SCM440



加工500孔后的刀尖状态

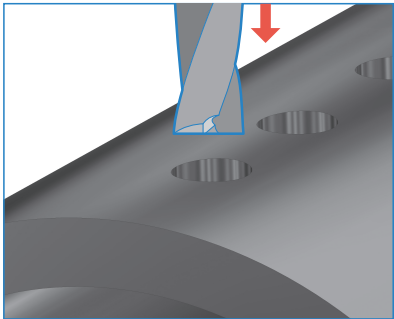
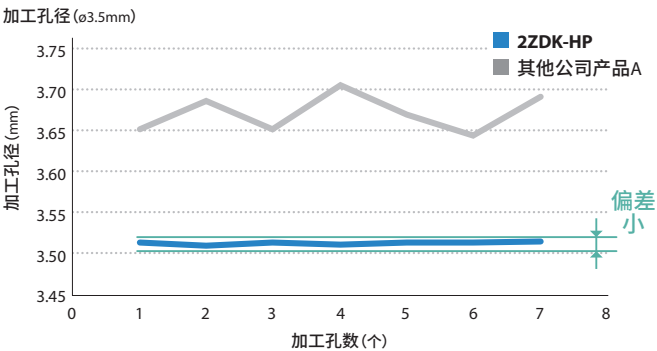


对圆筒面开孔加工

切削性能对比 (本公司对比)

加工径 :  $\phi 3.5\text{mm}$

加工孔径偏差小、实现稳定・高精度加工

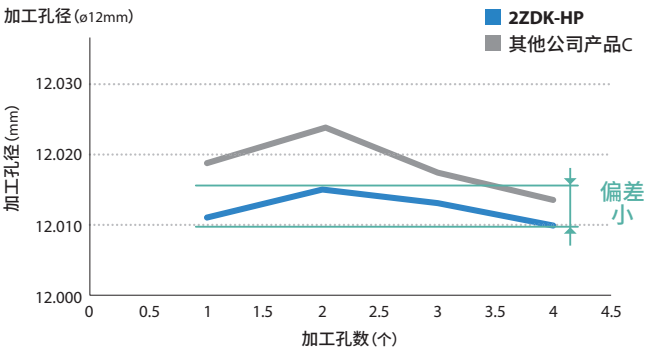


切削参数 :  $n = 7,000 \text{ min}^{-1}$ ,  $V_f = 420 \text{ mm/min}$ , Wet 加工直径  $\phi 3.5 \text{ mm}$  (3D型)  
被削材 : 碳钢管  $\phi 17.3 \text{ mm}$  (厚度 3.2 mm)

切削性能对比 (本公司对比)

加工径 :  $\phi 12\text{mm}$

$f = 0.3 \text{ mm/rev}$  加工参数下依然可以抑制加工直径的扩大  
实现无堵屑稳定加工

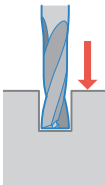


加工面・切屑状态



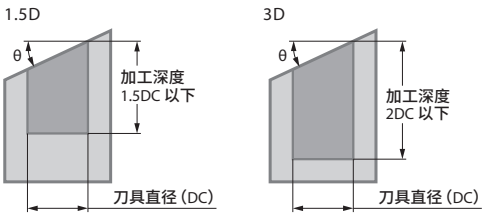
切削参数 :  $n = 1,800 \text{ min}^{-1}$ ,  $V_f = 540 \text{ mm/min}$ , Wet 加工直径  $\phi 12 \text{ mm}$  (3D型)  
被削材 : 碳钢管  $\phi 25 \text{ mm}$  (厚度 4 mm)

