

# 镗孔刀具系列

BORING TOOL SERIES



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BORING TOOL SERIES

# 镗孔刀具系列

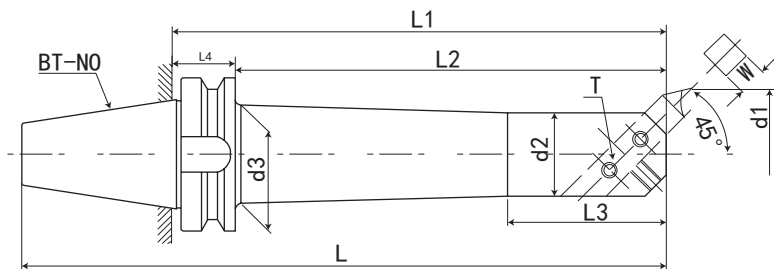
BORING TOOL SERIES



镗孔刀具系列  
BORING TOOL SERIES

# BT-BSA 45°粗镗刀杆（盲孔）

BT-BSA 45° DEGREE SLANT-INSERTED TYPE ROUGH BORING HOLDERS



P. J04



P. I29

| 规格 / 型号 Model    | d1        |           | d2  | d3 | L     | L1  | L2  | L3  | L4 | W 方孔 | T 螺孔 | 重量 KGS |
|------------------|-----------|-----------|-----|----|-------|-----|-----|-----|----|------|------|--------|
|                  | 最小加工孔 Min | 最大加工孔 Max |     |    |       |     |     |     |    |      |      |        |
| BT40-BSA25-120L  | 25        | 38        | 20  | 22 | 185.4 | 120 | 93  | 35  | 27 | 8    | M6   | 1.2    |
| BT40-BSA30-150L  | 30        | 42        | 24  | 26 | 215.4 | 150 | 123 | 40  | 27 | 8    | M6   | 1.4    |
| BT40-BSA38-165L  | 38        | 52        | 30  | 33 | 230.4 | 165 | 138 | 50  | 27 | 10   | M8   | 1.7    |
| BT40-BSA42-165L  | 42        | 56        | 34  | 37 | 230.4 | 165 | 138 | 50  | 27 | 10   | M8   | 2      |
| BT40-BSA50-165L  | 50        | 65        | 40  | 44 | 230.4 | 165 | 138 | 65  | 27 | 13   | M8   | 2.3    |
| BT40-BSA62-180L  | 62        | 90        | 50  | 56 | 245.4 | 180 | 153 | 80  | 27 | 16   | M10  | 2.4    |
| BT40-BSA72-180L  | 72        | 110       | 60  | -  | 245.4 | 180 | 153 | 95  | 27 | 19   | M10  | 3.9    |
| BT40-BSA90-180L  | 90        | 125       | 75  | -  | 245.4 | 180 | 153 | 110 | 27 | 19   | M10  | 5.2    |
| 规格 / 型号 Model    | d1        |           | d2  | d3 | L     | L1  | L2  | L3  | L4 | W 方孔 | T 螺孔 | 重量 KGS |
|                  | 最小加工孔 Min | 最大加工孔 Max |     |    |       |     |     |     |    |      |      |        |
| BT50-BSA25-135L  | 25        | 38        | 20  | 22 | 236.8 | 135 | 97  | 35  | 38 | 8    | M6   | 4.2    |
| BT50-BSA25-185L  | 25        | 38        | 20  | 22 | 286.8 | 185 | 147 | 35  | 38 | 8    | M6   | 4.4    |
| BT50-BSA30-165L  | 30        | 42        | 24  | 26 | 266.8 | 165 | 127 | 40  | 38 | 8    | M6   | 4.4    |
| BT50-BSA38-180L  | 38        | 52        | 30  | 33 | 281.8 | 180 | 142 | 50  | 38 | 10   | M8   | 4.8    |
| BT50-BSA38-240L  | 38        | 52        | 30  | 33 | 341.8 | 240 | 202 | 50  | 38 | 10   | M8   | 5      |
| BT50-BSA42-210L  | 42        | 56        | 34  | 37 | 311.8 | 210 | 172 | 60  | 38 | 10   | M8   | 5      |
| BT50-BSA50-180L  | 50        | 65        | 40  | 44 | 281.8 | 180 | 142 | 65  | 38 | 13   | M10  | 5.4    |
| BT50-BSA50-240L  | 50        | 65        | 40  | 44 | 341.8 | 240 | 202 | 65  | 38 | 13   | M10  | 5.7    |
| BT50-BSA50-300L  | 50        | 65        | 40  | 44 | 401.8 | 300 | 262 | 65  | 38 | 13   | M10  | 6      |
| BT50-BSA62-195L  | 62        | 90        | 50  | 56 | 296.8 | 195 | 157 | 80  | 38 | 16   | M10  | 6.2    |
| BT50-BSA62-270L  | 62        | 90        | 50  | 56 | 371.8 | 270 | 232 | 80  | 38 | 16   | M10  | 7.6    |
| BT50-BSA62-350L  | 62        | 90        | 50  | 56 | 451.8 | 350 | 312 | 80  | 38 | 16   | M10  | 9      |
| BT50-BSA62-400L  | 62        | 90        | 50  | 56 | 501.8 | 400 | 362 | 80  | 38 | 16   | M10  | 10.4   |
| BT50-BSA72-195L  | 72        | 110       | 60  | 66 | 296.8 | 195 | 157 | 95  | 38 | 19   | M10  | 7      |
| BT50-BSA72-285L  | 72        | 110       | 60  | 66 | 386.8 | 285 | 247 | 95  | 38 | 19   | M10  | 9.2    |
| BT50-BSA72-350L  | 72        | 110       | 60  | 66 | 451.8 | 350 | 312 | 95  | 38 | 19   | M10  | 10.8   |
| BT50-BSA72-400L  | 72        | 110       | 60  | 66 | 501.8 | 400 | 362 | 95  | 38 | 19   | M10  | 12.4   |
| BT50-BSA90-210L  | 90        | 125       | 75  | 80 | 311.8 | 210 | 172 | 110 | 38 | 19   | M12  | 9.3    |
| BT50-BSA90-300L  | 90        | 125       | 75  | 80 | 401.8 | 300 | 262 | 110 | 38 | 19   | M12  | 12.3   |
| BT50-BSA90-350L  | 90        | 125       | 75  | 80 | 451.8 | 350 | 312 | 110 | 38 | 19   | M12  | 15.3   |
| BT50-BSA105-195L | 105       | 160       | 90  | -  | 296.8 | 195 | 157 | -   | 38 | 25   | M12  | 10.7   |
| BT50-BSA105-285L | 105       | 160       | 90  | 94 | 386.8 | 285 | 247 | 130 | 38 | 25   | M12  | 15     |
| BT50-BSA105-300L | 105       | 160       | 90  | 94 | 401.8 | 300 | 262 | 130 | 38 | 25   | M12  | 13.2   |
| BT50-BSA130-255L | 130       | 190       | 110 | -  | 356.8 | 255 | 217 | 120 | 38 | 25   | M12  | 14.5   |
| BT50-BSA130-300L | 130       | 190       | 110 | -  | 401.8 | 300 | 262 | 120 | 38 | 25   | M12  | 18.5   |

## 特点:

注:

- ◎适用于孔径凹凸不平，毛坯粗糙之加工物
- ◎可选用四角形焊刃刀具或舍弃式刀具
- ◎镗盲孔专用
- ◎拉钉及镗刀头须另购

## Features:

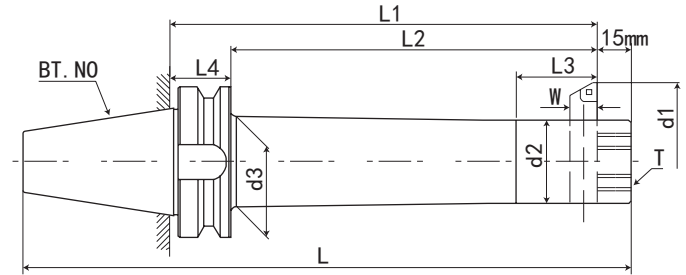
- ◎ Suitable for processing uneven aperture and rough work embryo.
- ◎ Selects the four square brazed or throw away cutting tool.
- ◎ Particularly suitable for boring blind holes.
- ◎ The pull stud must purchase alone.

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## BT-BSB 90°粗镗刀杆（通孔）

BT-BSB 90° DEGREE SLANT-INSERTED TYPE ROUGH BORING HOLDERS



P.J04



P.129

| 规格 / 型号 Model    | d1        |           | d2  | d3 | L     | L1  | L2  | L3  | L4 | W 方孔 | T 螺纹 | 重量 KGS |
|------------------|-----------|-----------|-----|----|-------|-----|-----|-----|----|------|------|--------|
|                  | 最小加工孔 Min | 最大加工孔 Max |     |    |       |     |     |     |    |      |      |        |
| BT40-BSB25-120L  | 25        | 52        | 20  | 22 | 200.4 | 120 | 93  | 35  | 27 | 8    | M6   | 1.2    |
| BT40-BSB30-150L  | 30        | 57        | 25  | 27 | 230.4 | 150 | 123 | 40  | 27 | 8    | M6   | 1.5    |
| BT40-BSB38-165L  | 38        | 70        | 30  | 33 | 245.4 | 165 | 138 | 55  | 27 | 10   | M8   | 1.7    |
| BT40-BSB42-165L  | 42        | 74        | 34  | 37 | 245.4 | 165 | 138 | 55  | 27 | 10   | M8   | 2      |
| BT40-BSB50-165L  | 50        | 90        | 40  | 44 | 245.4 | 165 | 138 | 55  | 27 | 13   | M10  | 2.5    |
| BT40-BSB62-180L  | 62        | 115       | 50  | 56 | 260.4 | 180 | 153 | 80  | 27 | 16   | M10  | 3.6    |
| BT40-BSB72-180L  | 72        | 125       | 60  | 66 | 260.4 | 180 | 153 | 80  | 27 | 19   | M12  | 4.6    |
| BT40-BSB90-180L  | 90        | 150       | 75  | -  | 260.4 | 180 | 153 | 115 | 27 | 19   | M12  | 5.9    |
| 规格 / 型号 Model    | d1        |           | d2  | d3 | L     | L1  | L2  | L3  | L4 | W 方孔 | T 螺纹 | 重量 KGS |
|                  | 最小加工孔 Min | 最大加工孔 Max |     |    |       |     |     |     |    |      |      |        |
| BT50-BSB25-135L  | 25        | 52        | 20  | 22 | 251.8 | 135 | 97  | 35  | 38 | 8    | M6   | 4.3    |
| BT50-BSB25-185L  | 25        | 52        | 20  | 22 | 301.8 | 185 | 147 | 35  | 38 | 8    | M6   | 4.4    |
| BT50-BSB30-165L  | 30        | 42        | 24  | 26 | 281.8 | 165 | 127 | 40  | 38 | 8    | M6   | 4.2    |
| BT50-BSB38-180L  | 38        | 70        | 30  | 33 | 296.8 | 180 | 142 | 55  | 38 | 10   | M8   | 4.9    |
| BT50-BSB38-240L  | 38        | 70        | 30  | 33 | 356.8 | 240 | 202 | 55  | 38 | 10   | M8   | 5.2    |
| BT50-BSB42-210L  | 42        | 56        | 34  | 37 | 326.8 | 210 | 172 | 60  | 38 | 10   | M8   | 5.0    |
| BT50-BSB50-180L  | 50        | 90        | 40  | 44 | 296.8 | 180 | 142 | 70  | 38 | 13   | M10  | 5.5    |
| BT50-BSB50-240L  | 50        | 90        | 40  | 44 | 356.8 | 240 | 202 | 70  | 38 | 13   | M10  | 6.1    |
| BT50-BSB50-300L  | 50        | 90        | 40  | 44 | 416.8 | 300 | 262 | 70  | 38 | 13   | M10  | 6.7    |
| BT50-BSB62-195L  | 62        | 115       | 50  | 56 | 311.8 | 195 | 157 | 80  | 38 | 16   | M10  | 6.4    |
| BT50-BSB62-270L  | 62        | 115       | 50  | 56 | 386.8 | 270 | 232 | 80  | 38 | 16   | M10  | 7.8    |
| BT50-BSB62-350L  | 62        | 115       | 50  | 56 | 466.8 | 350 | 312 | 80  | 38 | 16   | M10  | 8.8    |
| BT50-BSB62-400L  | 62        | 115       | 50  | 56 | 516.8 | 400 | 362 | 80  | 38 | 16   | M10  | 10.2   |
| BT50-BSB72-195L  | 72        | 135       | 60  | 66 | 311.8 | 195 | 157 | 95  | 38 | 19   | M12  | 7.3    |
| BT50-BSB72-285L  | 72        | 135       | 60  | 66 | 401.8 | 285 | 247 | 95  | 38 | 19   | M12  | 9.6    |
| BT50-BSB72-350L  | 72        | 135       | 60  | 66 | 466.8 | 350 | 312 | 95  | 38 | 19   | M12  | 11.6   |
| BT50-BSB72-400L  | 72        | 135       | 60  | 66 | 516.8 | 400 | 362 | 95  | 38 | 19   | M12  | 13.6   |
| BT50-BSB90-210L  | 90        | 150       | 75  | 80 | 326.8 | 210 | 172 | 115 | 38 | 19   | M12  | 9.7    |
| BT50-BSB90-300L  | 90        | 150       | 75  | 80 | 416.8 | 300 | 262 | 115 | 38 | 19   | M12  | 12.8   |
| BT50-BSB90-350L  | 90        | 150       | 75  | 80 | 466.8 | 350 | 312 | 115 | 38 | 19   | M12  | 16     |
| BT50-BSB105-195L | 105       | 190       | 90  | 90 | 311.8 | 195 | 157 | -   | 38 | 25   | M12  | 11.4   |
| BT50-BSB105-285L | 105       | 190       | 90  | 94 | 401.8 | 285 | 247 | 135 | 38 | 25   | M12  | 15.7   |
| BT50-BSB105-300L | 105       | 190       | 90  | 94 | 416.8 | 300 | 262 | 135 | 38 | 25   | M12  | 17     |
| BT50-BSB130-255L | 130       | 260       | 110 | -  | 371.8 | 255 | 217 | 60  | 38 | 25   | M12  | 14.1   |
| BT50-BSB130-300L | 130       | 260       | 110 | -  | 416.8 | 300 | 262 | 60  | 38 | 25   | M12  | 18     |

### 特点:

注:

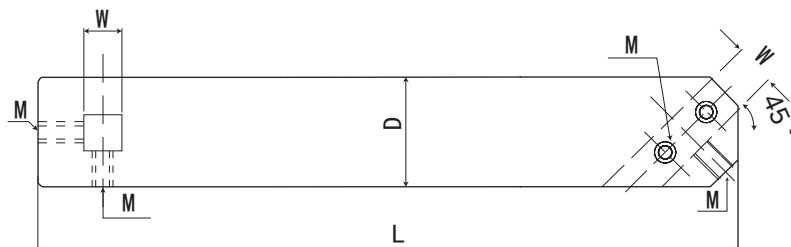
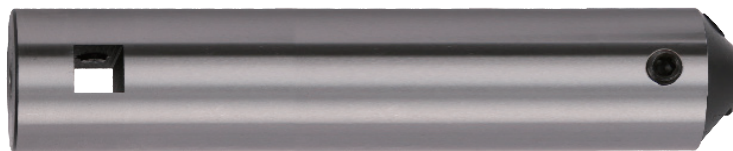
- ◎适用于孔径凹凸不平，毛坯粗糙之加工物
- ◎可选用四角形熔焊刀具或捨弃式刀具
- ◎镗通孔专用
- ◎拉钉及镗刀头须另购

### Features:

- ◎ Suitable for processing uneven aperture and rough work embryo.
- ◎ Selects the four square brazed or throw away cutting tool.
- ◎ Suitable for boring through holes.
- ◎ The pull stud must purchase alone.

## 直柄镗刀杆 (通孔 / 盲孔多用)

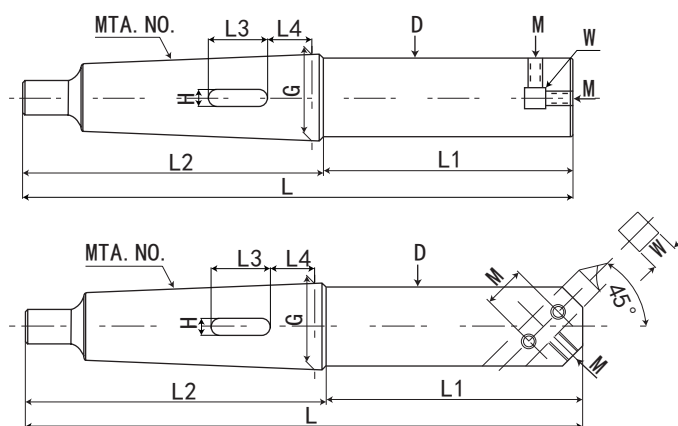
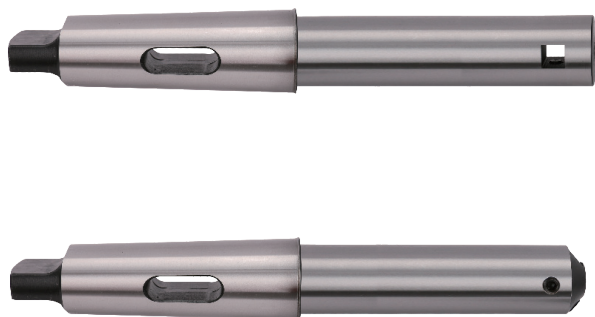
## STRAIGHT BORING HOLDER



| 规格 / 型号 Model | φD 镗孔范围 Boring Range |      | L   | D  | 侧边固定螺丝       | 镗孔角度      | 镗孔尺寸 W | 重量 KGS |
|---------------|----------------------|------|-----|----|--------------|-----------|--------|--------|
|               | Min.                 | Max. |     |    |              |           |        |        |
| C16-BS150     | 18                   | 28   | 150 | 16 | M5×0.8P-5L   | 90° / 45° | 6      | 0.24   |
| C18-BS180     | 20                   | 32   | 180 | 18 | M5×0.8P-5L   | 90° / 45° | 6      | 0.38   |
| C20-BS200     | 22                   | 36   | 200 | 20 | M6×1.0P-6L   | 90° / 45° | 8      | 0.50   |
| C25-BS250     | 28                   | 45   | 250 | 25 | M6×1.0P-6L   | 90° / 45° | 8      | 1.00   |
| C32-BS300     | 36                   | 58   | 300 | 32 | M8×1.25P-10L | 90° / 45° | 10     | 1.88   |
| C42-BS300     | 48                   | 75   | 300 | 42 | M10×1.5P-10L | 90° / 45° | 13     | 3.18   |

## MTA 莫氏带扁尾粗镗刀杆

## MTA TAPER ADAPTER (MORSE) STRAIGHT BORING HOLDER



BORING HEAD  
镗孔刀具系列

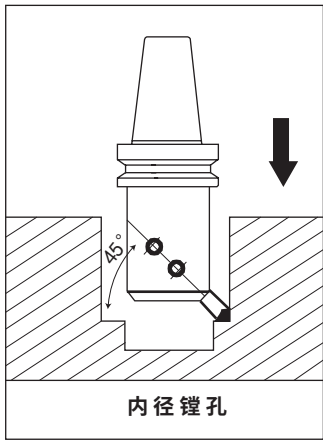
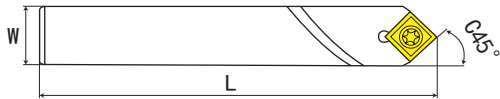
由于每个客户加工的孔径大小孔深都不一样，此款镗刀杆不备现货，需要根据客户的要求参考此图定做。客户只需告知 D 有效直径，L1 有效长度，W 方孔尺寸和锥柄型号即可。

| 规格 / 型号 Model | L | L1 | L2  | L3 | L4 | D | W | M | G      |
|---------------|---|----|-----|----|----|---|---|---|--------|
| MTA3          |   |    | 99  | -  | -  |   |   |   | 23.825 |
| MTA4          |   |    | 124 | -  | -  |   |   |   | 31.267 |
| MTA5          |   |    | 156 | 40 | 35 |   |   |   | 44.399 |
| MTA6          |   |    | 218 | 40 | 45 |   |   |   | 63.348 |
| 公制 80         |   |    | 228 | 45 | 55 |   |   |   | 80.00  |

# 镗孔刀具系列 BORING HEAD

## BSA 镗刀头

BSA INTERCHANGEABLE BORING CUTTER



内径镗孔

| 规格 / 型号 Model | 刀方 W  | 长度 L | 刀片 Insert  | 螺丝 Screw | 扳手 Wrench | 重量 KGS |
|---------------|-------|------|------------|----------|-----------|--------|
| BSA1          | 8*8   | L35  | CCMT060204 | M2.5*6.0 | T9        | 0.04   |
| BSA2          | 10*10 | L50  | CCMT060204 | M2.5*6.0 | T9        | 0.06   |
| BSA3          | 13*13 | L60  | CCMT09T308 | M4*10.0  | T15       | 0.12   |
| BSA4          | 16*16 | L75  | CCMT09T308 | M4*10.0  | T15       | 0.27   |
| BSA5          | 19*19 | L95  | CCMT120408 | M5*12.0  | T20       | 0.41   |
| BSA6          | 25*25 | L110 | CCMT120408 | M5*12.0  | T20       | 0.75   |

### 特点:

注:

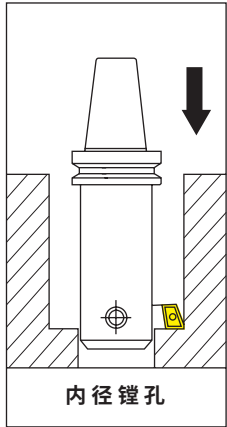
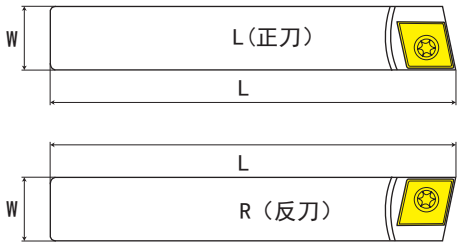
- ◎适用于 BSA 盲孔粗镗刀杆
- ◎ BSA 适合重切削加工

### Features:

- ◎ Fit BSA BSB rough boring cutter and ABH precise one.
- ◎ BSA is fit heavy cutting processing.

## BSB 镗刀头

BSB INTERCHANGEABLE BORING CUTTER



内径镗孔

| 规格 / 型号 Model | 刀方 W  | 长度 L | 刀片 Insert  | 螺丝 Screw | 扳手 Wrench | 重量 KGS |
|---------------|-------|------|------------|----------|-----------|--------|
| BSB1          | 8*8   | L35  | CCMT060204 | M2.5*6.0 | T9        | 0.04   |
| BSB2          | 10*10 | L50  | CCMT060204 | M2.5*6.0 | T9        | 0.06   |
| BSB3          | 13*13 | L60  | CCMT09T308 | M4*10.0  | T15       | 0.12   |
| BSB4          | 16*16 | L75  | CCMT09T308 | M4*10.0  | T15       | 0.27   |
| BSB5          | 19*19 | L95  | CCMT120408 | M5*12.0  | T20       | 0.41   |
| BSB6          | 25*25 | L110 | CCMT120408 | M5*12.0  | T20       | 0.75   |

### 特点:

注:

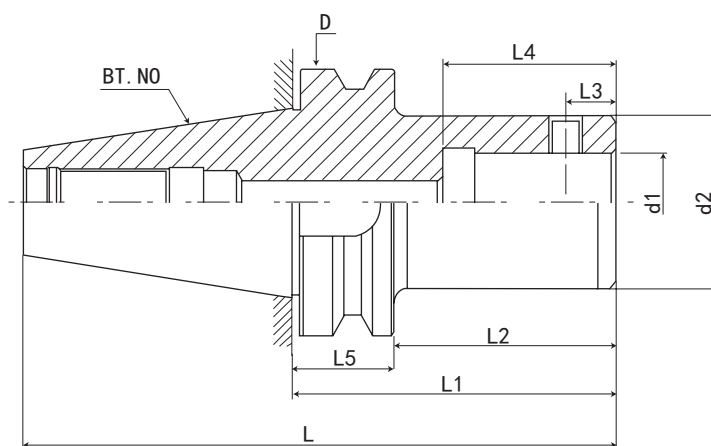
- ◎适用于 BSB 通孔粗镗刀杆
- ◎ BSB 适合重切削加工

### Features:

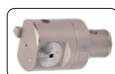
- ◎ Fit BSB rough boring cutter and ABH precise one.
- ◎ BSB is fit heavy cutting processing.

# BT-LBK 镗头刀柄

# BT-LBK BORING HEAD SHANK



P.129



P.J39



P.130

| 规格 / 型号 Model  | L     | L1  | L2  | L3   | L4 | L5 | D  | d2 | d1 | 侧边螺丝 Screw | 重量 KGS |
|----------------|-------|-----|-----|------|----|----|----|----|----|------------|--------|
| BT30-LBK1-55L  | 103.4 | 55  | 33  | 5.05 | 30 | 22 | 46 | 19 | 11 | M4*0.5P    | 0.7    |
| BT30-LBK1-70L  | 118.4 | 70  | 48  | 5.05 | 30 | 22 | 46 | 19 | 11 | M4*0.5P    | 0.7    |
| BT30-LBK2-80L  | 128.4 | 80  | 58  | 6.62 | 31 | 22 | 46 | 24 | 14 | M5*0.5P    | 0.8    |
| BT30-LBK3-80L  | 128.4 | 80  | 58  | 8    | 35 | 22 | 46 | 31 | 18 | M6*0.75P   | 0.9    |
| BT30-LBK4-70L  | 118.4 | 70  | 48  | 10   | 39 | 22 | 46 | 39 | 22 | M8*0.75P   | 1.0    |
| BT30-LBK5-60L  | 108.4 | 60  | 38  | 13   | 45 | 22 | 46 | 50 | 28 | M10*1.0P   | 1.1    |
| BT30-LBK6-60L  | 108.4 | 60  | 38  | 16   | 55 | 22 | 46 | 63 | 36 | M12*1.0P   | 1.2    |
| 规格 / 型号 Model  | L     | L1  | L2  | L3   | L4 | L5 | D  | d2 | d1 | 侧边螺丝 Screw | 重量 KGS |
| BT40-LBK1-75L  | 140.4 | 75  | 48  | 5.05 | 30 | 27 | 63 | 19 | 11 | M4*0.5P    | 1      |
| BT40-LBK1-105L | 170.4 | 105 | 78  | 5.05 | 30 | 27 | 63 | 19 | 11 | M4*0.5P    | 1.2    |
| BT40-LBK2-85L  | 150.4 | 85  | 58  | 6.62 | 31 | 27 | 63 | 24 | 14 | M5*0.5P    | 1.2    |
| BT40-LBK2-115L | 180.4 | 115 | 88  | 6.62 | 31 | 27 | 63 | 24 | 14 | M5*0.5P    | 1.3    |
| BT40-LBK3-95L  | 160.4 | 95  | 68  | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.3    |
| BT40-LBK3-125L | 190.4 | 125 | 98  | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.2    |
| BT40-LBK3-155L | 220.4 | 155 | 128 | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.6    |
| BT40-LBK3-185L | 250.4 | 185 | 158 | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.7    |
| BT40-LBK4-85L  | 150.4 | 85  | 58  | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 1.45   |
| BT40-LBK4-130L | 195.4 | 130 | 103 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 1.5    |
| BT40-LBK4-175L | 240.4 | 175 | 148 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 2.1    |
| BT40-LBK4-205L | 270.4 | 205 | 178 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 2.2    |
| BT40-LBK4-250L | 315.4 | 250 | 223 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 2.3    |
| BT40-LBK5-75L  | 140.4 | 75  | 48  | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 1.7    |
| BT40-LBK5-125L | 190.4 | 125 | 98  | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 1.95   |
| BT40-LBK5-175L | 240.4 | 175 | 148 | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 3      |
| BT40-LBK5-205L | 270.4 | 205 | 178 | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 3.2    |
| BT40-LBK5-250L | 315.4 | 250 | 223 | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 3.5    |
| BT40-LBK6-65L  | 130.4 | 65  | 38  | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 2.15   |
| BT40-LBK6-115L | 180.4 | 115 | 88  | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 3.5    |
| BT40-LBK6-165L | 230.4 | 165 | 138 | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 3.85   |
| BT40-LBK6-205L | 270.4 | 205 | 178 | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 4.1    |

## 特点:

### 注:

- ◎内孔公差 H6
- ◎整支通孔，利于出水及抗震
- ◎可共用并互容于大多数“LBK”系列
- ◎侧边锁固螺丝与键槽呈 90 度，确保镗孔切削完毕时的相对位置
- ◎锁固时请使用螺丝防卡油防止因镗孔加工扭力过大，导致螺丝卡死难以拆卸组装
- ◎拉钉须另行购买

## Features:

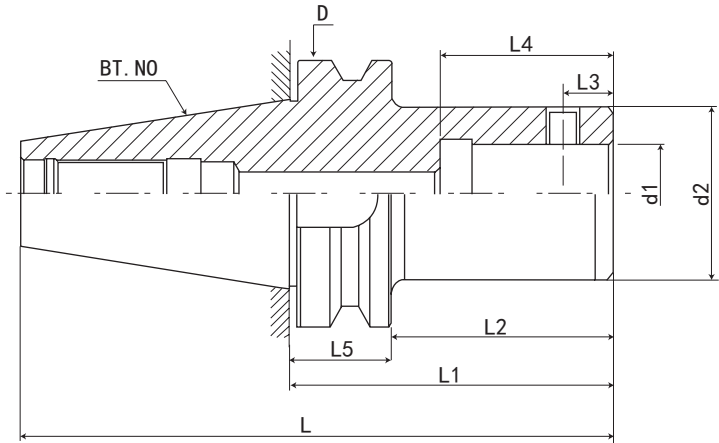
- ◎ Internal tolerance is H6.
- ◎ The entire through hole, favors the water leakage and quakeproof.
- ◎ May use in common and the mutual capacitance in majority "LBK" Series.
- ◎ The side locks the solid screw and the key slot assumes 90 degrees, guaranteed that time the boring cutting function draws back the knife phase.
- ◎ Because locks is solid when please do use the screw against card oil to prevent to process the torsion to be oversized boring , Causes the screw deactivation to disassemble the assembly with difficulty.
- ◎ The pull stud must purchase alone.



# 镗孔刀具系列 BORING HEAD

## BT50-LBK 镗头刀柄

## BT50-LBK BORING HEAD SHANK



P.129



P.139



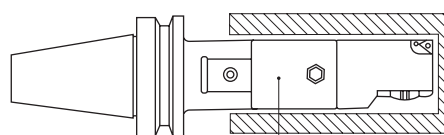
P.130

| 规格 / 型号 Model  | L     | L1  | L2  | L3   | L4 | L5 | D   | d2 | d1 | 侧边螺丝 Screw | 重量 KGS |
|----------------|-------|-----|-----|------|----|----|-----|----|----|------------|--------|
| BT50-LBK1-90L  | 191.8 | 90  | 52  | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 3.7    |
| BT50-LBK1-115L | 216.8 | 115 | 77  | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 3.9    |
| BT50-LBK1-145L | 246.8 | 145 | 107 | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 4.4    |
| BT50-LBK1-175L | 276.8 | 175 | 137 | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 4.5    |
| BT50-LBK2-90L  | 191.8 | 90  | 52  | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 3.8    |
| BT50-LBK2-110L | 211.8 | 110 | 72  | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 4      |
| BT50-LBK2-140L | 241.8 | 140 | 102 | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 5      |
| BT50-LBK2-175L | 276.8 | 175 | 137 | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 4.2    |
| BT50-LBK3-90L  | 191.8 | 90  | 52  | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.4    |
| BT50-LBK3-125L | 226.8 | 125 | 87  | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.4    |
| BT50-LBK3-155L | 256.8 | 155 | 117 | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.6    |
| BT50-LBK3-185L | 286.8 | 185 | 147 | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.4    |
| BT50-LBK3-215L | 316.8 | 215 | 177 | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.65   |
| BT50-LBK4-90L  | 191.8 | 90  | 52  | 10   | 39 | 38 | 100 | 39 | 22 | M6*0.75P   | 4.6    |
| BT50-LBK4-115L | 216.8 | 115 | 77  | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.8    |
| BT50-LBK4-145L | 246.8 | 145 | 107 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.2    |
| BT50-LBK4-175L | 276.8 | 175 | 137 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.6    |
| BT50-LBK4-205L | 306.8 | 205 | 167 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.85   |
| BT50-LBK4-250L | 351.8 | 250 | 212 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.2    |
| BT50-LBK4-300L | 401.8 | 300 | 262 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.5    |
| BT50-LBK4-350L | 451.8 | 350 | 312 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.8    |
| BT50-LBK5-95L  | 196.8 | 95  | 57  | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 5.4    |
| BT50-LBK5-105L | 206.8 | 105 | 67  | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 5.5    |
| BT50-LBK5-150L | 251.8 | 150 | 112 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6      |
| BT50-LBK5-180L | 281.8 | 180 | 142 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6.2    |
| BT50-LBK5-240L | 341.8 | 240 | 202 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6.4    |
| BT50-LBK5-270L | 371.8 | 270 | 232 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6.7    |
| BT50-LBK5-300L | 401.8 | 300 | 262 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 7      |
| BT50-LBK5-350L | 451.8 | 350 | 312 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 7.3    |
| BT50-LBK6-95L  | 196.8 | 95  | 57  | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 5.9    |
| BT50-LBK6-150L | 251.8 | 150 | 112 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 6.5    |
| BT50-LBK6-170L | 271.8 | 170 | 132 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 6.3    |
| BT50-LBK6-205L | 306.8 | 205 | 167 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 6.9    |
| BT50-LBK6-230L | 331.8 | 230 | 192 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 7.45   |
| BT50-LBK6-270L | 371.8 | 270 | 232 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 8.2    |
| BT50-LBK6-300L | 401.8 | 300 | 262 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 9.5    |
| BT50-LBK6-350L | 451.8 | 350 | 312 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 10.8   |
| BT50-LBK6-400L | 501.8 | 400 | 362 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 11.8   |
| BT50-LBK6-450L | 551.8 | 450 | 412 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 12.8   |

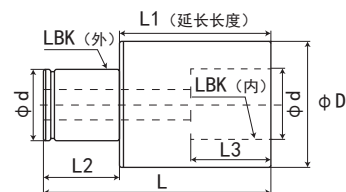
## LBK 等径镗刀延长杆

## LBK EXTENSION CONSTANT DIAMETER

等径镗刀延长杆（镗孔深度不够 LBK 刀柄不够长时最佳选择）



延长杆

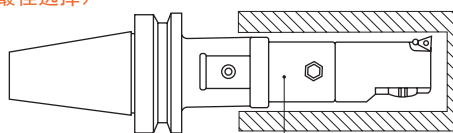


| 规格 / 型号<br>Model | LBK<br>(外) | LBK<br>(内) | φd | φD | L   | L1  | L2 | L3 | 连接镗刀头型号<br>Applicable Boring Heads    | 侧边螺丝<br>Screw | 重量<br>KGS |
|------------------|------------|------------|----|----|-----|-----|----|----|---------------------------------------|---------------|-----------|
| LBK1-1-30L       | LBK1       | LBK1       | 11 | 19 | 43  | 30  | 13 | 18 | CBH20/RBH20                           | M4*0.5P       | 0.07      |
| LBK1-1-100L      | LBK1       | LBK1       | 11 | 19 | 113 | 100 | 13 | 18 | CBH20/RBH20                           | M4*0.5P       | 0.24      |
| LBK2-2-30L       | LBK2       | LBK2       | 14 | 24 | 46  | 30  | 16 | 21 | CBH25/RBH25                           | M5*0.5P       | 0.1       |
| LBK2-2-100L      | LBK2       | LBK2       | 14 | 24 | 116 | 100 | 16 | 21 | CBH25/RBH25                           | M5*0.5P       | 0.35      |
| LBK2-2-150L      | LBK2       | LBK2       | 14 | 24 | 166 | 150 | 16 | 21 | CBH25/RBH25                           | M5*0.5P       | 0.6       |
| LBK3-3-30L       | LBK3       | LBK3       | 14 | 31 | 50  | 30  | 20 | 25 | CBH32/RBH32                           | M6*0.75P      | 0.15      |
| LBK3-3-100L      | LBK3       | LBK3       | 18 | 31 | 120 | 100 | 20 | 25 | CBH32/RBH32                           | M6*0.75P      | 0.52      |
| LBK3-3-150L      | LBK3       | LBK3       | 18 | 31 | 170 | 150 | 20 | 25 | CBH32/RBH32                           | M6*0.75P      | 0.9       |
| LBK4-4-45L       | LBK4       | LBK4       | 22 | 39 | 69  | 45  | 24 | 29 | CBH40/RBH40                           | M8*0.75P      | 0.4       |
| LBK4-4-100L      | LBK4       | LBK4       | 22 | 39 | 124 | 100 | 24 | 29 | CBH40/RBH40                           | M8*0.75P      | 1.4       |
| LBK4-4-150L      | LBK4       | LBK4       | 22 | 39 | 174 | 150 | 24 | 29 | CBH40/RBH40                           | M8*0.75P      | 2.4       |
| LBK5-5-60L       | LBK5       | LBK5       | 28 | 50 | 90  | 60  | 30 | 35 | CBH52/RBH52                           | M10*1.0P      | 0.8       |
| LBK5-5-100L      | LBK5       | LBK5       | 28 | 50 | 130 | 100 | 30 | 35 | CBH52/RBH52                           | M10*1.0P      | 2.8       |
| LBK5-5-150L      | LBK5       | LBK5       | 28 | 50 | 180 | 150 | 30 | 35 | CBH52/RBH52                           | M10*1.0P      | 3.8       |
| LBK6-6-60L       | LBK6       | LBK6       | 36 | 64 | 100 | 60  | 40 | 45 | CBH68/CBH100/CBH150/RBH68/RBH90       | M12*1.0P      | 1.4       |
| LBK6-6-100L      | LBK6       | LBK6       | 36 | 64 | 140 | 100 | 40 | 45 | CBH68/CBH100/CBH150/RBH68/RBH90       | M12*1.0P      | 2.5       |
| LBK6-6-150L      | LBK16      | LBK6       | 36 | 64 | 190 | 150 | 40 | 45 | CBH68/CBH100/CBH150/RBH68/RBH90/NBJ16 | M12*1.0P      | 3.4       |

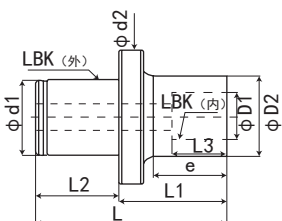
## LBK 异径镗刀延长杆

## LBK EXTENSION REDUCING

异径镗刀延长杆（镗刀 LBK 刀柄要变换接口型号时最佳选择）



减径杆

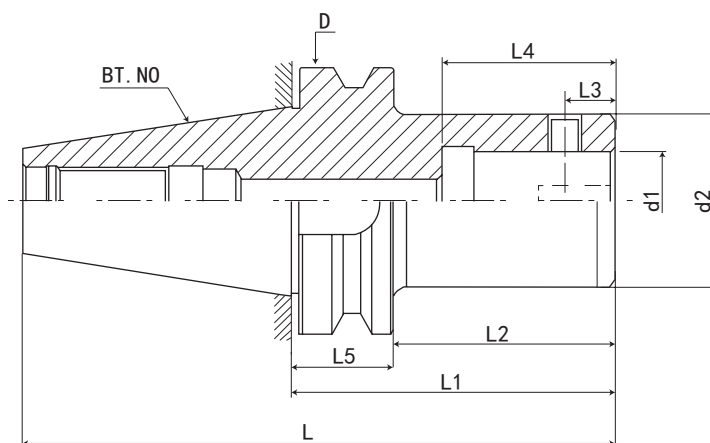


| 规格 / 型号<br>Model | LBK<br>(外) | LBK<br>(内) | φd1 | φd2 | φD1 | φD2 | L   | L1  | L2 | L3 | e  | 连接镗刀头型号<br>Applicable Boring Heads    | 侧边螺丝<br>Screw | 重量<br>KGS |
|------------------|------------|------------|-----|-----|-----|-----|-----|-----|----|----|----|---------------------------------------|---------------|-----------|
| LBK2-1-36L       | LBK2       | LBK1       | 14  | 24  | 11  | 19  | 52  | 36  | 16 | 18 | 30 | CBH20/RBH20                           | M4*0.5P       | 0.1       |
| LBK3-1-41L       | LBK3       | LBK1       | 18  | 31  | 11  | 19  | 61  | 41  | 20 | 18 | 30 | CBH20/RBH20                           | M4*0.5P       | 0.15      |
| LBK3-2-37L       | LBK3       | LBK2       | 18  | 31  | 14  | 24  | 57  | 37  | 20 | 21 | 25 | CBH25/RBH25                           | M5*0.5P       | 0.15      |
| LBK4-1-58L       | LBK4       | LBK1       | 22  | 39  | 11  | 19  | 82  | 58  | 24 | 18 | 40 | CBH20/RBH20                           | M4*0.5P       | 0.3       |
| LBK4-2-50L       | LBK4       | LBK2       | 22  | 39  | 14  | 24  | 74  | 50  | 24 | 21 | 36 | CBH25/RBH25                           | M5*0.5P       | 0.3       |
| LBK4-3-50L       | LBK4       | LBK3       | 22  | 39  | 18  | 31  | 74  | 50  | 24 | 25 | 37 | CBH32/RBH32                           | M6*0.75P      | 0.35      |
| LBK5-1-60L       | LBK5       | LBK1       | 28  | 50  | 11  | 19  | 90  | 60  | 30 | 18 | 40 | CBH20/RBH20                           | M4*0.5P       | 0.45      |
| LBK5-2-54L       | LBK5       | LBK2       | 28  | 50  | 14  | 24  | 84  | 54  | 30 | 21 | 35 | CBH25/RBH25                           | M5*0.5P       | 0.45      |
| LBK5-2-74L       | LBK5       | LBK2       | 28  | 50  | 14  | 24  | 101 | 71  | 30 | 21 | 55 | CBH25/RBH25                           | M5*0.5P       | 0.5       |
| LBK5-3-47L       | LBK5       | LBK3       | 28  | 50  | 18  | 31  | 77  | 47  | 30 | 25 | 29 | CBH32/RBH32                           | M6*0.75P      | 0.5       |
| LBK5-3-72L       | LBK5       | LBK3       | 28  | 50  | 18  | 31  | 102 | 72  | 30 | 25 | 54 | CBH32/RBH32                           | M6*0.75P      | 0.6       |
| LBK5-4-42L       | LBK5       | LBK4       | 28  | 50  | 22  | 39  | 72  | 42  | 30 | 29 | 25 | CBH40/RBH40                           | M8*0.75P      | 0.5       |
| LBK5-4-67L       | LBK5       | LBK4       | 28  | 50  | 22  | 39  | 97  | 67  | 30 | 29 | 50 | CBH40/RBH40                           | M8*0.75P      | 0.45      |
| LBK6-1-70L       | LBK6       | LBK1       | 36  | 64  | 11  | 19  | 110 | 70  | 40 | 18 | 40 | CBH20/RBH20                           | M4*0.5P       | 0.90      |
| LBK6-2-63L       | LBK6       | LBK2       | 36  | 64  | 14  | 24  | 103 | 63  | 40 | 21 | 45 | CBH25/RBH25                           | M5*0.5P       | 0.7       |
| LBK6-2-93L       | LBK6       | LBK2       | 36  | 64  | 14  | 24  | 133 | 93  | 40 | 21 | 75 | CBH25/RBH25                           | M5*0.5P       | 0.8       |
| LBK6-3-56L       | LBK6       | LBK3       | 36  | 64  | 18  | 31  | 96  | 56  | 40 | 25 | 39 | CBH32/RBH32                           | M6*0.75P      | 0.75      |
| LBK6-3-96L       | LBK6       | LBK3       | 36  | 64  | 18  | 31  | 96  | 56  | 40 | 25 | 79 | CBH32/RBH32                           | M6*0.75P      | 0.95      |
| LBK6-4-51L       | LBK6       | LBK4       | 36  | 64  | 22  | 39  | 91  | 51  | 40 | 29 | 35 | CBH40/RBH40                           | M8*0.75P      | 0.85      |
| LBK6-4-101L      | LBK6       | LBK4       | 36  | 64  | 22  | 39  | 141 | 101 | 40 | 29 | 85 | CBH40/RBH40                           | M8*0.75P      | 1.3       |
| LBK6-5-41L       | LBK6       | LBK5       | 36  | 64  | 28  | 50  | 81  | 41  | 40 | 35 | 25 | CBH52/RBH52                           | M10*1.0P      | 0.85      |
| LBK6-5-91L       | LBK6       | LBK5       | 36  | 64  | 28  | 50  | 131 | 91  | 40 | 35 | 75 | CBH52/RBH52                           | M10*1.0P      | 1.45      |
| BST-LBK6         | BST        | LBK6       | 50  | 95  | 36  | 64  | -   | 100 | -  | 45 | 60 | CBH68/CBH100/CBH150/RBH68/RBH90/NBJ16 | M12*1.0P      | 3.32      |

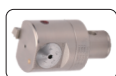
# 镗孔刀具系列 BORING HEAD

## BT30/40-CK 镗头刀柄

## BT30/40-CK BORING HEAD SHANK



P.129



P.J39



P.130

| 规格 / 型号 Model | L     | L1  | L2  | L3   | L4 | L5 | D  | d2 | d1 | 侧边螺丝 Screw | 重量 KGS |
|---------------|-------|-----|-----|------|----|----|----|----|----|------------|--------|
| BT30-CK1-55L  | 103.4 | 55  | 33  | 5.05 | 30 | 22 | 46 | 19 | 11 | M4*0.5P    | 0.7    |
| BT30-CK1-70L  | 118.4 | 70  | 48  | 5.05 | 30 | 22 | 46 | 19 | 11 | M4*0.5P    | 0.7    |
| BT30-CK2-80L  | 128.4 | 80  | 58  | 6.62 | 31 | 22 | 46 | 24 | 14 | M5*0.5P    | 0.8    |
| BT30-CK3-80L  | 128.4 | 80  | 58  | 8    | 35 | 22 | 46 | 31 | 18 | M6*0.75P   | 0.9    |
| BT30-CK4-70L  | 118.4 | 70  | 48  | 10   | 39 | 22 | 46 | 39 | 22 | M8*0.75P   | 1.0    |
| BT30-CK5-60L  | 108.4 | 60  | 38  | 13   | 45 | 22 | 46 | 50 | 28 | M10*1.0P   | 1.1    |
| BT30-CK6-60L  | 108.4 | 60  | 38  | 16   | 55 | 22 | 46 | 63 | 36 | M12*1.0P   | 1.2    |
| 规格 / 型号 Model | L     | L1  | L2  | L3   | L4 | L5 | D  | d2 | d1 | 侧边螺丝 Screw | 重量 KGS |
| BT40-CK1-75L  | 140.4 | 75  | 48  | 5.05 | 30 | 27 | 63 | 19 | 11 | M4*0.5P    | 1      |
| BT40-CK1-105L | 170.4 | 105 | 78  | 5.05 | 30 | 27 | 63 | 19 | 11 | M4*0.5P    | 1.2    |
| BT40-CK2-85L  | 150.4 | 85  | 58  | 6.62 | 31 | 27 | 63 | 24 | 14 | M5*0.5P    | 1.2    |
| BT40-CK2-115L | 180.4 | 115 | 88  | 6.62 | 31 | 27 | 63 | 24 | 14 | M5*0.5P    | 1.3    |
| BT40-CK3-95L  | 160.4 | 95  | 68  | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.3    |
| BT40-CK3-125L | 190.4 | 125 | 98  | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.2    |
| BT40-CK3-155L | 220.4 | 155 | 128 | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.6    |
| BT40-CK3-185L | 250.4 | 185 | 158 | 8    | 35 | 27 | 63 | 31 | 18 | M6*0.75P   | 1.7    |
| BT40-CK4-85L  | 150.4 | 85  | 58  | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 1.45   |
| BT40-CK4-130L | 195.4 | 130 | 103 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 1.5    |
| BT40-CK4-175L | 240.4 | 175 | 148 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 2.1    |
| BT40-CK4-205L | 270.4 | 205 | 178 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 2.2    |
| BT40-CK4-250L | 315.4 | 250 | 223 | 10   | 39 | 27 | 63 | 39 | 22 | M8*0.75P   | 2.3    |
| BT40-CK5-75L  | 140.4 | 75  | 48  | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 1.7    |
| BT40-CK5-125L | 190.4 | 125 | 98  | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 1.95   |
| BT40-CK5-175L | 240.4 | 175 | 148 | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 3      |
| BT40-CK5-205L | 270.4 | 205 | 178 | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 3.2    |
| BT40-CK5-250L | 315.4 | 250 | 223 | 13   | 45 | 27 | 63 | 50 | 28 | M10*1.0P   | 3.5    |
| BT40-CK6-65L  | 130.4 | 65  | 38  | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 2.15   |
| BT40-CK6-115L | 180.4 | 115 | 88  | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 3.5    |
| BT40-CK6-165L | 230.4 | 165 | 138 | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 3.85   |
| BT40-CK6-205L | 270.4 | 205 | 178 | 16   | 55 | 27 | 63 | 63 | 36 | M12*1.0P   | 4.1    |

### 特点:

注:

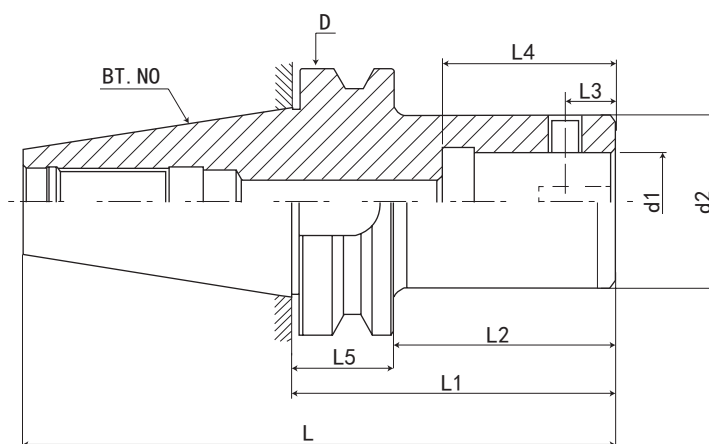
- ◎内孔公差 H6
- ◎整支通孔, 利于出水及抗震
- ◎可共用并互容于大多数 "CK" 系列
- ◎侧边锁固螺丝与键槽呈 90 度, 确保镗孔切削完毕时的相对位置
- ◎锁固时请使用螺丝防卡油防止因镗孔加工扭力过大, 导致螺丝卡死难以拆卸组装
- ◎拉钉须另行购买

### Features:

- ◎ Internal tolerance is H6.
- ◎ The entire through hole, favors the water leakage and quakeproof.
- ◎ May use in common and the mutual capacitance in majority "CK" Series.
- ◎ The side locks the solid screw and the key slot assumes 90 degrees, guaranteed that time the boring cutting function draws back the knife phase.
- ◎ Because locks is solid when please do use the screw against card oil to prevent to process the torsion to be oversized boring, Causes the screw deactivation to disassemble the assembly with difficulty.
- ◎ The pull stud must purchase alone.

# BT50-CK 镗头刀柄

## BT50-CK BORING HEAD SHANK



P.129



P.J39



P.130

| 规格 / 型号 Model  | L     | L1  | L2  | L3   | L4 | L5 | D   | d2 | d1 | 侧边螺丝 Screw | 重量 KGS |
|----------------|-------|-----|-----|------|----|----|-----|----|----|------------|--------|
| BT50-CK1-90L   | 191.8 | 90  | 52  | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 3.7    |
| BT50-CK1-115L  | 216.8 | 115 | 77  | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 3.9    |
| BT50-CK1-145L  | 246.8 | 145 | 107 | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 4.4    |
| BT50-CK1-175L  | 276.8 | 175 | 137 | 5.05 | 30 | 38 | 100 | 19 | 11 | M4*0.5P    | 4.5    |
| BT50-CK2-90L   | 191.8 | 90  | 52  | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 3.8    |
| BT50-CK2-110L  | 211.8 | 110 | 72  | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 4      |
| BT50-CK2-140L  | 241.8 | 140 | 102 | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 5      |
| BT50-CK2-175L  | 276.8 | 175 | 137 | 6.62 | 31 | 38 | 100 | 24 | 14 | M5*0.5P    | 4.2    |
| BT50-CK3-90L   | 191.8 | 90  | 52  | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.4    |
| BT50-CK3-125L  | 226.8 | 125 | 87  | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.4    |
| BT50-CK3-155L  | 256.8 | 155 | 117 | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.6    |
| BT50-CK3-185L  | 286.8 | 185 | 147 | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.4    |
| BT50-CK3-215L  | 316.8 | 215 | 177 | 8    | 35 | 38 | 100 | 31 | 18 | M6*0.75P   | 4.65   |
| BT50-CK4-90L   | 191.8 | 90  | 52  | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.6    |
| BT50-CK4-115L  | 216.8 | 115 | 77  | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.8    |
| BT50-CK4-145L  | 246.8 | 145 | 107 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.2    |
| BT50-CK4-175L  | 276.8 | 175 | 137 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.6    |
| BT50-CK4-205L  | 306.8 | 205 | 167 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 4.85   |
| BT50-CK4-250L  | 351.8 | 250 | 212 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.2    |
| BT50-CK4-300L  | 401.8 | 300 | 262 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.5    |
| BT50-DCK4-350L | 451.8 | 350 | 312 | 10   | 39 | 38 | 100 | 39 | 22 | M8*0.75P   | 5.8    |
| BT50-CK5-90L   | 191.8 | 90  | 52  | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 5.4    |
| BT50-CK5-105L  | 206.8 | 105 | 67  | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 5.5    |
| BT50-CK5-150L  | 251.8 | 150 | 112 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6      |
| BT50-CK5-180L  | 281.8 | 180 | 142 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6.2    |
| BT50-CK5-240L  | 341.8 | 240 | 202 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6.4    |
| BT50-CK5-270L  | 371.8 | 270 | 232 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 6.7    |
| BT50-CK5-300L  | 401.8 | 300 | 262 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 7      |
| BT50-CK5-350L  | 451.8 | 350 | 312 | 13   | 45 | 38 | 100 | 50 | 28 | M10*1.0P   | 7.3    |
| BT50-CK6-95L   | 196.8 | 95  | 57  | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 5.9    |
| BT50-CK6-150L  | 251.8 | 150 | 112 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 6.5    |
| BT50-CK6-170L  | 271.8 | 170 | 132 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 6.3    |
| BT50-CK6-205L  | 306.8 | 205 | 167 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 6.9    |
| BT50-CK6-230L  | 331.8 | 230 | 192 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 7.45   |
| BT50-CK6-270L  | 371.8 | 270 | 232 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 8.2    |
| BT50-CK6-300L  | 401.8 | 300 | 262 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 9.5    |
| BT50-CK6-350L  | 451.8 | 350 | 312 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 10.8   |
| BT50-CK6-400L  | 501.8 | 400 | 362 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 9.5    |
| BT50-CK6-450L  | 551.8 | 450 | 412 | 16   | 55 | 38 | 100 | 63 | 36 | M12*1.0P   | 10.8   |



BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## CK 等径延长杆

CK EXTENSION CONSTANT DIAMETER

等径镗刀延长杆 (连接在基础柄和镗头之间, 延长加工深度)

中心内冷

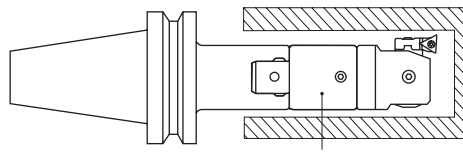
型号说明

CK11

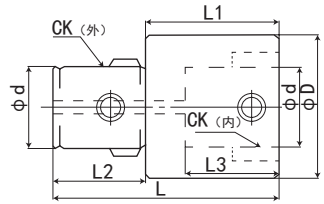
20

延长的长度 L

CK1 与 CK1 连接



延长杆



| 型号        | CK (外) | CK (内) | ΦD | Φd | L   | L1  | L2 | L3 | 连接镗刀头型号 Applicable Boring Heads                         | 侧边螺丝 Screw | 质量 (kg) |
|-----------|--------|--------|----|----|-----|-----|----|----|---------------------------------------------------------|------------|---------|
| CK11-20L  | 1      | 1      | 19 | 11 | 33  | 20  | 13 | 18 | EWN20                                                   | M4*0.5P    | 0.05    |
| CK11-30L  | 1      | 1      | 19 | 11 | 43  | 30  | 13 | 18 | EWN20                                                   | M4*0.5P    | 0.07    |
| CK22-30L  | 2      | 2      | 24 | 14 | 46  | 30  | 16 | 21 | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.10    |
| CK22-45L  | 2      | 2      | 24 | 14 | 61  | 45  | 16 | 21 | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.15    |
| CK33-30L  | 3      | 3      | 31 | 18 | 50  | 30  | 20 | 25 | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 0.17    |
| CK33-45L  | 3      | 3      | 31 | 18 | 65  | 45  | 20 | 25 | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 0.25    |
| CK44-45L  | 4      | 4      | 39 | 22 | 69  | 45  | 24 | 29 | EWN41/RW41/ABH40/CBH41                                  | M8*0.75P   | 0.40    |
| CK44-60L  | 4      | 4      | 39 | 22 | 84  | 60  | 24 | 29 | EWN41/RW41/ABH40/CBH41                                  | M8*0.75P   | 0.53    |
| CK55-60L  | 5      | 5      | 50 | 28 | 90  | 60  | 30 | 35 | EWN53/RW53/ABH50/CBH53                                  | M10*1.0P   | 0.87    |
| CK55-90L  | 5      | 5      | 50 | 28 | 120 | 90  | 30 | 35 | EWN53/RW53/ABH50/CBH53                                  | M10*1.0P   | 1.29    |
| CK66-60L  | 6      | 6      | 64 | 36 | 100 | 60  | 40 | 45 | EWN68/EWN100/RW68/RW100/ABH63/ABH80/CBH68/CBH100/CBH150 | M12*1.0P   | 1.38    |
| CK66-100L | 6      | 6      | 64 | 36 | 140 | 100 | 40 | 45 | EWN68/EWN100/RW68/RW100/ABH63/ABH80/CBH68/CBH100/CBH150 | M12*1.0P   | 2.31    |
| CK77-105L | 7      | 7      | 90 | -  | -   | 105 | -  | -  | EWN100                                                  | -          | 5.26    |

## CK 异径延长杆 (大接小)

CK EXTENSION REDUCING

异径镗刀延长杆 (减小基础柄的外径, 安装较小镗头时使用)

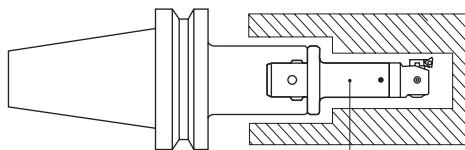
型号说明

CK21

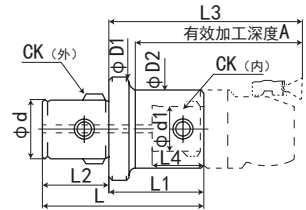
55

有效加工深度 A

从 CK2 减为 CK1



减径杆



| 型号        | CK (外) | CK (内) | ΦD1 | ΦD2 | Φd | Φd1 | L     | L1   | L2 | L3   | L4 | A   | 连接镗刀头型号 Applicable Boring Heads                         | 侧边螺丝 Screw | 质量 (kg) |
|-----------|--------|--------|-----|-----|----|-----|-------|------|----|------|----|-----|---------------------------------------------------------|------------|---------|
| CK21-55L  | 2      | 1      | 24  | 19  | 14 | 11  | 52    | 36   | 16 | 68.5 | 18 | 55  | EWN20                                                   | M4*0.5P    | 0.10    |
| CK31-60L  | 3      | 1      | 31  | 19  | 18 | 11  | 60.5  | 40.5 | 20 | 73   | 18 | 60  | EWN20                                                   | M4*0.5P    | 0.14    |
| CK32-60L  | 3      | 2      | 31  | 24  | 18 | 14  | 54.5  | 34.5 | 20 | 70   | 21 | 60  | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.16    |
| CK41-75L  | 4      | 1      | 39  | 29  | 22 | 11  | 81.5  | 57.5 | 24 | 90   | 18 | 75  | EWN20                                                   | M4*0.5P    | 0.25    |
| CK42-75L  | 4      | 2      | 39  | 24  | 22 | 14  | 75.5  | 51.5 | 24 | 87   | 21 | 75  | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.28    |
| CK43-75L  | 4      | 3      | 39  | 31  | 22 | 18  | 71    | 47   | 24 | 87   | 25 | 75  | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 0.32    |
| CK51-70L  | 5      | 1      | 50  | 19  | 28 | 11  | 87.5  | 57.5 | 30 | 90   | 18 | 70  | EWN20                                                   | M4*0.5P    | 0.38    |
| CK52-70L  | 5      | 2      | 50  | 24  | 28 | 14  | 81.5  | 51.5 | 30 | 87   | 21 | 70  | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.40    |
| CK52-100L | 5      | 2      | 50  | 24  | 28 | 14  | 121.5 | 81.5 | 30 | 117  | 21 | 100 | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.51    |
| CK53-70L  | 5      | 3      | 50  | 31  | 28 | 18  | 77    | 47   | 30 | 87   | 25 | 70  | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 0.54    |
| CK53-100L | 5      | 3      | 50  | 31  | 28 | 18  | 107   | 77   | 30 | 117  | 25 | 100 | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 0.64    |
| CK54-70L  | 5      | 4      | 50  | 39  | 28 | 22  | 70    | 40   | 30 | 87   | 29 | 70  | EWN41/RW41/ABH40/CBH41                                  | M8*0.75P   | 0.47    |
| CK54-100L | 5      | 4      | 50  | 39  | 28 | 22  | 100   | 70   | 30 | 117  | 29 | 100 | EWN41/RW41/ABH40/CBH41                                  | M8*0.75P   | 0.82    |
| CK61-65L  | 6      | 1      | 64  | 19  | 36 | 11  | 106.5 | 66.5 | 40 | 99   | 18 | 65  | EWN20                                                   | M4*0.5P    | 0.84    |
| CK62-80L  | 6      | 2      | 64  | 24  | 36 | 14  | 100.5 | 60.5 | 40 | 96   | 21 | 80  | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.69    |
| CK62-115L | 6      | 2      | 64  | 24  | 36 | 14  | 135.5 | 95.5 | 40 | 131  | 21 | 115 | EWN25/RW25/ABH25/CBH25                                  | M5*0.5P    | 0.98    |
| CK63-80L  | 6      | 3      | 64  | 31  | 36 | 18  | 96    | 56   | 40 | 96   | 25 | 80  | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 0.75    |
| CK63-115L | 6      | 3      | 64  | 31  | 36 | 18  | 131   | 91   | 40 | 131  | 25 | 115 | EWN32/RW32/ABH32/CBH32                                  | M6*0.75P   | 1.12    |
| CK64-80L  | 6      | 4      | 64  | 39  | 36 | 22  | 139   | 49   | 40 | 96   | 29 | 80  | EWN41/RW41/ABH40/CBH41                                  | M8*0.75P   | 0.80    |
| CK64-115L | 6      | 4      | 64  | 39  | 36 | 22  | 124   | 84   | 40 | 131  | 29 | 115 | EWN41/RW41/ABH40/CBH41                                  | M8*0.75P   | 1.28    |
| CK65-80L  | 6      | 5      | 64  | 50  | 36 | 28  | 79    | 39   | 40 | 96   | 35 | 80  | EWN53/RW53/ABH50/CBH53                                  | M10*1.0P   | 0.92    |
| CK65-115L | 6      | 5      | 64  | 50  | 36 | 28  | 114   | 74   | 40 | 131  | 35 | 115 | EWN53/RW53/ABH50/CBH53                                  | M10*1.0P   | 1.33    |
| CK76-160L | 7      | 6      | 90  | 64  | -  | 36  | -     | 106  | -  | 177  | 45 | 160 | EWN68/EWN100/RW68/RW100/ABH63/ABH80/CBH68/CBH100/CBH150 | M12*1.0P   | 3.1     |

# SK/DAT-BST 镗孔组合刀柄

## SK/DAT-BST BORING SYSTEM

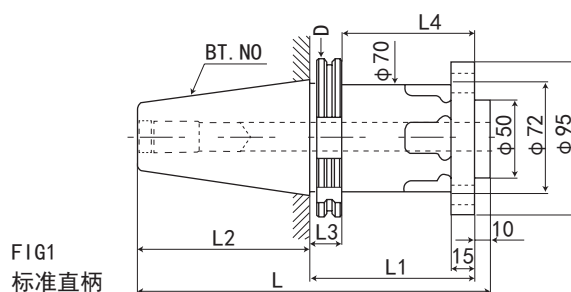


FIG1  
标准直柄

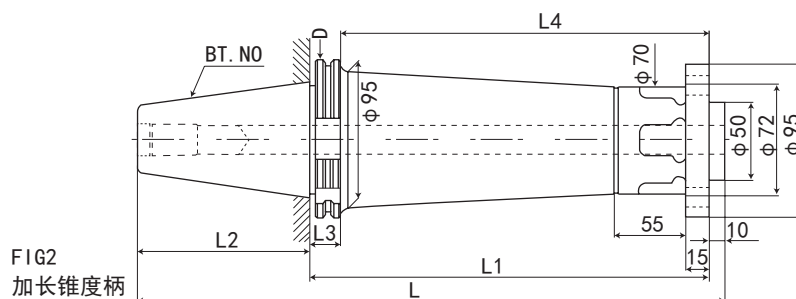


FIG2  
加长锥度柄



P.129



P.375



P.375

| 规格 / 型号 Model | L      | L1  | L2     | L3 | L4  | SK/DAT.NO | FIG  |
|---------------|--------|-----|--------|----|-----|-----------|------|
| SK40-BST-100L | 178.4  | 100 | 68.4   | 19 | 81  | SK/DAT40  | FIG1 |
| SK40-BST-150L | 228.4  | 150 | 68.4   | 19 | 131 | SK/DAT40  | FIG1 |
| SK40-BST-200L | 278.4  | 200 | 68.4   | 19 | 181 | SK/DAT40  | FIG1 |
| SK40-BST-250L | 328.4  | 250 | 68.4   | 19 | 231 | SK/DAT40  | FIG1 |
| SK40-BST-300L | 378.4  | 300 | 65.4   | 19 | 281 | SK/DAT40  | FIG1 |
| SK50-BST-100L | 211.95 | 100 | 101.95 | 19 | 81  | SK/DAT50  | FIG1 |
| SK50-BST-150L | 261.95 | 150 | 101.95 | 19 | 131 | SK/DAT50  | FIG1 |
| SK50-BST-200L | 311.95 | 200 | 101.95 | 19 | 181 | SK/DAT50  | FIG1 |
| SK50-BST-250L | 361.95 | 250 | 101.95 | 19 | 231 | SK/DAT50  | FIG1 |
| SK50-BST-300L | 411.95 | 300 | 101.95 | 19 | 281 | SK/DAT50  | FIG2 |
| SK50-BST-350L | 461.95 | 350 | 101.95 | 19 | 331 | SK/DAT50  | FIG2 |
| SK50-BST-400L | 511.95 | 400 | 101.95 | 19 | 381 | SK/DAT50  | FIG2 |
| SK50-BST-450L | 561.95 | 450 | 101.95 | 19 | 431 | SK/DAT50  | FIG2 |
| SK50-BST-500L | 611.95 | 500 | 101.95 | 19 | 481 | SK/DAT50  | FIG2 |

### 特点:

#### 注:

- ◎整支通孔，利于出水及抗震
- ◎非标可订制（400L/450L/500L/600L）
- ◎列表中的产品规格以库存实物为准
- ◎拉钉须另行购买

### Features:

- ◎ The entire through hole,favors the water leakage and quakeproof.
- ◎ Can be made upon requested Dimensions
- ◎ The list of product's specifications reference to material object.
- ◎ The pull stud must purchase alone.

# 镗孔刀具系列BORING HEAD

## BT-BST 镗孔组合刀柄

## BT-BST BORING SYSTEM



FIG1  
标准直柄

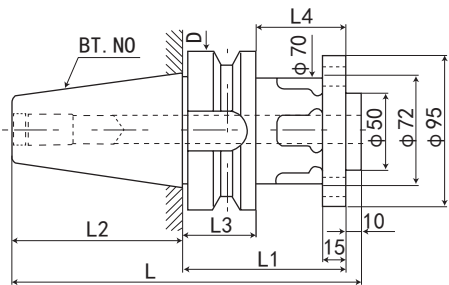
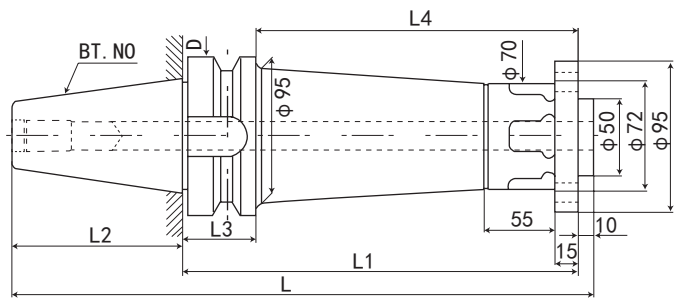


FIG2  
加长锥度柄



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P.375



P.375

| 规格 / 型号 Model | L     | L1  | L2    | L3 | L4  | BT.NO | FIG  |
|---------------|-------|-----|-------|----|-----|-------|------|
| BT40-BST-100L | 175.4 | 100 | 65.4  | 27 | 73  | BT40  | FIG1 |
| BT40-BST-150L | 225.4 | 150 | 65.4  | 27 | 123 | BT40  | FIG1 |
| BT40-BST-200L | 275.4 | 200 | 65.4  | 27 | 173 | BT40  | FIG1 |
| BT40-BST-250L | 325.4 | 250 | 65.4  | 27 | 223 | BT40  | FIG1 |
| BT40-BST-300L | 375.4 | 300 | 65.4  | 27 | 273 | BT40  | FIG1 |
| BT50-BST-100L | 211.8 | 100 | 101.8 | 38 | 62  | BT50  | FIG1 |
| BT50-BST-150L | 261.8 | 150 | 101.8 | 38 | 112 | BT50  | FIG1 |
| BT50-BST-200L | 311.8 | 200 | 101.8 | 38 | 162 | BT50  | FIG1 |
| BT50-BST-250L | 361.8 | 250 | 101.8 | 38 | 212 | BT50  | FIG1 |
| BT50-BST-300L | 411.8 | 300 | 101.8 | 38 | 262 | BT50  | FIG2 |
| BT50-BST-350L | 461.8 | 350 | 101.8 | 38 | 312 | BT50  | FIG2 |
| BT50-BST-400L | 511.8 | 400 | 101.8 | 38 | 362 | BT50  | FIG2 |
| BT50-BST-450L | 561.8 | 450 | 101.8 | 38 | 412 | BT50  | FIG2 |
| BT50-BST-500L | 611.8 | 500 | 101.8 | 38 | 462 | BT50  | FIG2 |

### 特点:

#### 注:

- ◎整支通孔，利于出水及抗震
- ◎非标可订制（400L/450L/500L/600L）
- ◎列表中的产品规格以库存实物为准
- ◎拉钉须另行购买

### Features:

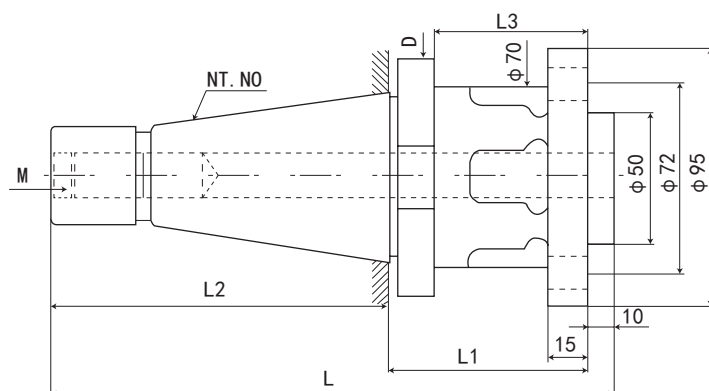
- ◎ The entire through hole,favors the water leakage and quakeproof.
- ◎ Can be made upon requested Dimensions
- ◎ The list of product's specifications reference to material object.
- ◎ The pull stud must purchase alone.

## NT-BST 镗孔组合刀柄

## NT-BST BORING SYSTEM



P.292



| 规格 / 型号 Model | NT.N0 | L     | L1  | L2  | L3  | M         | D   | 连接镗刀头型号 Applicable Boring Heads | 重量 KGS |
|---------------|-------|-------|-----|-----|-----|-----------|-----|---------------------------------|--------|
| NT40-BST-100L | NT40  | 203.4 | 100 | 95  | 85  | M12*1.75P | 63  | CBH150/200/300 以上 RBH120/160 以上 | 2.6    |
| NT40-BST-150L | NT40  | 253.4 | 150 | 95  | 135 | M12*1.75P | 63  | CBH150/200/300 以上 RBH120/160 以上 | 3.2    |
| NT50-BST-100L | NT50  | 236.8 | 100 | 130 | 85  | M24*3.0P  | 100 | CBH150/200/300 以上 RBH120/160 以上 | 5.7    |
| NT50-BST-150L | NT50  | 286.8 | 150 | 130 | 135 | M24*3.0P  | 100 | CBH150/200/300 以上 RBH120/160 以上 | 7.4    |
| NT50-BST-200L | NT50  | 336.8 | 200 | 130 | 185 | M24*3.0P  | 100 | CBH150/200/300 以上 RBH120/160 以上 | 8.8    |

### 特点:

注:

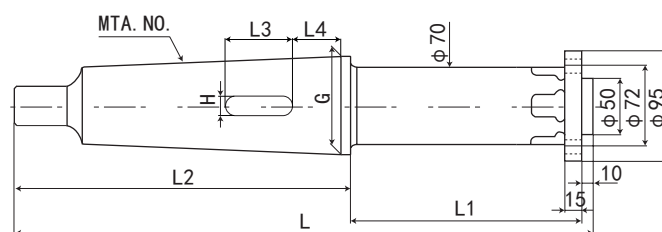
- ◎整支通孔, 利于出水及抗震
- ◎非标可订制 (400L/450L/500L/600L)
- ◎列表中的产品规格以库存实物为准

### Features:

- ◎ The entire through hole, favors the water leakage and quakeproof.
- ◎ Can be made upon requested Dimensions
- ◎ The list of product's specifications reference to material object.

## 莫氏 MTA-BST 镗孔组合刀柄

## MS MTA-BST BORING SYSTEM



| 规格 / 型号 Model  | MTA.N0 | L   | L1  | L2  | L3 | L4 | H  | G      | 连接镗刀头型号 Applicable Boring Heads |
|----------------|--------|-----|-----|-----|----|----|----|--------|---------------------------------|
| MTA5-BST-100L  | MTA5   | 266 | 100 | 156 | 40 | 35 | 13 | 44.399 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA5-BST-150L  | MTA5   | 316 | 150 | 156 | 40 | 35 | 13 | 44.399 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA5-BST-200L  | MTA5   | 366 | 200 | 156 | 40 | 35 | 13 | 44.399 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA6-BST-100L  | MTA6   | 328 | 100 | 218 | 40 | 45 | 17 | 63.348 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA6-BST-150L  | MTA6   | 378 | 150 | 218 | 40 | 45 | 17 | 63.348 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA6-BST-200L  | MTA6   | 428 | 200 | 218 | 40 | 45 | 17 | 63.348 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA6-BST-250L  | MTA6   | 478 | 250 | 218 | 40 | 45 | 17 | 63.348 | CBH150/200/300 以上 RBH120/160 以上 |
| MTA6-BST-300L  | MTA6   | 528 | 300 | 218 | 40 | 45 | 17 | 63.348 | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-100L | 公制 80  | 338 | 100 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-150L | 公制 80  | 388 | 150 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-200L | 公制 80  | 438 | 200 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-250L | 公制 80  | 488 | 250 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-300L | 公制 80  | 538 | 300 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-350L | 公制 80  | 588 | 350 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |
| 公制 80-BST-400L | 公制 80  | 638 | 400 | 228 | 45 | 55 | 20 | 80.00  | CBH150/200/300 以上 RBH120/160 以上 |

### 特点:

注:

- ◎非标可订制 (400L/450L/500L/600L)
- ◎列表中的产品规格以库存实物为准

### Features:

- ◎ Can be made upon requested Dimensions
- ◎ The list of product's specifications reference to material object.



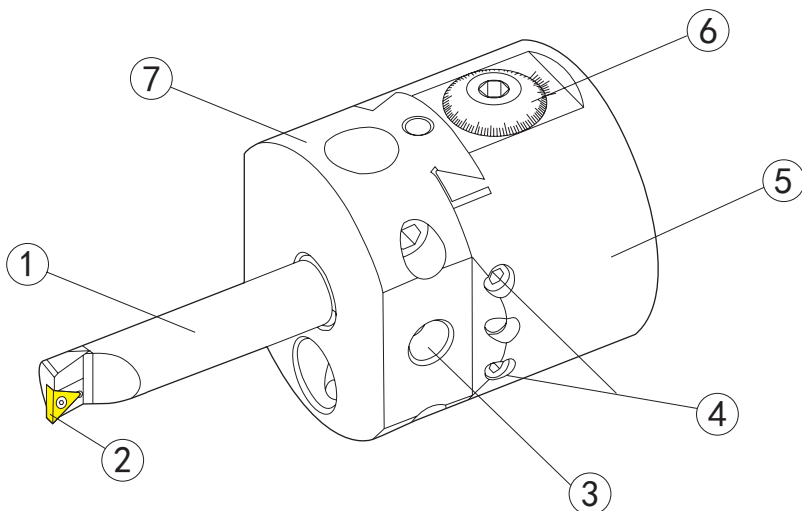
BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## NBH2084 产品主要部位名称

THE NAME OF THE MAIN PART OF PRODUCTS WITH NBH2084

- ① NBH2084 boring bar  
NBH2084 刀杆
- ② Insert  
刀片
- ③ Lock screw for boring bar  
刀杆固定螺丝
- ④ Lock screw for adjustment  
滑座固定螺丝
- ⑤ Body  
底座
- ⑥ Micro adjusting knob  
微调旋钮
- ⑦ Head slide  
头部滑座



## 使用顺序 / Sequence of Use

请参照图示，按下列顺序 1-6 顺序操作：

步骤一：在加工尺寸范围内固定好刀杆，用专用扳手旋紧螺丝稳固刀杆。

步骤二：松开燕尾槽固定螺丝 2 枚。

步骤三：按逆时针方向旋转调旋钮，使加工直径增大，调整旋钮刻度为  $\phi 0.01\text{mm}$ 。

步骤四：顺时针方向旋转时则使加工直径减小。

步骤五：调整尺寸加工时，请按同方向微调，以确保微调精度。

步骤六：微调至所需尺寸时，请以适当扭力锁紧镗头座体 2 枚 M8 螺丝，使滑座稳固在座体上。

Please operate the following step(1-6) according to the diagram figured;

Step1. Fixing the cutting tools in the processing size range, using special wrench to rotate the screws.

Step2. Loosening the swallowtail solid groove, fixing with two screws.

Step3. Rotating tune knob by anti-clockwise to increase the processing diameter, the graduate is  $\phi 0.01\text{mm}$ .

Step4. Rotating by clockwise will decrease the processing diameter.

Step5. When adjusting the size of processing, please fine-tuning by the same direction to ensure micro adjustment Precision.

Step6. When meet the demanded size, please use the proper force to fasten two M8 screws of the boring then the slide can fixed to the block body.

## 使用者注意事项 / Notices of The User

1. 请使用在加工范围内。
2. 当滑座在已锁紧状态下，请勿旋转调整旋钮，否则会导致调整机构被破坏。
3. 滑座之固定，请使用专用扳手，固定座体与滑座配合 2 枚 M8 螺丝，过度锁紧会导致座体移位，过松会造成精度不良。
4. 本产品是由精密螺丝、移动滑座旋转调整旋钮，在阻力很大或无法转动时，请停止调整，并确认以下事项：
  - ① 导向轴固定螺丝是否松开。
  - ② 是否超出调整范围。
  - ③ 当过度旋转调整旋钮时，会导致调整螺杆与 T 型螺母卡死，以致滑座脱落，导致镗头精度被破坏。

1 Using in the range of processing.

2 Do not rotate the adjustment knob when the slide is tightly locked, or the adjusting mechanism will be destroyed.

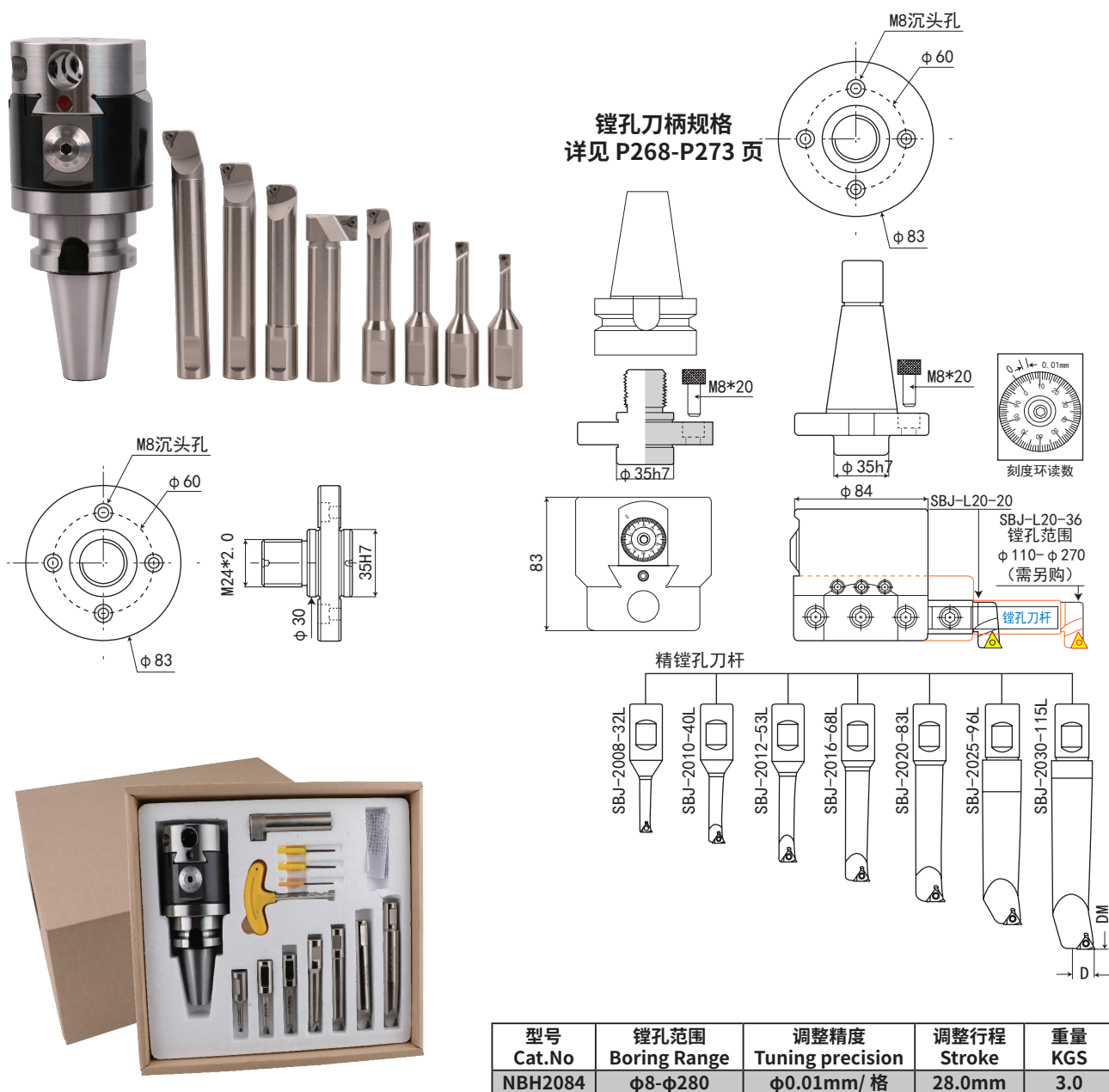
3 Please use special wrench to fix the slide with two M8 screws, too much force will be seat shift, on the contrary, there will be accuracy of non-performing.

4 Our products use micro screws, mobile slide to rotate the adjusting knob. You should make sure the following notices and adjusting with great resistance or it can not move:

- ① Whether the guiding shaft of the fixed screw is loosened.
- ② Whether it is out of the adjustment range.
- ③ Too much force will make screw stem and T nut dead, thus the slide will come off to undermine precision.