切削参数表

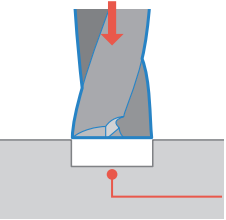
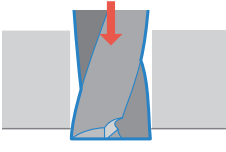
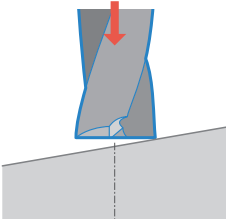
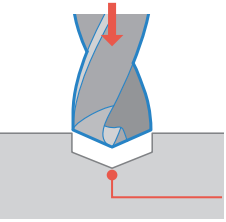
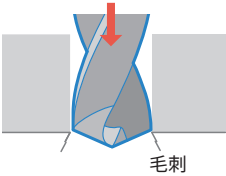
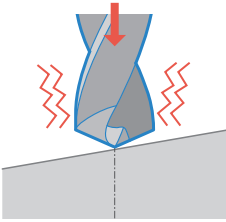
| 被削材                      | 加工区分                                                                                      | 深度<br>(mm)           | 外径 DC<br>(mm)           | 3      | 3.5    | 4      | 4.5    | 5      | 6     | 8     | 10    | 12    |
|--------------------------|-------------------------------------------------------------------------------------------|----------------------|-------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 一般结构钢、碳素钢<br>SS400, S45C | <br>插铣加工 | 1.5D :<br>ap ≤ 1.5DC | 转数 (min <sup>-1</sup> ) | 9,100  | 7,800  | 6,800  | 6,100  | 5,500  | 4,600 | 3,500 | 2,800 | 2,300 |
|                          |                                                                                           | 3D :<br>ap ≤ 2DC     | 进给 (mm/min)             | 520    | 520    | 520    | 520    | 520    | 520   | 520   | 520   | 520   |
| 合金钢<br>SCM, SNCM         |                                                                                           | 1.5D :<br>ap ≤ 1.5DC | 转数 (min <sup>-1</sup> ) | 7,200  | 6,200  | 5,400  | 4,800  | 4,400  | 3,600 | 2,700 | 2,200 | 1,800 |
|                          |                                                                                           | 3D :<br>ap ≤ 2DC     | 进给 (mm/min)             | 450    | 450    | 450    | 450    | 450    | 450   | 450   | 450   | 450   |
| 预硬钢<br>(30 ~ 45HRC)      |                                                                                           | 1.5D :<br>ap ≤ 1.5DC | 转数 (min <sup>-1</sup> ) | 3,900  | 3,400  | 2,900  | 2,600  | 2,300  | 1,900 | 1,500 | 1,200 | 1,000 |
|                          |                                                                                           | 3D :<br>ap ≤ 2DC     | 进给 (mm/min)             | 210    | 210    | 210    | 210    | 210    | 210   | 210   | 210   | 210   |
| 球墨铸铁<br>FCD400           |                                                                                           | 1.5D :<br>ap ≤ 1.5DC | 转数 (min <sup>-1</sup> ) | 7,200  | 6,200  | 5,400  | 4,800  | 4,400  | 3,600 | 2,700 | 2,200 | 1,800 |
|                          |                                                                                           | 3D :<br>ap ≤ 2DC     | 进给 (mm/min)             | 390    | 390    | 390    | 390    | 390    | 390   | 390   | 390   | 390   |
| 铝合金<br>A7075             |                                                                                           | 1.5D :<br>ap ≤ 1.5DC | 转数 (min <sup>-1</sup> ) | 17,800 | 15,200 | 13,100 | 11,800 | 10,500 | 8,900 | 6,700 | 5,400 | 4,500 |
|                          |                                                                                           | 3D :<br>ap ≤ 2DC     | 进给 (mm/min)             | 1,270  | 1,270  | 1,270  | 1,270  | 1,270  | 1,270 | 1,270 | 1,270 | 1,270 |
| 铝合金铸件<br>AC, ADC         |                                                                                           | 1.5D :<br>ap ≤ 1.5DC | 转数 (min <sup>-1</sup> ) | 13,100 | 11,500 | 10,000 | 8,800  | 8,000  | 6,700 | 5,000 | 4,000 | 3,400 |
|                          |                                                                                           | 3D :<br>ap ≤ 2DC     | 进给 (mm/min)             | 820    | 820    | 820    | 820    | 820    | 820   | 820   | 820   | 820   |