# NBH2084 微调精镗头

NBH2084 FINE-TUNING BORING HEAD



# NBH2084 微调精镗头套装

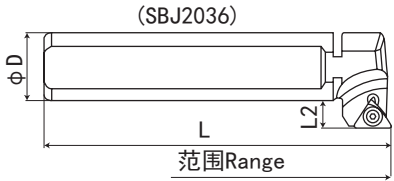
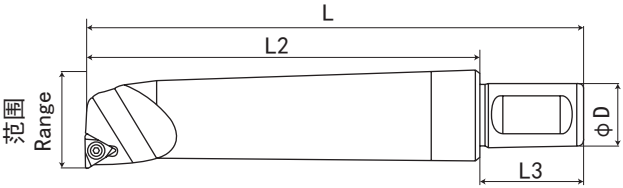
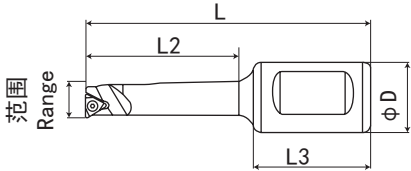
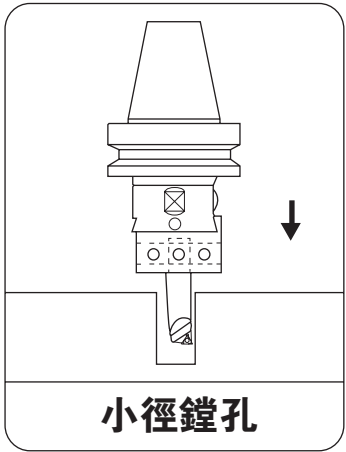
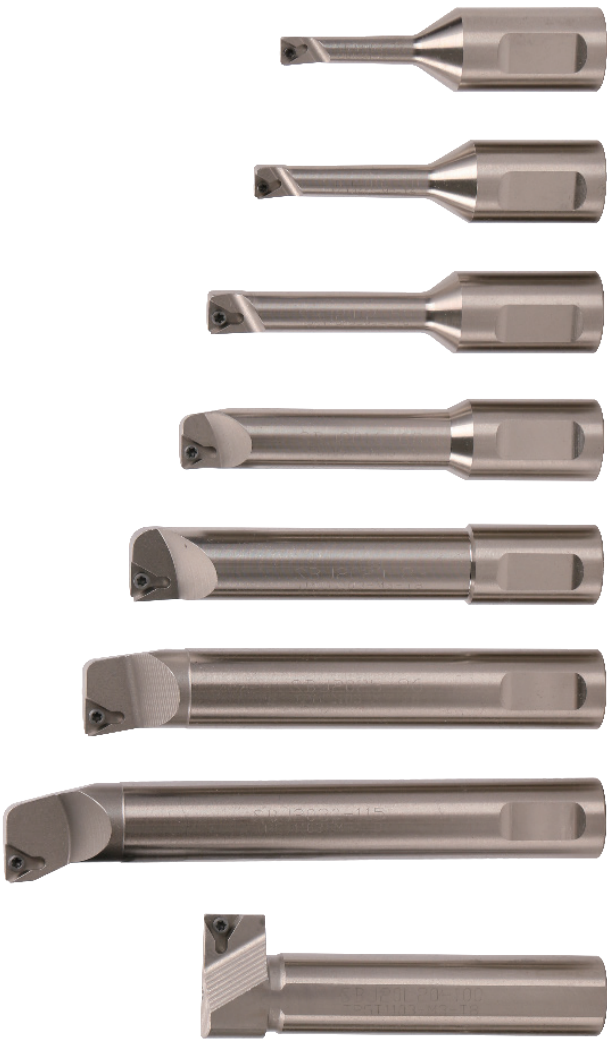
NBH2084 FINE-TUNING BORING HEAD

| 规格 / 型号 Model | 镗孔范围 Boring Range | 组合系统 - 主轴柄规格               | 重量 KGS |
|---------------|-------------------|----------------------------|--------|
| R8-NBH2084    | 08-280            | R8-UNF7/16-20NBH2084       | 10.0   |
| NT30-NBH2084  | 08-280            | DIN2080 ISO30M12-NBH2084   | 8.0    |
| NT40-NBH2084  | 08-280            | DIN2080 ISO 40M-16-NBH2084 | 9.5    |
| NT50-NBH2084  | 08-280            | DIN2080 ISO50M24-NBH2084   | 10.8   |
| BT30-NBH2084  | 08-280            | MAS403 BT30-NBH2084        | 8.0    |
| BT40-NBH2084  | 08-280            | MAS403 BT40-NBH2084        | 9.5    |
| BT50-NBH2084  | 08-280            | MAS403 BT50-NBH2084        | 12.0   |
| MTA3-NBH2084  | 08-280            | MTA3-NBH2084               | 8.5    |
| MTA4-NBH2084  | 08-280            | MTA4-NBH2084               | 8.5    |
| MTA5-NBH2084  | 08-280            | MTA5-NBH2084               | 9.5    |
| MTA6-NBH2084  | 08-280            | MTA6-NBH2084               | 10.5   |
| MTB3-NBH2084  | 08-280            | MTB3-NBH2084               | 8.0    |
| MTB4-NBH2084  | 08-280            | MTB4-NBH2084               | 8.5    |
| MTB5-NBH2084  | 08-280            | MTB5-NBH2084               | 9.5    |

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## NBH2084 替换式镗孔刀杆 NBH2084 INTERCHANGEABLE BORING CUTTER



| 规格 / 型号 Model     | 尺寸 Size(mm) |          |     |     |    | 刀片 Insert                                                                           |                          | 螺丝 Screw       | 扳手 Wrench |
|-------------------|-------------|----------|-----|-----|----|-------------------------------------------------------------------------------------|--------------------------|----------------|-----------|
|                   | D           | 范围 Range | L   | L2  | L3 |                                                                                     |                          |                |           |
| SBJ2008-32L       | 20          | 8-11     | 80  | 32  | 32 |  | TBGT060102<br>TBGT060104 | SB-1STR-M2*5.0 | T6        |
| SBJ2010-40L       | 20          | 10-13    | 87  | 40  | 32 |                                                                                     |                          |                |           |
| SBJ2012-53L       | 20          | 12-17    | 98  | 53  | 32 |                                                                                     |                          |                |           |
| SBJ2016-68L       | 20          | 16-21    | 110 | 68  | 32 |                                                                                     |                          |                |           |
| SBJ2020-83L       | 20          | 20-130   | 123 | 83  | 32 |                                                                                     |                          |                |           |
| SBJ2025-96L       | 20          | 25-135   | 137 | 96  | 32 |                                                                                     |                          |                |           |
| SBJ2030-115L      | 20          | 30-140   | 152 | 115 | 32 |                                                                                     |                          |                |           |
| SBJ20-20-100L     | 20          | 120-280  | 97  | 100 | 32 |                                                                                     |                          |                |           |
| SBJ2020-150L(加长)  | 20          | 20-130   | 190 | 150 | 32 |  | TPGH110302<br>TPGH110304 | SB-3TR-M3*8.0  | T10       |
| SBJ2020-200L(加长)  | 20          | 20-130   | 240 | 200 | 32 |                                                                                     |                          |                |           |
| SBJ2025-150L(加长)  | 20          | 25-135   | 191 | 150 | 32 |                                                                                     |                          |                |           |
| SBJ2025-200L(加长)  | 20          | 25-135   | 241 | 200 | 32 |                                                                                     |                          |                |           |
| SBJ2030-150L(加长)  | 20          | 30-140   | 187 | 150 | 32 |                                                                                     |                          |                |           |
| SBJ2030-200L(加长)  | 20          | 30-140   | 237 | 200 | 32 |                                                                                     |                          |                |           |
| SBJ20-20-180L(加长) | 20          | 120-280  | 177 | 180 | 32 |                                                                                     |                          |                |           |

### 特点:

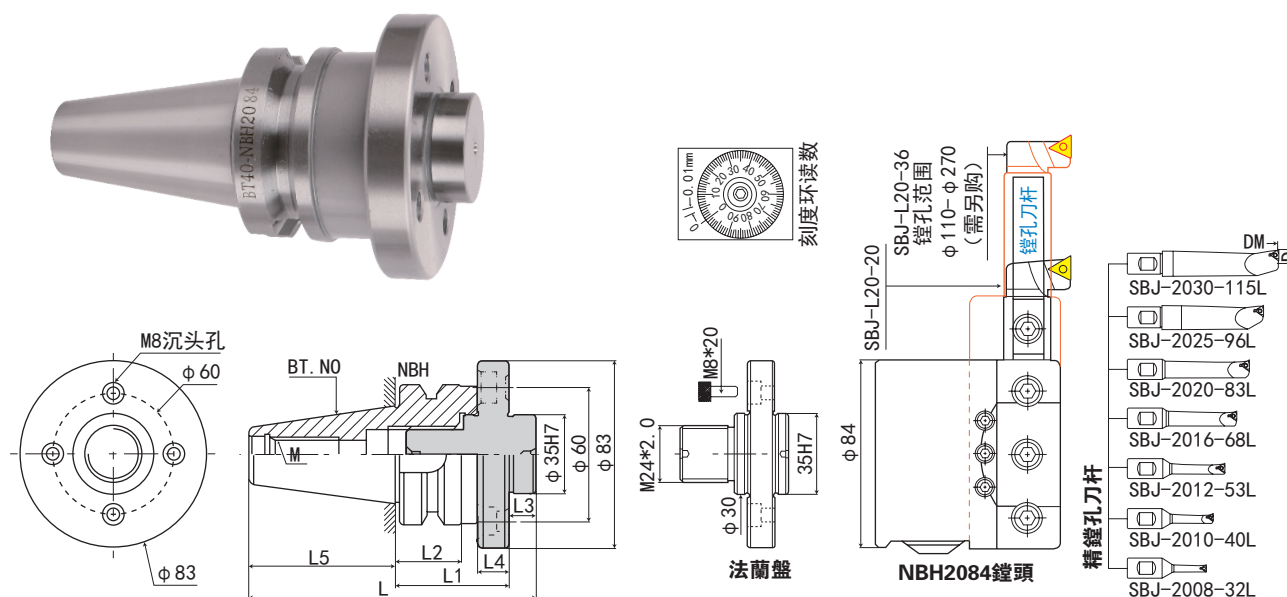
- 注:
- ◎本套产品属经济型精密镗刀
  - ◎最小调节刻度为  $\phi 0.01\text{mm}$ , 半径  $0.005\text{mm}$
  - ◎本镗孔器在位移量少时, 其最高转速不超  $1600\text{rpm}$  为宜

### Features:

- ◎ NBH2084 is a small diameter boring system in which diameter size ranges from 8-280mm.
- ◎ The minimum dial is  $0.001\text{mm}$  with semi diameter  $0.005\text{mm}$ .
- ◎ While moving in small scope, the highest speed  $< 1600\text{rpm}$ .

## BT-NBH2084A 镗孔组合刀柄

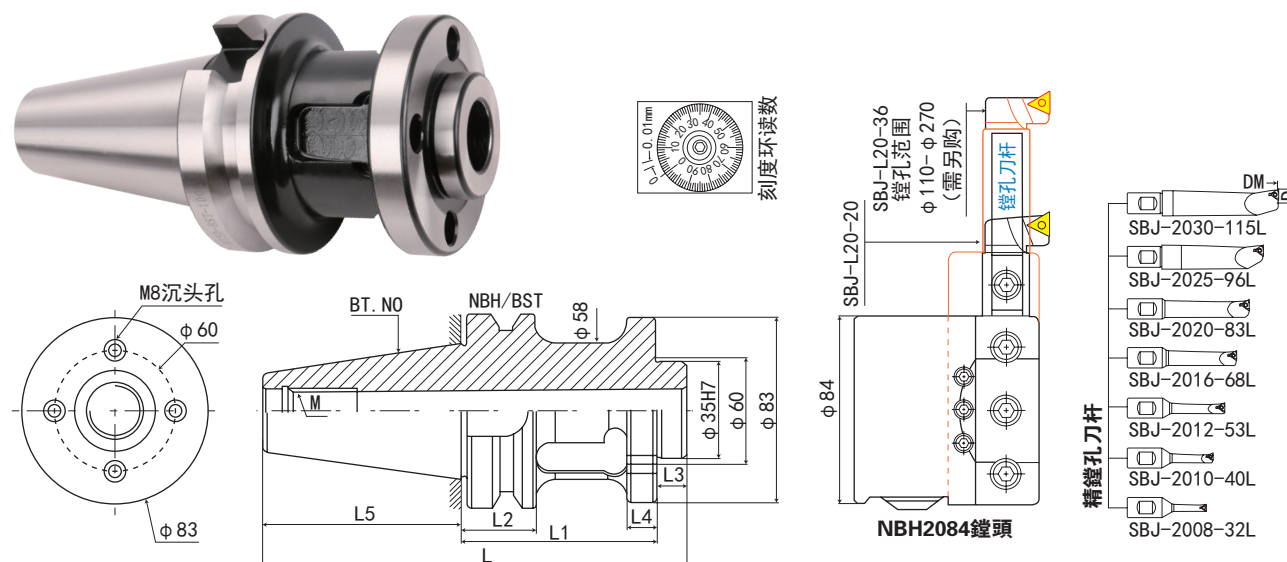
BT-NBH2084A BORING SYSTEM



| 规格 / 型号 Model | BT.N0 | L     | L1 | L2 | L3 | L4 | L5    | M         | 重量 KGS |
|---------------|-------|-------|----|----|----|----|-------|-----------|--------|
| BT30-NBH2084A | BT30  | 106.4 | 46 | 20 | 12 | 14 | 48.4  | M12*1.75P | 1.2    |
| BT40-NBH2084A | BT40  | 128.4 | 51 | 25 | 12 | 14 | 65.4  | M16*2.0P  | 1.6    |
| BT50-NBH2084A | BT50  | 170.8 | 57 | 35 | 12 | 14 | 101.8 | M24*3.0P  | 4.3    |

## BT-NBH2084B 镗孔组合刀柄

BT-NBH2084B BORING SYSTEM



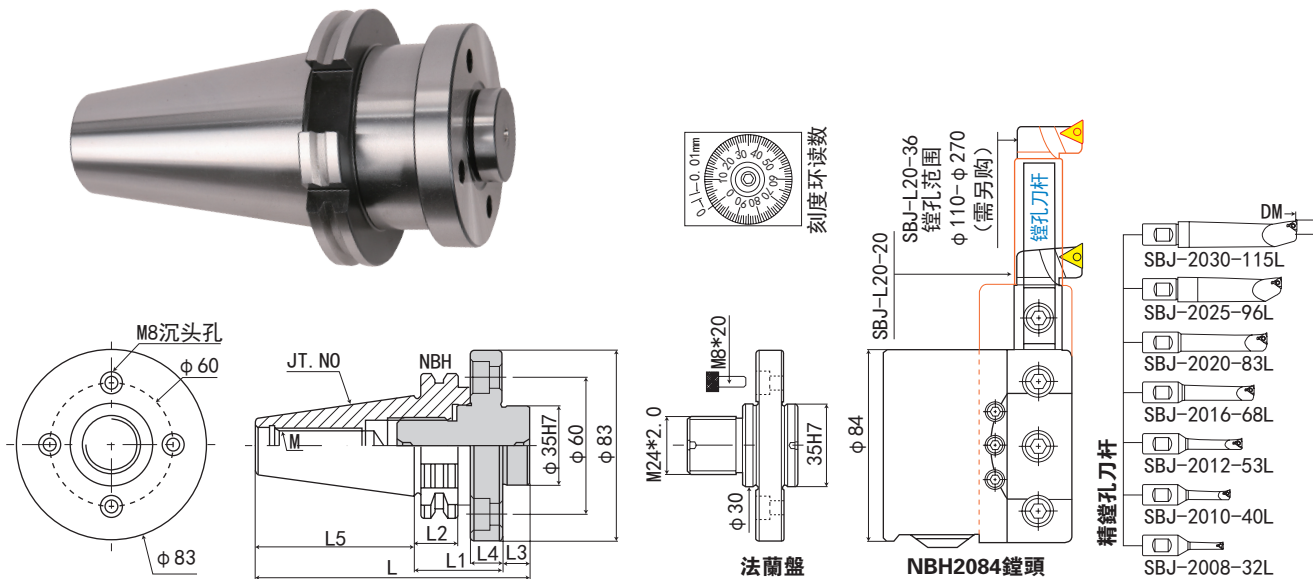
| 规格 / 型号 Model      | BT.N0 | L     | L1  | L2 | L3 | L4 | L5    | M        | 重量 KGS |
|--------------------|-------|-------|-----|----|----|----|-------|----------|--------|
| BT40-NBH2084B-100L | BT40  | 177.4 | 100 | 25 | 12 | 14 | 65.4  | M16*2.0P | 2.42   |
| BT40-NBH2084B-150L | BT40  | 227.4 | 150 | 25 | 12 | 14 | 65.4  | M16*2.0P | 2.9    |
| BT50-NBH2084B-100L | BT50  | 213.8 | 100 | 35 | 12 | 14 | 101.8 | M24*3.0P | 5.22   |
| BT50-NBH2084B-165L | BT50  | 278.8 | 165 | 35 | 12 | 14 | 101.8 | M24*3.0P | 6.42   |
| BT50-NBH2084B-200L | BT50  | 313.8 | 200 | 35 | 12 | 14 | 101.8 | M24*3.0P | 7.62   |
| BT50-NBH2084B-250L | BT50  | 363.8 | 250 | 35 | 12 | 14 | 101.8 | M24*3.0P | 8.5    |
| BT50-NBH2084B-300L | BT50  | 413.8 | 300 | 35 | 12 | 14 | 101.8 | M24*3.0P | 9.67   |

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## JT-NBH2084A 镗孔组合刀柄

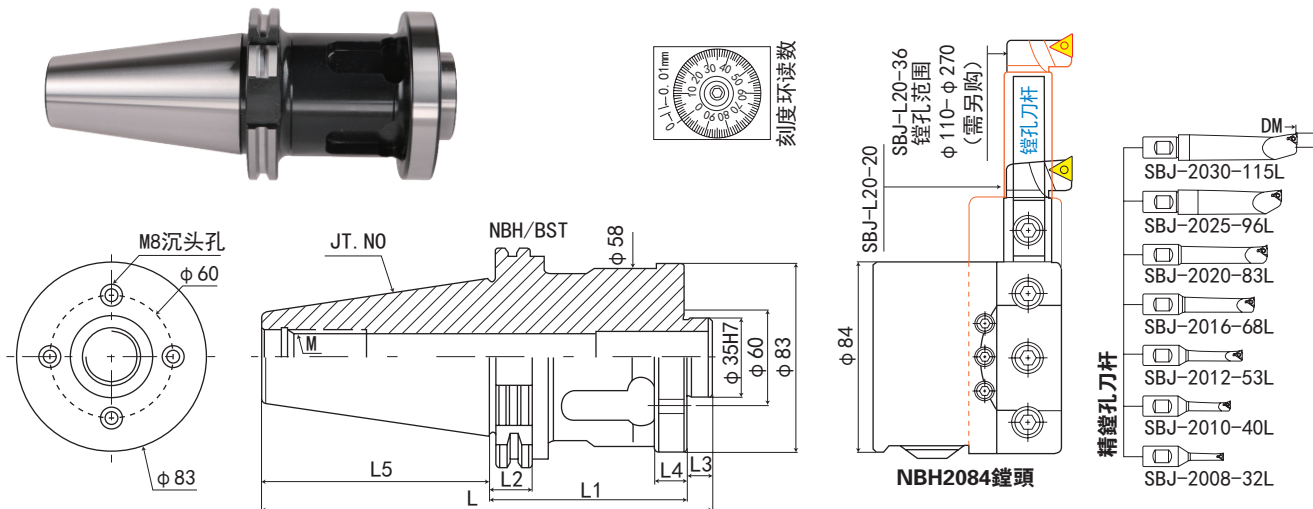
## JT-NBH2084A BORING SYSTEM



| 规格 / 型号 Model | JT.N0 | L      | L1 | L2 | L3 | L4 | L5     | M         | 重量 KGS |
|---------------|-------|--------|----|----|----|----|--------|-----------|--------|
| JT30-NBH2084A | JT30  | 109.8  | 50 | 16 | 12 | 14 | 47.8   | M12*1.75P | 1.4    |
| JT40-NBH2084A | JT40  | 130.4  | 50 | 16 | 12 | 14 | 68.4   | M16*2.0P  | 2.0    |
| JT50-NBH2084A | JT50  | 163.75 | 50 | 16 | 12 | 14 | 101.75 | M24*3.0P  | 4.2    |

## JT-NBH2084B 镗孔组合刀柄

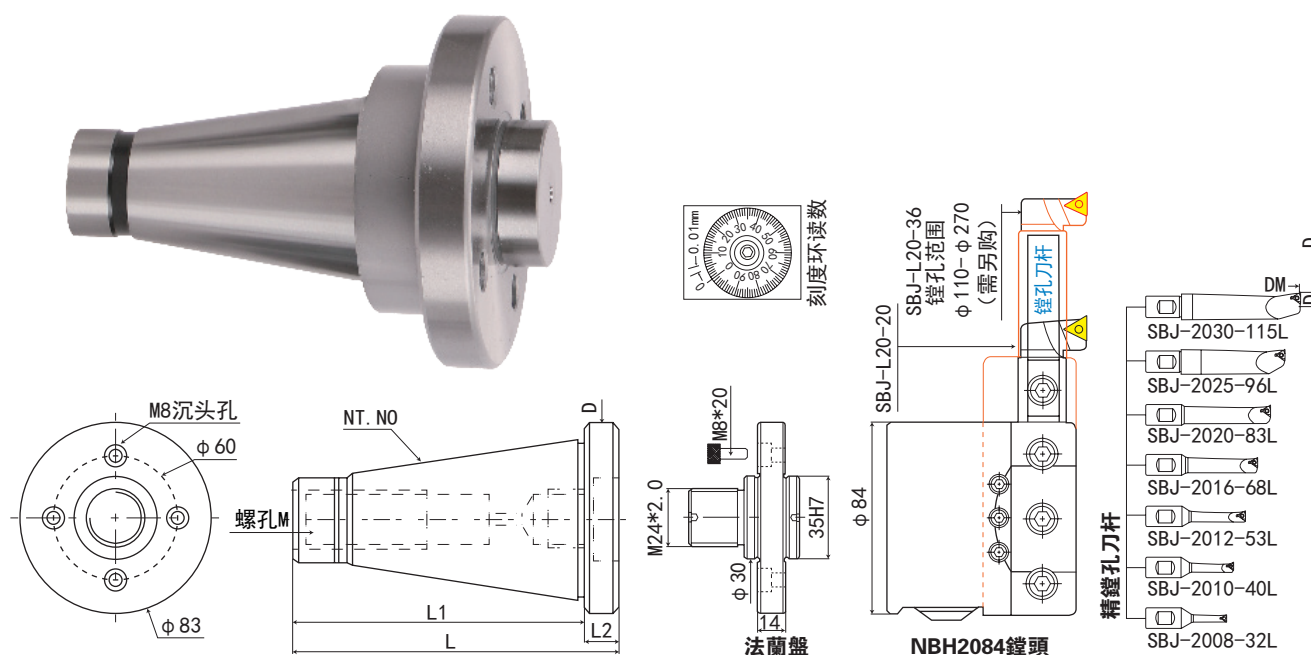
## JT-NBH2084B BORING SYSTEM



| 规格 / 型号 Model      | JT.N0 | L      | L1  | L2 | L3 | L4 | L5     | M        | 重量 KGS |
|--------------------|-------|--------|-----|----|----|----|--------|----------|--------|
| JT40-NBH2084B-100L | JT40  | 180.4  | 100 | 16 | 12 | 14 | 68.4   | M16*2.0P | 2.42   |
| JT40-NBH2084B-150L | JT40  | 230.4  | 150 | 16 | 12 | 14 | 68.4   | M16*2.0P | 2.9    |
| JT50-NBH2084B-100L | JT50  | 213.75 | 100 | 16 | 12 | 14 | 101.75 | M24*3.0P | 5.22   |
| JT50-NBH2084B-165L | JT50  | 278.75 | 165 | 16 | 12 | 14 | 101.75 | M24*3.0P | 6.42   |
| JT50-NBH2084B-200L | JT50  | 313.75 | 200 | 16 | 12 | 14 | 101.75 | M24*3.0P | 7.62   |
| JT50-NBH2084B-250L | JT50  | 363.75 | 250 | 16 | 12 | 14 | 101.75 | M24*3.0P | 8.5    |
| JT50-NBH2084B-300L | JT50  | 413.75 | 300 | 16 | 12 | 14 | 101.75 | M24*3.0P | 9.67   |

## NT-NBH2084A 镗孔组合刀柄

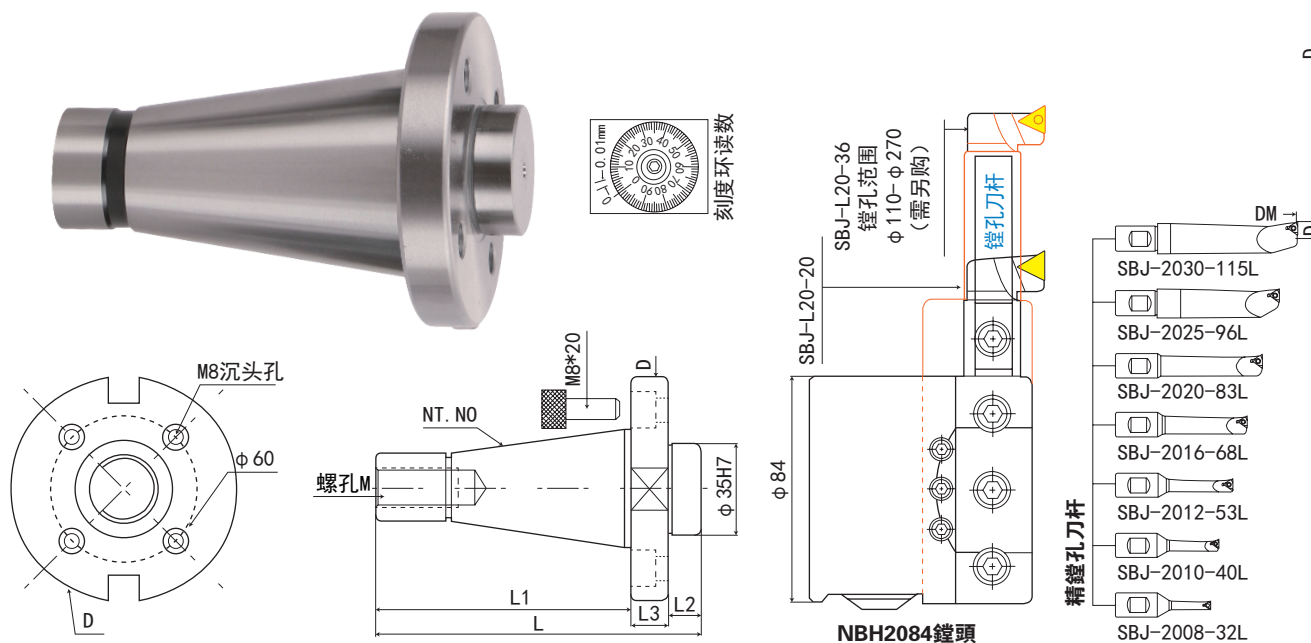
NT-NBH2084A BORING SYSTEM



| 规格 / 型号 Model | NT.N0 | L   | L1  | L2 | M        | D   | 重量 KGS |
|---------------|-------|-----|-----|----|----------|-----|--------|
| NT40-NBH2084A | NT40  | 111 | 95  | 16 | M16*2.0P | 63  | 2.4    |
| NT50-NBH2084A | NT50  | 146 | 130 | 16 | M24*3.0P | 100 | 4.2    |

## NT-NBH2084C 镗孔组合刀柄

NT-NBH2084C BORING SYSTEM



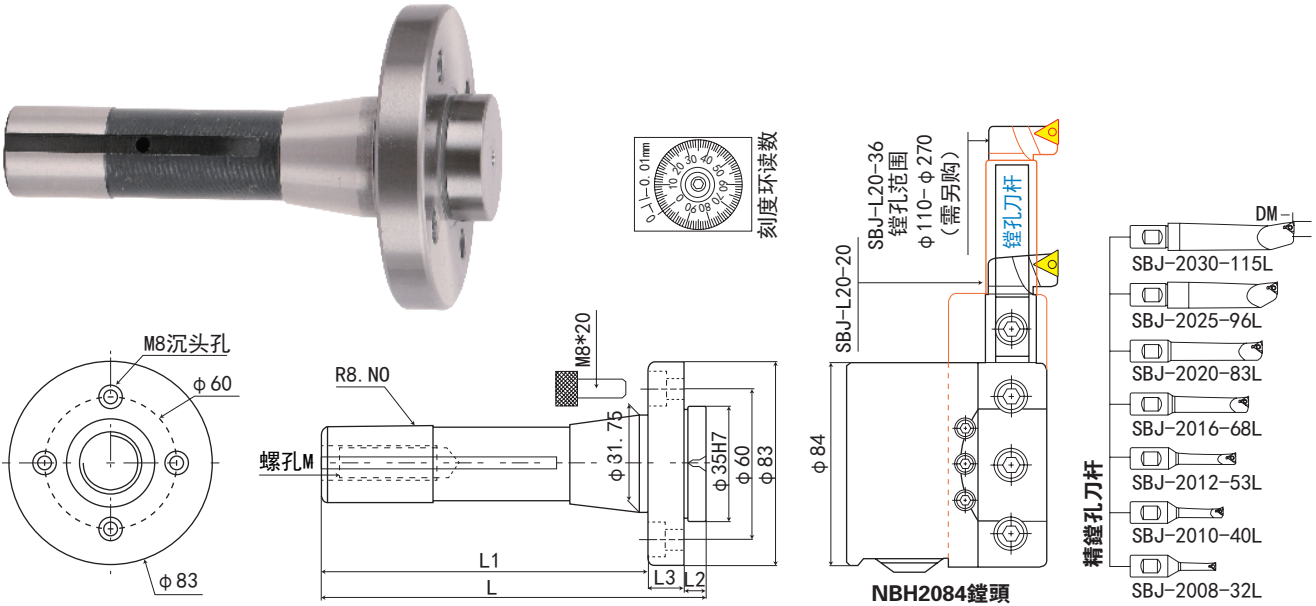
| 规格 / 型号 Model | NT.N0 | L   | L1 | L2 | L3 | M         | D  | 重量 KGS |
|---------------|-------|-----|----|----|----|-----------|----|--------|
| NT30-NBH2084C | NT30  | 98  | 70 | 12 | 16 | M12*1.75P | 83 | 1.9    |
| NT40-NBH2084C | NT40  | 123 | 95 | 12 | 16 | M16*2.0P  | 83 | 2.4    |

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## R8-NBH2084C 镗孔组合刀柄

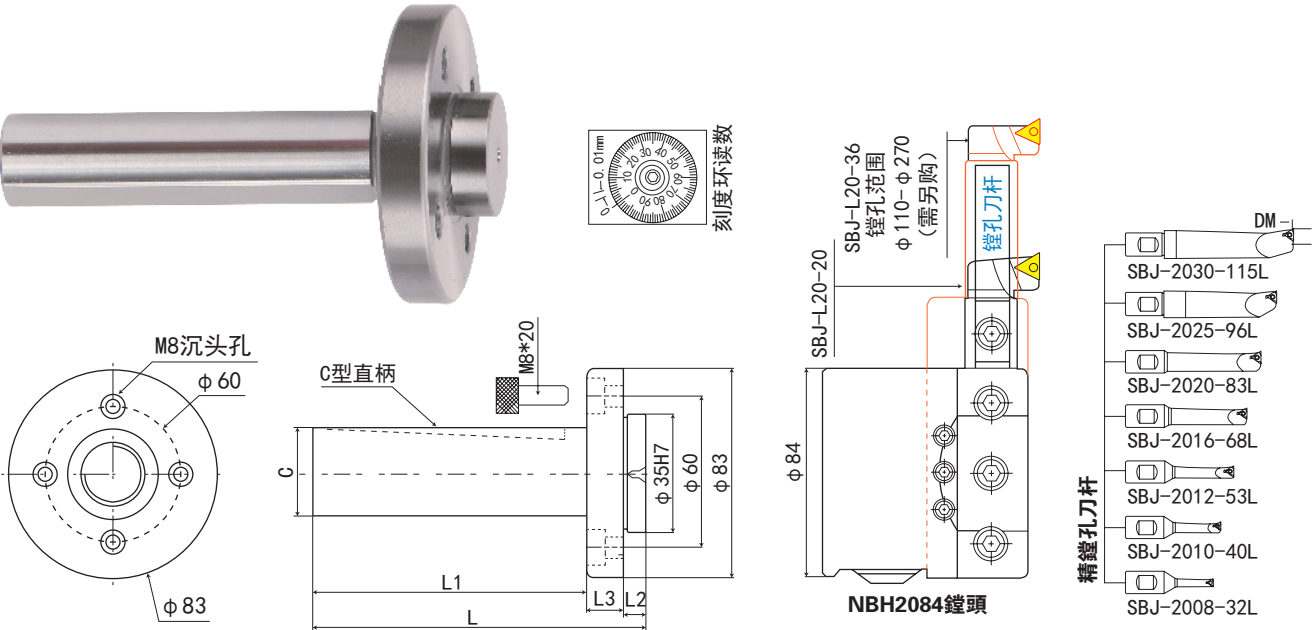
R8-NBH2084C BORING SYSTEM



| 规格 / 型号 Model   | R8.N0 | L   | L1  | L2 | L3 | M          | 重量 KGS |
|-----------------|-------|-----|-----|----|----|------------|--------|
| R8-NBH2084 公制 C | R8    | 132 | 104 | 12 | 16 | M12*1.75P  | 2.2    |
| R8-NBH2084 英制 C | R8    | 132 | 104 | 12 | 16 | 7/16-20UNF | 2.2    |

## C 型直柄 -NBH2084C 镗孔组合刀柄

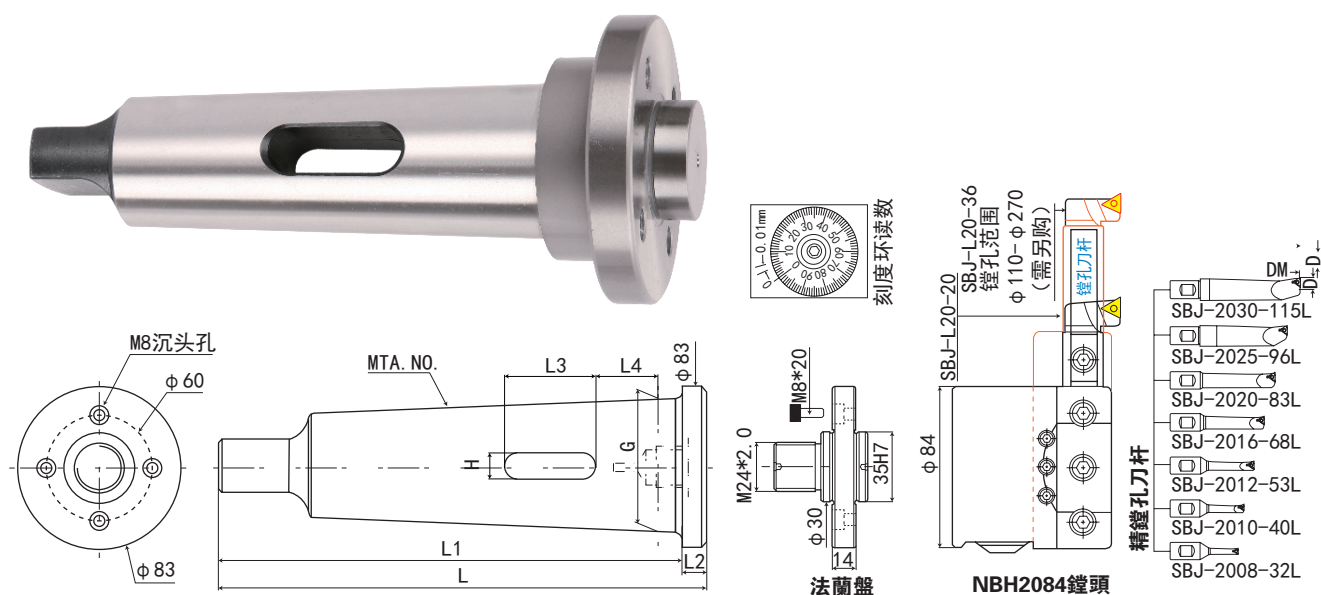
C-NBH2084C BORING SYSTEM



| 规格 / 型号 Model | C 型直柄 | C  | L  | L1 | L2 | L3 | 重量 KGS |
|---------------|-------|----|----|----|----|----|--------|
| C20-NBH2084C  | C20   | 20 | 88 | 60 | 12 | 16 | 2.1    |
| C25-NBH2084C  | C25   | 25 | 88 | 60 | 12 | 16 | 2.2    |
| C32-NBH2084C  | C32   | 32 | 88 | 60 | 12 | 16 | 2.3    |

## MTA-NBH2084A 镗孔组合刀柄

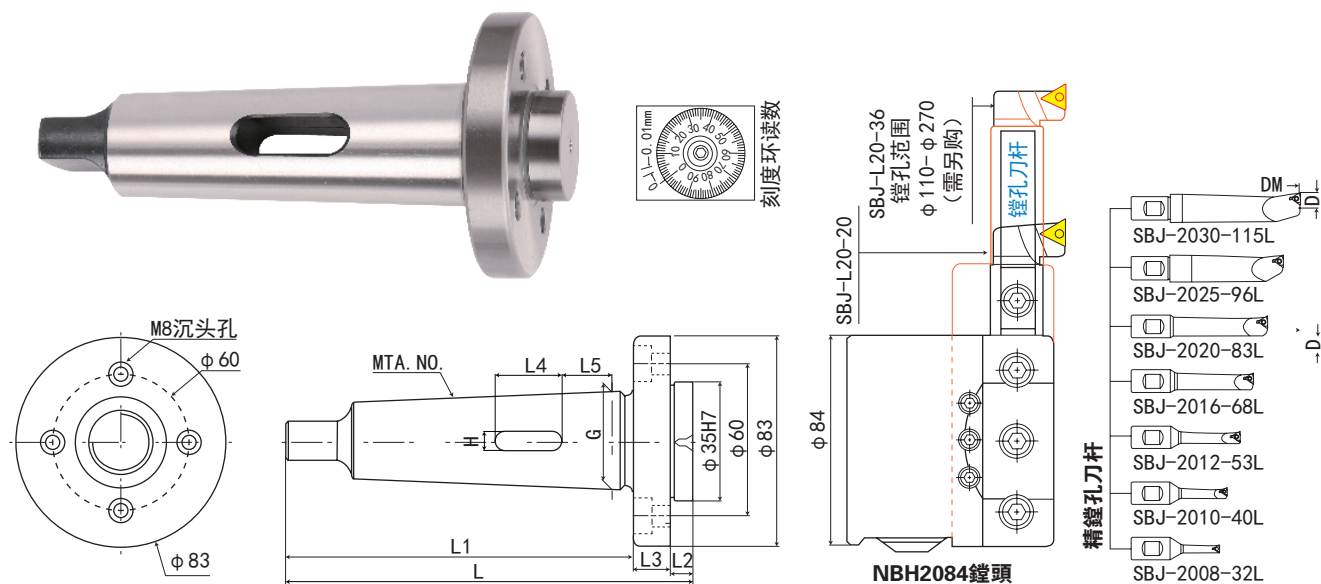
## MTA-NBH2084A BORING SYSTEM



| 规格 / 型号 Model  | MTA.NO | L   | L1  | L2 | L3 | L4 | G      | H  | 重量 KGS |
|----------------|--------|-----|-----|----|----|----|--------|----|--------|
| MTA6-NBH2084A  | MTA6   | 234 | 218 | 16 | 40 | 45 | 63.348 | 17 | 5.3    |
| 公制 80-NBH2084A | 公制 80  | 244 | 228 | 16 | 45 | 55 | 80.00  | 20 | 9.6    |

## MTA-NBH2084C 镗孔组合刀柄

## MTA-NBH2084C BORING SYSTEM



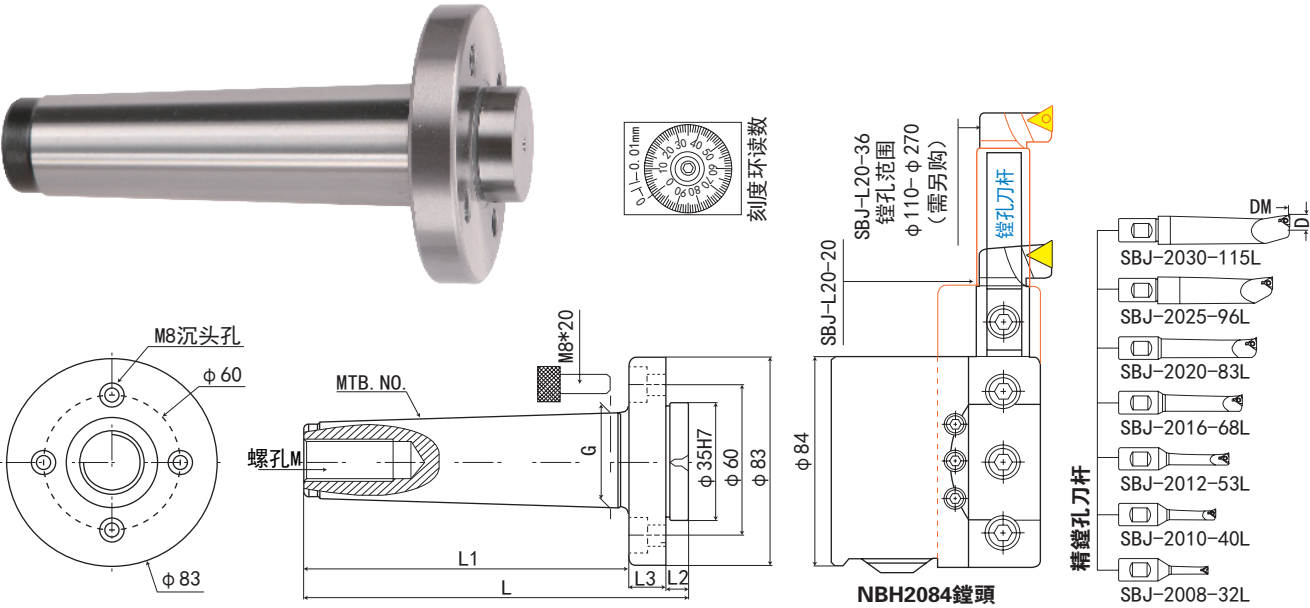
| 规格 / 型号 Model | MTA.NO | L   | L1  | L2 | L3 | L4 | L5 | G      | H  | 重量 KGS |
|---------------|--------|-----|-----|----|----|----|----|--------|----|--------|
| MTA3-NBH2084C | MTA3   | 127 | 99  | 12 | 16 | -  | -  | 23.825 | -  | 0.8    |
| MTA4-NBH2084C | MTA4   | 152 | 124 | 12 | 16 | -  | -  | 31.267 | -  | 1.0    |
| MTA5-NBH2084C | MTA5   | 184 | 156 | 12 | 16 | 40 | 35 | 44.399 | 13 | 2.0    |

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列BORING HEAD

MTB-NBH2084C 镗孔组合刀柄

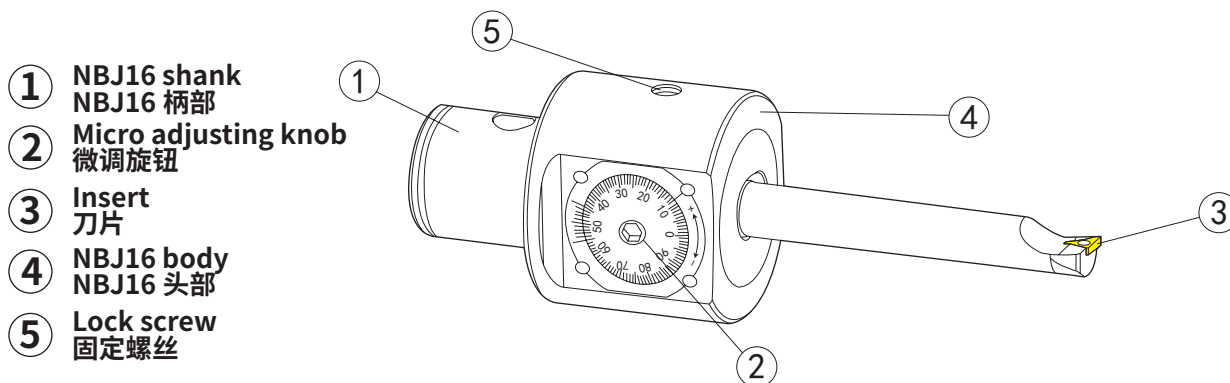
MTB-NBH2084C BORING SYSTEM



| 规格 / 型号 Model | MTB.N0 | L   | L1  | L2 | L3 | M         | G      | 重量 KGS |
|---------------|--------|-----|-----|----|----|-----------|--------|--------|
| MTB3-NBH2084C | MTB3   | 114 | 86  | 12 | 16 | M12*1.75P | 23.825 | 0.6    |
| MTB4-NBH2084C | MTB4   | 136 | 108 | 12 | 16 | M16*2.0P  | 31.267 | 1.0    |
| MTB5-NBH2084C | MTB5   | 164 | 136 | 12 | 16 | M20*2.5P  | 44.399 | 0.6    |

## NBJ16 产品主要部位名称

THE NAME OF THE MAIN PART OF PRODUCTS WITH NBJ16



### 使用顺序 / Sequence of Use

请参照图示，按下列顺序 1-6 顺序操作：

步骤一：在加工尺寸范围内固定好刀杆，用专用扳手在导向主轴上固定好两攻 M10 螺丝，稳固刀杆。

步骤二：松开固定螺丝。

步骤三：按顺时针方向旋转调旋钮，使加工直径增大，调整旋钮刻度为  $\phi 0.01\text{mm}$ 。

步骤四：按逆时针方向旋转时则使加工直径减小。

步骤五：调整尺寸加工时，请按同方向微调，以确保微调精度。

步骤六：微调至所需尺寸时，请以适当扭力锁紧导向主轴，使主轴稳固定本体上。

Please operate the following step(1-6)according to the diagram figured;

Step1.Using special wrench to lock two M10 screws to fasten the cutting tools in the processing size range.

Step2.Loosening the fixed screws.

Step3.Rotating tune knob by clockwise to increase the processing diameter,the graduate is  $\phi 0.01\text{mm}$ .

Step4.Rotating by anti-clockwise will decrease the processing diameter.

Step5.When adjusting the size of processing,please fine-tuning by the same direction to ensure mirco adjustment Precision.

Step6.When meet the demanded size,please use the proper force to lock the spindle orientation to makespindle fix into the substance.

### 使用者注意事项 / Notices of The User

1. 请使用在加工范围在  $\phi 11\text{mm}$  内。

2、当导向主轴在已锁紧状态下，请勿旋转调整旋钮，否则会导致调整机构被破坏。

3. 导向轴固定，请使用专用扳手，固定本体上的 M10 螺丝，锁紧导向主轴，过度锁紧会导致座体移位，过松会造成精度不良。

4、本产品是由精密螺丝、移动滑座旋转调整旋钮，在阻力很大或无法转动时，请停止调整，并确认以下事项：

① 导向轴固定螺丝是否松开。

② 是否超出调整范围。

③ 当过度旋转调整旋钮时，会导致刀杆和本体卡死，镗头精度被破坏。

1Using in the processing range $\phi 11\text{mm}$ .

2Do not rotate the adjustment knob when the slide is tightly locked,or the adjusting mechanism will be destroyed.

3Please use special wrench to fix the slide with three M10 screws,too much force will be axis-oriented shift, on the contrary,there will be accuracy of non-performing.

4Our products use micro screws,spindle orientation to rotate adjusting knob. You should make sure the following notices and adjusting with great resistance or it can not move:

① Whether the guiding shaft of the fixed screw is loosened.

② Whether it is out of the adjustment range.

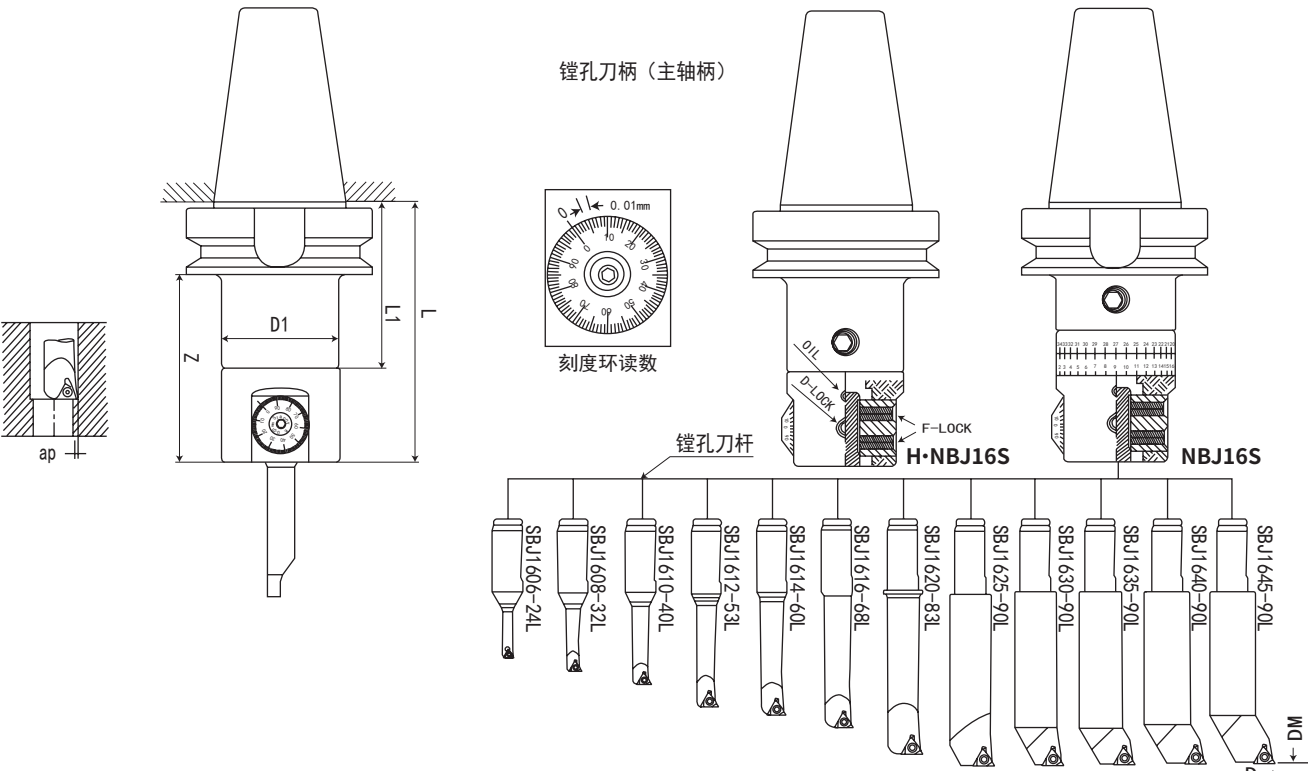
③ Too much force will make cutting tools dead and the precision of boring head destroyed.