注意

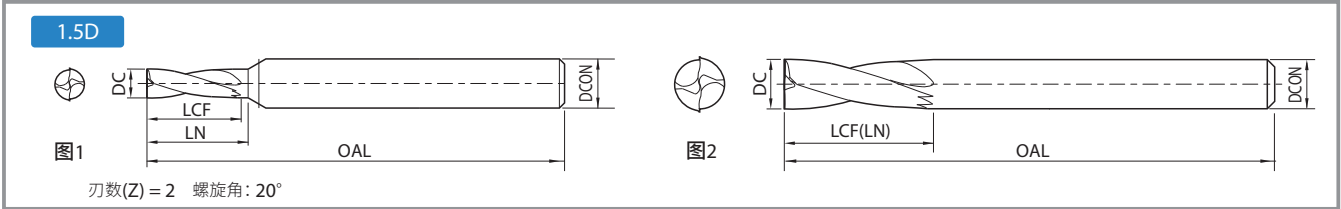
- 本刀具是插铣加工专用，无法进行横向加工
- 推荐使用切削油
- 根据机床刚性、刀具伸出量来调整切削参数
- 加工中心、夹具请尽量使用刚性高的产品
- 加工深度2D以上，推荐递进加工
- 不推荐加工不锈钢(SUS304・SUS316)
- 斜面加工时、有必要根据工件的倾斜角度来调整切削参数(右图)  
工件倾斜角( $\theta$ ) $\leq 30^\circ \Rightarrow$  请下调进给到50%以下  
工件倾斜角( $\theta$ ) $> 30^\circ \Rightarrow$  下调转数到70%以下，进给速度下调至30%以下



与一般钻头的对比

|         | 底面形状                                                                                              | 毛刺                                                                                           | 斜面加工                                                                                                    |
|---------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 2ZDK-HP | <br>几乎完全是平面    | <br>抑制毛刺  | <br>稳定加工<br>(降低进给) |
| 一般钻头    | <br>根据钻头前端角而不同 | <br>易产生毛刺 | <br>不稳定            |

产品系列 (1.5D)