# 镗孔刀具系列 BORING HEAD

## NBJ16 小径微调精镗头

## NBJ16 MICRO BORING BAR TOOL HOLDER



| 规格 / 型号 Model   | 移动量 Dmm | 延伸长 Z | 组合内容 Tool Connection |                | 镗孔范围 Boring range | 接口型号 LBK No | 全长 L | 刀杆长 L1 | 刀杆外径 $\phi D1$ | 内置刀杆 dmm | 重量 KGS |
|-----------------|---------|-------|----------------------|----------------|-------------------|-------------|------|--------|----------------|----------|--------|
|                 |         |       | 刀柄 Shank             | 镗头 Boring head |                   |             |      |        |                |          |        |
| BT30-NBJ16-110L | 0-5     | 88    | BT30-LBK6-60L        | NBJ16          | 8-50mm            | LBK6        | 110  | 60     | 64             | 16       | 2.4    |
| BT40-NBJ16-115L | 0-5     | 88    | BT40-LBK6-65L        | NBJ16          | 8-50mm            | LBK6        | 115  | 65     | 64             | 16       | 2.7    |
| BT50-NBJ16-145L | 0-5     | 107   | BT50-LBK6-95L        | NBJ16          | 8-50mm            | LBK6        | 145  | 95     | 64             | 16       | 5.9    |
| JT30-NBJ16-110L | 0-5     | 91    | JT30-LBK6-60L        | NBJ16          | 8-50mm            | LBK6        | 110  | 60     | 64             | 16       | 2.4    |
| JT40-NBJ16-115L | 0-5     | 96    | JT40-LBK6-65L        | NBJ16          | 8-50mm            | LBK6        | 115  | 65     | 64             | 16       | 2.7    |
| JT50-NBJ16-145L | 0-5     | 126   | JT50-LBK6-95L        | NBJ16          | 8-50mm            | LBK6        | 145  | 95     | 64             | 16       | 5.9    |
| NT30-NBJ16-110L | 0-5     | 95    | NT30-LBK6-60L        | NBJ16          | 8-50mm            | LBK6        | 110  | 60     | 64             | 16       | 2.4    |
| NT40-NBJ16-115L | 0-5     | 100   | NT40-LBK6-65L        | NBJ16          | 8-50mm            | LBK6        | 115  | 65     | 64             | 16       | 2.7    |
| NT50-NBJ16-145L | 0-5     | 130   | NT50-LBK6-95L        | NBJ16          | 8-50mm            | LBK6        | 145  | 95     | 64             | 16       | 5.9    |

### 特点:

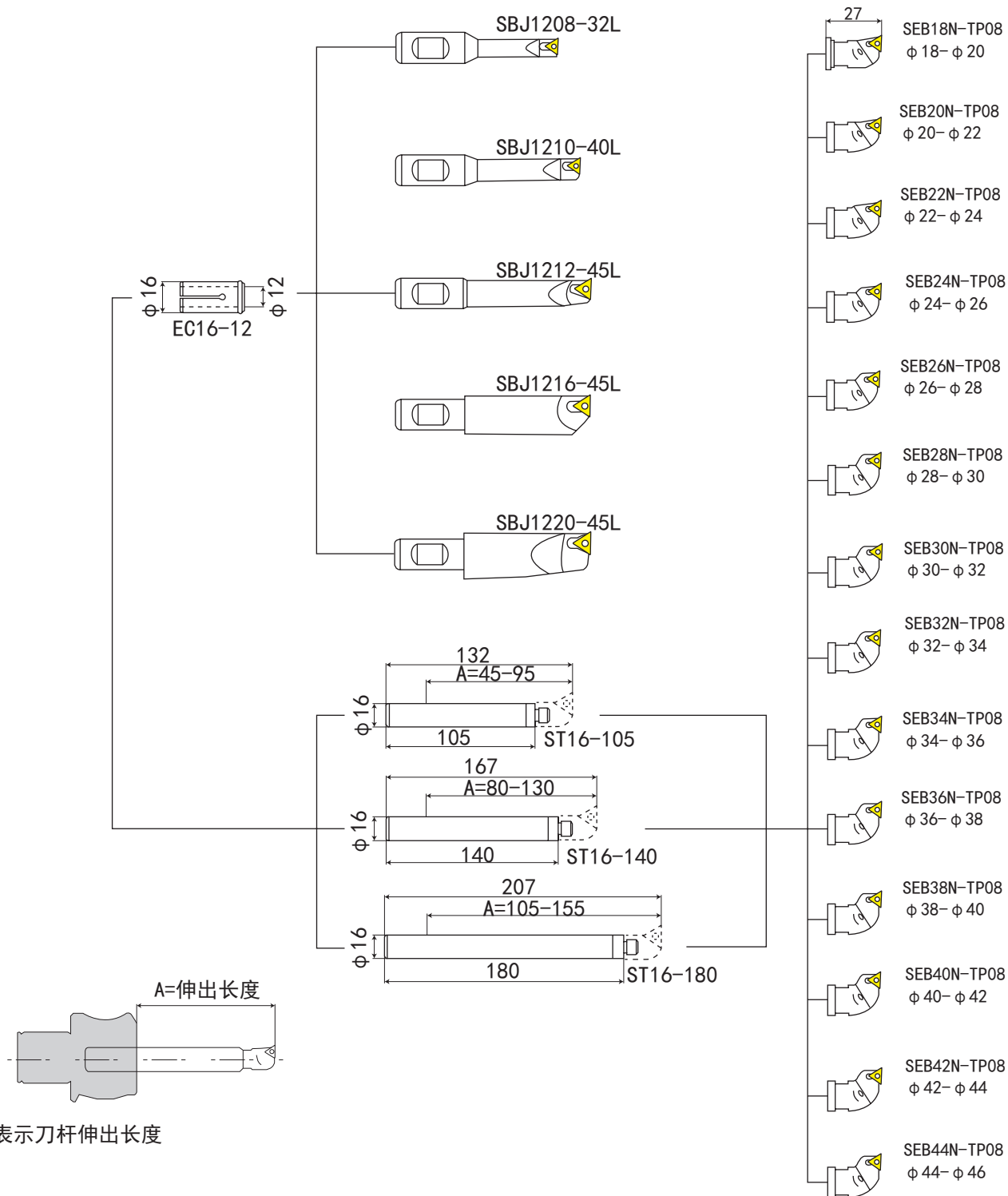
- 注:
- ◎ 本体锥柄规格: JIS MAS 403 BT
  - ◎ 高刚性、高精度、高灵敏, 调节方便, 安全可靠
  - ◎ 最小调节刻度为  $\phi 0.01\text{mm}$ , 半径为  $0.005\text{mm}$
  - ◎ 本镗孔器在位移量少时, 其最高转速不起  $1600\text{rpm}$  为宜

### Features:

- ◎ Spindle conicity reference: JIS MAS 403 BT.
- ◎ Having high rigidity and precision, easily operated with safety.
- ◎ The minimum dial is  $0.001\text{mm}$  with semi diameter  $0.005\text{mm}$ .
- ◎ While moving in small scope, the highest speed  $< 1600\text{rpm}$ .

## 加工范围 $\phi 8$ - $\phi 50$

(加工范围  $\phi 2$ - $\phi 8$ , 请选择另购进口极小径硬质合金镗杆)



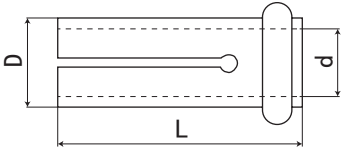
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## EC 钨钢刀杆专用筒夹

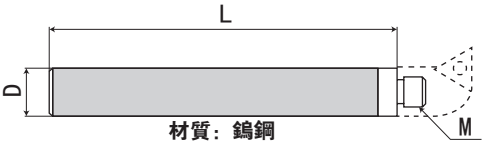
EC COLLET FOR SOLID CARBIDE BORING BAR

| 规格 / 型号<br>Model | 外形尺寸 |    |    | 组合钨钢刀杆<br>Anti-shaking Solid Carbide Boring Bar |
|------------------|------|----|----|-------------------------------------------------|
|                  | D    | d  | L  |                                                 |
| EC16-06          | 16   | 6  | 37 | -                                               |
| EC16-08          | 16   | 8  | 37 | ST08/HC08                                       |
| EC16-10          | 16   | 10 | 37 | ST10/HC10                                       |
| EC16-12          | 16   | 12 | 37 | ST12/HC12                                       |
| EC16-14          | 16   | 14 | 37 | ST14/HC14                                       |



## ST 抗震钨钢刀杆

ST ANTI-SHAKING SOLID CARBIDE BORING BAR



| 规格 / 型号 Model | 外形尺寸 |     |           | 组合镗头<br>Throw Away Boring Head | 组合筒夹<br>Collet For Solid Carbide Boring Bar |
|---------------|------|-----|-----------|--------------------------------|---------------------------------------------|
|               | D    | L   | M         |                                |                                             |
| ST08-W5-115L  | 8    | 115 | M5*0.8P   | SEB09N SEB11N                  | EC16-08                                     |
| ST10-W6-115L  | 10   | 115 | M6*1.0P   | SEB12N SEB14N SEB16N           | EC16-10                                     |
| ST10-W6-135L  | 10   | 135 | M6*1.0P   | SEB12N SEB14N SEB16N           | EC16-10                                     |
| ST10-W6-160L  | 10   | 160 | M6*1.0P   | SEB12N SEB14N SEB16N           | EC16-10                                     |
| ST12-W6-135L  | 12   | 135 | M6*1.0P   | SEB12N SEB14N SEB16N           | EC16-12                                     |
| ST12-W10-165L | 12   | 165 | M10*1.25P | SEB18N--SEB50N                 | EC16-12                                     |
| ST16-W10-105L | 16   | 105 | M10*1.25P | SEB18N--SEB50N                 | -                                           |
| ST16-W10-140L | 16   | 140 | M10*1.25P | SEB18N--SEB50N                 | -                                           |
| ST16-W10-180L | 16   | 180 | M10*1.25P | SEB18N--SEB50N                 | -                                           |

特点:

Features:

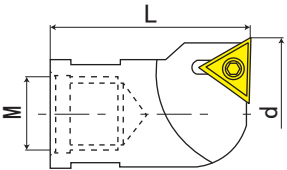
注:

◎ The boring depth do not surpass aperture six times.

◎ 镗孔深度不得超过孔径六倍

## SEB 舍弃式小径镗头

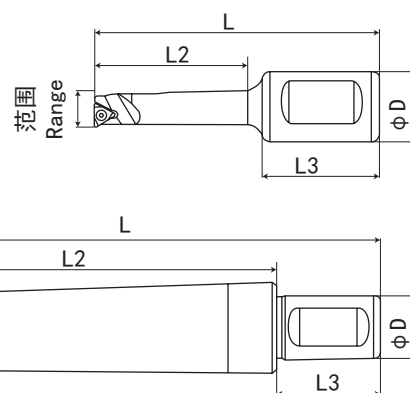
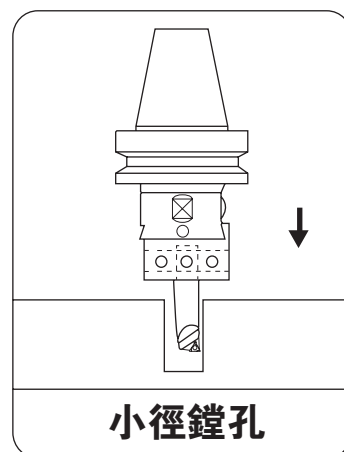
SEB INDEXABLE INSERT HOLDER FOR BORING BAR



| 规格 / 型号 Model | 外形尺寸 |    |           | 镗孔范围 Boring Range |     | 刀片型号 Insert | 螺丝 Screw | 扳手 Wrench |
|---------------|------|----|-----------|-------------------|-----|-------------|----------|-----------|
|               | d    | L  | M         | Min               | Max |             |          |           |
| SEB09N-TP08   | 9    | 18 | M5*0.8P   | 9                 | 11  | TPGH080202  | M2.2*5   | T6        |
| SEB11N-TP08   | 11   | 18 | M5*0.8P   | 11                | 12  | TPGH080202  | M2.2*5   | T6        |
| SEB12N-TP08   | 12   | 23 | M6*1.0P   | 12                | 14  | TPGH080202  | M2.2*5   | T6        |
| SEB14N-TP08   | 14   | 23 | M6*1.0P   | 14                | 16  | TPGH080202  | M2.2*5   | T6        |
| SEB16N-TP08   | 16   | 23 | M6*1.0P   | 16                | 18  | TPGH080202  | M2.2*5   | T6        |
| SEB18N-TP08   | 18   | 27 | M10*1.25P | 18                | 20  | TPGH080202  | M2.2*5   | T6        |
| SEB20N-TP08   | 20   | 27 | M10*1.25P | 20                | 22  | TPGH080202  | M2.2*5   | T6        |
| SEB22N-TP08   | 22   | 27 | M10*1.25P | 22                | 24  | TPGH080202  | M2.2*5   | T6        |
| SEB24N-TP08   | 24   | 27 | M10*1.25P | 24                | 26  | TPGH080202  | M2.2*5   | T6        |
| SEB26N-TP08   | 26   | 27 | M10*1.25P | 26                | 28  | TPGH080202  | M2.2*5   | T6        |
| SEB28N-TP08   | 28   | 27 | M10*1.25P | 28                | 30  | TPGH080202  | M2.2*5   | T6        |
| SEB30N-TP08   | 30   | 27 | M10*1.25P | 30                | 32  | TPGH080202  | M2.2*5   | T6        |
| SEB32N-TP08   | 32   | 27 | M10*1.25P | 32                | 34  | TPGH080202  | M2.2*5   | T6        |
| SEB34N-TP08   | 34   | 27 | M10*1.25P | 34                | 36  | TPGH080202  | M2.2*5   | T6        |
| SEB36N-TP08   | 36   | 27 | M10*1.25P | 36                | 38  | TPGH080202  | M2.2*5   | T6        |
| SEB38N-TP08   | 38   | 27 | M10*1.25P | 38                | 40  | TPGH080202  | M2.2*5   | T6        |
| SEB40N-TP08   | 40   | 27 | M10*1.25P | 40                | 42  | TPGH080202  | M2.2*5   | T6        |
| SEB42N-TP08   | 42   | 27 | M10*1.25P | 42                | 44  | TPGH080202  | M2.2*5   | T6        |
| SEB44N-TP08   | 44   | 27 | M10*1.25P | 44                | 46  | TPGH080202  | M2.2*5   | T6        |
| SEB46N-TP08   | 46   | 27 | M10*1.25P | 46                | 48  | TPGH080202  | M2.2*5   | T6        |
| SEB48N-TP08   | 48   | 27 | M10*1.25P | 48                | 50  | TPGH080202  | M2.2*5   | T6        |
| SEB50N-TP08   | 50   | 27 | M10*1.25P | 50                | 52  | TPGH080202  | M2.2*5   | T6        |

# NBJ16 替换式镗孔刀杆

# NBJ16 INTERCHANGEABLE BORING CUTTER



| 规格 / 型号 Model    | 尺寸 |          |     |     |    | 刀片 Insert                                                                               |            | 螺丝 Screw | 扳手 Wrench |
|------------------|----|----------|-----|-----|----|-----------------------------------------------------------------------------------------|------------|----------|-----------|
|                  | D  | 范围 Range | L   | L2  | L3 |                                                                                         |            |          |           |
| SBJ1606-24L      | 16 | 6-9      | 73  | 24  | 32 |  5°  | WBG060102  | M2*3.8   | T6        |
| SBJ1608-32L      | 16 | 8-11     | 80  | 32  | 32 |                                                                                         | TBGT060102 | M2*5.0   | T6        |
| SBJ1610-40L      | 16 | 10-13    | 87  | 40  | 32 |                                                                                         | TBGT060102 | M2*5.0   | T6        |
| SBJ1612-53L      | 16 | 12-15    | 98  | 53  | 32 |                                                                                         | TPGH090202 | M2.5*6.0 | T8        |
| SBJ1614-60L      | 16 | 14-17    | 105 | 60  | 32 |                                                                                         | TPGH090202 | M2.5*6.0 | T8        |
| SBJ1616-68L      | 16 | 16-21    | 110 | 68  | 32 |                                                                                         | TPGH090202 | M2.5*6.0 | T8        |
| SBJ1620-83L      | 16 | 20-26    | 125 | 83  | 32 |  11° | TPGH110304 | M3*8.0   | T8        |
| SBJ1625-90L      | 16 | 25-31    | 128 | 90  | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1630-90L      | 16 | 30-36    | 128 | 90  | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1635-90L      | 16 | 35-41    | 128 | 90  | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1640-90L      | 16 | 40-46    | 128 | 90  | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1645-90L      | 16 | 45-51    | 128 | 90  | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1616-150L(加长) | 16 | 16-21    | 192 | 150 | 32 |                                                                                         | TPGH090202 | M2.5*6.0 | T8        |
| SBJ1620-150L(加长) | 16 | 20-26    | 192 | 150 | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1625-150L(加长) | 16 | 25-31    | 188 | 150 | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |
| SBJ1630-150L(加长) | 16 | 30-36    | 188 | 150 | 32 |                                                                                         | TPGH110304 | M3*8.0   | T8        |

## 特点:

### 注:

- ◎可搭配 SCK6 刀杆并可与 CK6 系统刀杆相容
- ◎采用特殊表面处理, 加强防锈效果
- ◎微调单位: 每刻度移动量为 0.01mm, 另有副尺可做更精确之调整, 镗孔范围 φ6-φ50mm
- ◎搭配 16mm 柄径的小径镗刀, 并搭配不同切削刀具, 达成多样化的组合, 以利客户加工使用。

## Features:

- ◎ Suitable for combining with SCK6 series of tool holders as well as CK6 series of tool holders.
- ◎ With special coating treatment, to strengthen the anti-corrosion effect.
- ◎ Micro-adjustment unit: each unit is 0.01mm. Available is a sub-dial for finer adjustment, boring range φ6-φ50mm.
- ◎ With 16mm shank trails Boring, with different cutting tools can be reached a variety of combinations, in order to facilitate customers to use.



# 镗孔刀具系列 BORING HEAD

## CBI 系列专用超小径碳化钨镗孔刀

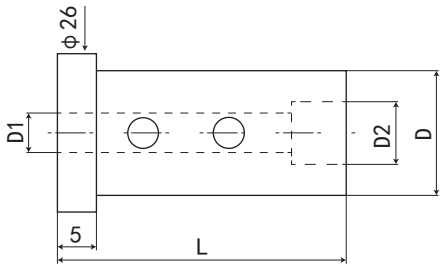
SUPER FINE DIAMETER TUNGSTEN CARBIDE BORING BAR DEDICATED TO CBI SERIES



| 规格 / 型号 Model | φd 镗孔范围 Boring Range |      |      |      | D  | L1 | L2 | L  | 重量 KGS |
|---------------|----------------------|------|------|------|----|----|----|----|--------|
|               | Min.                 | Max. |      |      |    |    |    |    |        |
|               |                      | CBI4 | CBI5 | CBI6 |    |    |    |    |        |
| CBJ0603-15    | 3                    | 7    | 10   | 13   | 6  | 15 | 32 | 50 | -      |
| CBJ0604-20    | 4                    | 8    | 11   | 14   | 6  | 20 | 32 | 50 | -      |
| CBJ0605-25    | 5                    | 9    | 12   | 15   | 6  | 25 | 32 | 60 | -      |
| CBJ0606-30    | 6                    | 10   | 13   | 16   | 6  | 30 | 32 | 60 | -      |
| CBJ1008-35    | 8                    | 12   | 15   | 18   | 10 | 35 | 32 | 75 | -      |
| CBJ1010-40    | 10                   | 14   | 17   | 20   | 10 | 40 | 32 | 75 | -      |

## CBI 小径套筒

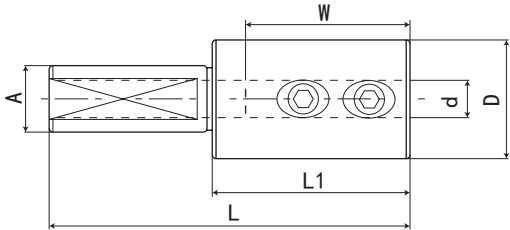
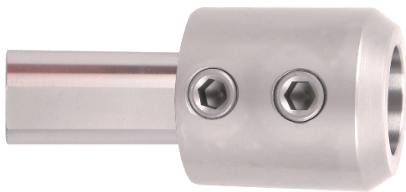
CBI SMALL DIAMETER ADAPTER



| 规格 / 型号 Model | D  | D1 | D1 | L  | 螺丝 Screw | 扳手 Wrench | 扭力值 (N.m) Torque | 重量 KGS |
|---------------|----|----|----|----|----------|-----------|------------------|--------|
| SH-0416-37    | 16 | 4  | 8  | 37 | M4*4     | PL2       | 3.0              | 0.07   |
| SH-0516-37    | 16 | 5  | 8  | 37 | M5*5.5   | PL2       | 3.0              | 0.06   |
| SH-0616-37    | 16 | 6  | 8  | 37 | M6*4     | PL2       | 3.0              | -      |
| SH-0716-37    | 16 | 7  | 8  | 37 | M6*4     | PL2       | 3.0              | -      |

## CBI 系列专用超小径镗刀延长杆

EXTENSION ADAPTER FOR SMALL DIAMETER BORING BAR DEDICATED TO CBI SERIES



| 规格 / 型号 Model | A  | D1 | d  | L1 | W  | L  | 重量 KGS |
|---------------|----|----|----|----|----|----|--------|
| AC1006-30     | 10 | 18 | 6  | 30 | 25 | 55 | -      |
| AC1206-35     | 12 | 22 | 6  | 35 | 25 | 65 | -      |
| AC1210-35     | 12 | 22 | 10 | 35 | 30 | 65 | -      |
| AC1606-35     | 16 | 16 | 6  | 35 | 25 | 85 | 0.14   |
| AC1610-35     | 16 | 22 | 10 | 35 | 30 | 85 | -      |

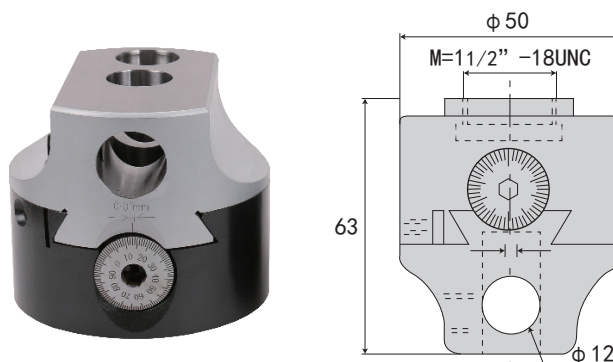
## F1-1/2" 型镗头

## TYPE F1-1/2 BORING HEADS

### 特点:

#### 注:

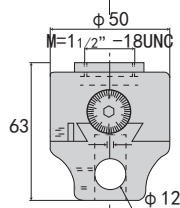
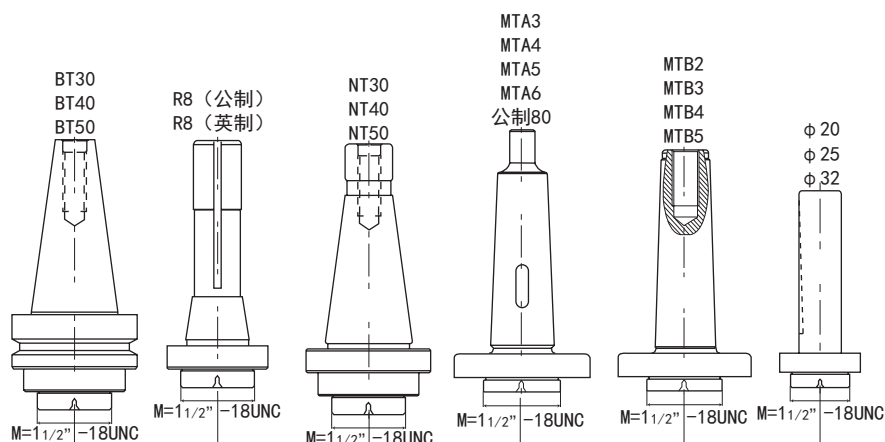
- ◎根据机床所需可配合各种锥柄使用
- ◎刻度有公制和英制规格, 每小格 0.01mm (0.0005")
- ◎调整行程 15mm (5/8")
- ◎最小镗孔直径 10mm
- ◎最大镗孔直径 125mm
- ◎最深镗孔深度 60mm



| 规格 / 型号<br>Model | D  | H  | 最大位移<br>Max offset | 刀杆直径<br>d Boring bar dia | 最小刻度值<br>Min graduation | 镗削直径<br>Dia of Boring |
|------------------|----|----|--------------------|--------------------------|-------------------------|-----------------------|
| F1-1/2           | 50 | 63 | 5/8"               | 1/2"                     | 0.001"                  | 3/8"-5"               |
| F1-12            | 50 | 63 | 16mm               | 12mm                     | 0.01mm                  | 10-125mm              |

## F1-1/2" 型镗头 + 锥柄

## TYPE F1-1/2 BORING HEADS+SHANK



BORING HEAD  
镗孔刀具系列

| 规格 / 型号<br>Model | 连接柄<br>Shank      | 镗头型号<br>Head No | 重量<br>KGS | 规格 / 型号<br>Model | 连接柄<br>Shank        | 镗头型号<br>Head No | 重量<br>KGS |
|------------------|-------------------|-----------------|-----------|------------------|---------------------|-----------------|-----------|
| BT30-F1-1/2"     | BT30-1 1/2"-18UNC | F1-1/2"         | 1.5       | MTA2-F1-1/2"     | MTA2-1 1/2"-18UNC   | F1-1/2"         | 1.1       |
| BT40-F1-1/2"     | BT40-1 1/2"-18UNC | F1-1/2"         | 2.0       | MTA3-F1-1/2"     | MTA3-1 1/2"-18UNC   | F1-1/2"         | 1.3       |
| BT50-F1-1/2"     | BT50-1 1/2"-18UNC | F1-1/2"         | 4.7       | MTA4-F1-1/2"     | MTA4-1 1/2"-18UNC   | F1-1/2"         | 1.7       |
| NT30-F1-1/2"     | NT30-1 1/2"-18UNC | F1-1/2"         | 1.3       | MTA5-F1-1/2"     | MTA5-1 1/2"-18UNC   | F1-1/2"         | 2.2       |
| NT40-F1-1/2"     | NT40-1 1/2"-18UNC | F1-1/2"         | 2.0       | MTA6-F1-1/2"     | MTA6-1 1/2"-18UNC   | F1-1/2"         | 6.2       |
| NT50-F1-1/2"     | NT50-1 1/2"-18UNC | F1-1/2"         | 3.9       | 公制 80-F1-1/2"    | 公制 80-1 1/2"-18UNC  | F1-1/2"         | 8.6       |
| MTB2-F1-1/2"-M10 | MTB2-1 1/2"-18UNC | F1-1/2"         | 1.0       | C20-F1-1/2"      | C20-1 1/2"-18UNC    | F1-1/2"         | 1.1       |
| MTB3-F1-1/2"-M12 | MTB3-1 1/2"-18UNC | F1-1/2"         | 1.2       | C25-F1-1/2"      | C25-1 1/2"-18UNC    | F1-1/2"         | 1.2       |
| MTB4-F1-1/2"-M16 | MTB4-1 1/2"-18UNC | F1-1/2"         | 1.6       | C32-F1-1/2"      | C32-1 1/2"-18UNC    | F1-1/2"         | 1.4       |
| MTB5-F1-1/2"-M20 | MTB5-1 1/2"-18UNC | F1-1/2"         | 2.1       | R8-F1-1/2" 公制    | R8 公制 -1 1/2"-18UNC | F1-1/2"         | 1.3       |
|                  |                   |                 |           | R8-F1-1/2" 英制    | R8 英制 -1 1/2"-18UNC | F1-1/2"         | 1.3       |

# 镗孔刀具系列 BORING HEAD

## F1-3/4" 型镗头

## TYPE F1-3/4 BORING HEADS

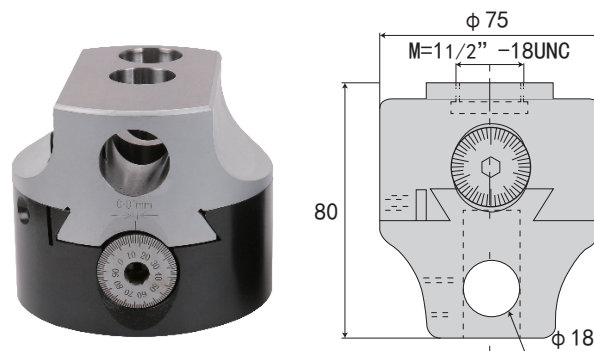
### 特点:

#### 注:

- ◎根据机床所需可配合各种锥柄使用
- ◎刻度有公制和英制规格, 每小格 0.01mm (0.0005")
- ◎调整行程 25mm (1")
- ◎最小镗孔直径 12mm
- ◎最大镗孔直径 225mm
- ◎最深镗孔深度 90mm

### Features:

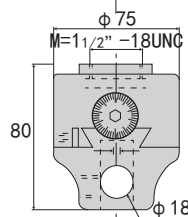
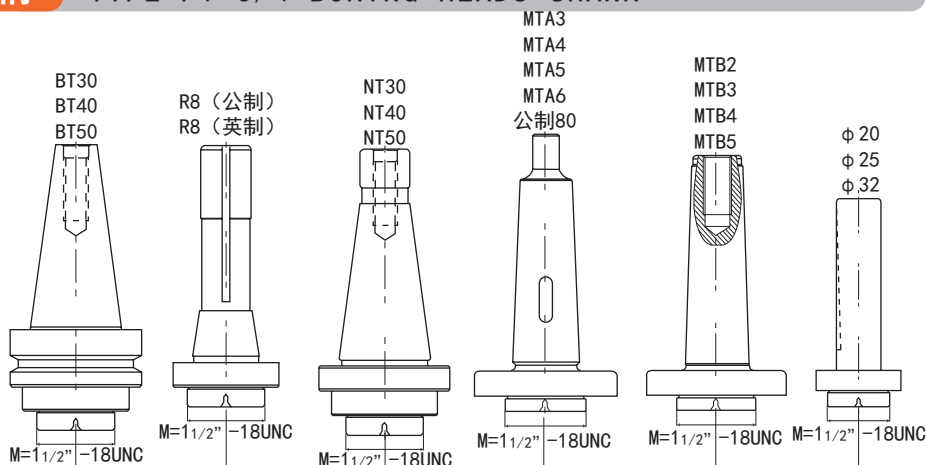
- ◎ Use different shanks according different lathe
- ◎ The dial has one scale in centimetres and another in inches, minimum scale value is 0.01mm(0.0005").
- ◎ Max offset 25mm (1")
- ◎ Dia of boring:12mm
- ◎ Max boring diameter: 225mm
- ◎ Max depth of boring hole



| 规格 / 型号<br>Model | D  | H  | 最大位移<br>Max<br>offset | 刀杆直径<br>Boring<br>bar dia | 最小刻度值<br>Min<br>graduation | 镗削范围<br>Boring<br>Range |
|------------------|----|----|-----------------------|---------------------------|----------------------------|-------------------------|
| F1-3/4           | 75 | 80 | 1"                    | 3/4"                      | 0.0005"                    | 1/2"-9"                 |
| F1-18            | 75 | 80 | 25mm                  | 18mm                      | 0.01mm                     | 12-225mm                |

## F1-3/4" 型镗头 + 锥柄

## TYPE F1-3/4 BORING HEADS+SHANK



| 规格 / 型号<br>Model | 连接柄<br>Shank      | 镗头型号<br>Head No | 重量<br>KGS | 规格 / 型号<br>Model | 连接柄<br>Shank        | 镗头型号<br>Head No | 重量<br>KGS |
|------------------|-------------------|-----------------|-----------|------------------|---------------------|-----------------|-----------|
| BT30-F1-3/4"     | BT30-1 1/2"-18UNC | F1-3/4"         | 1.6       | MTA2-F1-3/4"     | MTA2-1 1/2"-18UNC   | F1-3/4"         | 1.3       |
| BT40-F1-3/4"     | BT40-1 1/2"-18UNC | F1-3/4"         | 2.1       | MTA3-F1-3/4"     | MTA3-1 1/2"-18UNC   | F1-3/4"         | 1.5       |
| BT50-F1-3/4"     | BT50-1 1/2"-18UNC | F1-3/4"         | 4.9       | MTA4-F1-3/4"     | MTA4-1 1/2"-18UNC   | F1-3/4"         | 1.85      |
| NT30-F1-3/4"     | NT30-1 1/2"-18UNC | F1-3/4"         | 1.4       | MTA5-F1-3/4"     | MTA5-1 1/2"-18UNC   | F1-3/4"         | 2.55      |
| NT40-F1-3/4"     | NT40-1 1/2"-18UNC | F1-3/4"         | 2.2       | MTA6-F1-3/4"     | MTA6-1 1/2"-18UNC   | F1-3/4"         | 7.0       |
| NT50-F1-3/4"     | NT50-1 1/2"-18UNC | F1-3/4"         | 4.0       | 公制 80-F1-3/4"    | 公制 80-1 1/2"-18UNC  | F1-3/4"         | 9.0       |
| MTB2-F1-3/4"-M10 | MTB2-1 1/2"-18UNC | F1-3/4"         | 1.2       | C20-F1-3/4"      | C20-1 1/2"-18UNC    | F1-3/4"         | 1.3       |
| MTB3-F1-3/4"-M12 | MTB3-1 1/2"-18UNC | F1-3/4"         | 1.4       | C25-F1-3/4"      | C25-1 1/2"-18UNC    | F1-3/4"         | 1.4       |
| MTB4-F1-3/4"-M16 | MTB4-1 1/2"-18UNC | F1-3/4"         | 1.7       | C32-F1-3/4"      | C32-1 1/2"-18UNC    | F1-3/4"         | 1.6       |
| MTB5-F1-3/4"-M20 | MTB5-1 1/2"-18UNC | F1-3/4"         | 2.3       | R8-F1-3/4" 公制    | R8 公制 -1 1/2"-18UNC | F1-3/4"         | 1.4       |
|                  |                   |                 |           | R8-F1-3/4" 英制    | R8 英制 -1 1/2"-18UNC | F1-3/4"         | 1.4       |

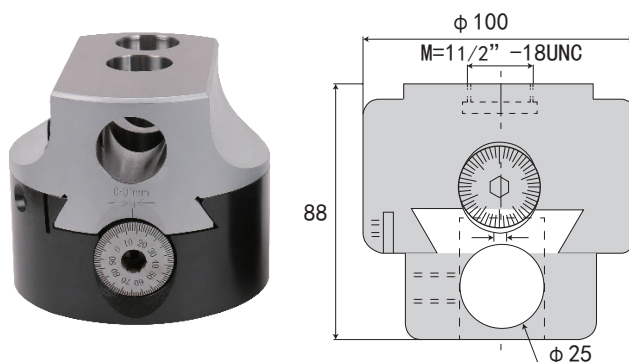
## F1-1" 型镗头

## TYPE F1-1 BORING HEADS

### 特点:

#### 注:

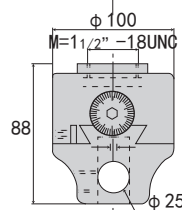
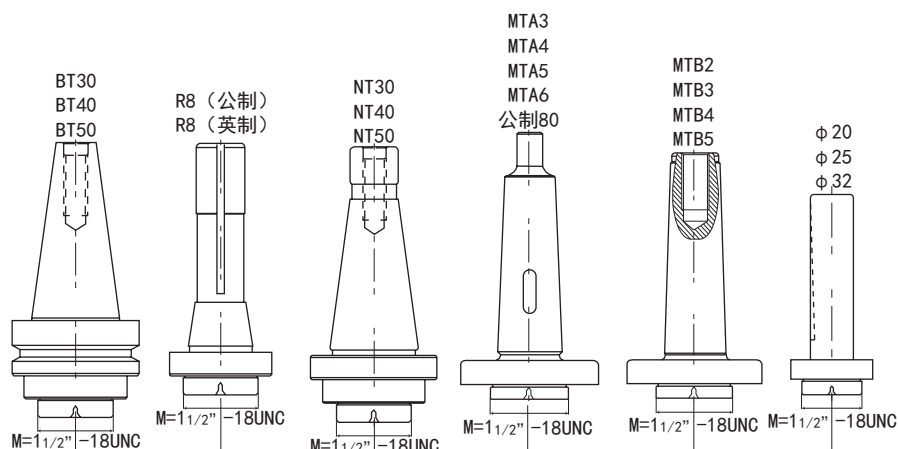
- ◎根据机床所需可配合各种锥柄使用
- ◎刻度有公制和英制规格, 每小格 0.01mm (0.0005")
- ◎调整行程 25mm (1")
- ◎最小镗孔直径 15mm
- ◎最大镗孔直径 320mm
- ◎最深镗孔深度 150mm



| 规格 / 型号<br>Model | D   | H  | 最大位移<br>Max offset | 刀杆直径<br>Boring bar dia | 最小刻度值<br>Min graduation | 镗削直径<br>Dia of Boring |
|------------------|-----|----|--------------------|------------------------|-------------------------|-----------------------|
| F1-1             | 100 | 88 | 1-5/8"             | 1"                     | 0.0005"                 | 5/8"-12.5"            |
| F1-25            | 100 | 88 | 41mm               | 25mm                   | 0.01mm                  | 15-320mm              |

## F1-1" 型镗头 + 锥柄

## TYPE F1-1 BORING HEADS+SHANK



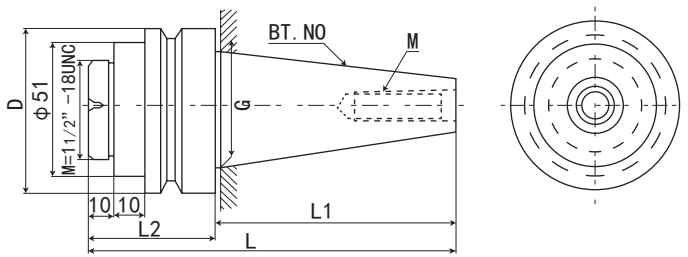
BORING HEAD  
镗孔刀具系列

| 规格 / 型号 Model  | 连接柄 Shank         | 镗头型号 Head No | 重量 KGS | 规格 / 型号 Model | 连接柄 Shank           | 镗头型号 Head No | 重量 KGS |
|----------------|-------------------|--------------|--------|---------------|---------------------|--------------|--------|
| BT30-F1-1"     | BT30-1 1/2"-18UNC | F1-1"        | 2.1    | MTA2-F1-1"    | MTA2-1 1/2"-18UNC   | F1-1"        | 1.4    |
| BT40-F1-1"     | BT40-1 1/2"-18UNC | F1-1"        | 2.3    | MTA3-F1-1"    | MTA3-1 1/2"-18UNC   | F1-1"        | 1.6    |
| BT50-F1-1"     | BT50-1 1/2"-18UNC | F1-1"        | 5.0    | MTA4-F1-1"    | MTA4-1 1/2"-18UNC   | F1-1"        | 1.7    |
| NT30-F1-1"     | NT30-1 1/2"-18UNC | F1-1"        | 1.6    | MTA5-F1-1"    | MTA5-1 1/2"-18UNC   | F1-1"        | 2.6    |
| NT40-F1-1"     | NT40-1 1/2"-18UNC | F1-1"        | 2.3    | MTA6-F1-1"    | MTA6-1 1/2"-18UNC   | F1-1"        | 7.3    |
| NT50-F1-1"     | NT50-1 1/2"-18UNC | F1-1"        | 4.1    | 公制 80-F1-1"   | 公制 80-1 1/2"-18UNC  | F1-1"        | 9.5    |
| MTB2-F1-1"-M10 | MTB2-1 1/2"-18UNC | F1-1"        | 1.3    | C20-F1-1"     | C20-1 1/2"-18UNC    | F1-1"        | 1.4    |
| MTB3-F1-1"-M12 | MTB3-1 1/2"-18UNC | F1-1"        | 1.5    | C25-F1-1"     | C25-1 1/2"-18UNC    | F1-1"        | 1.5    |
| MTB4-F1-1"-M16 | MTB4-1 1/2"-18UNC | F1-1"        | 1.8    | C32-F1-1"     | C32-1 1/2"-18UNC    | F1-1"        | 1.7    |
| MTB5-F1-1"-M20 | MTB5-1 1/2"-18UNC | F1-1"        | 2.4    | R8-F1-1" 公制   | R8 公制 -1 1/2"-18UNC | F1-1"        | 1.6    |
|                |                   |              |        | R8-F1-1" 英制   | R8 英制 -1 1/2"-18UNC | F1-1"        | 1.6    |

# 镗孔刀具系列 BORING HEAD

## BT-F1 型镗头锥柄

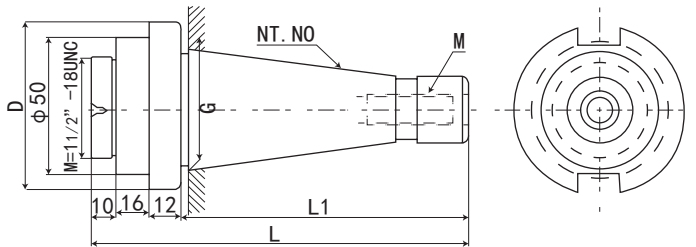
### BT-F1 BORING HEAD+SHANK ASSEMBLY ILLUSTRATION



| 规格 / 型号 Model    | BT.NO | L     | L1    | L2 | D   | M         | G     | 重量 KGS |
|------------------|-------|-------|-------|----|-----|-----------|-------|--------|
| BT30-11/2"-18UNC | BT30  | 90.4  | 50.4  | 40 | 46  | M12*1.75P | 31.75 | 1.6    |
| BT40-11/2"-18UNC | BT40  | 112.4 | 67.4  | 45 | 63  | M16*2.0P  | 44.45 | 2.1    |
| BT50-11/2"-18UNC | BT50  | 154.8 | 104.8 | 50 | 100 | M24*3.0P  | 69.85 | 4.9    |

## NT-F1 型镗头锥柄

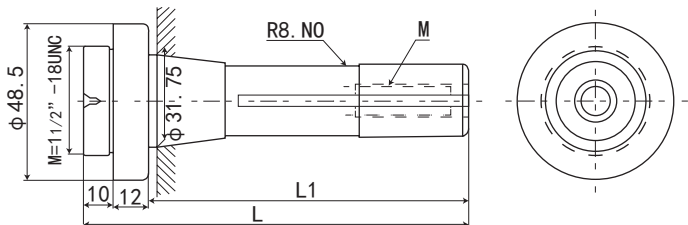
### NT-F1 BORING HEAD+SHANK ASSEMBLY ILLUSTRATION



| 规格 / 型号 Model    | NT.NO | L   | L1  | D  | M         | G     | 重量 KGS |
|------------------|-------|-----|-----|----|-----------|-------|--------|
| NT30-11/2"-18UNC | NT30  | 108 | 70  | 50 | M12*1.75P | 31.75 | 1.6    |
| NT40-11/2"-18UNC | NT40  | 133 | 95  | 63 | M16*2.0P  | 44.45 | 2.1    |
| NT50-11/2"-18UNC | NT50  | 168 | 130 | 95 | M24*3.0P  | 69.85 | 4.9    |