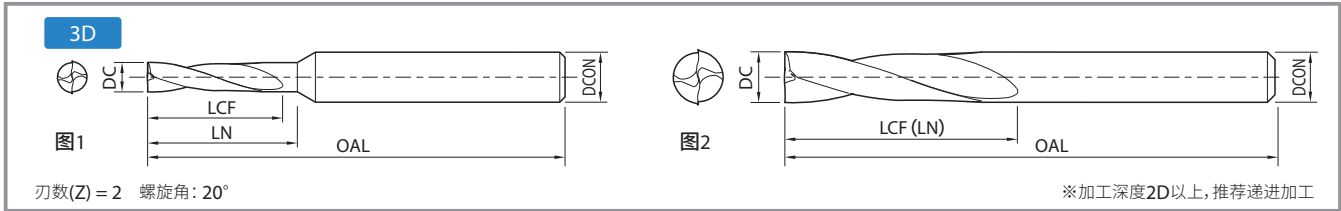


| 型号             | 库存 | 尺寸(mm) |                                                     |     |      |      |     | 形状 |
|----------------|----|--------|-----------------------------------------------------|-----|------|------|-----|----|
|                |    | DC     | 外径公差                                                | LCF | LN   | DCON | OAL |    |
| 2ZDK030HP-1.5D | ●  | 3.0    | $\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$ | 9   | 10   | 6    | 60  | 图1 |
| 2ZDK031HP-1.5D | ●  | 3.1    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 10  | 11   | 6    | 60  |    |
| 2ZDK032HP-1.5D | ●  | 3.2    |                                                     |     |      |      |     |    |
| 2ZDK033HP-1.5D | ●  | 3.3    |                                                     |     |      |      |     |    |
| 2ZDK034HP-1.5D | ●  | 3.4    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 11  | 12   | 6    | 60  | 图1 |
| 2ZDK035HP-1.5D | ●  | 3.5    |                                                     |     |      |      |     |    |
| 2ZDK036HP-1.5D | ●  | 3.6    |                                                     |     |      |      |     |    |
| 2ZDK037HP-1.5D | ●  | 3.7    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 12  | 13   | 6    | 60  |    |
| 2ZDK038HP-1.5D | ●  | 3.8    |                                                     |     |      |      |     |    |
| 2ZDK039HP-1.5D | ●  | 3.9    |                                                     |     |      |      |     |    |
| 2ZDK040HP-1.5D | ●  | 4.0    |                                                     |     |      |      |     |    |
| 2ZDK041HP-1.5D | ●  | 4.1    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 13  | 14   | 6    | 60  | 图1 |
| 2ZDK042HP-1.5D | ●  | 4.2    |                                                     |     |      |      |     |    |
| 2ZDK043HP-1.5D | ●  | 4.3    |                                                     |     |      |      |     |    |
| 2ZDK044HP-1.5D | ●  | 4.4    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 14  | 15   | 6    | 60  |    |
| 2ZDK045HP-1.5D | ●  | 4.5    |                                                     |     |      |      |     |    |
| 2ZDK046HP-1.5D | ●  | 4.6    |                                                     |     |      |      |     |    |
| 2ZDK047HP-1.5D | ●  | 4.7    |                                                     |     |      |      |     |    |
| 2ZDK048HP-1.5D | ●  | 4.8    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 15  | 16   | 6    | 60  | 图1 |
| 2ZDK049HP-1.5D | ●  | 4.9    |                                                     |     |      |      |     |    |
| 2ZDK050HP-1.5D | ●  | 5.0    |                                                     |     |      |      |     |    |