## R8-F1 型镗头锥柄

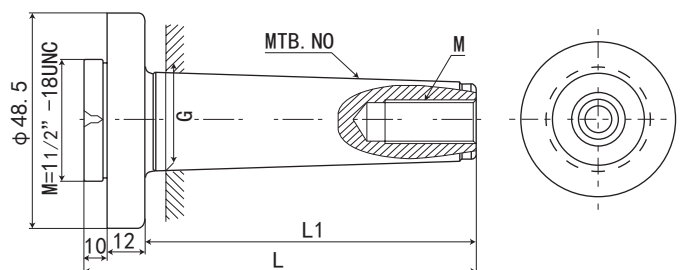
### R8-F1 BORING HEAD+SHANK ASSEMBLY ILLUSTRATION



| 规格 / 型号 Model     | R8.NO | L   | L1  | M          | G     | 重量 KGS |
|-------------------|-------|-----|-----|------------|-------|--------|
| R8-11/2"-18UNC 公制 | R8 公制 | 126 | 104 | M12*1.75P  | 31.75 | 1.4    |
| R8-11/2"-18UNC 英制 | R8 英制 | 126 | 104 | 7/16-20UNF | 31.75 | 1.4    |

## 莫氏 MTB-F1 型镗头锥柄

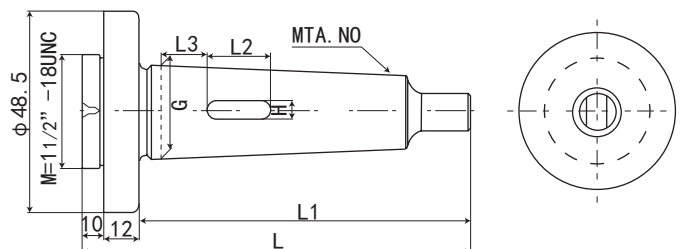
## MS. MTB-F1 BORING HEAD+SHANK ASSEMBLY ILLUSTRATION



| 规格 / 型号 Model    | MTB.NO | L   | L1  | M         | G      | 重量 KGS |
|------------------|--------|-----|-----|-----------|--------|--------|
| MTB2-11/2"-18UNC | MTB2   | 90  | 68  | M10*1.5P  | 17.780 | 1.2    |
| MTB3-11/2"-18UNC | MTB3   | 107 | 85  | M12*1.75P | 23.825 | 1.4    |
| MTB4-11/2"-18UNC | MTB4   | 130 | 108 | M16*2.0P  | 31.267 | 1.7    |
| MTB5-11/2"-18UNC | MTB5   | 158 | 136 | M20*2.5P  | 44.399 | 2.3    |

## 莫氏 MTA-F1 型镗头锥柄

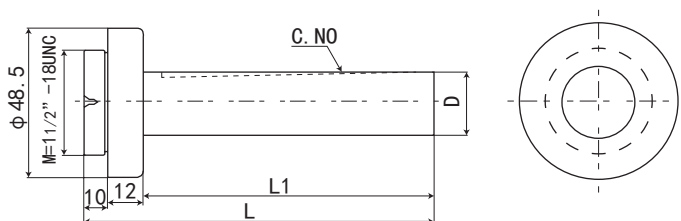
## MS. MTA-F1 BORING HEAD+SHANK ASSEMBLY ILLUSTRATION



| 规格 / 型号 Model     | MTA.NO | L   | L1  | L2 | L3 | H  | G      | 重量 KGS |
|-------------------|--------|-----|-----|----|----|----|--------|--------|
| MTA2-11/2"-18UNC  | MTA2   | 106 | 84  | -  | -  | -  | 17.780 | 1.3    |
| MTA3-11/2"-18UNC  | MTA3   | 121 | 99  | -  | -  | -  | 23.825 | 1.5    |
| MTA4-11/2"-18UNC  | MTA4   | 146 | 124 | -  | -  | -  | 31.267 | 1.85   |
| MTA5-11/2"-18UNC  | MTA5   | 178 | 156 | 40 | 35 | 13 | 44.399 | 2.55   |
| MTA6-11/2"-18UNC  | MTA6   | 240 | 218 | 40 | 45 | 17 | 63.348 | 7.0    |
| 公制 80-11/2"-18UNC | 公制 80  | 250 | 228 | 45 | 55 | 20 | 80.00  | 9.0    |

## 直柄 C 型 -F1 型镗头锥柄

## C-F1 BORING HEAD+SHANK ASSEMBLY ILLUSTRATION

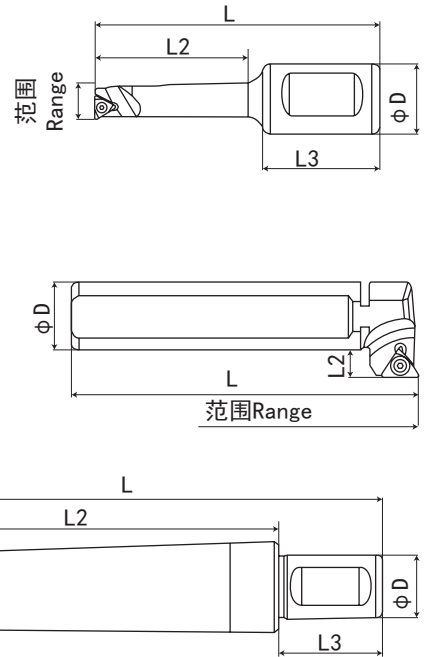
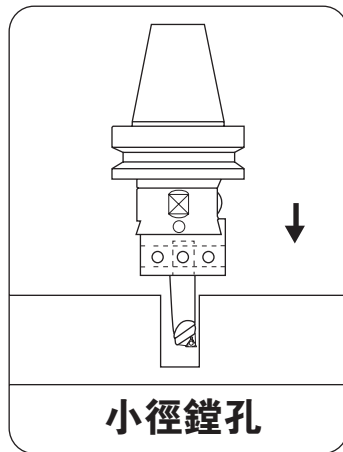
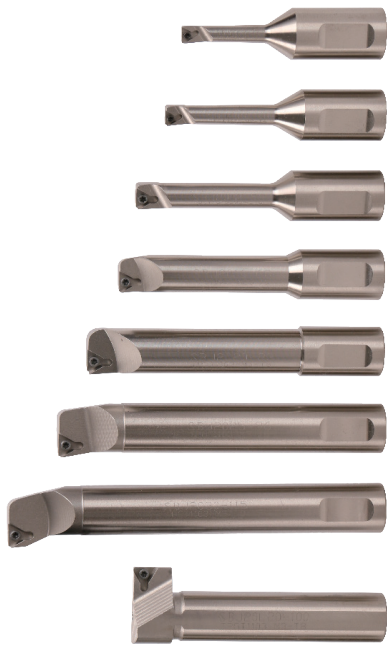


| 规格 / 型号 Model   | C.NO | L  | L1 | D  | 重量 KGS |
|-----------------|------|----|----|----|--------|
| C20-11/2"-18UNC | C20  | 82 | 60 | 20 | 1.3    |
| C25-11/2"-18UNC | C25  | 82 | 60 | 25 | 1.4    |
| C32-11/2"-18UNC | C32  | 82 | 60 | 32 | 1.6    |

# 镗孔刀具系列 BORING HEAD

## F1 型镗头替换式镗孔刀杆

## F1 INTERCHANGEABLE BORING CUTTER



## F1-1/2" 镗头替换式镗孔刀杆

## F1-1/2" INTERCHANGEABLE BORING CUTTER

| 规格 / 型号 Model | 尺寸 |          |    |    |    | 刀片 Insert  | 螺丝 Screw | 扳手 Wrench |
|---------------|----|----------|----|----|----|------------|----------|-----------|
|               | D  | 范围 Range | L  | L2 | L3 |            |          |           |
| SBJ1208-32L   | 12 | 8-10     | 64 | 32 | 32 | TBGT060102 | M2*4.0   | T6        |
| SBJ1210-40L   | 12 | 10-12    | 72 | 40 | 32 | TBGT060102 | M2*4.0   | T6        |
| SBJ1212-50L   | 12 | 12-16    | 77 | 50 | 32 | TPGH090202 | M2.5*5.0 | T8        |
| SBJ1216-50L   | 12 | 16-20    | 77 | 50 | 32 | TPGH090202 | M2.5*5.0 | T8        |
| SBJ1220-50L   | 12 | 20-25    | 77 | 50 | 32 | TPGH110304 | M3*8.0   | T10       |
| SBJ12-36      | 12 | 70-150   | 60 | -  | 32 | TPGH110304 | M3*8.0   | T10       |

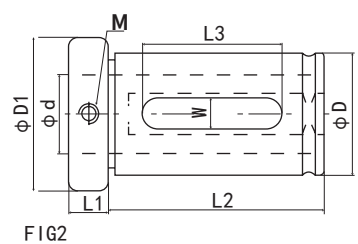
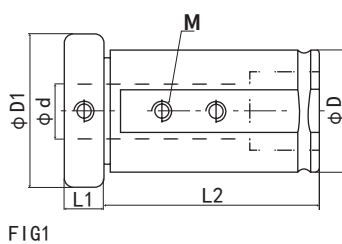
## F1-3/4" 镗头替换式镗孔刀杆

## F1-3/4" INTERCHANGEABLE BORING CUTTER

| 规格 / 型号 Model | 尺寸 |          |     |         |    | 刀片 Insert  | 螺丝 Screw | 扳手 Wrench |
|---------------|----|----------|-----|---------|----|------------|----------|-----------|
|               | D  | 范围 Range | L   | L2      | L3 |            |          |           |
| SBJ1808-32L   | 18 | 8-10     | 80  | 32      | 32 | TBGT060102 | M2*4.0   | T6        |
| SBJ1810-40L   | 18 | 10-12    | 87  | 40      | 32 | TBGT060102 | M2*4.0   | T6        |
| SBJ1812-53L   | 18 | 12-16    | 98  | 53      | 32 | TPGH090202 | M2.5*5.0 | T8        |
| SBJ1816-68L   | 18 | 16-20    | 110 | 68      | 32 | TPGH090202 | M2.5*5.0 | T8        |
| SBJ1820-83L   | 18 | 20-25    | 123 | 83      | 32 | TPGH110304 | M3*8.0   | T10       |
| SBJ1825-96L   | 18 | 25-30    | 137 | 96      | 32 | TPGH110304 | M3*8.0   | T10       |
| SBJ1830-115L  | 18 | 30-35    | 152 | 115     | 32 | TPGH110304 | M3*8.0   | T10       |
| SBJ18-36      | 18 | -        | 100 | 80+BTL1 | 32 | TPGH110304 | M3*8.0   | T10       |

## F1-1" 镗头替换式镗孔刀杆

## F1-1" INTERCHANGEABLE BORING CUTTER



| 规格 / 型号 Model | D  | d  | D1 | L1 | L2 | L3 | W  | M  | Fig |
|---------------|----|----|----|----|----|----|----|----|-----|
| D25-12        | 25 | 12 | 33 | 14 | 50 | -  | -  | M8 | 1   |
| D25-18        | 25 | 18 | 33 | 14 | 50 | 42 | 10 | -  | 2   |

◎此刀套可与以上两种刀杆在 F1-1" 镗头上使用，也可以选择直径 25 的内孔车刀杆在镗头上使用。

# 镗孔刀具系列

BORING TOOL SERIES



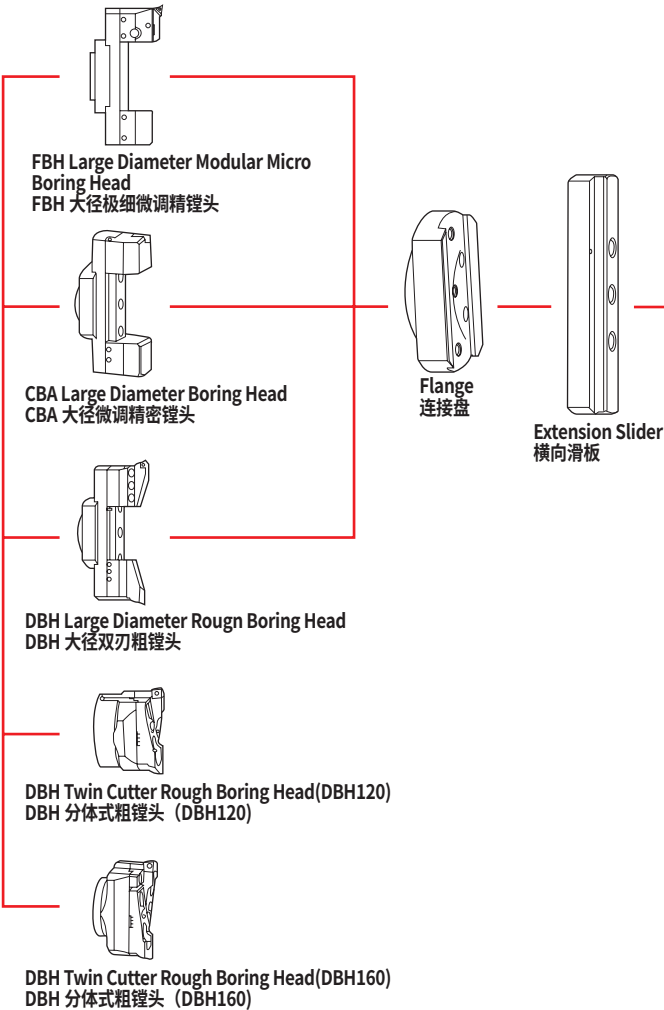
镗孔刀具系列  
BORING TOOL SERIES

# 镗孔刀具系列 BORING HEAD

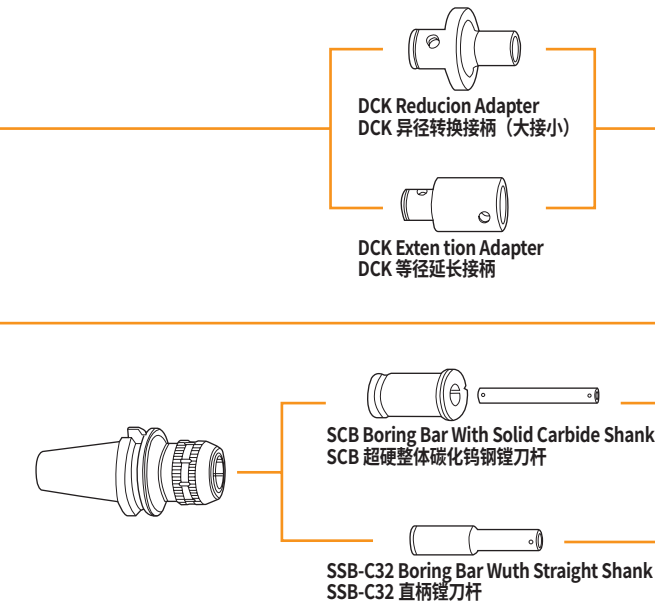
## 模块式精镗系列

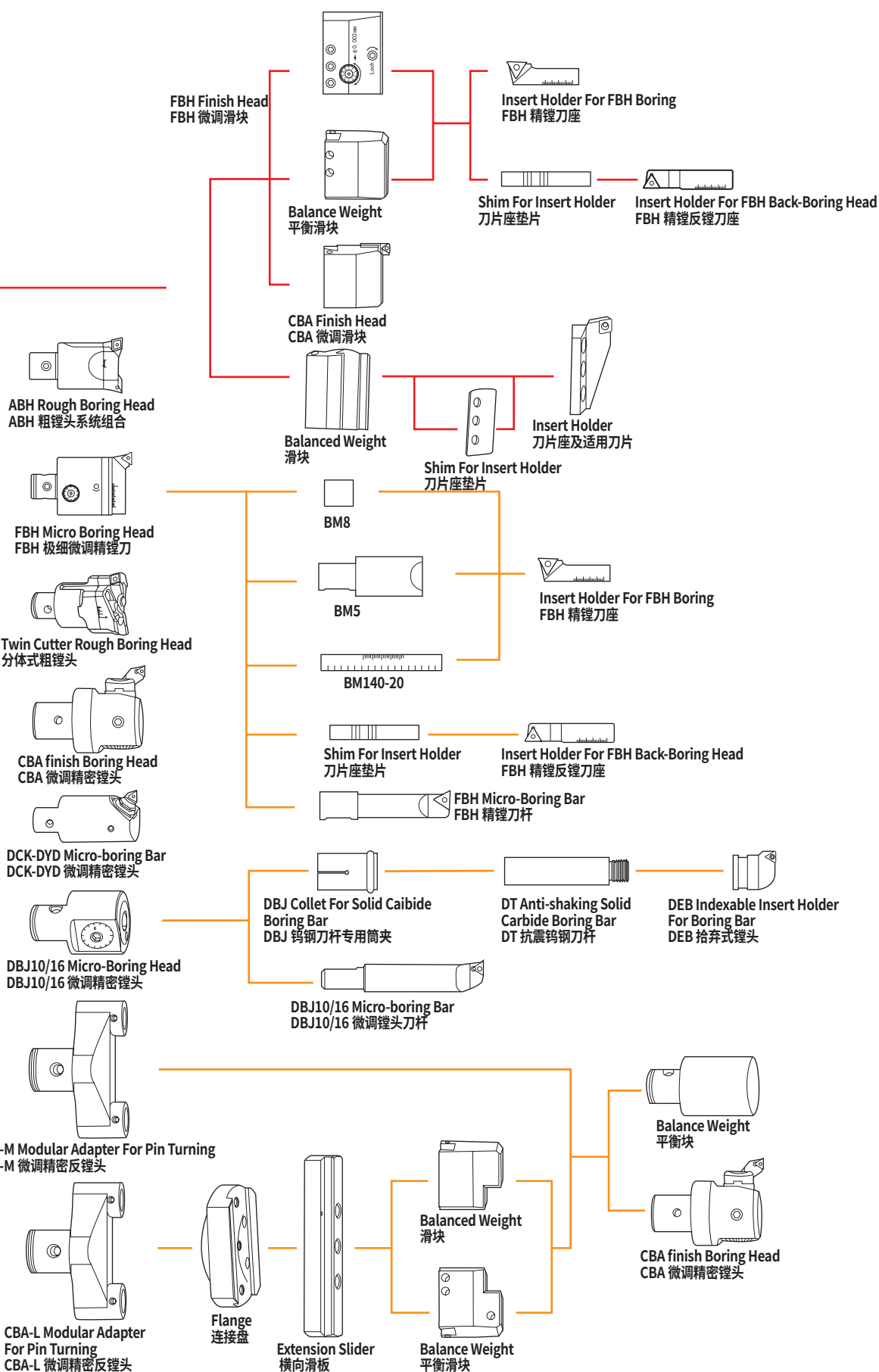
## MODULAR FINE BORING SYSTEM

### BST BORING SYSTEM BST 系列



### DCK BORING SYSTEM DCK 系列





BORING HEAD  
镗孔刀具系列

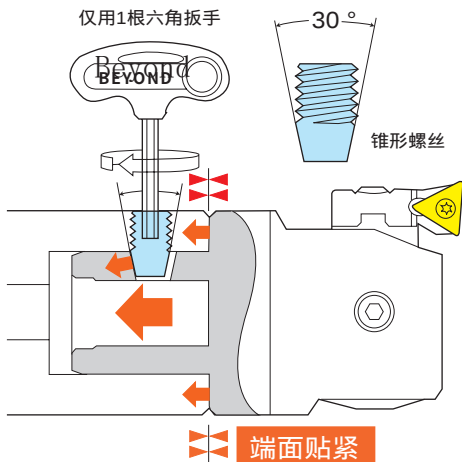
# 镗孔刀具系列 BORING HEAD

## CK 模块式镗刀系列

## CK MODULAR BORING BAR

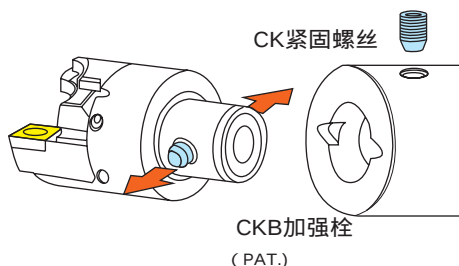
### 高精度 强力 操作方便——最理想的连接方式

High Precision, Big Power And Easy Operation—the Best Connection Style



**要点: 1** 依靠锥形螺丝, 把紧固力转换成轴向拉力, 使镗头端面与本体强力贴紧。

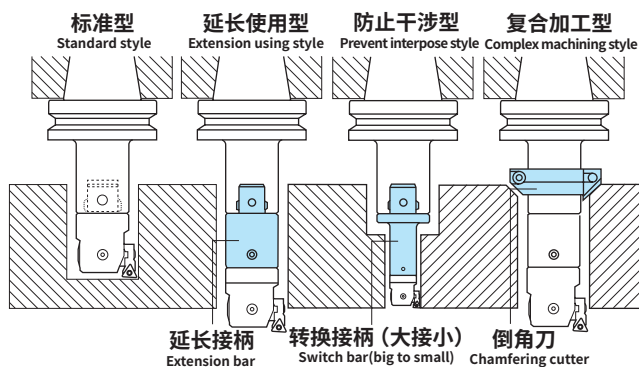
**要点: 2** 配有 CKB 加强栓 (PAT.), 以承受如粗镗等高扭矩加工。



| CK No. | 剪切强度<br>(CK 紧固螺丝) |
|--------|-------------------|
| CK1    | 600kg             |
| CK2    | 1,100kg           |
| CK3    | 1,400kg           |
| CK4    | 3,000kg           |
| CK5    | 4,700kg           |
| CK6    | 7,100kg           |
| CK7    | 16,200kg          |

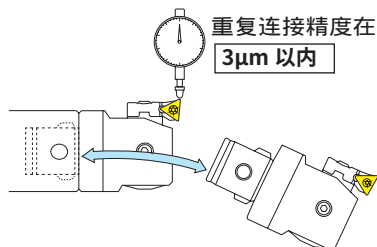
### 因为是模块式 能够自由设定加工直径和有效加工深度

针对不同的工件形状, 可以用延长杆加长、或用减径杆减小加工直径。既可以保持刚性, 又可以防止干涉。再配合倒角器, 可自由组合成最合适的镗孔刀具。



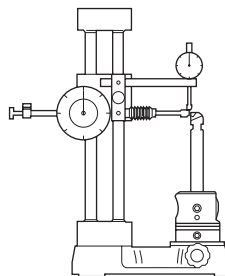
### 虽然是模块式 重复连接精度在 3μm 以内

同一镗头多次重复拆、装, 刀尖的位置误差不超过 3μm。实际加工中可获得稳定的加工精度。



### 因为是模块式 只需镗头单独对刀

由于镗头与本体的重复连接精度非常高, 所以只需镗头单独对刀。镗头单体对刀可减轻劳动强度、提高工作效率, 并且可事先将各镗头的加工直径调节好, 而降低综合成本。



CK 对刀仪

CKP150ZA..... 对应 CK1-CK6  
CKP550..... 对应 CK7

### 特点:

注:

- ◎ 依靠 30 度锥形螺丝, 把紧固力转换成轴向拉力, 使镗刀端面与本体端面贴紧。(如图)
- ◎ 模块式设计, 可以自由设定加工直径和有效加工深度, 配用。转换接头 (大接小) 减少刀具直径, 既可以确保刚性, 又可以防止干涉, 再配合倒角器可自由组合成最合适的镗削刀具。(如图)
- ◎ 因镗头与本体的连接精度非常高所以只需对镗头单独对刀, 可减轻劳动强度, 提高工作效率, 降低综合成本。

### Features:

- ◎ To change settled force into axial pull with the 30 angle taper screw, so the end face of boring bar and holder touch closely. (Show as chart)
- ◎ Modular designs can set on machining diameter and available process depth freely and easy for choosing. Reducing the cutter diameter of switch head (size) can not only assure the rigidity but also prevent interpose; then cooperating with chamfering machine, there is the most suitable boring bar in free combination. (show as chart)
- ◎ Because the boring head and holder minutely connected, so we should setting cutting head separated, then it can increase the job efficiency, reduce the labor intensity and colligation cost.

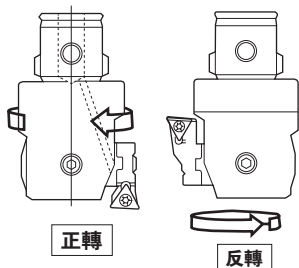
加工范围:  $\phi 20$ - $\phi 203$ 

## 特点 2:



## 满足同轴度的要求

◎标准对应反镗加工



在镗背面的孔时, 往往需要将工件反装。这样不仅浪费时间, 而且很难保证前后孔的同轴度, EWN 精镗头只需将刀片座反装即可标准对应反镗加工, 既能保证精度, 又能提高生产效率。

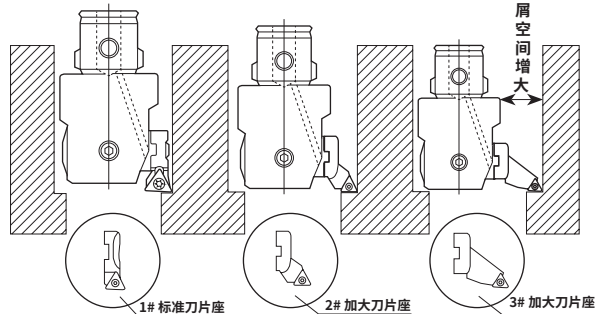
(※ 用 1# 刀片座不能进行反镗加工。)

## 特点 1:



## 只需交换刀片座

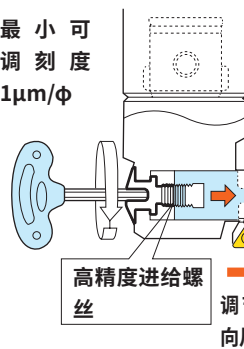
◎增大加工范围 改善切削排出性



同一镗头可对应 3 种刀片座, 加工范围约增大到原来的 3 倍。同时可根据需要灵活组合, 增大镗头与孔壁间的空隙, 改善切屑的排出性。

## 特点 3:

◎高信赖性进给螺丝

最小可  
调刻度  
 $1\mu\text{m}/\phi$ 

调节直径时, 轴向尺寸无变化。

进给螺丝是精镗头的命脉, 采用配对生产法, 将螺丝与螺母间的齿隙限制在最小, 获得最高的信赖性。

因进给螺纹牙距极细小进给到底时或套管轴固定螺丝未放松时绝不能再进刀, 否则会破坏进给螺纹。

## EWN 150 精镗头 (大孔径用)

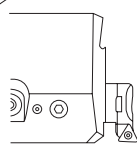
## EWN 150 FINE BORING HEAD

## 特点 1:



◎重视操作性

只需 T 型扳手 1 把, 方便, 迅速

特点 2: 加工范围:  $\phi 150$ - $\phi 880$ 

ENH6-1



ENH6-2

+26/  $\phi$ 

ENH6-3

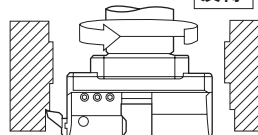
+50/  $\phi$ 

◎加工范围增大

通过交换刀片座, 增大加工范围

## 特点 3:

反转



◎对应反镗加工

只要将刀片座反装, 就可以进行反镗。

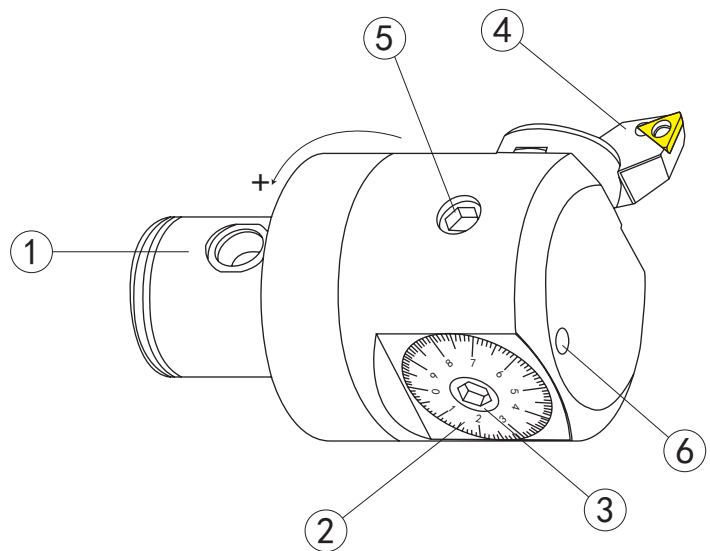
(※ 用 1# 刀片座不能进行反镗加工)

# 镗孔刀具系列 BORING HEAD

## EWN 产品主要部位名称

THE NAME OF THE MAIN PART OF PRODUCTS WITH EWN

- ① EWN shank  
EWN 柄部
- ② Micro adjusting knob  
微调旋钮
- ③ EWN body  
EWN 头部
- ④ Insert holder  
刀片座
- ⑤ Lock screw  
固定螺丝
- ⑥ Oil inlet  
注油口



## 使用顺序 /Sequence of Use

请参照图示，按下列顺序 1-5 顺序操作：

步骤一：松开固定螺丝。

步骤二：按顺时针方向旋转调旋钮，使加工直径增大，调整旋钮刻度为  $\phi 0.01\text{mm}$ 。

步骤三：按逆时针方向旋转旋钮，使加工直径减小。

步骤四：调整尺寸加工时，请按同方向微调，以确保微调精度。

步骤五：微调至所需尺寸时，请以适当扭力锁紧固定螺丝。

Please operate the following step(1-5)according to the diagram figured:

Step1.Loosening the fixed screws.

Step2.Rotating tune knob by clockwise to increase the processing diameter,the graduate is  $\phi 0.01\text{mm}$ .

Step3.Rotating by anti-clockwise will decrease the processing diameter.

Step4.When adjusting the size of processing,please fine-tuning by the same direction to ensure mirco adjustment Precision.

Step5.When meet the demanded size,please use the proper force to lock the fasten screws.

## 使用者注意事项 /Notices of The User

1. 请使用在加工范围内。
2. 当滑座在已锁紧状态下，请勿旋转调整旋钮，否则会导致调整机构被破坏。
3. 滑座之固定，请使用专用扳手，以适当扭力来确保锁紧固定螺丝。过度锁紧会导致座体移位，过松会造成精度不良。
4. 本产品是由精密螺丝、移动刀片座旋转调整旋钮，在阻力很大或无法转动时，请停止调整，并确认以下事项：
  - ① 固定螺丝是否松开。
  - ② 是否超出调整范围。
  - ③ 当过度旋转调整旋钮时，会导致刀杆和本体卡死，镗头精度被破坏。
5. 在使用本产品前，应先加入润滑脂；使用后，应将表面清理干净，浸入防锈油，以免长时间放置后生锈。

1Using in the processing range.

2Do not rotate the adjustment knob when the slide is tightly locked,or the adjusting mechanism will be destroyed.

3Please use special wrench to fix the screw with proper torque force to fix the guide shaft.Too much locking will be screw stem shift, on the contrary,there will be accuracy of non-performing.

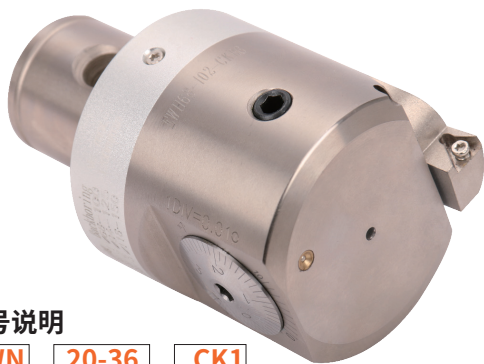
4Our products use micro screws,mobile slide to rotate the adjustment knob. You should make sure the following notices and adjusting with great resistance or it can not move:

- ① Whether the fixed screw is loosened.
- ② Whether it is out of the adjustment range.
- ③ Too much force will make cutting tools dead and the precision of boring head destroyed.

5Lubrication grease shall be applied befor working; Please clean it after working and dip it in antirust oil in case of rust.

## EWN 微调精密镗头

## EWN SMALL DIAMETER FINE BORING HEAD

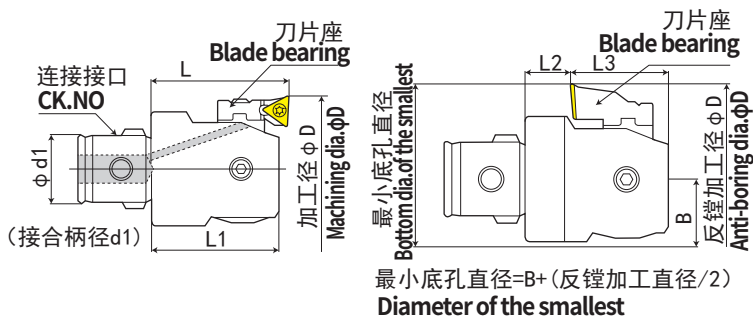


### 型号说明

**EWN** **20-36** **CK1**  
 CK NO.  
 加工范围  
 EWN 精镗头 (不附带刀片)

### 备注:

- ◎加工范围是指 TP08 刀片半径 R0.2、TC11 刀片半径 R0.4 时的值。
- ◎镗头仅附带 1# 刀片座。(2#/3# 刀片座需要另购)
- ◎反镗加工时, 主轴应反转。



| 规格 / 型号<br>Model | 连接<br>接口<br>CK.NO | d1 | 刀片座<br>Blade<br>bearing | 正镗 Boring                     |      |      | 反镗 Counter boring             |      |      |      | 适配刀片<br>Insert | 螺丝<br>Screw | 扳手<br>Wrench | 重量<br>KGS |
|------------------|-------------------|----|-------------------------|-------------------------------|------|------|-------------------------------|------|------|------|----------------|-------------|--------------|-----------|
|                  |                   |    |                         | 镗孔范围<br>Boring<br>Range<br>φD | L    | L1   | 镗孔范围<br>Boring<br>Range<br>φD | L2   | L3   | B    |                |             |              |           |
| EWN20-36-CK1     | CK1               | 11 | ENH1-1                  | 20-26                         | 32.5 | 29.5 | -                             | 10.5 | 19   | 10   | TPGH0802       | M2.2*5      | T6           | 0.07      |
|                  |                   |    | ENH1-2                  | 25-31                         | 32.5 | 29.5 | 30-31                         | 10.5 | 19   | 10   | TPGH0802       | M2.2*5      | T6           | 0.07      |
|                  |                   |    | ENH1-3                  | 30-36                         | 32.5 | 29.5 | 30-36                         | 10.5 | 19   | 10   | TPGH0802       | M2.2*5      | T6           | 0.07      |
| EWN25-47-CK2     | CK2               | 14 | ENH2-1                  | 25-33                         | 36.5 | 32.5 | -                             | 11.5 | 21   | 12.5 | TPGH0802       | M2.2*5      | T6           | 0.12      |
|                  |                   |    | ENH2-2                  | 32-40                         | 36.5 | 32.5 | 36-40                         | 11.5 | 21   | 12.5 | TPGH0802       | M2.2*5      | T6           | 0.12      |
|                  |                   |    | ENH2-3                  | 39-47                         | 36.5 | 32.5 | 39-47                         | 11.5 | 21   | 12.5 | TPGH0802       | M2.2*5      | T6           | 0.12      |
| EWN32-60-CK3     | CK3               | 18 | ENH3-1                  | 32-42                         | 42.5 | 35   | -                             | 10   | 25   | 16   | TPGH0802       | M2.2*5      | T6           | 0.21      |
|                  |                   |    | ENH3-2                  | 41-51                         | 42.5 | 35   | 46-51                         | 10   | 25   | 16   | TPGH0802       | M2.2*5      | T6           | 0.21      |
|                  |                   |    | ENH3-3                  | 50-60                         | 42.5 | 35   | 50-60                         | 10   | 25   | 16   | TPGH0802       | M2.2*5      | T6           | 0.21      |
| EWN41-74-CK4     | CK4               | 22 | ENH4-1                  | 41-54                         | 51.5 | 43   | -                             | 14   | 29   | 20   | TCGT110204     | M2.5*6      | T8           | 0.40      |
|                  |                   |    | ENH4-2                  | 50-63                         | 51.5 | 43   | 53-63                         | 14   | 29   | 20   | TCGT110204     | M2.5*6      | T8           | 0.40      |
|                  |                   |    | ENH4-3                  | 61-74                         | 51.5 | 43   | 61-74                         | 14   | 29   | 20   | TCGT110204     | M2.5*6      | T8           | 0.40      |
| EWN53-95-CK5     | CK5               | 28 | ENH5-1                  | 53-70                         | 59.5 | 53   | 62-70                         | 19   | 34   | 25.5 | TCGT110204     | M2.5*6      | T8           | 1.10      |
|                  |                   |    | ENH5-2                  | 65-82                         | 59.5 | 53   | 65-82                         | 19   | 34   | 25.5 | TCGT110204     | M2.5*6      | T8           | 1.10      |
|                  |                   |    | ENH5-3                  | 78-95                         | 59.5 | 53   | 78-95                         | 19   | 34   | 25.5 | TCGT110204     | M2.5*6      | T8           | 1.10      |
| EWN68-150-CK6    | CK6               | 36 | ENH6-1                  | 68-100                        | 70   | 67.2 | 80-100                        | 22   | 45.2 | 32.5 | TCGT110204     | M2.5*6      | T8           | 1.74      |
|                  |                   |    | ENH6-2                  | 94-126                        | 70   | 67.2 | 90-126                        | 22   | 45.2 | 32.5 | TCGT110204     | M2.5*6      | T8           | 1.74      |
|                  |                   |    | ENH6-3                  | 118-150                       | 70   | 67.2 | 118-150                       | 22   | 45.2 | 32.5 | TCGT110204     | M2.5*6      | T8           | 1.74      |
| EWN100-203-CK6   | CK6               | 36 | ENH6-1                  | 100-153                       | 71   | 67.2 | 112-153                       | 22   | 45.2 | 45.5 | TCGT110204     | M2.5*6      | T8           | 2.46      |
|                  |                   |    | ENH6-2                  | 126-179                       | 71   | 67.2 | 126-179                       | 22   | 45.2 | 45.5 | TCGT110204     | M2.5*6      | T8           | 2.46      |
|                  |                   |    | ENH6-3                  | 150-203                       | 71   | 67.2 | 150-203                       | 22   | 45.2 | 45.5 | TCGT110204     | M2.5*6      | T8           | 2.46      |

注意: EWN 镗头自身允许最高切削速度 1200m/min, 但实际加工时还与刀柄的长度、机器及工件的刚性等周边条件有关。  
 请在容许范围内选择最合适的加工条件。

刀柄请参阅 P

刀片请参阅 P

## EWN-ENH 刀片座

## EWN-ENH INSERT HOLDER



ENH(1-6)-1



ENH(1-6)-2



ENH(1-6)-3

### 备注:

- ◎刀片座不附带刀片, 请另行订购。

| 规格 / 型号<br>Model | 镗孔范围<br>Boring<br>Range | 适配刀片<br>Insert | 螺丝<br>Screw | 扳手<br>Wrench | 对应镗头<br>Boring head | 规格 / 型号<br>Model | 镗孔范围<br>Boring<br>Range | 适配刀片<br>Insert | 螺丝<br>Screw | 扳手<br>Wrench | 对应镗头<br>Boring head             |
|------------------|-------------------------|----------------|-------------|--------------|---------------------|------------------|-------------------------|----------------|-------------|--------------|---------------------------------|
| ENH1-1           | 20-26                   | TPGH0802       | M2.2*5      | T6           | EWN20-36-CK1        | ENH4-1           | 41-54                   | TCGT110204     | M2.5*6      | T8           | EWN41-74-CK4                    |
| ENH1-2           | 25-31                   | TPGH0802       | M2.2*5      | T6           | EWN20-36-CK1        | ENH4-2           | 50-63                   | TCGT110204     | M2.5*6      | T8           | EWN41-74-CK4                    |
| ENH1-3           | 30-36                   | TPGH0802       | M2.2*5      | T6           | EWN20-36-CK1        | ENH4-3           | 61-74                   | TCGT110204     | M2.5*6      | T8           | EWN41-74-CK4                    |
| ENH2-1           | 25-33                   | TPGH0802       | M2.2*5      | T6           | EWN25-47-CK2        | ENH5-1           | 53-70                   | TCGT110204     | M2.5*6      | T8           | EWN53-95-CK5                    |
| ENH2-2           | 32-40                   | TPGH0802       | M2.2*5      | T6           | EWN25-47-CK2        | ENH5-2           | 65-82                   | TCGT110204     | M2.5*6      | T8           | EWN53-95-CK5                    |
| ENH2-3           | 39-47                   | TPGH0802       | M2.2*5      | T6           | EWN25-47-CK2        | ENH5-3           | 78-95                   | TCGT110204     | M2.5*6      | T8           | EWN53-95-CK5                    |
| ENH3-1           | 32-42                   | TPGH0802       | M2.2*5      | T6           | EWN32-60-CK3        | ENH6-1           | 68-100                  | TCGT110204     | M2.5*6      | T8           | EWN68-150-CK6<br>EWN100-203-CK6 |
| ENH3-2           | 41-51                   | TPGH0802       | M2.2*5      | T6           | EWN32-60-CK3        | ENH6-2           | 94-126                  | TCGT110204     | M2.5*6      | T8           |                                 |
| ENH3-3           | 50-60                   | TPGH0802       | M2.2*5      | T6           | EWN32-60-CK3        | ENH6-3           | 118-150                 | TCGT110204     | M2.5*6      | T8           |                                 |

# 镗孔刀具系列 BORING HEAD

## 硬质合金刀杆 EW 微型精镗头 加工范围 $\phi 15-\phi 22$

高信赖性、最小刻度 0.01mm/ $\phi$  的精密调整机构微型化

- ◎仅有微量的偏心、对应高速加工
- ◎一体型硬质合金刀杆、高刚性

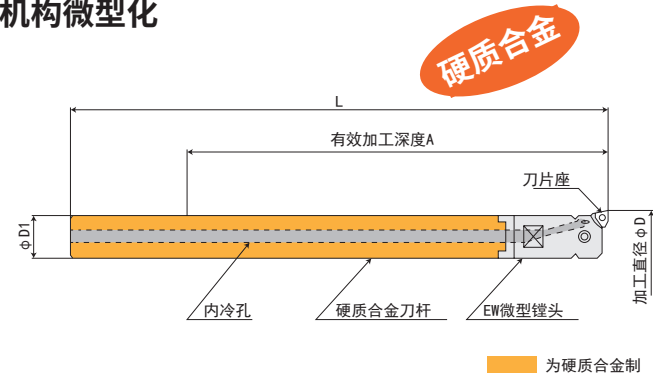


### 型号说明

ST14 W EW 15 110L  
直柄直径 硬质合金 精镗头 有效加工深度 最小加工直径

| 规格 / 型号 Model   | $\phi D1$ | 加工直径 $\phi D$ | L   | A   | 刀片座  | 适用刀片 | 适用刀片固定螺丝组合 |
|-----------------|-----------|---------------|-----|-----|------|------|------------|
| ST14W-EW15-110L | 14        | 15-18         | 151 | 110 | EN15 | WC02 | S2S-B      |
| ST14W-EW15-140L | 14        | 15-18         | 181 | 140 | EN15 | WC02 | S2S-B      |
| ST16W-EW18-100L | 16        | 18-22         | 144 | 100 | EN15 | WC02 | S2S-B      |
| ST16W-EW18-160L | 16        | 18-22         | 204 | 160 | EN15 | WC02 | S2S-B      |

- ◎硬质合金刀杆与微型镗头是一体的，不能单独销售。
- ◎不附带刀片，请另外订购。



请注意

根据工件材质的不同，加工深度有可能不能达到 [有效加工深度]

## CK 硬质合金直杆刀柄 加工范围 $\phi 20-\phi 60$

利用硬质合金将不可能变成可能

- ◎利用硬质合金刀杆，深孔加工的难题迎刃而解

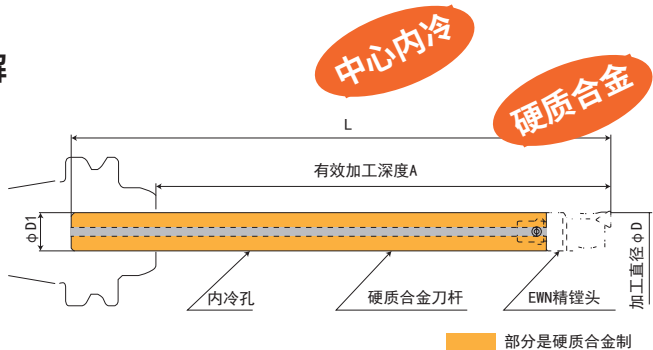


### 型号说明

ST19 W CK1 130L  
直杆刀柄 硬质合金 CK NO. 有效加工深度

| 规格 / 型号 Model  | $\phi D1$ | 加工范围 $\phi D$ | L     | A   | 适用精镗头        |
|----------------|-----------|---------------|-------|-----|--------------|
| ST19W-CK1-130L | 19        | 20-36         | 172.5 | 130 | EWN20-36-CK1 |
| ST19W-CK1-180L | 19        | 20-36         | 222.5 | 180 | EWN20-36-CK1 |
| ST19W-CK1-230L | 19        | 20-36         | 272.5 | 230 | EWN20-36-CK1 |
| ST24W-CK2-150L | 24        | 25-47         | 195.5 | 150 | EWN25-47-CK2 |
| ST24W-CK2-210L | 24        | 25-47         | 255.5 | 210 | EWN25-47-CK2 |
| ST24W-CK2-280L | 24        | 25-47         | 325.5 | 280 | EWN25-47-CK2 |
| ST31W-CK3-160L | 31        | 32-60         | 240   | 160 | EWN32-60-CK3 |
| ST31W-CK3-240L | 31        | 32-60         | 320   | 240 | EWN32-60-CK3 |
| ST31W-CK3-310L | 31        | 32-60         | 390   | 310 | EWN32-60-CK3 |

- ◎不附带 EWN 精镗头

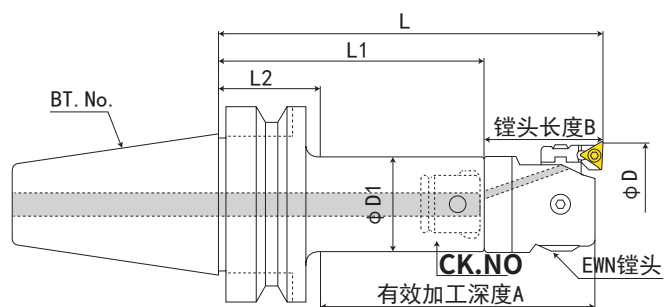
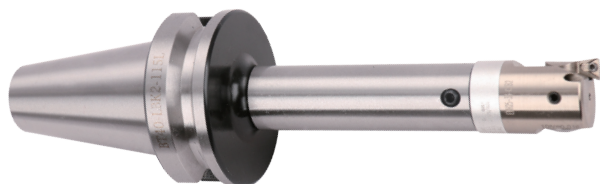


请注意

根据工件材质的不同，加工深度有可能不能达到 [有效加工深度]

# BT30/40-EWN 微调精密镗头

BT30/40-EWN SMALL DIAMETER FINE BORING HEAD



## 型号说明

BT30 EWN20 105L  
 全长 L  
 EWN20-36-CK1 镗头  
 BT 刀柄



P.334

P.370

| 规格 / 型号<br>Model | 组合内容 Tool Connection |                          | 连接接口<br>CK.NO | 全长 L  | 刀柄长<br>L1 | L2 | 镗头<br>长度 B | 刀柄外径<br>ΦD1 | 镗孔范围<br>Boring<br>RangeΦD | 有效<br>深度 A | 重量<br>KGS |
|------------------|----------------------|--------------------------|---------------|-------|-----------|----|------------|-------------|---------------------------|------------|-----------|
|                  | CK 刀柄<br>CK Shank    | EWN 镗头<br>Boring<br>head |               |       |           |    |            |             |                           |            |           |
| BT30-EWN20-88L   | BT30-CK1-55L         | EWN20-36CK1              | CK1           | 87.5  | 55        | 27 | 32.5       | 19          | 20-36                     | 60.5       | 0.77      |
| BT30-EWN20-103L  | BT30-CK1-70L         | EWN20-36CK1              | CK1           | 102.5 | 70        | 27 | 32.5       | 19          | 20-36                     | 75.5       | 0.8       |
| BT30-EWN25-116L  | BT30-CK2-80L         | EWN25-47CK2              | CK2           | 115.5 | 80        | 27 | 35.5       | 24          | 25-47                     | 88.5       | 0.92      |
| BT30-EWN32-120L  | BT30-CK3-80L         | EWN32-60CK3              | CK3           | 120   | 80        | 27 | 40         | 31          | 32-60                     | 93         | 1.11      |
| BT30-EWN41-117L  | BT30-CK4-70L         | EWN41-74CK4              | CK4           | 117   | 70        | 27 | 47         | 39          | 41-74                     | 90         | 1.4       |
| BT30-EWN53-117L  | BT30-CK5-60L         | EWN53-95CK5              | CK5           | 117   | 60        | 27 | 57         | 50          | 53-95                     | 90         | 2.2       |
| BT30-EWN68-111L  | BT30-CK6-60L         | EWN68-105CK6             | CK6           | 111   | 60        | 27 | 71         | 63          | 68-105                    | 84         | 2.94      |
| BT40-EWN20-108L  | BT40-CK1-75L         | EWN20-36CK1              | CK1           | 107.5 | 75        | 32 | 32.5       | 19          | 20-36                     | 75.5       | 1.07      |
| BT40-EWN20-138L  | BT40-CK1-105L        | EWN20-36CK1              | CK1           | 137.5 | 105       | 32 | 32.5       | 19          | 20-36                     | 105.5      | 1.27      |
| BT40-EWN25-121L  | BT40-CK2-85L         | EWN25-47CK2              | CK2           | 120.5 | 85        | 32 | 35.5       | 24          | 25-47                     | 88.5       | 1.32      |
| BT40-EWN25-151L  | BT40-CK2-115L        | EWN25-47CK2              | CK2           | 150.5 | 115       | 32 | 35.5       | 24          | 25-47                     | 118.5      | 1.42      |
| BT40-EWN32-135L  | BT40-CK3-95L         | EWN32-60CK3              | CK3           | 135   | 95        | 32 | 40         | 31          | 32-60                     | 103        | 1.51      |
| BT40-EWN32-165L  | BT40-CK3-125L        | EWN32-60CK3              | CK3           | 165   | 125       | 32 | 40         | 31          | 32-60                     | 133        | 1.61      |
| BT40-EWN32-195L  | BT40-CK3-155L        | EWN32-60CK3              | CK3           | 195   | 155       | 32 | 40         | 31          | 32-60                     | 163        | 1.71      |
| BT40-EWN32-225L  | BT40-CK3-185L        | EWN32-60CK3              | CK3           | 225   | 185       | 32 | 40         | 31          | 32-60                     | 193        | 1.81      |
| BT40-EWN41-132L  | BT40-CK4-85L         | EWN41-74CK4              | CK4           | 132   | 85        | 32 | 47         | 39          | 41-74                     | 100        | 1.85      |
| BT40-EWN41-177L  | BT40-CK4-130L        | EWN41-74CK4              | CK4           | 177   | 130       | 32 | 47         | 39          | 41-74                     | 145        | 1.9       |
| BT40-EWN41-222L  | BT40-CK4-175L        | EWN41-74CK4              | CK4           | 222   | 175       | 32 | 47         | 39          | 41-74                     | 190        | 2.5       |
| BT40-EWN41-252L  | BT40-CK4-205L        | EWN41-74CK4              | CK4           | 252   | 205       | 32 | 47         | 39          | 41-74                     | 220        | 2.6       |
| BT40-EWN41-297L  | BT40-CK4-250L        | EWN41-74CK4              | CK4           | 297   | 250       | 32 | 47         | 39          | 41-74                     | 265        | 2.7       |
| BT40-EWN53-132L  | BT40-CK5-75L         | EWN53-95CK5              | CK5           | 132   | 75        | 32 | 57         | 50          | 53-95                     | 100        | 2.8       |
| BT40-EWN53-182L  | BT40-CK5-125L        | EWN53-95CK5              | CK5           | 182   | 125       | 32 | 57         | 50          | 53-95                     | 150        | 3.05      |
| BT40-EWN53-232L  | BT40-CK5-175L        | EWN53-95CK5              | CK5           | 232   | 175       | 32 | 57         | 50          | 53-95                     | 200        | 4.1       |
| BT40-EWN53-262L  | BT40-CK5-205L        | EWN53-95CK5              | CK5           | 262   | 205       | 32 | 57         | 50          | 53-95                     | 230        | 4.3       |
| BT40-EWN53-307L  | BT40-CK5-250L        | EWN53-95CK5              | CK5           | 307   | 250       | 32 | 57         | 50          | 53-95                     | 275        | 4.6       |
| BT40-EWN68-136L  | BT40-CK6-65L         | EWN68-105CK6             | CK6           | 136   | 65        | 32 | 71         | 63          | 68-105                    | 104        | 3.89      |
| BT40-EWN68-186L  | BT40-CK6-115L        | EWN68-105CK6             | CK6           | 186   | 115       | 32 | 71         | 63          | 68-105                    | 154        | 5.24      |
| BT40-EWN68-236L  | BT40-CK6-165L        | EWN68-105CK6             | CK6           | 236   | 165       | 32 | 71         | 63          | 68-105                    | 204        | 5.59      |
| BT40-EWN68-276L  | BT40-CK6-205L        | EWN68-105CK6             | CK6           | 276   | 205       | 32 | 71         | 63          | 68-105                    | 244        | 5.84      |

## 备注:

- ◎标准配置为 EWN20-ENH1-1 刀片座、ENH1-2 与 ENH1-3 刀片座需另购
- ◎订购时请说明使用刀片座型号
- ◎各种镗头所配置的刀头与扳手键槽是同相位
- ◎要个别购买的情况下, 请写明规格
- ◎出货时会分开包装 (CK 刀柄 / EWN 镗头)
- ◎刀片座有三种形式可交换使用, 增大加工范围。例如: BT30-EWN20-88L 不同刀片座的加工范围, 请参照右侧表格

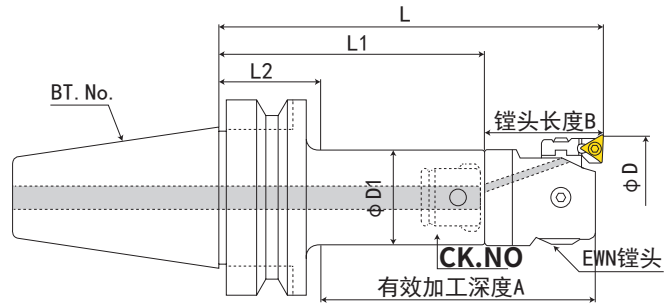
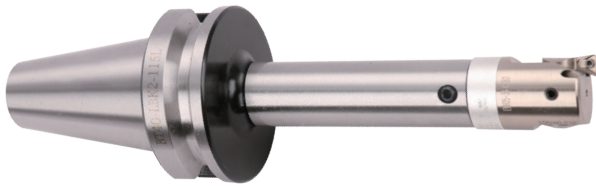
| 标准型刀片座          | 另购型刀片座          |                 |
|-----------------|-----------------|-----------------|
| ENH1-1          | ENH1-2          | ENH1-3          |
| 镗孔范围 Φ20-26<br> | 镗孔范围 Φ25-31<br> | 镗孔范围 Φ30-36<br> |

BORING HEAD  
 镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## BT50-EWN 微调精密镗头

## BT50-EWN SMALL DIAMETER FINE BORING HEAD



### 型号说明

BT50 EWN20 123L  
 全长 L  
 EWN20-36-CK1 镗头  
 BT 刀柄



| 规格 / 型号<br>Model | 组合内容 Tool Connection |                       | 连接接口<br>CK.NO | 全长 L  | 刀柄长<br>L1 | L2 | 镗头<br>长度 B | 刀柄外径<br>φD1 | 镗孔范围<br>Boring<br>RangeφD | 有效<br>深度 A | 重量<br>KGS |
|------------------|----------------------|-----------------------|---------------|-------|-----------|----|------------|-------------|---------------------------|------------|-----------|
|                  | CK 刀柄<br>CK Shank    | EWN 镗头<br>Boring head |               |       |           |    |            |             |                           |            |           |
| BT50-EWN20-123L  | BT50-CK1-90L         | EWN20-36CK1           | CK1           | 122.5 | 90        | 43 | 32.5       | 19          | 20-36                     | 79.5       | 3.77      |
| BT50-EWN20-138L  | BT50-CK1-115L        | EWN20-36CK1           | CK1           | 137.5 | 115       | 43 | 32.5       | 19          | 20-36                     | 94.5       | 3.97      |
| BT50-EWN20-168L  | BT50-CK1-145L        | EWN20-36CK1           | CK1           | 167.5 | 145       | 43 | 32.5       | 19          | 20-36                     | 124.5      | 4.47      |
| BT50-EWN20-198L  | BT50-CK1-175L        | EWN20-36CK1           | CK1           | 197.5 | 175       | 43 | 32.5       | 19          | 20-36                     | 154.5      | 4.57      |
| BT50-EWN25-126L  | BT50-CK2-90L         | EWN25-47CK2           | CK2           | 125.5 | 90        | 43 | 35.5       | 24          | 25-47                     | 82.5       | 3.92      |
| BT50-EWN25-146L  | BT50-CK2-110L        | EWN25-47CK2           | CK2           | 145.5 | 110       | 43 | 35.5       | 24          | 25-47                     | 102.5      | 4.12      |
| BT50-EWN25-176L  | BT50-CK2-140L        | EWN25-47CK2           | CK2           | 175.5 | 140       | 43 | 35.5       | 24          | 25-47                     | 132.5      | 5.12      |
| BT50-EWN25-211L  | BT50-CK2-175L        | EWN25-47CK2           | CK2           | 210.5 | 175       | 43 | 35.5       | 24          | 25-47                     | 167.5      | 5.3       |
| BT50-EWN32-130L  | BT50-CK3-90L         | EWN32-60CK3           | CK3           | 130   | 90        | 43 | 40         | 31          | 32-60                     | 87         | 4.61      |
| BT50-EWN32-165L  | BT50-CK3-125L        | EWN32-60CK3           | CK3           | 165   | 125       | 43 | 40         | 31          | 32-60                     | 122        | 4.81      |
| BT50-EWN32-195L  | BT50-CK3-155L        | EWN32-60CK3           | CK3           | 195   | 155       | 43 | 40         | 31          | 32-60                     | 152        | 5.01      |
| BT50-EWN32-225L  | BT50-CK3-185L        | EWN32-60CK3           | CK3           | 225   | 185       | 43 | 40         | 31          | 32-60                     | 182        | 5.21      |
| BT50-EWN32-255L  | BT50-CK3-215L        | EWN32-60CK3           | CK3           | 255   | 215       | 43 | 40         | 31          | 32-60                     | 212        | 5.41      |
| BT50-EWN41-137L  | BT50-CK4-90L         | EWN41-74CK4           | CK4           | 137   | 90        | 43 | 47         | 39          | 41-74                     | 94         | 5         |
| BT50-EWN41-162L  | BT50-CK4-115L        | EWN41-74CK4           | CK4           | 162   | 115       | 43 | 47         | 39          | 41-74                     | 119        | 5.2       |
| BT50-EWN41-192L  | BT50-CK4-145L        | EWN41-74CK4           | CK4           | 192   | 145       | 43 | 47         | 39          | 41-74                     | 149        | 5.4       |
| BT50-EWN41-222L  | BT50-CK4-175L        | EWN41-74CK4           | CK4           | 222   | 175       | 43 | 47         | 39          | 41-74                     | 179        | 5.6       |
| BT50-EWN41-252L  | BT50-CK4-205L        | EWN41-74CK4           | CK4           | 252   | 205       | 43 | 47         | 39          | 41-74                     | 209        | 5.8       |
| BT50-EWN41-297L  | BT50-CK4-250L        | EWN41-74CK4           | CK4           | 297   | 250       | 43 | 47         | 39          | 41-74                     | 254        | 6         |
| BT50-EWN41-347L  | BT50-CK4-300L        | EWN41-74CK4           | CK4           | 347   | 300       | 43 | 47         | 39          | 41-74                     | 304        | 6.2       |
| BT50-EWN41-397L  | BT50-CK4-350L        | EWN41-74CK4           | CK4           | 397   | 350       | 43 | 47         | 39          | 41-74                     | 354        | 6.4       |
| BT50-EWN53-147L  | BT50-CK5-90L         | EWN53-95CK5           | CK5           | 147   | 90        | 43 | 57         | 50          | 53-95                     | 104        | 6.5       |
| BT50-EWN53-162L  | BT50-CK5-105L        | EWN53-95CK5           | CK5           | 162   | 105       | 43 | 57         | 50          | 53-95                     | 119        | 6.8       |
| BT50-EWN53-207L  | BT50-CK5-150L        | EWN53-95CK5           | CK5           | 207   | 150       | 43 | 57         | 50          | 53-95                     | 164        | 7.1       |
| BT50-EWN53-237L  | BT50-CK5-180L        | EWN53-95CK5           | CK5           | 237   | 180       | 43 | 57         | 50          | 53-95                     | 194        | 7.4       |
| BT50-EWN53-297L  | BT50-CK5-240L        | EWN53-95CK5           | CK5           | 297   | 240       | 43 | 57         | 50          | 53-95                     | 254        | 7.7       |
| BT50-EWN53-327L  | BT50-CK5-270L        | EWN53-95CK5           | CK5           | 327   | 270       | 43 | 57         | 50          | 53-95                     | 284        | 8         |
| BT50-EWN53-357L  | BT50-CK5-300L        | EWN53-95CK5           | CK5           | 357   | 300       | 43 | 57         | 50          | 53-95                     | 314        | 8.3       |
| BT50-EWN53-407L  | BT50-CK5-350L        | EWN53-95CK5           | CK5           | 407   | 350       | 43 | 57         | 50          | 53-95                     | 364        | 8.6       |
| BT50-EWN68-166L  | BT50-CK6-95L         | EWN68-105CK6          | CK6           | 166   | 95        | 43 | 71         | 63          | 68-105                    | 123        | 7.64      |
| BT50-EWN68-221L  | BT50-CK6-150L        | EWN68-105CK6          | CK6           | 221   | 150       | 43 | 71         | 63          | 68-105                    | 178        | 8.24      |
| BT50-EWN68-241L  | BT50-CK6-170L        | EWN68-105CK6          | CK6           | 241   | 170       | 43 | 71         | 63          | 68-105                    | 198        | 8.84      |
| BT50-EWN68-276L  | BT50-CK6-205L        | EWN68-105CK6          | CK6           | 276   | 205       | 43 | 71         | 63          | 68-105                    | 233        | 9.44      |
| BT50-EWN68-301L  | BT50-CK6-230L        | EWN68-105CK6          | CK6           | 301   | 230       | 43 | 71         | 63          | 68-105                    | 258        | 10.04     |
| BT50-EWN68-341L  | BT50-CK6-270L        | EWN68-105CK6          | CK6           | 341   | 270       | 43 | 71         | 63          | 68-105                    | 298        | 10.64     |
| BT50-EWN68-371L  | BT50-CK6-300L        | EWN68-105CK6          | CK6           | 371   | 300       | 43 | 71         | 63          | 68-105                    | 328        | 11.24     |
| BT50-EWN68-421L  | BT50-CK6-350L        | EWN68-105CK6          | CK6           | 421   | 350       | 43 | 71         | 63          | 68-105                    | 378        | 11.84     |
| BT50-EWN68-471L  | BT50-CK6-400L        | EWN68-105CK6          | CK6           | 471   | 400       | 43 | 71         | 63          | 68-105                    | 428        | 12.44     |
| BT50-EWN68-521L  | BT50-CK6-450L        | EWN68-105CK6          | CK6           | 521   | 450       | 43 | 71         | 63          | 68-105                    | 478        | 13.04     |

## SDJ 微调精镗刀系列

## SDJ FINISH BORING HEAD

《镗孔范围  $\phi 20 - \phi 202\text{mm}$ 》

《Boring Range from  $\phi 20 - \phi 202\text{mm}$ 》

### SDJ 精镗头特点介绍 SDJBoring Head Feature

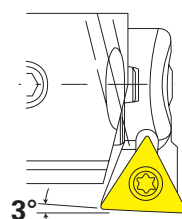
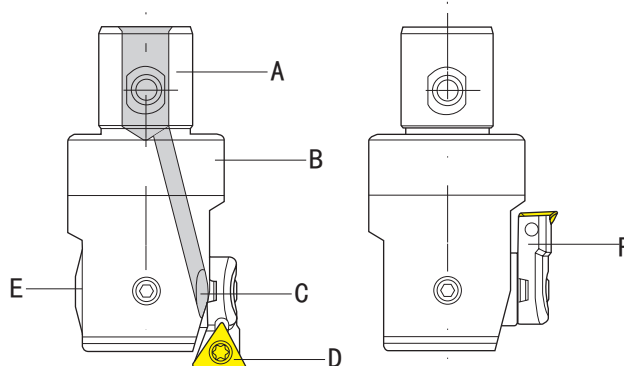
#### 特点:

注:

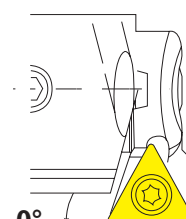
- ◎ A: 搭配 LBK 系列刀柄, 也可与 CK 系列刀柄相容
- ◎ B: 采用特殊表面处理, 加强防锈效果
- ◎ C: 内藏式出水孔, 易于排屑与冷却
- ◎ D: 替换式刀片座设计, 可模块化组合使用
- ◎ E: 微调单位: 每刻度移动量为 0.01mm
- ◎ F: 替换式刀座反装, 可作反镗加工 (参考规格表)

#### Features:

- ◎ A: Suitable for combining with LBK series of tool holders as well as CK series of tool holders.
- ◎ B: With special coating treatment, to strengthen the anti-corrosion effect.
- ◎ C: Built-in coolant nozzle easy for chip removal and work cooling.
- ◎ D: The insert seat has an exchangeable design and can be used after combination.
- ◎ E: Micro-adjustment unit each unit is 0.01mm.
- ◎ F: The insert seat has an exchangeable for anti-loaded, and do back boring processing. (Refer to type)

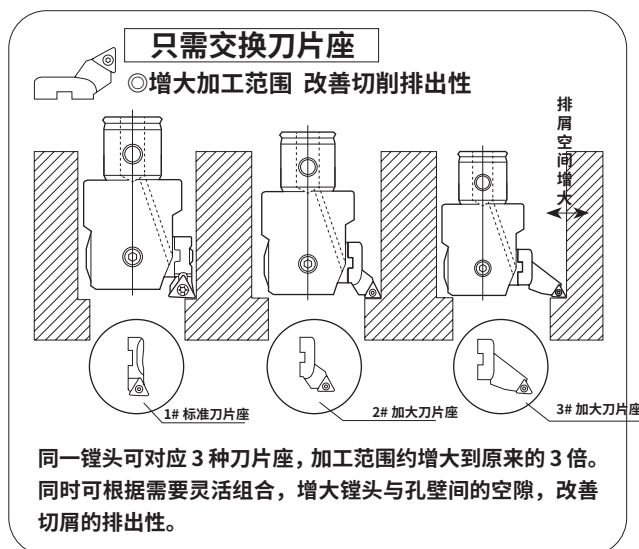


标准刀座: 3度



E型刀座: 0度

#### 特点 1:



#### 特点:

注:

- ◎ ENH 刀片座, 可完全包覆住心轴, 提升稳固性
- ◎ 三种尺寸刀片座, 可加大镗孔范围, 镗孔范围  $\phi 25 - \phi 203$
- ◎ ENH-2# 及 ENH-3# 刀片座, 只能做背镗加工, ENH-1# 刀片座仅 CBA52、CBA68、CBA100 才能做背镗加工
- ◎ 标准刀片座为 3 度切让角, 另有 E 型刀片座为 0 度切让角, 可供客户选择

#### 特点 2:



#### Features:

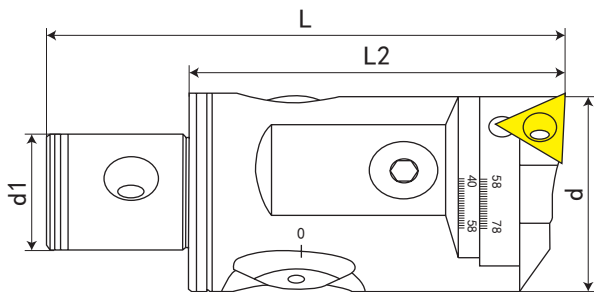
- ◎ ENH insert seat can be completely coated to live spindle and enhance stability.
- ◎ Three type insert seat can increase the range of Boring, boring range  $\phi 25$  to  $\phi 203\text{mm}$ .
- ◎ ENH-2 and ENH-3 insert seat can do back boring processing, ENH-1 insert seat can do back boring processing only CBA52 CBA68 CBA100.
- ◎ ENH insert seat have 3 degree cut so that angle another the ENH-E type 0 degree cut angle for customers to choose.

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## SDJ 微调精镗刀

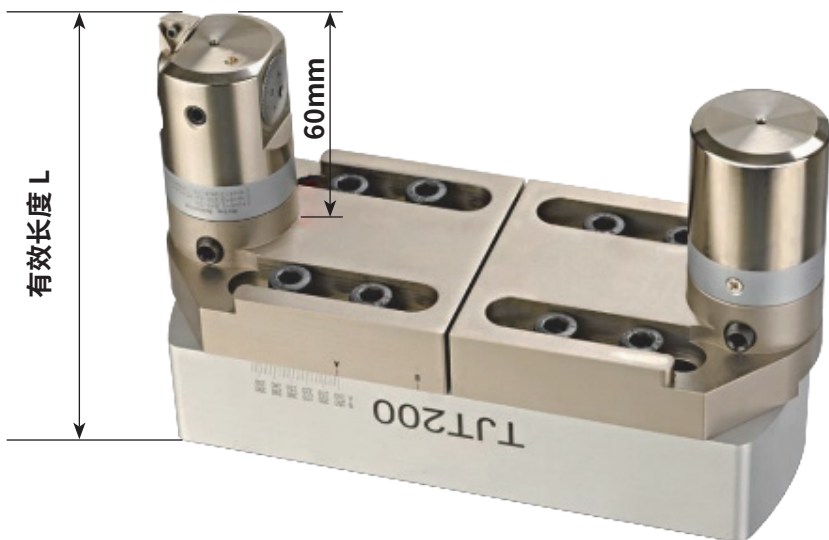
## SDJ FINE TUNING BORING HEAD



| 规格 / 型号<br>Model | 连接接口<br>LBK.NO | 接柄直径 d1 | 镗刀直径 d | 镗刀总长 L | 有效长度 L2 | 镗孔范围 Boring<br>Range $\phi$ D | 适配刀片 Insert            |
|------------------|----------------|---------|--------|--------|---------|-------------------------------|------------------------|
| SDJ20            | LBK1           | 11      | 19     | 51     | 38      | 20-28                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ25            | LBK2           | 14      | 24     | 58     | 42      | 25-47                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ32            | LBK3           | 18      | 31     | 68     | 48      | 32-66                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ40            | LBK4           | 22      | 39     | 81     | 57      | 40-78                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ52            | LBK5           | 28      | 50     | 99     | 69      | 52-108                        | 专用 TPGE09<br>通用 TPGH09 |
| SDJ68            | LBK6           | 36      | 63     | 123    | 83      | 68-114                        | 专用 TPGE09<br>通用 TPGH09 |
| SDJ114           | LBK6           | 36      | 63     | 123    | 83      | 114-160                       | 专用 TPGE09<br>通用 TPGH09 |

## TJT200 以上精镗系列

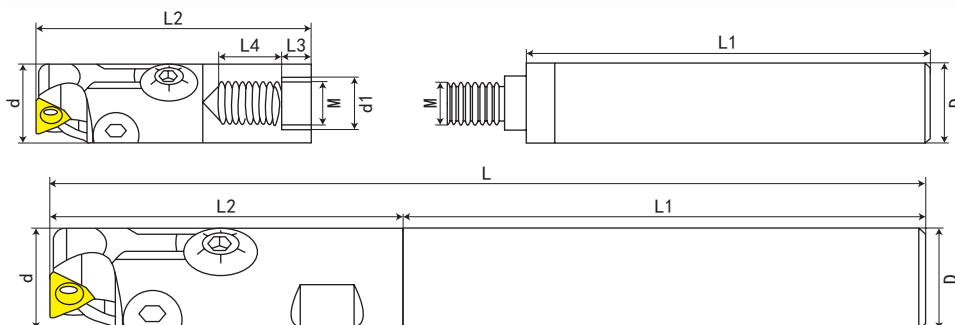
## TJT ABOVE200MM FINE BORING SERIES



| 规格 / 型号<br>Model | 适配刀柄   | 镗孔范围 Boring<br>Range $\phi$ D | 有效长度 L | 镗外圆范围                  | 适配刀片 Insert | 搭配扳手  | 刀把螺丝扳<br>手 | 重量 KGS |
|------------------|--------|-------------------------------|--------|------------------------|-------------|-------|------------|--------|
| TJT200-310       | BST 系列 | $\phi$ 200- $\phi$ 310        | 117    | $\phi$ 86- $\phi$ 216  | TC**1102**L | 3/4/6 | T8         | 3.1    |
| TJT300-410       | BST 系列 | $\phi$ 300- $\phi$ 410        | 117    | $\phi$ 186- $\phi$ 316 | TC**1102**L | 3/4/6 | T8         | 3.9    |
| TJT400-510       | BST 系列 | $\phi$ 400- $\phi$ 510        | 121    | $\phi$ 286- $\phi$ 416 | TC**1102**L | 3/4/6 | T8         | 5      |
| TJT500-610       | BST 系列 | $\phi$ 500- $\phi$ 610        | 122    | $\phi$ 386- $\phi$ 516 | TC**1102**L | 3/4/6 | T8         | 5.86   |

## SDJ 微调精镗刀杆

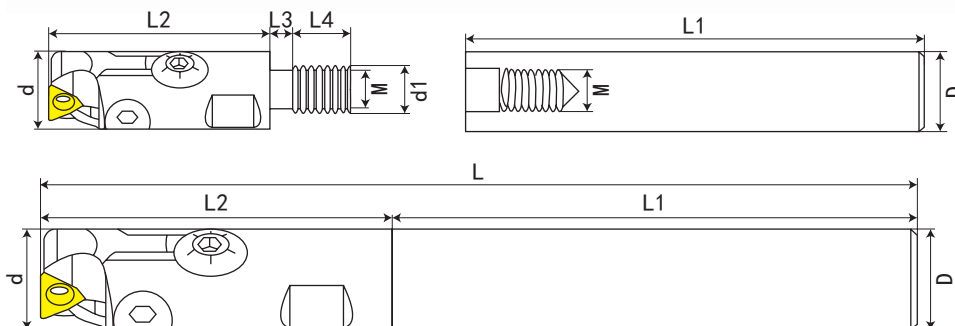
## SDJ FINE BORING SHANK



| 规格 / 型号<br>Model | 接柄直径 D           | 镗刀直径 d     | 镗头总长 L2 | 镗刀总长 L      | 有效长度 L     | 镗孔范围<br>Boring Range $\phi D$ | 适配刀片 Insert            |
|------------------|------------------|------------|---------|-------------|------------|-------------------------------|------------------------|
| SDJ0809-WT       | $\phi 7$ / 整体钨钢杆 | $\phi 7.3$ | -       | 120/98/82   | 80/58/42   | 8-9                           | 通用 TBGT06              |
| SDJ0910-WT       | $\phi 8$ / 整体钨钢杆 | $\phi 8.3$ | -       | 130/110/95  | 90/70/55   | 9-10                          | 通用 TBGT06              |
| SDJ1012-WT       | $\phi 9$ / 整体钨钢杆 | $\phi 9.3$ | -       | 137/120/95  | 100/80/55  | 10-12                         | 通用 TBGT06              |
| SDJ1214-WE/WH    | $\phi 11$ / 钨钢杆  | $\phi 11$  | 40      | 160/134/112 | 120/94/72  | 12-14                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ1417-WE/WH    | $\phi 13$ / 钨钢杆  | $\phi 13$  | 45      | 180/162/124 | 140/123/84 | 14-17                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ1621-WE/WH    | $\phi 15$ / 钨钢杆  | $\phi 15$  | 47      | 192/168/136 | 150/128/96 | 16-21                         | 专用 TPGE09<br>通用 TPGH09 |

## SDJ 微调精镗刀杆

## SDJ FINE BORING SHANK



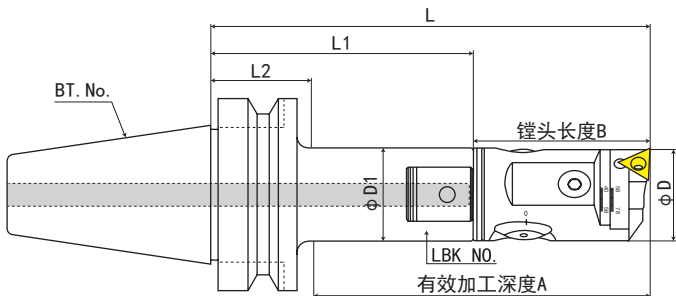
| 规格 / 型号<br>Model | 接柄直径 D           | 镗刀直径 d     | 镗头总长 L2 | 镗刀总长 L      | 有效长度 L     | 镗孔范围<br>Boring Range $\phi D$ | 适配刀片 Insert            |
|------------------|------------------|------------|---------|-------------|------------|-------------------------------|------------------------|
| SDJ0809-WT       | $\phi 7$ / 整体钨钢杆 | $\phi 7.3$ | -       | 120/98/82   | 80/58/42   | 8-9                           | 通用 TBGT06              |
| SDJ0910-WT       | $\phi 8$ / 整体钨钢杆 | $\phi 8.3$ | -       | 130/110/95  | 90/70/55   | 9-10                          | 通用 TBGT06              |
| SDJ1012-WT       | $\phi 9$ / 整体钨钢杆 | $\phi 9.3$ | 29      | 137/120/95  | 100/80/55  | 10-12                         | 通用 TBGT06              |
| SDJ1214-WE/WH    | $\phi 11$ / 钨钢杆  | $\phi 11$  | 35      | 160/134/112 | 120/94/72  | 12-14                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ1417-WE/WH    | $\phi 13$ / 钨钢杆  | $\phi 13$  | 38      | 180/162/124 | 140/123/84 | 14-17                         | 专用 TPGE09<br>通用 TPGH09 |
| SDJ1621-WE/WH    | $\phi 15$ / 钨钢杆  | $\phi 15$  | 38      | 192/168/136 | 150/128/96 | 16-21                         | 专用 TPGE09<br>通用 TPGH09 |

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## BT30/40-SDJ 微调精镗刀杆

## BT30/40-SDJ FINE BORING SHANK



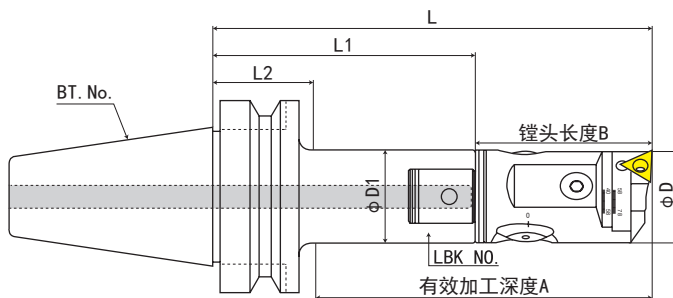
### 型号说明

**BT30** **SDJ20** **93L**  
BT 刀柄 SDJ20 镗头 全长 L

| 规格 / 型号 Model   | 组合内容 Tool Connection |                       | 连接接口<br>LBK.NO | 全长 L | 刀柄长<br>L1 | L2 | 镗头<br>长度 B | 刀柄外径<br>φD1 | 镗孔范围<br>Boring<br>RangeφD | 有效<br>深度 A | 重量<br>KGS |
|-----------------|----------------------|-----------------------|----------------|------|-----------|----|------------|-------------|---------------------------|------------|-----------|
|                 | LBK 刀柄<br>LBK Shank  | SDL 镗头<br>Boring head |                |      |           |    |            |             |                           |            |           |
| BT30-SDJ20-93L  | BT30-LBK1-55L        | SDJ20                 | LBK1           | 93   | 55        | 27 | 38         | 19          | 20-28                     | 70         |           |
| BT30-SDJ20-108L | BT30-LBK1-70L        | SDJ20                 | LBK1           | 108  | 70        | 27 | 38         | 19          | 20-28                     | 85         |           |
| BT30-SDJ25-122L | BT30-LBK2-80L        | SDJ25                 | LBK2           | 122  | 80        | 27 | 42         | 24          | 25-47                     | 99         |           |
| BT30-SDJ32-122L | BT30-LBK3-80L        | SDJ32                 | LBK3           | 122  | 80        | 27 | 48         | 31          | 32-66                     | 105        |           |
| BT30-SDJ40-127L | BT30-LBK4-70L        | SDJ40                 | LBK4           | 127  | 70        | 27 | 57         | 39          | 40-78                     | 104        |           |
| BT30-SDJ52-129L | BT30-LBK5-60L        | SDJ52                 | LBK5           | 129  | 60        | 27 | 69         | 50          | 52-108                    | 106        |           |
| BT30-SDJ68-143L | BT30-LBK6-60L        | SDJ68                 | LBK6           | 143  | 60        | 27 | 83         | 63          | 68-114                    | 120        |           |
| BT40-SDJ20-110L | BT40-LBK1-75L        | SDJ20                 | LBK1           | 110  | 75        | 32 | 38         | 19          | 20-28                     | 85         |           |
| BT40-SDJ20-140L | BT40-LBK1-105L       | SDJ20                 | LBK1           | 140  | 105       | 32 | 38         | 19          | 20-28                     | 115        |           |
| BT40-SDJ25-127L | BT40-LBK2-85L        | SDJ25                 | LBK2           | 127  | 85        | 32 | 42         | 24          | 25-47                     | 99         |           |
| BT40-SDJ25-157L | BT40-LBK2-115L       | SDJ25                 | LBK2           | 157  | 115       | 32 | 42         | 24          | 25-47                     | 129        |           |
| BT40-SDJ32-143L | BT40-LBK3-95L        | SDJ32                 | LBK3           | 143  | 95        | 32 | 48         | 31          | 32-66                     | 115        |           |
| BT40-SDJ32-173L | BT40-LBK3-125L       | SDJ32                 | LBK3           | 173  | 125       | 32 | 48         | 31          | 32-66                     | 145        |           |
| BT40-SDJ32-203L | BT40-LBK3-155L       | SDJ32                 | LBK3           | 203  | 155       | 32 | 48         | 31          | 32-66                     | 175        |           |
| BT40-SDJ32-233L | BT40-LBK3-185L       | SDJ32                 | LBK3           | 233  | 185       | 32 | 48         | 31          | 32-66                     | 205        |           |
| BT40-SDJ40-142L | BT40-LBK4-85L        | SDJ40                 | LBK4           | 142  | 85        | 32 | 57         | 39          | 40-78                     | 114        |           |
| BT40-SDJ40-187L | BT40-LBK4-130L       | SDJ40                 | LBK4           | 187  | 130       | 32 | 57         | 39          | 40-78                     | 159        |           |
| BT40-SDJ40-232L | BT40-LBK4-175L       | SDJ40                 | LBK4           | 232  | 175       | 32 | 57         | 39          | 40-78                     | 204        |           |
| BT40-SDJ40-262L | BT40-LBK4-205L       | SDJ40                 | LBK4           | 262  | 205       | 32 | 57         | 39          | 40-78                     | 234        |           |
| BT40-SDJ40-307L | BT40-LBK4-250L       | SDJ40                 | LBK4           | 307  | 250       | 32 | 57         | 39          | 40-78                     | 279        |           |
| BT40-SDJ52-144L | BT40-LBK5-75L        | SDJ52                 | LBK5           | 144  | 75        | 32 | 69         | 50          | 52-108                    | 116        |           |
| BT40-SDJ52-194L | BT40-LBK5-125L       | SDJ52                 | LBK5           | 194  | 125       | 32 | 69         | 50          | 52-108                    | 166        |           |
| BT40-SDJ52-244L | BT40-LBK5-175L       | SDJ52                 | LBK5           | 244  | 175       | 32 | 69         | 50          | 52-108                    | 216        |           |
| BT40-SDJ52-274L | BT40-LBK5-205L       | SDJ52                 | LBK5           | 274  | 205       | 32 | 69         | 50          | 52-108                    | 246        |           |
| BT40-SDJ52-319L | BT40-LBK5-250L       | SDJ52                 | LBK5           | 319  | 250       | 32 | 69         | 50          | 52-108                    | 291        |           |
| BT40-SDJ68-148L | BT40-LBK6-65L        | SDJ68                 | LBK6           | 148  | 65        | 32 | 83         | 63          | 68-114                    | 120        |           |
| BT40-SDJ68-198L | BT40-LBK6-115L       | SDJ68                 | LBK6           | 198  | 115       | 32 | 83         | 63          | 68-114                    | 170        |           |
| BT40-SDJ68-248L | BT40-LBK6-165L       | SDJ68                 | LBK6           | 248  | 165       | 32 | 83         | 63          | 68-114                    | 220        |           |
| BT40-SDJ68-288L | BT40-LBK6-205L       | SDJ68                 | LBK6           | 288  | 205       | 32 | 83         | 63          | 68-114                    | 260        |           |

# BT50-SDJ 微调精镗刀杆

## BT50-SDJ FINE BORING SHANK



### 型号说明

BT30 SDJ20 93L  
 全长 L  
 SDJ20 镗头  
 BT 刀柄

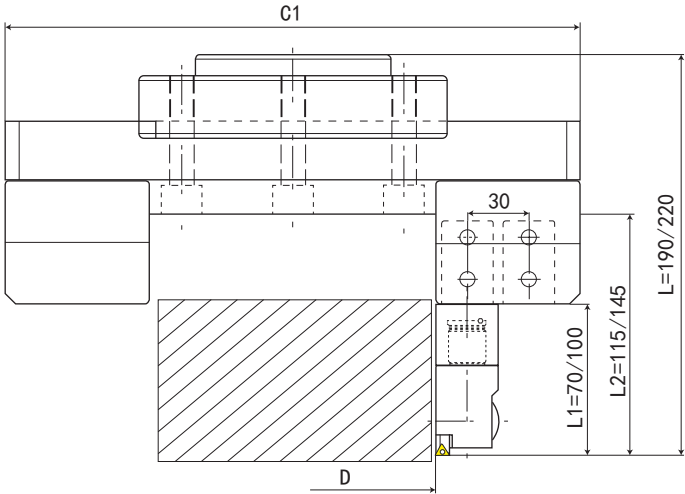
| 规格 / 型号 Model   | 组合内容 Tool Connection |                    | 连接接口 LBK.NO | 全长 L | 刀柄长 L1 | L2 | 镗头长度 B | 刀柄外径 $\phi D1$ | 镗孔范围 Boring Range $\phi D$ | 有效深度 A | 重量 KGS |
|-----------------|----------------------|--------------------|-------------|------|--------|----|--------|----------------|----------------------------|--------|--------|
|                 | LBK 刀柄 LBK Shank     | SDL 镗头 Boring head |             |      |        |    |        |                |                            |        |        |
| BT50-SDJ20-128L | BT50-LBK1-90L        | SDJ20              | LBK1        | 128  | 90     | 43 | 38     | 19             | 20-28                      | 90     |        |
| BT50-SDJ20-153L | BT50-LBK1-115L       | SDJ20              | LBK1        | 153  | 115    | 43 | 38     | 19             | 20-28                      | 115    |        |
| BT50-SDJ20-183L | BT50-LBK1-145L       | SDJ20              | LBK1        | 183  | 145    | 43 | 38     | 19             | 20-28                      | 145    |        |
| BT50-SDJ20-213L | BT50-LBK1-175L       | SDJ20              | LBK1        | 213  | 175    | 43 | 38     | 19             | 20-28                      | 175    |        |
| BT50-SDJ25-132L | BT50-LBK2-90L        | SDJ25              | LBK2        | 132  | 90     | 43 | 42     | 24             | 25-47                      | 94     |        |
| BT50-SDJ25-152L | BT50-LBK2-110L       | SDJ25              | LBK2        | 152  | 110    | 43 | 42     | 24             | 25-47                      | 114    |        |
| BT50-SDJ25-182L | BT50-LBK2-140L       | SDJ25              | LBK2        | 182  | 140    | 43 | 42     | 24             | 25-47                      | 144    |        |
| BT50-SDJ25-217L | BT50-LBK2-175L       | SDJ25              | LBK2        | 217  | 175    | 43 | 42     | 24             | 25-47                      | 179    |        |
| BT50-SDJ32-138L | BT50-LBK3-90L        | SDJ32              | LBK3        | 138  | 90     | 43 | 48     | 31             | 32-66                      | 100    |        |
| BT50-SDJ32-173L | BT50-LBK3-125L       | SDJ32              | LBK3        | 173  | 125    | 43 | 48     | 31             | 32-66                      | 135    |        |
| BT50-SDJ32-203L | BT50-LBK3-155L       | SDJ32              | LBK3        | 203  | 155    | 43 | 48     | 31             | 32-66                      | 165    |        |
| BT50-SDJ32-233L | BT50-LBK3-185L       | SDJ32              | LBK3        | 233  | 185    | 43 | 48     | 31             | 32-66                      | 195    |        |
| BT50-SDJ32-263L | BT50-LBK3-215L       | SDJ32              | LBK3        | 263  | 215    | 43 | 48     | 31             | 32-66                      | 225    |        |
| BT50-SDJ40-147L | BT50-LBK4-90L        | SDJ40              | LBK4        | 147  | 90     | 43 | 57     | 39             | 40-78                      | 109    |        |
| BT50-SDJ40-172L | BT50-LBK4-115L       | SDJ40              | LBK4        | 172  | 115    | 43 | 57     | 39             | 40-78                      | 134    |        |
| BT50-SDJ40-202L | BT50-LBK4-145L       | SDJ40              | LBK4        | 202  | 145    | 43 | 57     | 39             | 40-78                      | 164    |        |
| BT50-SDJ40-232L | BT50-LBK4-175L       | SDJ40              | LBK4        | 232  | 175    | 43 | 57     | 39             | 40-78                      | 194    |        |
| BT50-SDJ40-262L | BT50-LBK4-205L       | SDJ40              | LBK4        | 262  | 205    | 43 | 57     | 39             | 40-78                      | 224    |        |
| BT50-SDJ40-307L | BT50-LBK4-250L       | SDJ40              | LBK4        | 307  | 250    | 43 | 57     | 39             | 40-78                      | 269    |        |
| BT50-SDJ40-357L | BT50-LBK4-300L       | SDJ40              | LBK4        | 357  | 300    | 43 | 57     | 39             | 40-78                      | 319    |        |
| BT50-SDJ40-407L | BT50-LBK4-350L       | SDJ40              | LBK4        | 407  | 350    | 43 | 57     | 39             | 40-78                      | 369    |        |
| BT50-SDJ52-159L | BT50-LBK5-90L        | SDJ52              | LBK5        | 159  | 90     | 43 | 69     | 50             | 52-108                     | 121    |        |
| BT50-SDJ52-174L | BT50-LBK5-105L       | SDJ52              | LBK5        | 174  | 105    | 43 | 69     | 50             | 52-108                     | 136    |        |
| BT50-SDJ52-219L | BT50-LBK5-150L       | SDJ52              | LBK5        | 219  | 150    | 43 | 69     | 50             | 52-108                     | 181    |        |
| BT50-SDJ52-249L | BT50-LBK5-180L       | SDJ52              | LBK5        | 249  | 180    | 43 | 69     | 50             | 52-108                     | 211    |        |
| BT50-SDJ52-309L | BT50-LBK5-240L       | SDJ52              | LBK5        | 309  | 240    | 43 | 69     | 50             | 52-108                     | 271    |        |
| BT50-SDJ52-339L | BT50-LBK5-270L       | SDJ52              | LBK5        | 339  | 270    | 43 | 69     | 50             | 52-108                     | 301    |        |
| BT50-SDJ52-369L | BT50-LBK5-300L       | SDJ52              | LBK5        | 369  | 300    | 43 | 69     | 50             | 52-108                     | 331    |        |
| BT50-SDJ52-419L | BT50-LBK5-350L       | SDJ52              | LBK5        | 419  | 350    | 43 | 69     | 50             | 52-108                     | 381    |        |
| BT50-SDJ68-178L | BT50-LBK6-95L        | SDJ68              | LBK6        | 178  | 95     | 43 | 83     | 63             | 68-114                     | 140    |        |
| BT50-SDJ68-233L | BT50-LBK6-150L       | SDJ68              | LBK6        | 233  | 150    | 43 | 83     | 63             | 68-114                     | 195    |        |
| BT50-SDJ68-253L | BT50-LBK6-170L       | SDJ68              | LBK6        | 253  | 170    | 43 | 83     | 63             | 68-114                     | 215    |        |
| BT50-SDJ68-288L | BT50-LBK6-205L       | SDJ68              | LBK6        | 288  | 205    | 43 | 83     | 63             | 68-114                     | 250    |        |
| BT50-SDJ68-313L | BT50-LBK6-230L       | SDJ68              | LBK6        | 313  | 230    | 43 | 83     | 63             | 68-114                     | 275    |        |
| BT50-SDJ68-353L | BT50-LBK6-270L       | SDJ68              | LBK6        | 353  | 270    | 43 | 83     | 63             | 68-114                     | 315    |        |
| BT50-SDJ68-383L | BT50-LBK6-300L       | SDJ68              | LBK6        | 383  | 300    | 43 | 83     | 63             | 68-114                     | 345    |        |
| BT50-SDJ68-423L | BT50-LBK6-350L       | SDJ68              | LBK6        | 433  | 350    | 43 | 83     | 63             | 68-114                     | 395    |        |
| BT50-SDJ68-483L | BT50-LBK6-400L       | SDJ68              | LBK6        | 483  | 400    | 43 | 83     | 63             | 68-114                     | 445    |        |
| BT50-SDJ68-533L | BT50-LBK6-450L       | SDJ68              | LBK6        | 533  | 450    | 43 | 83     | 63             | 68-114                     | 495    |        |