| 2ZDK051HP-1.5D | ●  | 5.1    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 16  | 17   | 6    | 60  |    |
| 2ZDK052HP-1.5D | ●  | 5.2    |                                                     |     |      |      |     |    |
| 2ZDK053HP-1.5D | ●  | 5.3    |                                                     |     |      |      |     |    |
| 2ZDK054HP-1.5D | ●  | 5.4    |                                                     |     |      |      |     |    |
| 2ZDK055HP-1.5D | ●  | 5.5    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 17  | 18   | 6    | 60  | 图1 |
| 2ZDK056HP-1.5D | ●  | 5.6    |                                                     |     |      |      |     |    |
| 2ZDK057HP-1.5D | ●  | 5.7    |                                                     |     |      |      |     |    |
| 2ZDK058HP-1.5D | ●  | 5.8    | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 18  | 19   | 6    | 60  |    |
| 2ZDK059HP-1.5D | ●  | 5.9    |                                                     |     |      |      |     |    |
| 2ZDK060HP-1.5D | ●  | 6.0    |                                                     |     |      |      |     |    |
| 2ZDK061HP-1.5D | ●  | 6.1    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 19  | (21) | 6    | 60  | 图2 |
| 2ZDK062HP-1.5D | ●  | 6.2    |                                                     |     |      |      |     |    |
| 2ZDK063HP-1.5D | ●  | 6.3    |                                                     |     |      |      |     |    |
| 2ZDK064HP-1.5D | ●  | 6.4    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 20  | 22   | 8    | 70  |    |
| 2ZDK065HP-1.5D | ●  | 6.5    |                                                     |     |      |      |     |    |
| 2ZDK066HP-1.5D | ●  | 6.6    |                                                     |     |      |      |     |    |
| 2ZDK067HP-1.5D | ●  | 6.7    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 21  | 23   | 8    | 70  | 图1 |
| 2ZDK068HP-1.5D | ●  | 6.8    |                                                     |     |      |      |     |    |
| 2ZDK069HP-1.5D | ●  | 6.9    |                                                     |     |      |      |     |    |
| 2ZDK070HP-1.5D | ●  | 7.0    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 22  | 24   | 8    | 70  |    |
| 2ZDK071HP-1.5D | ●  | 7.1    |                                                     |     |      |      |     |    |
| 2ZDK072HP-1.5D | ●  | 7.2    |                                                     |     |      |      |     |    |
| 2ZDK073HP-1.5D | ●  | 7.3    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 23  | 25   | 8    | 70  | 图1 |
| 2ZDK074HP-1.5D | ●  | 7.4    |                                                     |     |      |      |     |    |
| 2ZDK075HP-1.5D | ●  | 7.5    |                                                     |     |      |      |     |    |