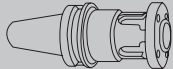
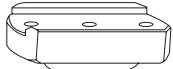


# 镗孔刀具系列 BORING HEAD

φ200 以上 CBR 组合式外圆微调精镗刀系列 《外圆镗孔范围 φ 10- φ 850mm》

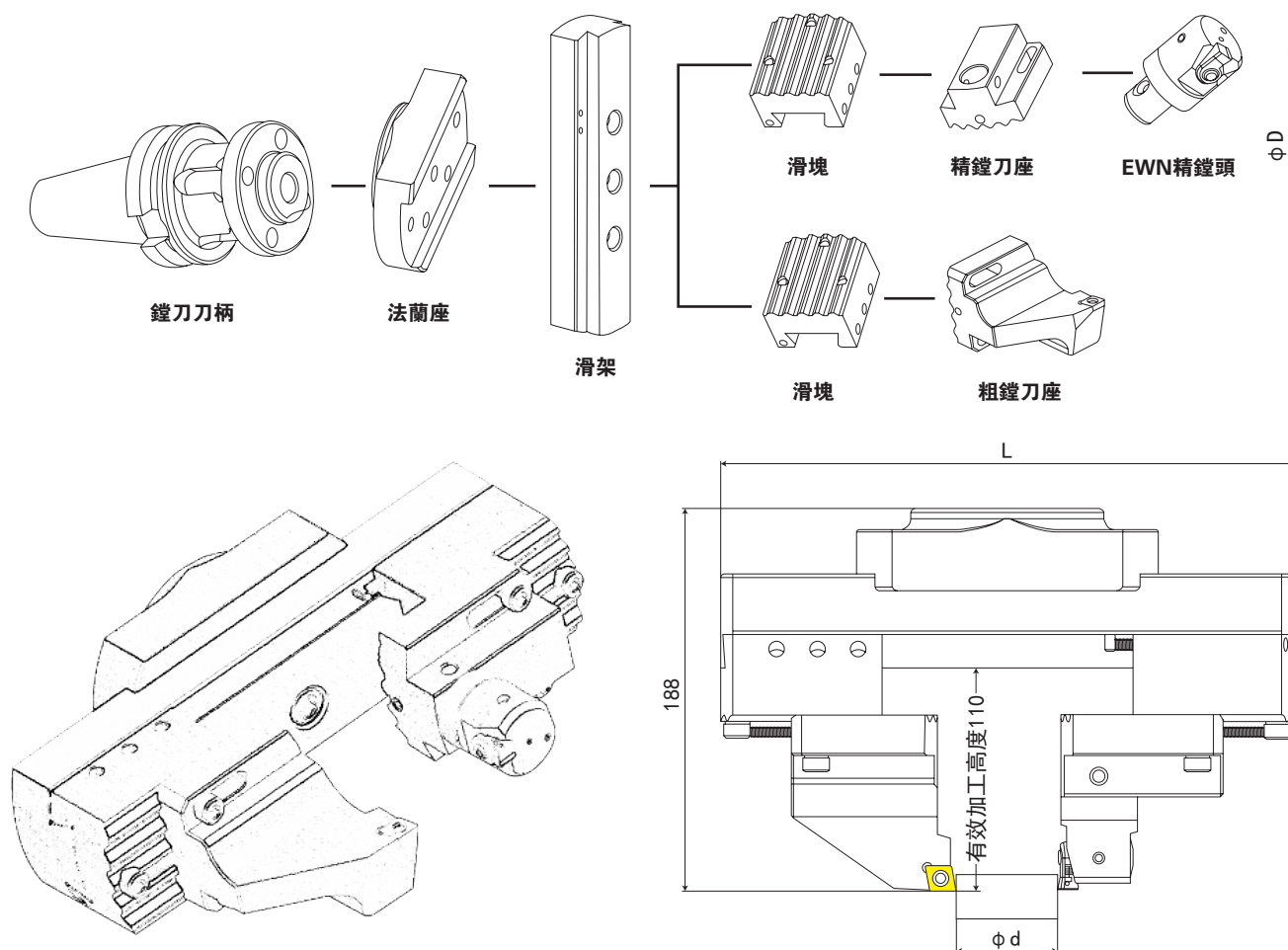
CBR MODULAR EXTERNAL FINISH BORING HEAD 《Boring Range from φ 10- φ 850mm》



| 镗头型号<br>Boring Head Type       | 型号 Tape                             |                                   | CBR200                                                                              | CBR300      | CBR400        | CBR500 | CBR600      | CBR900          |                        |                        |
|--------------------------------|-------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|-------------|---------------|--------|-------------|-----------------|------------------------|------------------------|
|                                | 镗头长度 L2(mm)                         |                                   | 190/220                                                                             |             |               |        |             |                 |                        |                        |
|                                | 有效长 Z(mm)                           |                                   | 115/145                                                                             |             |               |        |             |                 |                        |                        |
|                                | 整 组 重 量<br>(kg)<br>Total Weight(kg) | 合金钢<br>Alloy Steel                | 9.5                                                                                 | 11.5        | 13.5          | 15.5   | 33          | 47              |                        |                        |
|                                |                                     | 铝合金<br>Aluminum Alloy             | 7                                                                                   | 8           | 8.8           | 9.6    | 16          | 22.3            |                        |                        |
| 加工直径 φD(mm)<br>Boring Diameter |                                     |                                   | 10-150                                                                              | 10-250      | 10-350        | 10-450 | 10-550      | 10-850          |                        |                        |
| 组合形式<br>Module                 | 接合刀杆<br>Taper Shank                 |                                   |  |             | BT50-BST-100L |        |             | BT50-FMA-47.625 |                        |                        |
|                                | 连接盘 Flange                          |                                   |  |             | BR200         |        |             | BR600           | BR900                  |                        |
|                                | 重量 (KG)<br>Weight                   | 合金钢<br>Alloy Steel                | 合金钢 Alloy Steel 2.7kg                                                               |             |               |        | 19          | 29              |                        |                        |
|                                |                                     | 铝 合 金<br>A l u m i n u m<br>Alloy |                                                                                     |             |               |        | 8.8         | 13.5            |                        |                        |
|                                | 横向滑板 Extension Slide                |                                   |  |             | RST200        | RST300 | RST400      | RST500          | RST300*2 只<br>(pieces) | RST400*2 只<br>(pieces) |
|                                | 重量 (KG)<br>Weight                   | 合金钢<br>Alloy Steel                | 3.4                                                                                 | 5.4         | 7.4           | 9.4    | 10.8        | 14.8            |                        |                        |
|                                |                                     | 合金钢<br>Alloy Steel                | 1.1                                                                                 | 1.9         | 2.7           | 3.5    | 3.8         | 5.4             |                        |                        |
|                                | 平衡滑块<br>Balance Weight              |                                   |  |             | RBN200        |        |             |                 |                        |                        |
|                                | 重量 (KG)<br>Weight                   |                                   | 1.6kg                                                                               |             |               |        |             |                 |                        |                        |
|                                | 外圆滑块<br>Clamp BASE                  |                                   |  |             | HBR200        |        |             |                 |                        |                        |
|                                | 重量 (KG)<br>Weight                   |                                   | 1.3kg                                                                               |             |               |        |             |                 |                        |                        |
|                                | 外圆用接杆<br>Adapter External Boring    |                                   |                                                                                     | C25-LBK3-30 |               |        | C25-LBK3-60 |                 |                        |                        |
|                                | 重量 (KG)<br>Weight                   |                                   |                                                                                     | 0.3         |               |        | 0.5         |                 |                        |                        |
|                                | 接合刀头<br>Applicable Boring Heads     |                                   |                                                                                     | CBH32       |               |        |             |                 |                        |                        |

## 粗精复合内孔外圆一体式镗刀

COMPOUNDED BORING TOOL FOR BOTH ROUGH AND FINE BORING, EXTERNAL AND INTERNAL DIAMETER MACHINING



| 加工直径 $\phi d$<br>Processing diameter | 法兰座<br>Flange seat | 滑架 Slide block |     | 滑块<br>Slider | 精镗刀座<br>Fine boring holder | 粗镗刀座<br>Rough boring holder | ENW 精镗头<br>ENW fine boring head |
|--------------------------------------|--------------------|----------------|-----|--------------|----------------------------|-----------------------------|---------------------------------|
|                                      |                    | 型号 (质量)        | L   |              |                            |                             |                                 |
| 50-150                               | (2.75kg)           | RST300(5.6kg)  | 300 | 1.3kg        | 1.1kg                      | 1.6kg                       | ENW41-74LBK4(0.4kg)             |
| 150-250                              | (2.75kg)           | RST400(7.7kg)  | 400 | 1.3kg        | 1.1kg                      | 1.6kg                       | 刀片座 ENH4-1                      |
| 250-350                              | (2.75kg)           | RST500(9.8kg)  | 500 | 1.3kg        | 1.1kg                      | 1.6kg                       | 对应刀片 TC11 TP11                  |

### 特点:

注:

- ◎ 适合内孔外圆粗精一体加工
- ◎ 一个镗刀即可加工内孔也可加工外圆
- ◎ 更经济实惠, 效率更高

### Features:

- ◎ Compounded boring tool for both rough and fine boring, external and inter machining
- ◎ Suitable for internal and external diameter machining
- ◎ One boring tool can machining external and internal diameter more economic and high efficiency.



BORING HEAD  
镗孔刀具系列

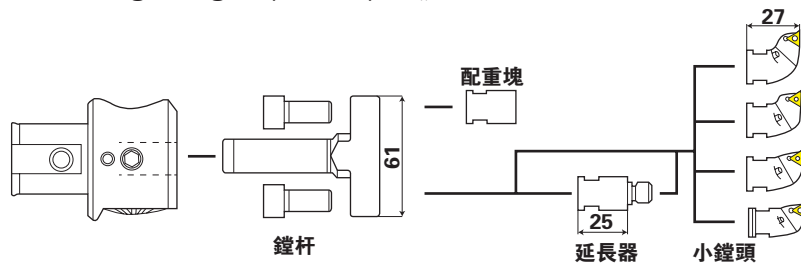
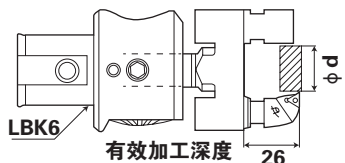
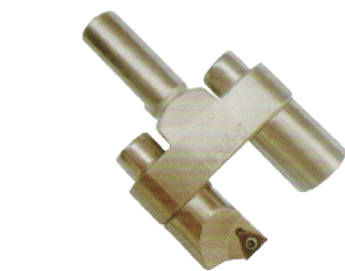
# 镗孔刀具系列 BORING HEAD

## 外径镗系列 - S 型

## OUTSIDE DIAMETER BORING SERIES-S TYPE

《加工范围  $\phi 0.5 - \phi 27$ 》

《Processing range:  $\phi 0.5 - \phi 27$ 》



| 加工直径 $\phi d$<br>Processing diameter | EW 镗头<br>EW boring head | 镗杆<br>Boring bar | 配重块<br>C l u m p weight | 延长器<br>Extender  | 小镗头<br>Small boring head | 对应刀片<br>Blade |
|--------------------------------------|-------------------------|------------------|-------------------------|------------------|--------------------------|---------------|
| 0.5-9                                |                         |                  |                         |                  | BE36A                    | TPGH0802      |
| 9-17                                 | WBH2-50LBK6             | ST16-SL27-55     | BW-M10(0.02kg)          | M1010-25(0.02kg) | BE28A                    |               |
| 17-23                                | (1.05kg)                | (0.20kg)         |                         |                  | BE22A                    |               |
| 23-27                                |                         |                  |                         |                  | BE18A                    |               |

### 特点:

注:

- 最大、最小加工直径是在使用刀尖半径 R0.2 的刀片时的值。
- 不附带刀片，请另外订购
- 加工时，主轴应反转
- 请注意偏心变化时干涉范围也会发生变化
- 用于加工中心、镗铣床上的外径加工
- 和原来的轮廓加工方法相比，提高了圆度、表面粗糙度、尺寸精度以及加工效率。

### Features:

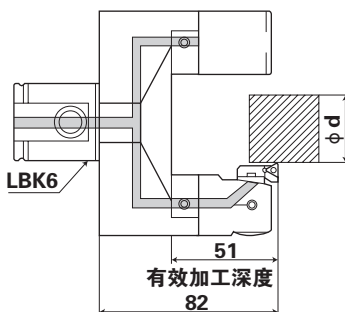
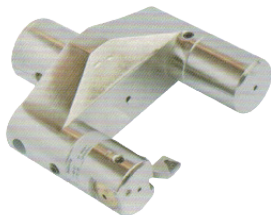
- The maximum,minimum diameter of processing is the use of tool nose radius R0.2 insert value.
- Without blade,please order.
- The processing,the spindle should be reversed.
- Please note the eccentric changes when the interference range will also change.
- For outside diameter machining center,milling and boring machine.
- Compared with the original method to improve the contour machining,roundness,surface roughness,dimensional accuracy and machining efficiency.

## 外径镗系列 - M 型

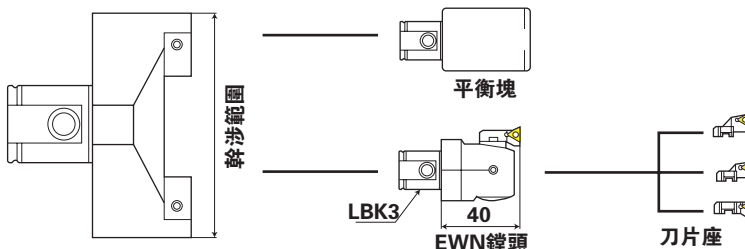
## OUTSIDE DIAMETER BORING SERIES-M TYPE

《加工范围  $\phi 25 - \phi 102$ 》

《Processing range:  $\phi 25 - 102$ 》



EWN 镗头反向装可以进行镗孔加工  
加工范围:  $\phi d117 - \phi d194$   
请注意镗孔加工时主轴正反



| 加工直径 $\phi d$<br>Processing diameter | 基础架<br>foundation frame | ENW 镗头<br>ENW boring head | 平衡块<br>Equalizers      | 刀片座<br>Blade bearing | 对应刀片<br>Blade |
|--------------------------------------|-------------------------|---------------------------|------------------------|----------------------|---------------|
| 21-34                                | LBK6-SL2552-42          | ENW32-60LBK3<br>(0.21kg)  | BW-LBK3-WBH<br>(0.2kg) | ENH3-3               | TPGH0802      |
| 34-43                                | (1.4kg)                 |                           |                        | ENH3-2               | TPGH0802      |
| 43-52                                | 干涉范围 $\phi 117$         |                           |                        | ENH3-1               | TPGH0802      |
| 50-59                                | LBK6-SL5077-42          |                           |                        | ENH3-3               | TPGH0802      |
| 59-68                                | (1.61kg)                |                           |                        | ENH3-2               | TPGH0802      |
| 68-77                                | 干涉范围 $\phi 142$         |                           |                        | ENH3-1               | TPGH0802      |
| 75-84                                | LBK6-SL75102-42         |                           |                        | ENH3-3               | TPGH0802      |
| 84-93                                | (1.61kg)                |                           |                        | ENH3-2               | TPGH0802      |
| 93-102                               | 干涉范围 $\phi 167$         |                           |                        | ENH3-1               | TPGH0802      |

### 特点:

注:

- 最大、最小加工直径是在使用刀尖半径 R0.2 的刀片时的值
- 不包括镗头、平衡块、刀片座及刀片
- 主轴反转
- 用于加工中心、镗铣床上的外径加工
- 和原来的轮廓加工方法相比，提高了圆度、表面粗糙度、尺寸精度以及加工效率

### Features:

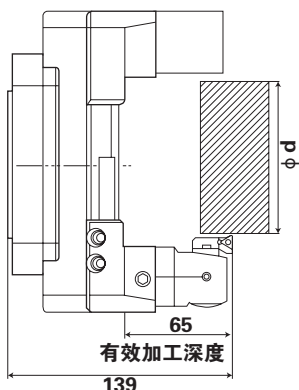
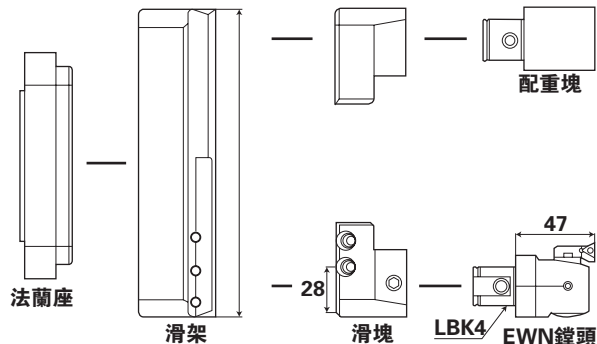
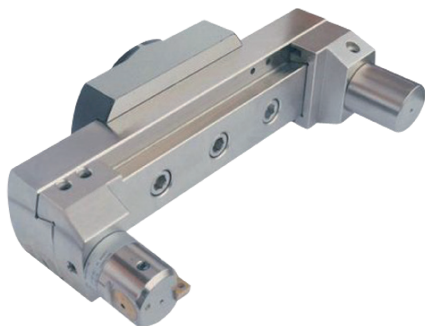
- The maximum,minimum diameter of processing is the use of tool nose radius R 0.2 insert value.
- Not including the gun head,a balance block,the blade base and the blade.
- Spindle turn.
- For outside diameter machining center,milling and boring machine.
- Compared with the original method to improve the contour machining,roundness,surface roughness,dimensional accuracy and machining efficiency.

## 外径镗系列 - L 型

## OUTSIDE DIAMETER BORING SERIES-L TYPE

《加工范围  $\phi 21-\phi 622$ 》

《Processing range:  $\phi 21-\phi 622$ 》



| 加工直径 φd<br>Processing diameter | 法兰座<br>Flange seat            | 滑架 Slide block    |     | 滑块<br>Slider                 | ENW 精镗头<br>ENW fine boring head  | 配重块<br>Clump weight    |
|--------------------------------|-------------------------------|-------------------|-----|------------------------------|----------------------------------|------------------------|
|                                |                               | 型号 (质量)           | L   |                              |                                  |                        |
| 21-54                          | FI135<br>FL135/90<br>(2.75kg) | SL150-200(2.5kg)  | 135 | CB56-<br>LBK4-19<br>(0.56kg) | ENW41-74-LBK4<br>(0.4kg)         | BW-LBK4-WBH<br>(0.4kg) |
| 21-102                         |                               | SL200-270(3.5kg)  | 183 |                              |                                  |                        |
| 91-172                         |                               | SL270-340(4.9kg)  | 253 |                              |                                  |                        |
| 161-242                        |                               | SL340-410(6.3kg)  | 323 |                              |                                  |                        |
| 231-312                        |                               | SL410-480(7.7kg)  | 393 |                              |                                  |                        |
| 301-382                        |                               | SL480-550(9.1kg)  | 463 |                              |                                  |                        |
| 371-452                        | FL220<br>FL220/90<br>(4.0kg)  | SL550-620(10.6kg) | 533 |                              | 对应刀片<br>TCGT110204<br>TPGH110304 |                        |
| 441-522                        |                               | SL620-690(12.0kg) | 603 |                              |                                  |                        |
| 511-592                        |                               | SL690-760(13.5kg) | 673 |                              |                                  |                        |
| 581-622                        |                               | SL760-830(14.9kg) | 743 |                              |                                  |                        |

### 特点:

注:

- ◎最大、最小加工直径是在使用刀尖半径 R0.4 的刀片时的值。
- ◎ EWN 镗头上附带 1 只刀片座 (ENH4-1), 但不附带刀片, 请另外订购
- ◎加工时, 主轴应反转
- ◎使用 FL135.FL200 时刀尖方向与传动键方向同相位, 使用 FL135/90.FL200/90 时刀尖方向与传动键方向垂直
- ◎用于加工中心、镗铣床上的外径加工
- ◎和原来的轮廓加工方法相比, 提高了圆度、表面粗糙度、尺寸精度以及加工效率。

### Features:

- ◎ The maximum, minimum diameter of processing is the use of tool nose radius R0.4 insert value
- ◎ WBH boring head with 1 blade holder (ENH4-1), but not with the blade, please order.
- ◎ The processing, the spindle should be reversed.
- ◎ The use of FL135.FL200 nose direction and drive health direction and phase, when using the FL135/90.FL200/90 tip direction and perpendicular to the direction of transmission key.
- ◎ For outside diameter machining center, milling and boring machine.
- ◎ Compared with the original method to improve the contour machining, roundness, surface roughness, dimensional accuracy and machining efficiency.



镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## 外径镗系列 - S II 型

OUTSIDE DIAMETER BORING SERIES-S II TYPE

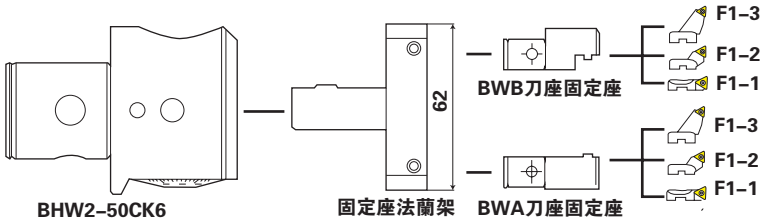
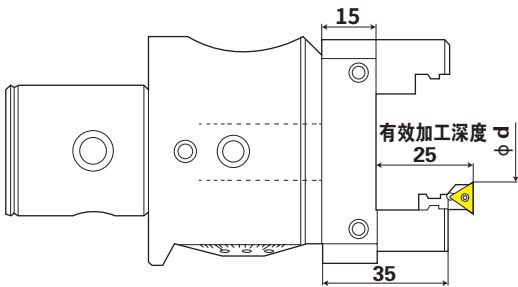
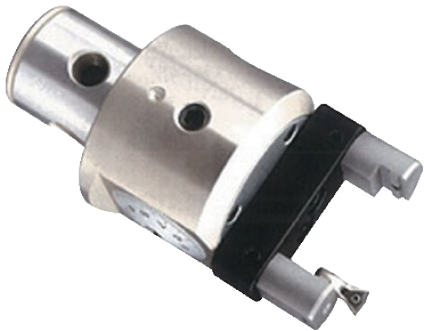
《加工范围  $\phi 2.5-\phi 32$ 》

《Processing range:  $\phi 2.5-\phi 32$ 》

### 特点:

注:

- ◎最小镗外径  $\phi 2.5\text{mm}$  到最大镗外径  $\phi 32\text{mm}$ , 且镗外径可取得最佳真圆度比程序来得更精准
- ◎使用 ENH 刀片座固定座时, BWB 固定座即为平衡块, 相反时 BWA 亦为平衡块



| 组合型号<br>Model     | 加工径<br>$\phi d$ | BHW<br>精镗头       | 固定座<br>法兰架 | 刀片<br>固定座 | 刀片座  | 刀片<br>Insert                                                                                    |
|-------------------|-----------------|------------------|------------|-----------|------|-------------------------------------------------------------------------------------------------|
| BHW2-50-<br>CK6-S | 2.5-12.5        | BHW 2-<br>50-CK6 | BW         | BWA       | F1-3 | <br>TPGH0802 |
|                   | 7.5-17.5        |                  |            | BWA       | F1-2 |                                                                                                 |
|                   | 12.5-22.5       |                  |            | BWA       | F1-1 |                                                                                                 |
|                   | 12.5-22.5       |                  |            | BWB       | F1-3 |                                                                                                 |
|                   | 17.5-27.5       |                  |            | BWB       | F1-2 |                                                                                                 |
|                   | 22.5-32.5       |                  |            | BWB       | F1-1 |                                                                                                 |

◎捨弃式刀片非附属品, 必须另外购买

◎ BWA 和 BWB 共附有刀片座 F1-1、F1-2、F1-3 各 1 个

## EWB 铝合金制精镗头

EWB BIG DIAMETER FINE BORING HEAD

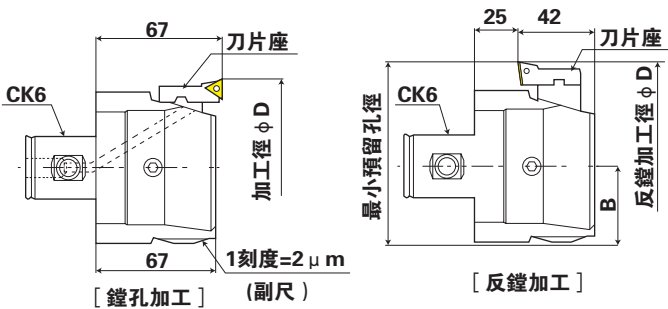
加工范围:  $\phi 100-\phi 203$

中心给水  
重量: 600g/800g  
最大切削速度  
2,000mm/min 心给水

### 特点:

注:

- ◎高张力铝合金再加上硬化镀层制成轻量型精镗头。
- ◎因 ATC 自动换刀有重量限制, 最适合小型切削中心机使用。



### 型号说明

EWB 100-153 CK6 AL  
铝合金材质  
加工范围 CK NO.  
精镗头

最小预留孔径 = B + (反镗加工径 / 2)

| 组合型号 Model        | CK NO. | 镗孔加工         | 反镗加工         |      | 重量 KGS | 刀片座标准附属品 | 刀片         |
|-------------------|--------|--------------|--------------|------|--------|----------|------------|
|                   |        | 加工径 $\phi D$ | 加工径 $\phi D$ | B    |        |          |            |
| EWB100-153-CK6-AL | CK6    | 100-153      | 112-153      | 45.5 | 0.6kg  | ENH6-1   | TCGT110204 |
| EWB150-203-CK6-AL | CK6    | 150-203      | 150-203      | 63.5 | 0.8kg  | ENH6-1   | TCGT110204 |

◎加工径的数据, 是使用 TCGT110204 R0.4 的刀片所生产的

◎捨弃式刀片非附属品, 必须另外购买

◎ EWB 精镗头内含刀片座 ENH4-1  $\times 1$  个

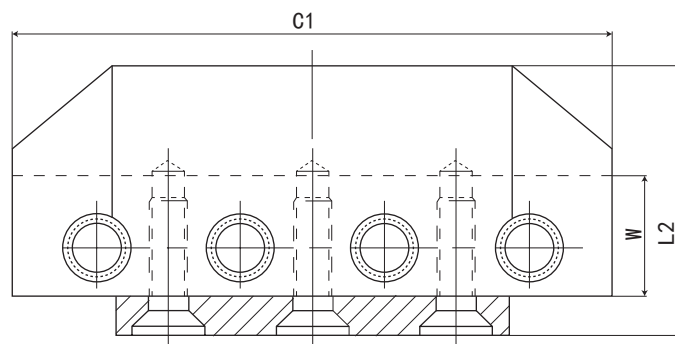


请注意

EWB 精镗头本身容许的最大切削速度是 2,000m/min, 但是因为 CK 柄径之长短与使用机械的刚性等因素考虑, 试加工时请由低速开始, 依实际状况慢慢提升, 找出最合适的加工条件。

## WBST 四方柄径镗孔刀架

WBST TOOL REST



| 规格 / 型号 Model | ΦD 镗孔范围 Boring Range |      | 组合刀柄 BST No. | L2 | C1  | W  | 重量 KGS |
|---------------|----------------------|------|--------------|----|-----|----|--------|
|               | Min.                 | Max. |              |    |     |    |        |
| A-WBST150     | 150                  | 250  | BST          | 55 | 125 | 25 | 2.50   |
| S-WBST150     | 150                  | 250  | BST          | 55 | 125 | 25 | 1.03   |
| A-WBST200     | 200                  | 300  | BST          | 55 | 175 | 25 | 3.60   |
| S-WBST200     | 200                  | 300  | BST          | 55 | 175 | 25 | 1.50   |
| A-WBST300     | 300                  | 400  | BST          | 55 | 275 | 25 | 6.00   |
| S-WBST300     | 300                  | 400  | BST          | 55 | 275 | 25 | 2.34   |
| A-WBST400     | 400                  | 500  | BST          | 55 | 375 | 25 | 8.30   |
| S-WBST400     | 400                  | 500  | BST          | 55 | 375 | 25 | 3.17   |

### 特点:

注:

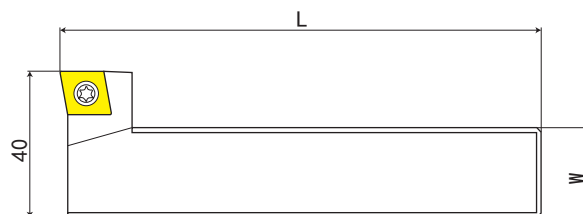
规格 A- 材质为铝合金, 规格 S- 材质为合金钢

### Features:

◎ Type A-made of aluminum alloy,type S-alloy steel.

## WBST 刀盘专用四方柄镗刀

WBST SQUARE SHANK BORING TOOL HOLDER FOR WBST TOOL REST



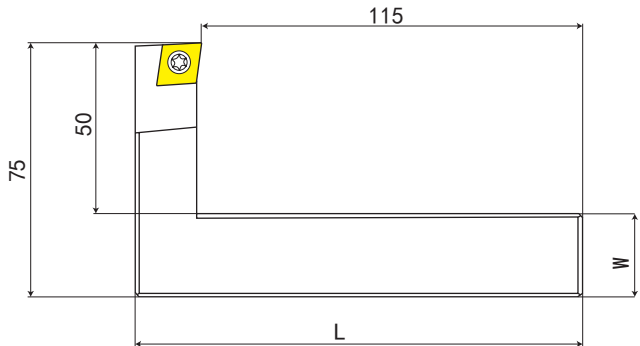
| 规格 / 型号 Model  | W  | L   | 使用刀片 Insert | 螺丝 Screw     | 扳手 Wrench | 扭力值 (N.m) Torque | 重量 KGS |
|----------------|----|-----|-------------|--------------|-----------|------------------|--------|
| BSB25-T16-135L | 25 | 135 | TCMT16..    | M4-10-5.0-43 | T15       | 3.0              | 0.67   |
| BSB25-T22-135L | 25 | 135 | TCMT22..    | M5-11-7.0-55 | T20       | 5.0              | 0.67   |
| BSB25-C12-135L | 25 | 135 | CCMT12..    | M5-11-7.0-55 | T20       | 5.0              | 0.67   |
| BSB25-S12-135L | 25 | 135 | SCMT12..    | M5-11-7.0-55 | T20       | 5.0              | 0.67   |

BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## WBST 刀盘专用四方柄外圆镗刀

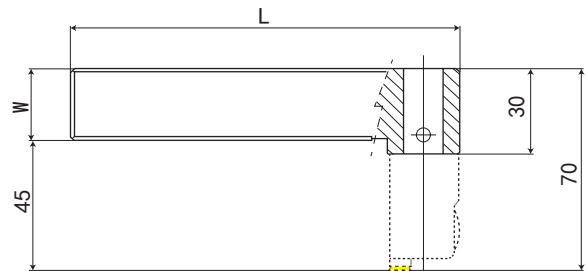
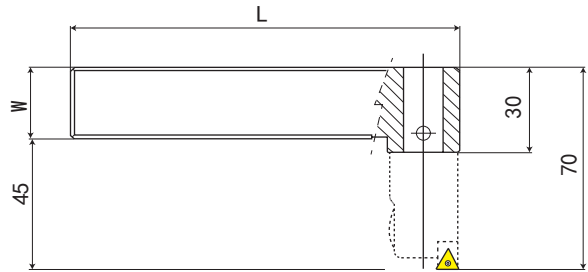
WBST SQUARE SHANK EXTERNAL BORING TOOL HOLDER FOR WBST TOOL REST



| 规格 / 型号 Model     | W  | L   | 有效加工深度 A | 使用刀片 Insert | 螺丝 Screw     | 扳手 Wrench | 扭力值 (N.m) Torque | 重量 KGS |
|-------------------|----|-----|----------|-------------|--------------|-----------|------------------|--------|
| EBSB25-T16-135-50 | 25 | 135 | 40       | TCMT16T304  | M4-10-5.0-43 | T15       | 3.0              | 0.80   |
| EBSB25-C12-135-50 | 25 | 135 | 40       | CCMT120404  | M5-11-7.0-55 | T20       | 5.0              | 0.80   |

## WBST 刀盘专用四方柄内外圆精镗孔刀架

INTERNAL & EXTERNAL SQUARE SHANK FINISH BORING TOOL HOLDER FOR WBST TOOL REST



| 规格 / 型号 Model  | W  | L   | 有效加工深度 A | 镗头 Boring head | 使用刀片 Insert | 螺丝 Screw      | 扳手 Wrench | 扭力值 (N.m) Torque | 重量 KGS |
|----------------|----|-----|----------|----------------|-------------|---------------|-----------|------------------|--------|
| BSB19-CK2-135L | 19 | 135 | 36       | EWN25          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 0.43   |
| BSB19-CK2-180L | 19 | 180 | 36       | EWN25          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 0.63   |
| BSB25-CK2-135L | 25 | 135 | 36       | EWN25          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 0.63   |
| BSB25-CK2-180L | 25 | 180 | 36       | EWN25          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 1      |
| BSB32-CK3-150L | 32 | 150 | 36       | EWN32          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 1.2    |
| BSB32-CK3-200L | 32 | 200 | 36       | EWN32          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 1.4    |
| BSB32-CK3-250L | 32 | 250 | 36       | EWN32          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 1.6    |
| BSB32-CK3-300L | 32 | 300 | 36       | EWN32          | TPGH080204  | M2-5.0-3.1-60 | T6        | 0.6              | 1.8    |

### 特点:

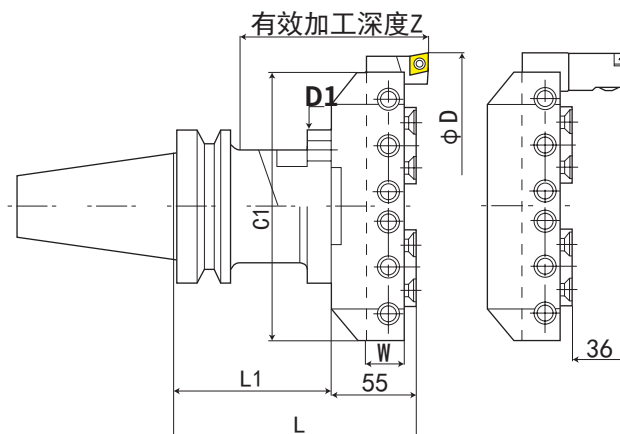
注:  
◎此规格不含镗刀头, 此刀架也可以与 BSB 刀柄配合使用, 方便快捷, 经济实用, **BSB 刀柄**请参阅 P 页

### Features:

◎ Boring head is not included.

## WBST 四方柄大径镗刀 +BST 刀柄

SQUARE SHANK LARGE HOLE BORING HEAD FITTED WITH WBST TOOL REST+BST SHANK



镗孔范围  
φ150-φ510

精度  
φ0.01mm

刀杆  
BST

Boring Range

Diameter Accuracy

BST NO.

## WBST 四方柄镗孔刀架 +BST 刀柄 +BSB25 四方柄镗刀

| 规格 / 型号<br>Model  | φD 镗孔范围<br>Boring Range |      | 有效加工<br>深度 Z | 组合内容 Tool Connection |                           | 组合刀柄<br>BST No. | L   | L1  | D1 | 重量<br>KGS |
|-------------------|-------------------------|------|--------------|----------------------|---------------------------|-----------------|-----|-----|----|-----------|
|                   | Min.                    | Max. |              | BST 刀杆<br>BST Shank  | WBST 刀杆<br>WBST Tool Rest |                 |     |     |    |           |
| BT40-WBST150-125L | 150                     | 260  | 90           | BT40-BST-70L         | WBST150                   | BST             | 150 | 70  | 95 | 5.70      |
| BT40-WBST200-125L | 200                     | 310  | 90           | BT40-BST-70L         | WBST200                   | BST             | 150 | 70  | 95 | 6.80      |
| BT50-WBST150-155L | 150                     | 260  | 110          | BT50-BST-100L        | WBST150                   | BST             | 155 | 100 | 95 | 7.60      |
| BT50-WBST150-205L | 150                     | 260  | 160          | BT50-BST-150L        | WBST150                   | BST             | 205 | 150 | 95 | 9.30      |
| BT50-WBST150-255L | 150                     | 260  | 210          | BT50-BST-200L        | WBST150                   | BST             | 255 | 200 | 95 | 12.1      |
| BT50-WBST150-305L | 150                     | 260  | 260          | BT50-BST-250L        | WBST150                   | BST             | 305 | 250 | 95 | 14        |
| BT50-WBST150-355L | 150                     | 260  | 310          | BT50-BST-300L        | WBST150                   | BST             | 355 | 300 | 95 | 16        |
| BT50-WBST150-405L | 150                     | 260  | 360          | BT50-BST-350L        | WBST150                   | BST             | 405 | 350 | 95 | 18.6      |
| BT50-WBST150-455L | 150                     | 260  | 410          | BT50-BST-400L        | WBST150                   | BST             | 455 | 400 | 95 | 21.8      |
| BT50-WBST200-155L | 200                     | 310  | 110          | BT50-BST-100L        | WBST200                   | BST             | 155 | 100 | 95 | 8.70      |
| BT50-WBST200-205L | 200                     | 310  | 160          | BT50-BST-150L        | WBST200                   | BST             | 205 | 150 | 95 | 10.4      |
| BT50-WBST200-255L | 200                     | 310  | 210          | BT50-BST-200L        | WBST200                   | BST             | 255 | 200 | 95 | 13.2      |
| BT50-WBST200-305L | 200                     | 310  | 260          | BT50-BST-250L        | WBST200                   | BST             | 305 | 250 | 95 | 15.1      |
| BT50-WBST200-355L | 200                     | 310  | 310          | BT50-BST-300L        | WBST200                   | BST             | 355 | 300 | 95 | 17.1      |
| BT50-WBST200-405L | 200                     | 310  | 360          | BT50-BST-350L        | WBST200                   | BST             | 405 | 350 | 95 | 19.7      |
| BT50-WBST200-455L | 200                     | 310  | 410          | BT50-BST-400L        | WBST200                   | BST             | 455 | 400 | 95 | 22.9      |
| BT50-WBST300-155L | 300                     | 410  | 110          | BT50-BST-100L        | WBST300                   | BST             | 155 | 100 | 95 | 11.1      |
| BT50-WBST300-205L | 300                     | 410  | 160          | BT50-BST-150L        | WBST300                   | BST             | 205 | 150 | 95 | 12.8      |
| BT50-WBST300-255L | 300                     | 410  | 210          | BT50-BST-200L        | WBST300                   | BST             | 255 | 200 | 95 | 15.6      |
| BT50-WBST300-305L | 300                     | 410  | 260          | BT50-BST-250L        | WBST300                   | BST             | 305 | 250 | 95 | 17.5      |
| BT50-WBST300-355L | 300                     | 410  | 310          | BT50-BST-300L        | WBST300                   | BST             | 355 | 300 | 95 | 19.5      |
| BT50-WBST300-405L | 300                     | 410  | 360          | BT50-BST-350L        | WBST300                   | BST             | 405 | 350 | 95 | 22.1      |
| BT50-WBST300-455L | 300                     | 410  | 410          | BT50-BST-400L        | WBST300                   | BST             | 455 | 400 | 95 | 25.3      |
| BT50-WBST400-155L | 400                     | 510  | 110          | BT50-BST-100L        | WBST400                   | BST             | 155 | 100 | 95 | 13.4      |
| BT50-WBST400-205L | 400                     | 510  | 160          | BT50-BST-150L        | WBST400                   | BST             | 205 | 150 | 95 | 15.1      |
| BT50-WBST400-255L | 400                     | 510  | 210          | BT50-BST-200L        | WBST400                   | BST             | 255 | 200 | 95 | 17.9      |
| BT50-WBST400-305L | 400                     | 510  | 260          | BT50-BST-250L        | WBST400                   | BST             | 305 | 250 | 95 | 19.8      |
| BT50-WBST400-355L | 400                     | 510  | 310          | BT50-BST-300L        | WBST400                   | BST             | 355 | 300 | 95 | 21.8      |
| BT50-WBST400-405L | 400                     | 510  | 360          | BT50-BST-350L        | WBST400                   | BST             | 405 | 350 | 95 | 24.4      |
| BT50-WBST400-455L | 400                     | 510  | 410          | BT50-BST-400L        | WBST400                   | BST             | 455 | 400 | 95 | 27.6      |

### 特点:

注:

◎此规格不含 BSB25 四方柄镗刀

### Features:

◎ Option of BSB25 Shank Boring Tool Holder.

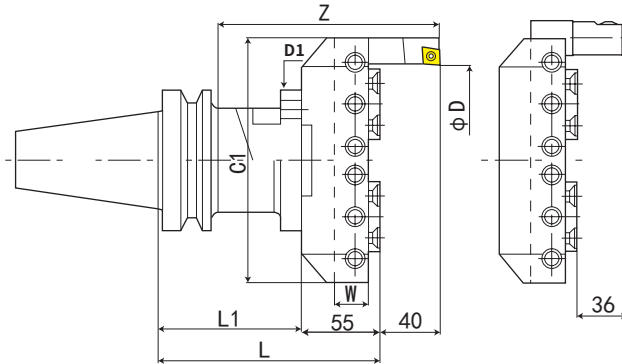


BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## WBST 四方柄大径镗刀 +BST 刀杆外圆加工用

SQUARE SHANK LARGE HOLE BORING HEAD FITTED WITH WBST TOOL REST+BST SHANK FOR EXTERNAL BORING



镗孔范围  
φ80-φ450

精度  
φ0.01mm

刀杆  
BST

Boring Range

Diameter Accuracy

BST NO.