| 型号             | 库存 | 尺寸(mm) |                                                     |     |      |      |     | 形状 |
|----------------|----|--------|-----------------------------------------------------|-----|------|------|-----|----|
|                |    | DC     | 外径公差                                                | LCF | LN   | DCON | OAL |    |
| 2ZDK076HP-1.5D | ●  | 7.6    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 24  | 25   | 8    | 70  | 图1 |
| 2ZDK077HP-1.5D | ●  | 7.7    |                                                     |     |      |      |     |    |
| 2ZDK078HP-1.5D | ●  | 7.8    |                                                     |     |      |      |     |    |
| 2ZDK079HP-1.5D | ●  | 7.9    |                                                     |     |      |      |     |    |
| 2ZDK080HP-1.5D | ●  | 8.0    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 25  | (27) | 8    | 70  | 图2 |
| 2ZDK081HP-1.5D | ●  | 8.1    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 25  | 27   | 10   | 80  | 图1 |
| 2ZDK082HP-1.5D | ●  | 8.2    |                                                     |     |      |      |     |    |
| 2ZDK083HP-1.5D | ●  | 8.3    |                                                     |     |      |      |     |    |
| 2ZDK084HP-1.5D | ●  | 8.4    |                                                     |     |      |      |     |    |
| 2ZDK085HP-1.5D | ●  | 8.5    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 26  | 28   | 10   | 80  | 图1 |
| 2ZDK086HP-1.5D | ●  | 8.6    |                                                     |     |      |      |     |    |
| 2ZDK087HP-1.5D | ●  | 8.7    |                                                     |     |      |      |     |    |
| 2ZDK088HP-1.5D | ●  | 8.8    |                                                     |     |      |      |     |    |
| 2ZDK089HP-1.5D | ●  | 8.9    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 27  | 29   | 10   | 80  | 图1 |
| 2ZDK090HP-1.5D | ●  | 9.0    |                                                     |     |      |      |     |    |
| 2ZDK091HP-1.5D | ●  | 9.1    |                                                     |     |      |      |     |    |
| 2ZDK092HP-1.5D | ●  | 9.2    |                                                     |     |      |      |     |    |
| 2ZDK093HP-1.5D | ●  | 9.3    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 28  | 30   | 10   | 80  | 图1 |
| 2ZDK094HP-1.5D | ●  | 9.4    |                                                     |     |      |      |     |    |
| 2ZDK095HP-1.5D | ●  | 9.5    |                                                     |     |      |      |     |    |
| 2ZDK096HP-1.5D | ●  | 9.6    |                                                     |     |      |      |     |    |
| 2ZDK097HP-1.5D | ●  | 9.7    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 29  | 31   | 10   | 80  | 图1 |
| 2ZDK098HP-1.5D | ●  | 9.8    |                                                     |     |      |      |     |    |
| 2ZDK099HP-1.5D | ●  | 9.9    |                                                     |     |      |      |     |    |
| 2ZDK100HP-1.5D | ●  | 10.0   |                                                     |     |      |      |     |    |
| 2ZDK101HP-1.5D | ●  | 10.1   | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 30  | (33) | 10   | 80  | 图2 |
| 2ZDK102HP-1.5D | ●  | 10.2   | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 31  | 33   | 12   | 100 | 图1 |
| 2ZDK103HP-1.5D | ●  | 10.3   |                                                     |     |      |      |     |    |
| 2ZDK104HP-1.5D | ●  | 10.4   |                                                     |     |      |      |     |    |
| 2ZDK105HP-1.5D | ●  | 10.5   |                                                     |     |      |      |     |    |
| 2ZDK106HP-1.5D | ●  | 10.6   | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 32  | 34   | 12   | 100 | 图1 |
| 2ZDK107HP-1.5D | ●  | 10.7   |                                                     |     |      |      |     |    |
| 2ZDK108HP-1.5D | ●  | 10.8   |                                                     |     |      |      |     |    |
| 2ZDK109HP-1.5D | ●  | 10.9   |                                                     |     |      |      |     |    |
| 2ZDK110HP-1.5D | ●  | 11.0   | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 33  | 35   | 12   | 100 | 图1 |
| 2ZDK111HP-1.5D | ●  | 11.1   |                                                     |     |      |      |     |    |
| 2ZDK112HP-1.5D | ●  | 11.2   |                                                     |     |      |      |     |    |
| 2ZDK113HP-1.5D | ●  | 11.3   |                                                     |     |      |      |     |    |
| 2ZDK114HP-1.5D | ●  | 11.4   | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 34  | 36   | 12   | 100 | 图1 |
| 2ZDK115HP-1.5D | ●  | 11.5   |                                                     |     |      |      |     |    |
| 2ZDK116HP-1.5D | ●  | 11.6   |                                                     |     |      |      |     |    |
| 2ZDK117HP-1.5D | ●  | 11.7   |                                                     |     |      |      |     |    |
| 2ZDK118HP-1.5D | ●  | 11.8   | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 35  | 37   | 12   | 100 | 图1 |
| 2ZDK119HP-1.5D | ●  | 11.9   |                                                     |     |      |      |     |    |
| 2ZDK120HP-1.5D | ●  | 12.0   |                                                     |     |      |      |     |    |

●：标准库存





| 型号           | 库存 | 尺寸 (mm) |                                                     |     |    |      |     | 形状 |
|--------------|----|---------|-----------------------------------------------------|-----|----|------|-----|----|
|              |    | DC      | 外径公差                                                | LCF | LN | DCON | OAL |    |
| 2ZDK030HP-3D | ●  | 3.0     | $\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$ | 14  | 15 | 6    | 60  | 图1 |
| 2ZDK031HP-3D | ●  | 3.1     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 14  | 15 | 6    | 60  | 图1 |
| 2ZDK032HP-3D | ●  | 3.2     |                                                     |     |    |      |     |    |
| 2ZDK033HP-3D | ●  | 3.3     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 15  | 16 | 6    | 60  | 图1 |
| 2ZDK034HP-3D | ●  | 3.4     |                                                     |     |    |      |     |    |
| 2ZDK035HP-3D | ●  | 3.5     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 17  | 18 | 6    | 60  | 图1 |
| 2ZDK036HP-3D | ●  | 3.6     |                                                     |     |    |      |     |    |
| 2ZDK037HP-3D | ●  | 3.7     |                                                     |     |    |      |     |    |
| 2ZDK038HP-3D | ●  | 3.8     |                                                     |     |    |      |     |    |
| 2ZDK039HP-3D | ●  | 3.9     |                                                     |     |    |      |     |    |
| 2ZDK040HP-3D | ●  | 4.0     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 19  | 20 | 6    | 60  | 图1 |
| 2ZDK041HP-3D | ●  | 4.1     |                                                     |     |    |      |     |    |
| 2ZDK042HP-3D | ●  | 4.2     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 20  | 21 | 6    | 60  | 图1 |
| 2ZDK043HP-3D | ●  | 4.3     |                                                     |     |    |      |     |    |
| 2ZDK044HP-3D | ●  | 4.4     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 21  | 22 | 6    | 60  | 图1 |
| 2ZDK045HP-3D | ●  | 4.5     |                                                     |     |    |      |     |    |
| 2ZDK046HP-3D | ●  | 4.6     |                                                     |     |    |      |     |    |
| 2ZDK047HP-3D | ●  | 4.7     |                                                     |     |    |      |     |    |
| 2ZDK048HP-3D | ●  | 4.8     |                                                     |     |    |      |     |    |
| 2ZDK049HP-3D | ●  | 4.9     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 23  | 24 | 6    | 60  | 图1 |
| 2ZDK050HP-3D | ●  | 5.0     |                                                     |     |    |      |     |    |
| 2ZDK051HP-3D | ●  | 5.1     |                                                     |     |    |      |     |    |
| 2ZDK052HP-3D | ●  | 5.2     |                                                     |     |    |      |     |    |
| 2ZDK053HP-3D | ●  | 5.3     |                                                     |     |    |      |     |    |
| 2ZDK054HP-3D | ●  | 5.4     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 24  | 25 | 6    | 60  | 图1 |
| 2ZDK055HP-3D | ●  | 5.5     |                                                     |     |    |      |     |    |
| 2ZDK056HP-3D | ●  | 5.6     | $\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$ | 26  | 27 | 6    | 60  | 图1 |
| 2ZDK057HP-3D | ●  | 5.7     |                                                     |     |    |      |     |    |
| 2ZDK058HP-3D | ●  | 5.8     |                                                     |     |    |      |     |    |
| 2ZDK059HP-3D | ●  | 5.9     |                                                     |     |    |      |     |    |
| 2ZDK060HP-3D | ●  | 6.0     |                                                     |     |    |      |     |    |
| 2ZDK061HP-3D | ●  | 6.1     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 28  | 29 | 8    | 70  | 图1 |
| 2ZDK062HP-3D | ●  | 6.2     |                                                     |     |    |      |     |    |
| 2ZDK063HP-3D | ●  | 6.3     |                                                     |     |    |      |     |    |
| 2ZDK064HP-3D | ●  | 6.4     |                                                     |     |    |      |     |    |
| 2ZDK065HP-3D | ●  | 6.5     |                                                     |     |    |      |     |    |
| 2ZDK066HP-3D | ●  | 6.6     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 30  | 31 | 8    | 70  | 图1 |
| 2ZDK067HP-3D | ●  | 6.7     |                                                     |     |    |      |     |    |
| 2ZDK068HP-3D | ●  | 6.8     |                                                     |     |    |      |     |    |
| 2ZDK069HP-3D | ●  | 6.9     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 31  | 32 | 8    | 70  | 图1 |
| 2ZDK070HP-3D | ●  | 7.0     |                                                     |     |    |      |     |    |
| 2ZDK071HP-3D | ●  | 7.1     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 32  | 33 | 8    | 70  | 图1 |
| 2ZDK072HP-3D | ●  | 7.2     |                                                     |     |    |      |     |    |
| 2ZDK073HP-3D | ●  | 7.3     |                                                     |     |    |      |     |    |
| 2ZDK074HP-3D | ●  | 7.4     |                                                     |     |    |      |     |    |
| 2ZDK075HP-3D | ●  | 7.5     |                                                     |     |    |      |     |    |

| 型号           | 库存 | 尺寸 (mm) |                                                     |     |      |      |     | 形状 |
|--------------|----|---------|-----------------------------------------------------|-----|------|------|-----|----|
|              |    | DC      | 外径公差                                                | LCF | LN   | DCON | OAL |    |
| 2ZDK076HP-3D | ●  | 7.6     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 34  | 35   | 8    | 70  | 图1 |
| 2ZDK077HP-3D | ●  | 7.7     |                                                     |     |      |      |     |    |
| 2ZDK078HP-3D | ●  | 7.8     |                                                     |     |      |      |     |    |
| 2ZDK079HP-3D | ●  | 7.9     |                                                     |     |      |      |     |    |
| 2ZDK080HP-3D | ●  | 8.0     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 36  | (36) | 8    | 70  | 图2 |
| 2ZDK081HP-3D | ●  | 8.1     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 36  | 37   | 10   | 80  | 图1 |
| 2ZDK082HP-3D | ●  | 8.2     |                                                     |     |      |      |     |    |
| 2ZDK083HP-3D | ●  | 8.3     |                                                     |     |      |      |     |    |
| 2ZDK084HP-3D | ●  | 8.4     |                                                     |     |      |      |     |    |
| 2ZDK085HP-3D | ●  | 8.5     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 38  | 39   | 10   | 80  | 图1 |
| 2ZDK086HP-3D | ●  | 8.6     |                                                     |     |      |      |     |    |
| 2ZDK087HP-3D | ●  | 8.7     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 39  | 40   | 10   | 80  | 图1 |
| 2ZDK088HP-3D | ●  | 8.8     |                                                     |     |      |      |     |    |
| 2ZDK089HP-3D | ●  | 8.9     |                                                     |     |      |      |     |    |
| 2ZDK090HP-3D | ●  | 9.0     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 40  | 41   | 10   | 80  | 图1 |
| 2ZDK091HP-3D | ●  | 9.1     |                                                     |     |      |      |     |    |
| 2ZDK092HP-3D | ●  | 9.2     |                                                     |     |      |      |     |    |
| 2ZDK093HP-3D | ●  | 9.3     |                                                     |     |      |      |     |    |
| 2ZDK094HP-3D | ●  | 9.4     |                                                     |     |      |      |     |    |
| 2ZDK095HP-3D | ●  | 9.5     | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 42  | 43   | 10   | 80  | 图1 |
| 2ZDK096HP-3D | ●  | 9.6     |                                                     |     |      |      |     |    |
| 2ZDK097HP-3D | ●  | 9.7     |                                                     |     |      |      |     |    |
| 2ZDK098HP-3D | ●  | 9.8     |                                                     |     |      |      |     |    |
| 2ZDK099HP-3D | ●  | 9.9     |                                                     |     |      |      |     |    |
| 2ZDK100HP-3D | ●  | 10.0    | $\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$ | 45  | (45) | 10   | 80  | 图2 |
| 2ZDK101HP-3D | ●  | 10.1    | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 45  | 46   | 12   | 100 | 图1 |
| 2ZDK102HP-3D | ●  | 10.2    |                                                     |     |      |      |     |    |
| 2ZDK103HP-3D | ●  | 10.3    | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 46  | 47   | 12   | 100 | 图1 |
| 2ZDK104HP-3D | ●  | 10.4    |                                                     |     |      |      |     |    |
| 2ZDK105HP-3D | ●  | 10.5    | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 47  | 48   | 12   | 100 | 图1 |
| 2ZDK106HP-3D | ●  | 10.6    |                                                     |     |      |      |     |    |
| 2ZDK107HP-3D | ●  | 10.7    |                                                     |     |      |      |     |    |
| 2ZDK108HP-3D | ●  | 10.8    |                                                     |     |      |      |     |    |
| 2ZDK109HP-3D | ●  | 10.9    |                                                     |     |      |      |     |    |
| 2ZDK110HP-3D | ●  | 11.0    | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 51  | 52   | 12   | 100 | 图1 |
| 2ZDK111HP-3D | ●  | 11.1    |                                                     |     |      |      |     |    |
| 2ZDK112HP-3D | ●  | 11.2    |                                                     |     |      |      |     |    |
| 2ZDK113HP-3D | ●  | 11.3    |                                                     |     |      |      |     |    |
| 2ZDK114HP-3D | ●  | 11.4    |                                                     |     |      |      |     |    |
| 2ZDK115HP-3D | ●  | 11.5    | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 53  | 54   | 12   | 100 | 图1 |
| 2ZDK116HP-3D | ●  | 11.6    |                                                     |     |      |      |     |    |
| 2ZDK117HP-3D | ●  | 11.7    |                                                     |     |      |      |     |    |
| 2ZDK118HP-3D | ●  | 11.8    |                                                     |     |      |      |     |    |
| 2ZDK119HP-3D | ●  | 11.9    |                                                     |     |      |      |     |    |
| 2ZDK120HP-3D | ●  | 12.0    | $\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$ | 54  | (54) | 12   | 100 | 图2 |

● : 标准库存



审图号：GS(2016)1571号  
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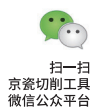
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