## WBST 四方柄镗孔刀架 +BST 刀柄 +BSB25 四方柄外圆镗刀

| 规格 / 型号 Model    | φD 镗孔范围<br>Boring Range |      | Z   | 加工深度 A | 组合内容 Tool Connection |                           | 组合刀柄<br>BST No. | L   | L1  | D1 | 重量<br>KGS |
|------------------|-------------------------|------|-----|--------|----------------------|---------------------------|-----------------|-----|-----|----|-----------|
|                  | Min.                    | Max. |     |        | BST 刀杆<br>BST Shank  | WBST 刀杆<br>WBST Tool Rest |                 |     |     |    |           |
| BT40-WBST150-125 | 80                      | 200  | 90  | 36     | BT40-BST-70L         | WBST150                   | BST             | 150 | 70  | 95 | 5.70      |
| BT40-WBST200-125 | 130                     | 250  | 90  | 36     | BT40-BST-70L         | WBST200                   | BST             | 150 | 70  | 95 | 6.80      |
| BT50-WBST150-155 | 80                      | 200  | 110 | 36     | BT50-BST-100L        | WBST150                   | BST             | 155 | 100 | 95 | 7.60      |
| BT50-WBST150-205 | 80                      | 200  | 160 | 36     | BT50-BST-150L        | WBST150                   | BST             | 205 | 150 | 95 | 9.30      |
| BT50-WBST150-255 | 80                      | 200  | 210 | 36     | BT50-BST-200L        | WBST150                   | BST             | 255 | 200 | 95 | 12.1      |
| BT50-WBST150-305 | 80                      | 200  | 260 | 36     | BT50-BST-250L        | WBST150                   | BST             | 305 | 250 | 95 | 14        |
| BT50-WBST150-355 | 80                      | 200  | 310 | 36     | BT50-BST-300L        | WBST150                   | BST             | 355 | 300 | 95 | 16        |
| BT50-WBST150-405 | 80                      | 200  | 360 | 36     | BT50-BST-350L        | WBST150                   | BST             | 405 | 350 | 95 | 18.6      |
| BT50-WBST150-455 | 80                      | 200  | 410 | 36     | BT50-BST-400L        | WBST150                   | BST             | 455 | 400 | 95 | 21.8      |
| BT50-WBST200-155 | 130                     | 250  | 110 | 36     | BT50-BST-100L        | WBST200                   | BST             | 155 | 100 | 95 | 8.70      |
| BT50-WBST200-205 | 130                     | 250  | 160 | 36     | BT50-BST-150L        | WBST200                   | BST             | 205 | 150 | 95 | 10.4      |
| BT50-WBST200-255 | 130                     | 250  | 210 | 36     | BT50-BST-200L        | WBST200                   | BST             | 255 | 200 | 95 | 13.2      |
| BT50-WBST200-305 | 130                     | 250  | 260 | 36     | BT50-BST-250L        | WBST200                   | BST             | 305 | 250 | 95 | 15.1      |
| BT50-WBST200-355 | 130                     | 250  | 310 | 36     | BT50-BST-300L        | WBST200                   | BST             | 355 | 300 | 95 | 17.1      |
| BT50-WBST200-405 | 130                     | 250  | 360 | 36     | BT50-BST-350L        | WBST200                   | BST             | 405 | 350 | 95 | 19.7      |
| BT50-WBST200-455 | 130                     | 250  | 410 | 36     | BT50-BST-400L        | WBST200                   | BST             | 455 | 400 | 95 | 22.9      |
| BT50-WBST300-155 | 230                     | 350  | 110 | 36     | BT50-BST-100L        | WBST300                   | BST             | 155 | 100 | 95 | 11.1      |
| BT50-WBST300-205 | 230                     | 350  | 160 | 36     | BT50-BST-150L        | WBST300                   | BST             | 205 | 150 | 95 | 12.8      |
| BT50-WBST300-255 | 230                     | 350  | 210 | 36     | BT50-BST-200L        | WBST300                   | BST             | 255 | 200 | 95 | 15.6      |
| BT50-WBST300-305 | 230                     | 350  | 260 | 36     | BT50-BST-250L        | WBST300                   | BST             | 305 | 250 | 95 | 17.5      |
| BT50-WBST300-355 | 230                     | 350  | 310 | 36     | BT50-BST-300L        | WBST300                   | BST             | 355 | 300 | 95 | 19.5      |
| BT50-WBST300-405 | 230                     | 350  | 360 | 36     | BT50-BST-350L        | WBST300                   | BST             | 405 | 350 | 95 | 22.1      |
| BT50-WBST300-455 | 230                     | 350  | 410 | 36     | BT50-BST-400L        | WBST300                   | BST             | 455 | 400 | 95 | 25.3      |
| BT50-WBST400-155 | 330                     | 450  | 110 | 36     | BT50-BST-100L        | WBST400                   | BST             | 155 | 100 | 95 | 13.4      |
| BT50-WBST400-205 | 330                     | 450  | 160 | 36     | BT50-BST-150L        | WBST400                   | BST             | 205 | 150 | 95 | 15.1      |
| BT50-WBST400-255 | 330                     | 450  | 210 | 36     | BT50-BST-200L        | WBST400                   | BST             | 255 | 200 | 95 | 17.9      |
| BT50-WBST400-305 | 330                     | 450  | 260 | 36     | BT50-BST-250L        | WBST400                   | BST             | 305 | 250 | 95 | 19.8      |
| BT50-WBST400-355 | 330                     | 450  | 310 | 36     | BT50-BST-300L        | WBST400                   | BST             | 355 | 300 | 95 | 21.8      |
| BT50-WBST400-405 | 330                     | 450  | 360 | 36     | BT50-BST-350L        | WBST400                   | BST             | 405 | 350 | 95 | 24.4      |
| BT50-WBST400-455 | 330                     | 450  | 410 | 36     | BT50-BST-400L        | WBST400                   | BST             | 455 | 400 | 95 | 27.6      |

### 特点:

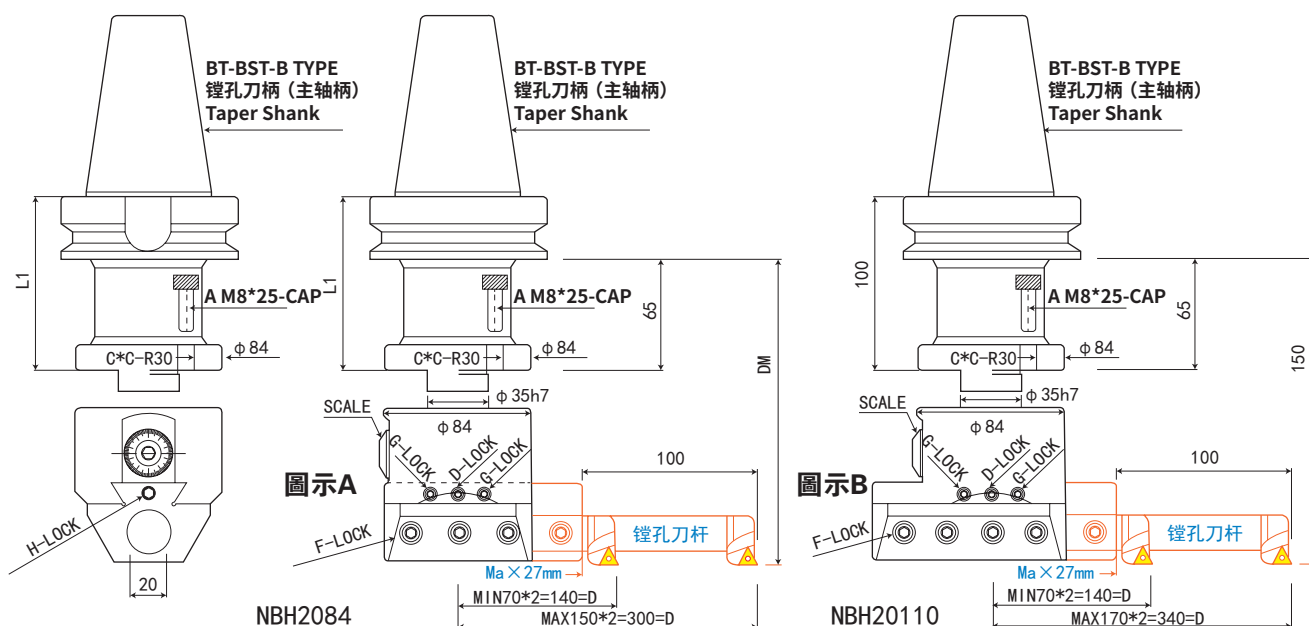
注:

◎此规格不含 BSB25 四方柄镗刀拆掉, 有效深可达到 45, 最小镗孔范围可达到 φ10

### Features:

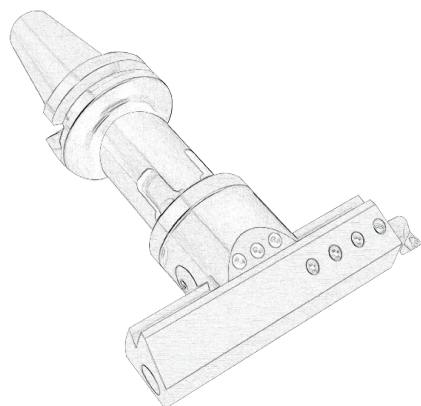
◎ Option of BSB25 Square Shank External Boring Tool holder. Applicable Boring Depth up 45 mm with Minimum Boring Range down to φ10mm after Taking off the Shield

## Fine-tuning Boring Head



NBH2084B (套装)

| 规格 / 型号 Model       | 本体       | 刀柄                 | 范围      | 重量 KGS |
|---------------------|----------|--------------------|---------|--------|
| BT50-NBH2084B-100L  | NBH2084  | BT50-NBH2084B-100L | 140-300 | 8.43   |
| BT50-NBH2084B-150L  | NBH2084  | BT50-NBH2084B-150L | 140-300 | 9.43   |
| BT50-NBH2084B-200L  | NBH2084  | BT50-NBH2084B-200L | 140-300 | 10.43  |
| BT50-NBH2084B-250L  | NBH2084  | BT50-NBH2084B-250L | 140-300 | 11.43  |
| BT50-NBH20110B-100L | NBH20110 | BT50-NBH2084B-100L | 140-340 | 9.43   |
| BT50-NBH20110B-150L | NBH20110 | BT50-NBH2084B-150L | 140-340 | 10.43  |
| BT50-NBH20110B-200L | NBH20110 | BT50-NBH2084B-200L | 140-340 | 11.43  |
| BT50-NBH20110B-250L | NBH20110 | BT50-NBH2084B-250L | 140-340 | 12.43  |
| BT50-NBH20150B-100L | NBH20150 | BT50-NBH2084B-100L | 170-370 | 11.08  |
| BT50-NBH20150B-150L | NBH20150 | BT50-NBH2084B-150L | 170-370 | 12.08  |
| BT50-NBH20150B-200L | NBH20150 | BT50-NBH2084B-200L | 170-370 | 13.08  |
| BT50-NBH20150B-250L | NBH20150 | BT50-NBH2084B-250L | 170-370 | 14.08  |
| BT50-NBH20250B-100L | NBH20250 | BT50-NBH2084B-100L | 270-470 | 12.1   |
| BT50-NBH20250B-150L | NBH20250 | BT50-NBH2084B-150L | 270-470 | 13.1   |
| BT50-NBH20250B-200L | NBH20250 | BT50-NBH2084B-200L | 270-470 | 14.1   |
| BT50-NBH20250B-250L | NBH20250 | BT50-NBH2084B-250L | 270-470 | 15.1   |



**NBH2084-BST-B 本体**

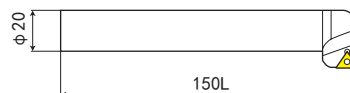
| 规格 / 型号 Model | 范围      | 滑座外径 | 刀径 | 扳手 Wrench | 镗孔刀柄     | 重量 KGS |
|---------------|---------|------|----|-----------|----------|--------|
| NBH2084       | 140-300 | 84   | 20 | 4 6       | NBH2084B | 2.88   |
| NBH20110      | 140-340 | 110  | 20 | 4 6       | NBH2084B | 3.88   |
| NBH20150      | 170-370 | 150  | 20 | 4 6       | NBH2084B | 4.88   |
| NBH20250      | 270-470 | 250  | 20 | 4 6       | NBH2084B | 5.88   |

## NBH2084-BST-B 主轴柄

| 规格 / 型号 Model      | L1  | 镗孔深度 DM | 重量 KGS |
|--------------------|-----|---------|--------|
| BT50-NBH2084B-100L | 100 | 150     | 5.1    |
| BT50-NBH2084B-150L | 150 | 200     | 6.1    |
| BT50-NBH2084B-200L | 200 | 250     | 7.1    |
| BT50-NBH2084B-250L | 250 | 300     | 8.1    |

## NBH 刀杆

| 规格 / 型号 Model | 刀径 | 刀片         | 螺丝 Screw | 扳 手<br>Wrench | 重量 KGS |
|---------------|----|------------|----------|---------------|--------|
| BH20TP        | 20 | TPGH110304 | M3*8.0   | T8            | 0.45   |

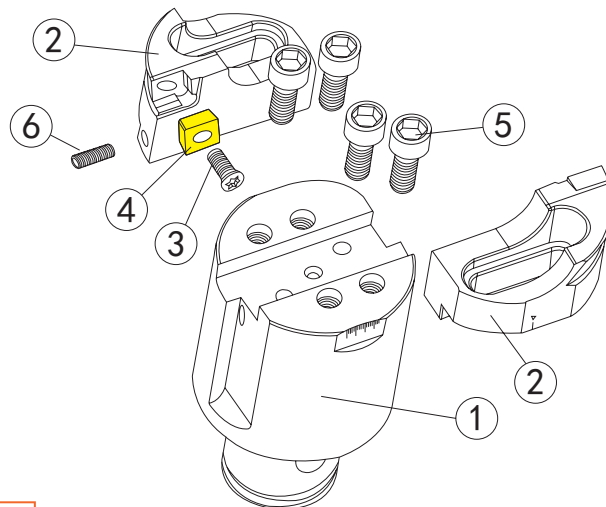


# 镗孔刀具系列 BORING HEAD

## RBA 双刃粗镗刀头及 RBH 段差型粗镗头使用说明

INSTRUCTIONS OF RBH DUAL BLADES MODULAR ROUGH BORING AND RBA INTERRUPTED ROUGH BORING

- ① Boring body  
镗头本体
- ② Insert holder  
刀片座
- ③ Insert screw  
刀片螺丝
- ④ Insert  
刀片
- ⑤ Lock screw  
锁紧螺丝
- ⑥ Adjusting screw  
调整螺丝

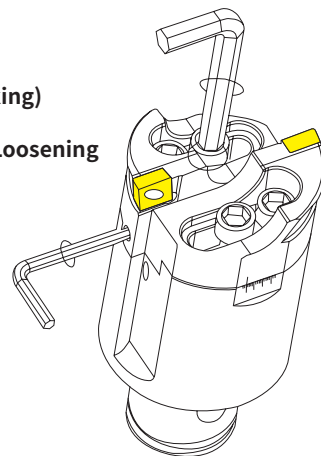


### 使用顺序 / Sequence of Use

请参照右图，按下列顺序 1-4 顺序操作：

- 步骤一：松开刀片座上头固定螺丝。
- 步骤二：从侧面旋转调整螺丝，推动刀片座到预定加工尺寸。
- 步骤三：锁紧刀片座上头固定螺丝。
- 步骤四：适当扭力旋转调整螺丝，以避免切削时松脱影响加工。

- 步骤一：须（锁紧）  
Step1:Clockwise(Locking)
- 步骤三：逆（放松）  
Step3:Anticlockwise:Loosening
- 步骤二 / Step2
- 步骤四 / Step4



Please operate the following step(1-4)according to the diagram figured;

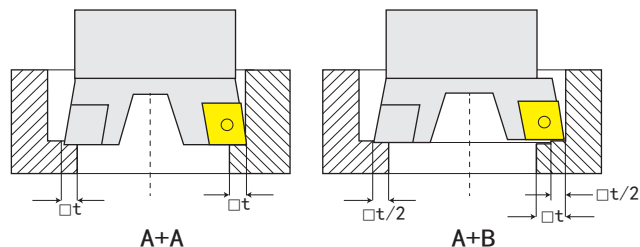
- Step1.Loosening the fixed screws on the blade bearing.
- Step2.Rotating and adjusting the side screws to move the blade bearing to an scheduled processing dimension.
- Step3.Locking the fixed screws on the blade bearing.
- Step4.Using proper force to rotate and adjust the screws to avoid the screw loose during cutting.

### 使用者注意事项 / Notices of The User

1. 平刃式切削加工，A、B 两刃等高径切削，此时切削进给为单刃切削的两倍。适用于切削量少时或铸铁、铝、铜等易切削材质使用。
2. 高低刃切削加工，A、B 两刃不等高，不等径切削，此时切削进给与单刃切削相同。适用于切除量多或难切削材质如钢材等。

1.During plain-blade cutting processing,i.e. equal height and dimension of A and B blade,the cutting feed is twice of single blade cutting.This method is suitable for cutting less output or easy cutting material such as cast iron,aluminum,or copper,etc.

2.During high-low cutting processing,i.e.unequal height of A and B blade, the cutting feed is same with single blade cutting.This method is suitable for cutting more output or hard cutting material such as steel,etc.



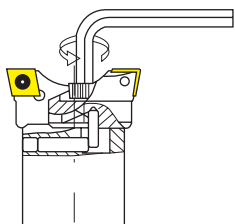
- a.When A and B blade bearing be mutual exchanged side to form high-low blade,i.e. A blade bearing to match B matching face,B blade bearing to math A matching face.
- b.Be careful that the adjusted cutting output of high blade and low blade should be same.in that case the two sides cutting and counteractive will be balanced to prevent of resonance and damage from excessive force on single blade.

## RBA 双刃粗镗刀头及 RBH 段差型粗镗头使用说明

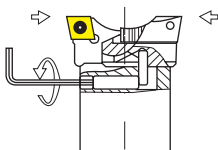
INSTRUCTIONS OF RBH DUAL BLADES MODULAR ROUGH BORING AND RBA INTERRUPTED ROUGH BORING

### 双刃等高调节方法

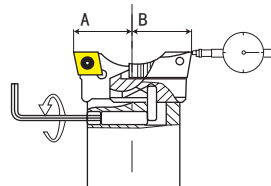
- ① 松开2颗锁紧螺丝



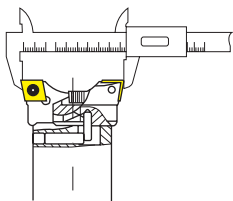
- ② 旋转2颗调节螺丝，用手推动刀片座，使尺寸比要加工的尺寸小约2mm，稍微拧紧2颗锁紧螺丝。



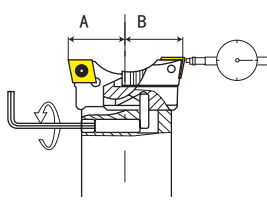
- ③ 旋转调节螺丝，使A、B尺寸在 $\pm 0.05$ 之内。



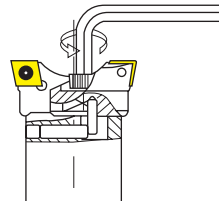
- ④ 测量当前尺寸，计算刀片座调节量。



- ⑤ 旋转调节螺丝至要加工尺寸并使A、B尺寸之差在 $\pm 0.05$ 之内。



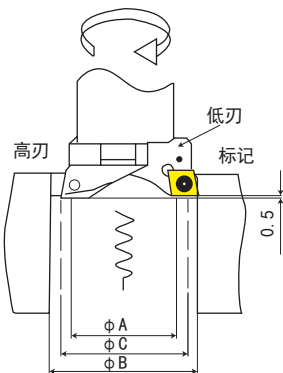
- ⑥ 拧紧2颗锁紧螺丝。



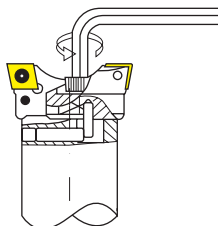
### 段差加工调节方法

高刃加工直径计算方法：

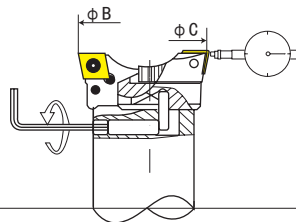
$$\phi C = (\text{加工前直径 } \phi A + \text{加工直径 } \phi B) / 2$$



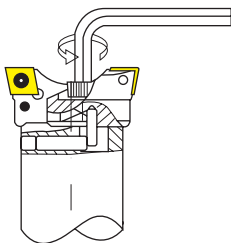
- ① 松开两颗锁紧螺丝，再略微拧紧。



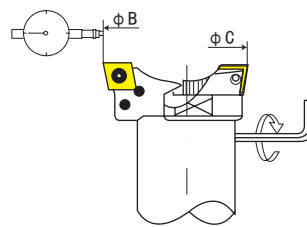
- ② 旋转调节螺丝推动刀片座，观察刻度线，将高刃调至 $\phi C$ 尺寸，低刃略小于B尺寸



- ③ 拧紧两颗锁紧螺丝。



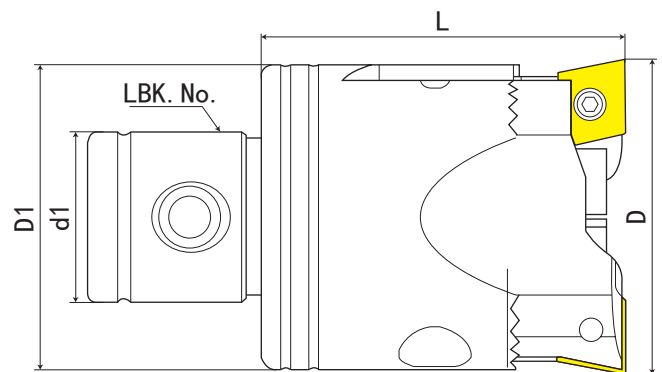
- ④ 试切，看尺寸再调节低刃。



# 镗孔刀具系列BORING HEAD

## TCT 带齿可调式双刃粗镗头

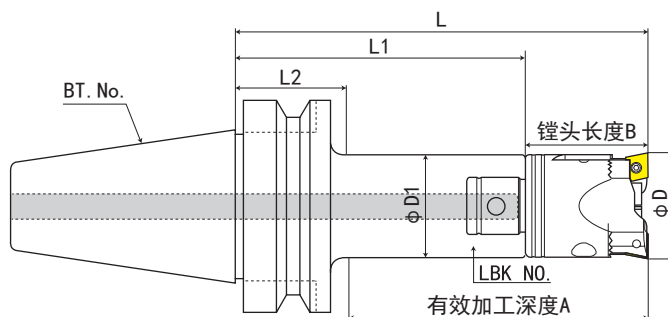
## TCT INDEXABLE TWIN-BIT ROUGH BORING HEAD



| 规格 / 型号<br>Model | 接合型号<br>LBK No | 镗孔范围 D<br>Boring Range | 有效长度<br>L | 镗头直径<br>D1 | 接头直径<br>d1 | 使用刀片<br>Insert | 螺丝<br>Screw | 扳手<br>Wrench | 重量<br>KGS |
|------------------|----------------|------------------------|-----------|------------|------------|----------------|-------------|--------------|-----------|
| TCT20-25         | LBK1           | 20-25                  | 36        | 19         | 11         | CC**0602**     | M2.5        | T8           | 0.07      |
| TCT25-33         | LBK2           | 25-33                  | 34        | 24         | 14         | CC**0602**     | M2.5        | T8           | 0.1       |
| TCT32-42         | LBK3           | 32-42                  | 47        | 31         | 18         | CC**0602**     | M2.5        | T8           | 0.25      |
| TCT40-54         | LBK4           | 40-54                  | 55        | 38         | 22         | CC**09T3**     | M4          | T15          | 0.47      |
| TCT52-70         | LBK5           | 52-70                  | 64        | 49         | 28         | CC**09T3**     | M4          | T15          | 0.88      |
| TCT68-95         | LBK6           | 68-95                  | 78        | 64         | 36         | CC**1204**     | M5          | T20          | 1.86      |
| TCT93-122        | LBK6           | 90-122                 | 78        | 63         | 36         | CC**1204**     | M5          | T20          | 1.93      |
| TCT120-164       | BST            | 120-164                | 96        |            | BST        | CC**1204**     | M5          | T20          |           |
| TCT160-204       | BST            | 160-204                | 96        |            |            | CC**1204**     | M5          | T20          |           |
| TCT200-310LA-C   | BST            | 200-310                | 84        |            |            | CCMT120408     |             | T20          | 3.9       |
| TCT300-410LA-C   | BST            | 300-410                | 85        |            |            | CCMT120408     |             | T20          | 4.7       |
| TCT400-510LA-C   | BST            | 400-510                | 90        |            |            | CCMT120408     |             | T20          | 5.5       |
| TCT500-610LA-C   | BST            | 500-610                | 91        |            |            | CCMT120408     |             | T20          | 6.48      |

# TCT 带齿可调式双刃粗镗头+LBK 刀柄

TCT INDEXABLE TWIN-BIT ROUGH BORING HEAD+LBK SHANK



## 型号说明

BT30 TCT19 91L  
BT 刀柄  
TCT 镗头  
全长 L

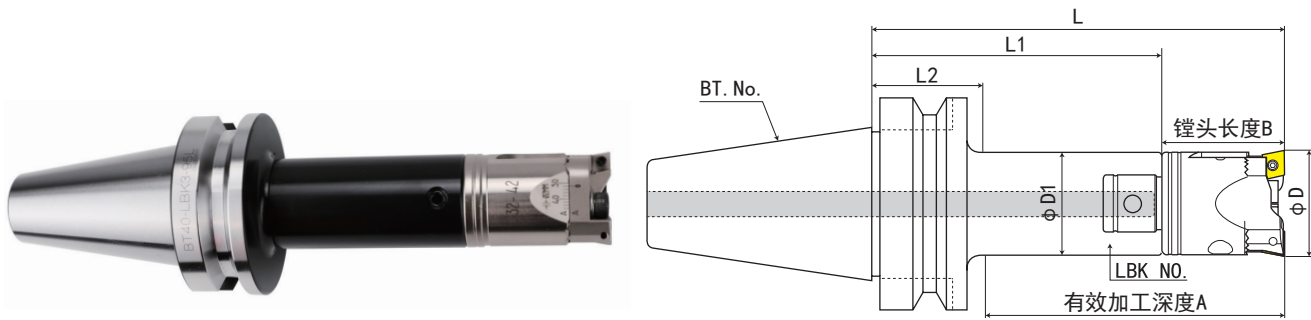
| 规格 / 型号 Model    | 组合内容 Tool Connection |                    | 连接接口 LBK.NO | 全长 L | 刀柄长 L1 | L2 | 镗头长度 B | 刀柄外径 $\phi D1$ | 镗孔范围 Boring Range $\phi D$ | 有效深度 A | 重量 KGS |
|------------------|----------------------|--------------------|-------------|------|--------|----|--------|----------------|----------------------------|--------|--------|
|                  | LBK 刀柄 LBK Shank     | SDL 镗头 Boring head |             |      |        |    |        |                |                            |        |        |
| BT30-TCT19-91L   | BT30-LBK1-55L        | TCT20-25           | LBK1        | 91   | 55     | 27 | 36     | 19             | 20-25                      | 64     |        |
| BT30-TCT19-106L  | BT30-LBK1-70L        | TCT20-25           | LBK1        | 106  | 70     | 27 | 36     | 19             | 20-25                      | 79     |        |
| BT30-TCT25-114L  | BT30-LBK2-80L        | TCT25-33           | LBK2        | 114  | 80     | 27 | 34     | 24             | 25-33                      | 87     |        |
| BT30-TCT32-127L  | BT30-LBK3-80L        | TCT32-42           | LBK3        | 127  | 80     | 27 | 47     | 31             | 32-42                      | 100    |        |
| BT30-TCT40-125L  | BT30-LBK4-70L        | TCT40-54           | LBK4        | 125  | 70     | 27 | 55     | 39             | 40-54                      | 98     |        |
| BT30-TCT52-124L  | BT30-LBK5-60L        | TCT52-70           | LBK5        | 124  | 60     | 27 | 64     | 50             | 52-70                      | 97     |        |
| BT30-TCT68-138L  | BT30-LBK6-60L        | TCT68-95           | LBK6        | 138  | 60     | 27 | 78     | 63             | 68-95                      | 111    |        |
| BT30-TCT93-138L  | BT30-LBK6-60L        | TCT93-122          | LBK6        | 138  | 60     | 27 | 78     | 63             | 93-122                     | 111    |        |
| BT40-TCT19-111L  | BT40-LBK1-75L        | TCT20-25           | LBK1        | 111  | 75     | 32 | 36     | 19             | 20-25                      | 79     |        |
| BT40-TCT19-141L  | BT40-LBK1-105L       | TCT20-25           | LBK1        | 141  | 105    | 32 | 36     | 19             | 20-25                      | 109    |        |
| BT40-TCT25-119L  | BT40-LBK2-85L        | TCT25-33           | LBK2        | 119  | 85     | 32 | 34     | 24             | 25-33                      | 87     |        |
| BT40-TCT25-149L  | BT40-LBK2-115L       | TCT25-33           | LBK2        | 149  | 115    | 32 | 34     | 24             | 25-33                      | 117    |        |
| BT40-TCT32-142L  | BT40-LBK3-95L        | TCT32-42           | LBK3        | 142  | 95     | 32 | 47     | 31             | 32-42                      | 110    |        |
| BT40-TCT32-172L  | BT40-LBK3-125L       | TCT32-42           | LBK3        | 172  | 125    | 32 | 47     | 31             | 32-42                      | 140    |        |
| BT40-TCT32-202L  | BT40-LBK3-155L       | TCT32-42           | LBK3        | 202  | 155    | 32 | 47     | 31             | 32-42                      | 170    |        |
| BT40-TCT32-232L  | BT40-LBK3-185L       | TCT32-42           | LBK3        | 232  | 185    | 32 | 47     | 31             | 32-42                      | 200    |        |
| BT40-TCT40-140L  | BT40-LBK4-85L        | TCT40-55           | LBK4        | 140  | 85     | 32 | 55     | 39             | 40-54                      | 108    |        |
| BT40-TCT40-185L  | BT40-LBK4-130L       | TCT40-54           | LBK4        | 185  | 130    | 32 | 55     | 39             | 40-54                      | 153    |        |
| BT40-TCT40-230L  | BT40-LBK4-175L       | TCT40-54           | LBK4        | 230  | 175    | 32 | 55     | 39             | 40-54                      | 198    |        |
| BT40-TCT40-260L  | BT40-LBK4-205L       | TCT40-54           | LBK4        | 260  | 205    | 32 | 55     | 39             | 40-54                      | 228    |        |
| BT40-TCT40-305L  | BT40-LBK4-250L       | TCT40-54           | LBK4        | 305  | 250    | 32 | 55     | 39             | 40-54                      | 273    |        |
| BT40-TCT52-139L  | BT40-LBK5-75L        | TCT52-70           | LBK5        | 139  | 75     | 32 | 64     | 50             | 52-70                      | 107    |        |
| BT40-TCT52-189L  | BT40-LBK5-125L       | TCT52-70           | LBK5        | 189  | 125    | 32 | 64     | 50             | 52-70                      | 157    |        |
| BT40-TCT52-239L  | BT40-LBK5-175L       | TCT52-70           | LBK5        | 239  | 175    | 32 | 64     | 50             | 52-70                      | 207    |        |
| BT40-TCT52-269L  | BT40-LBK5-205L       | TCT52-70           | LBK5        | 269  | 205    | 32 | 64     | 50             | 52-70                      | 237    |        |
| BT40-TCT52-314L  | BT40-LBK5-250L       | TCT52-70           | LBK5        | 314  | 250    | 32 | 64     | 50             | 52-70                      | 282    |        |
| BT40-TCT68-143L  | BT40-LBK6-65L        | TCT68-95           | LBK6        | 143  | 65     | 32 | 78     | 63             | 68-95                      | 111    |        |
| BT40-TCT68-193L  | BT40-LBK6-115L       | TCT68-95           | LBK6        | 193  | 115    | 32 | 78     | 63             | 68-95                      | 161    |        |
| BT40-TCT68-243L  | BT40-LBK6-165L       | TCT68-95           | LBK6        | 243  | 165    | 32 | 78     | 63             | 68-95                      | 211    |        |
| BT40-TCT68-283L  | BT40-LBK6-205L       | TCT68-95           | LBK6        | 283  | 205    | 32 | 78     | 63             | 68-95                      | 251    |        |
| BT40-TCT93-143L  | BT40-LBK6-65L        | TCT90-122          | LBK6        | 143  | 65     | 32 | 78     | 63             | 90-122                     | 111    |        |
| BT40-TCT93-193L  | BT40-LBK6-115L       | TCT90-122          | LBK6        | 193  | 115    | 32 | 78     | 63             | 90-122                     | 161    |        |
| BT40-TCT93-243L  | BT40-LBK6-165L       | TCT90-122          | LBK6        | 243  | 165    | 32 | 78     | 63             | 90-122                     | 211    |        |
| BT40-TCT93-283L  | BT40-LBK6-205L       | TCT90-122          | LBK6        | 283  | 205    | 32 | 78     | 63             | 90-122                     | 251    |        |
| BT40-TCT120-164L | BT40-BST-100L        | TCT120-164         | BST         | 196  | 100    | 32 | 96     | 95             | 110-164                    | 164    |        |
| BT40-TCT160-204L | BT40-BST-100L        | TCT160-204         | BST         | 196  | 100    | 32 | 96     | 95             | 160-204                    | 164    |        |



# 镗孔刀具系列 BORING HEAD

TCT 带齿可调式双刃粗镗头+LBK 刀柄

TCT INDEXABLE TWIN-BIT ROUGH BORING HEAD+LBK SHANK



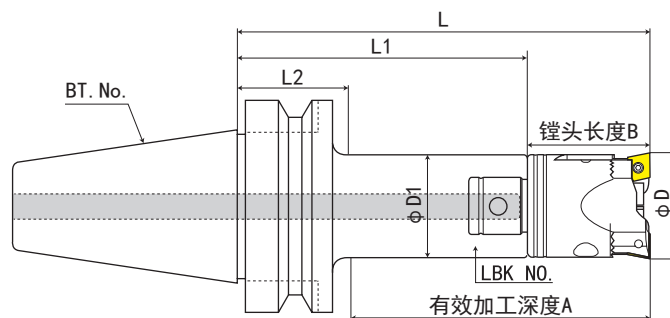
型号说明

BT30 TCT19 91L  
BT 刀柄 TCT 镗头 全长 L

| 规格 / 型号 Model   | 组合内容 Tool Connection |                    | 连接接口 LBK.NO | 全长 L | 刀柄长 L1 | L2 | 镗头长度 B | 刀柄外径 $\phi D1$ | 镗孔范围 Boring Range $\phi D$ | 有效深度 A | 重量 KGS |
|-----------------|----------------------|--------------------|-------------|------|--------|----|--------|----------------|----------------------------|--------|--------|
|                 | LBK 刀柄 LBK Shank     | SDL 镗头 Boring head |             |      |        |    |        |                |                            |        |        |
| BT50-TCT19-125L | BT50-LBK1-90L        | TCT20-25           | LBK1        | 126  | 90     | 43 | 36     | 19             | 20-25                      | 83     |        |
| BT50-TCT19-150L | BT50-LBK1-115L       | TCT20-25           | LBK1        | 151  | 115    | 43 | 36     | 19             | 20-25                      | 108    |        |
| BT50-TCT19-180L | BT50-LBK1-145L       | TCT20-25           | LBK1        | 181  | 145    | 43 | 36     | 19             | 20-25                      | 138    |        |
| BT50-TCT19-210L | BT50-LBK1-175L       | TCT20-25           | LBK1        | 211  | 175    | 43 | 36     | 19             | 20-25                      | 168    |        |
| BT50-TCT25-130L | BT50-LBK2-90L        | TCT25-33           | LBK2        | 124  | 90     | 43 | 34     | 24             | 25-33                      | 81     |        |
| BT50-TCT25-150L | BT50-LBK2-110L       | TCT25-33           | LBK2        | 144  | 110    | 43 | 34     | 24             | 25-33                      | 101    |        |
| BT50-TCT25-180L | BT50-LBK2-140L       | TCT25-33           | LBK2        | 174  | 140    | 43 | 34     | 24             | 25-33                      | 131    |        |
| BT50-TCT25-215L | BT50-LBK2-175L       | TCT25-33           | LBK2        | 209  | 175    | 43 | 34     | 24             | 25-33                      | 166    |        |
| BT50-TCT32-130L | BT50-LBK3-90L        | TCT32-42           | LBK3        | 137  | 90     | 43 | 47     | 31             | 32-42                      | 94     |        |
| BT50-TCT32-165L | BT50-LBK3-125L       | TCT32-42           | LBK3        | 172  | 125    | 43 | 47     | 31             | 32-42                      | 129    |        |
| BT50-TCT32-195L | BT50-LBK3-155L       | TCT32-42           | LBK3        | 202  | 155    | 43 | 47     | 31             | 32-42                      | 159    |        |
| BT50-TCT32-225L | BT50-LBK3-185L       | TCT32-42           | LBK3        | 232  | 185    | 43 | 47     | 31             | 32-42                      | 189    |        |
| BT50-TCT32-255L | BT50-LBK3-215L       | TCT32-42           | LBK3        | 262  | 215    | 43 | 47     | 31             | 32-42                      | 219    |        |
| BT50-TCT40-140L | BT50-LBK4-90L        | TCT40-54           | LBK4        | 145  | 90     | 43 | 55     | 39             | 40-54                      | 102    |        |
| BT50-TCT40-165L | BT50-LBK4-115L       | TCT40-54           | LBK4        | 170  | 115    | 43 | 55     | 39             | 40-54                      | 127    |        |
| BT50-TCT40-195L | BT50-LBK4-145L       | TCT40-54           | LBK4        | 200  | 145    | 43 | 55     | 39             | 40-54                      | 157    |        |
| BT50-TCT40-225L | BT50-LBK4-175L       | TCT40-54           | LBK4        | 230  | 175    | 43 | 55     | 39             | 40-54                      | 187    |        |
| BT50-TCT40-255L | BT50-LBK4-205L       | TCT40-54           | LBK4        | 260  | 205    | 43 | 55     | 39             | 40-54                      | 217    |        |
| BT50-TCT40-300L | BT50-LBK4-250L       | TCT40-54           | LBK4        | 305  | 250    | 43 | 55     | 39             | 40-54                      | 262    |        |
| BT50-TCT40-350L | BT50-LBK4-300L       | TCT40-54           | LBK4        | 355  | 300    | 43 | 55     | 39             | 40-54                      | 312    |        |
| BT50-TCT40-400L | BT50-LBK4-350L       | TCT40-54           | LBK4        | 405  | 350    | 43 | 55     | 39             | 40-54                      | 362    |        |
| BT50-TCT52-150L | BT50-LBK5-90L        | TCT52-70           | LBK5        | 154  | 90     | 43 | 64     | 50             | 52-70                      | 111    |        |
| BT50-TCT52-165L | BT50-LBK5-105L       | TCT52-70           | LBK5        | 169  | 105    | 43 | 64     | 50             | 52-70                      | 126    |        |
| BT50-TCT52-210L | BT50-LBK5-150L       | TCT52-70           | LBK5        | 214  | 150    | 43 | 64     | 50             | 52-70                      | 171    |        |
| BT50-TCT52-240L | BT50-LBK5-180L       | TCT52-70           | LBK5        | 244  | 180    | 43 | 64     | 50             | 52-70                      | 201    |        |
| BT50-TCT52-300L | BT50-LBK5-240L       | TCT52-70           | LBK5        | 304  | 240    | 43 | 64     | 50             | 52-70                      | 261    |        |
| BT50-TCT52-330L | BT50-LBK5-270L       | TCT52-70           | LBK5        | 334  | 270    | 43 | 64     | 50             | 52-70                      | 291    |        |
| BT50-TCT52-360L | BT50-LBK5-300L       | TCT52-70           | LBK5        | 364  | 300    | 43 | 64     | 50             | 52-70                      | 321    |        |
| BT50-TCT52-410L | BT50-LBK5-350L       | TCT52-70           | LBK5        | 414  | 350    | 43 | 64     | 50             | 52-70                      | 371    |        |
| BT50-TCT68-165L | BT50-LBK6-95L        | TCT68-95           | LBK6        | 173  | 95     | 43 | 78     | 63             | 68-95                      | 130    |        |
| BT50-TCT68-220L | BT50-LBK6-150L       | TCT68-95           | LBK6        | 228  | 150    | 43 | 78     | 63             | 68-95                      | 185    |        |
| BT50-TCT68-240L | BT50-LBK6-170L       | TCT68-95           | LBK6        | 248  | 170    | 43 | 78     | 63             | 68-95                      | 205    |        |
| BT50-TCT68-275L | BT50-LBK6-205L       | TCT68-95           | LBK6        | 283  | 205    | 43 | 78     | 63             | 68-95                      | 240    |        |
| BT50-TCT68-300L | BT50-LBK6-230L       | TCT68-95           | LBK6        | 308  | 230    | 43 | 78     | 63             | 68-95                      | 265    |        |
| BT50-TCT68-340L | BT50-LBK6-270L       | TCT68-95           | LBK6        | 348  | 270    | 43 | 78     | 63             | 68-95                      | 305    |        |
| BT50-TCT68-370L | BT50-LBK6-300L       | TCT68-95           | LBK6        | 378  | 300    | 43 | 78     | 63             | 68-95                      | 335    |        |
| BT50-TCT68-420L | BT50-LBK6-350L       | TCT68-95           | LBK6        | 428  | 350    | 43 | 78     | 63             | 68-95                      | 385    |        |
| BT50-TCT68-470L | BT50-LBK6-400L       | TCT68-95           | LBK6        | 478  | 400    | 43 | 78     | 63             | 68-95                      | 435    |        |
| BT50-TCT68-520L | BT50-LBK6-450L       | TCT68-95           | LBK6        | 528  | 450    | 43 | 78     | 63             | 68-95                      | 485    |        |

# TCT 带齿可调式双刃粗镗头+LBK 刀柄

TCT INDEXABLE TWIN-BIT ROUGH BORING HEAD+LBK SHANK



## 型号说明

BT30 TCT19 91L  
BT 刀柄 TCT 镗头 全长 L

| 规格 / 型号 Model    | 组合内容 Tool Connection |                    | 连接接口 LBK.NO | 全长 L | 刀柄长 L1 | L2 | 镗头长度 B | 刀柄外径 φD1 | 镗孔范围 Boring Range φD | 有效深度 A | 重量 KGS |
|------------------|----------------------|--------------------|-------------|------|--------|----|--------|----------|----------------------|--------|--------|
|                  | LBK 刀柄 LBK Shank     | SDL 镗头 Boring head |             |      |        |    |        |          |                      |        |        |
| BT50-TCT110-170L | BT50-BST-100L        | TCT120-164         | BST         | 196  | 100    | 43 | 96     | 95       | 120-164              | 153    |        |
| BT50-TCT110-220L | BT50-BST-150L        | TCT120-164         | BST         | 246  | 150    | 43 | 96     | 95       | 120-164              | 203    |        |
| BT50-TCT110-270L | BT50-BST-200L        | TCT120-164         | BST         | 296  | 200    | 43 | 96     | 95       | 120-164              | 253    |        |
| BT50-TCT110-320L | BT50-BST-250L        | TCT120-164         | BST         | 346  | 250    | 43 | 96     | 95       | 120-164              | 303    |        |
| BT50-TCT110-370L | BT50-BST-300L        | TCT120-164         | BST         | 396  | 300    | 43 | 96     | 95       | 120-164              | 353    |        |
| BT50-TCT110-420L | BT50-BST-350L        | TCT120-164         | BST         | 446  | 350    | 43 | 96     | 95       | 120-164              | 403    |        |
| BT50-TCT110-470L | BT50-BST-400L        | TCT120-164         | BST         | 496  | 400    | 43 | 96     | 95       | 120-164              | 453    |        |
| BT50-TCT110-520L | BT50-BST-450L        | TCT120-164         | BST         | 546  | 450    | 43 | 96     | 95       | 120-164              | 503    |        |
| BT50-TCT110-570L | BT50-BST-500L        | TCT120-164         | BST         | 596  | 500    | 43 | 96     | 95       | 120-164              | 553    |        |
| BT50-TCT160-170L | BT50-BST-100L        | TCT160-204         | BST         | 196  | 100    | 43 | 96     | 95       | 160-204              | 153    |        |
| BT50-TCT160-220L | BT50-BST-150L        | TCT160-204         | BST         | 246  | 150    | 43 | 96     | 95       | 160-204              | 203    |        |
| BT50-TCT160-270L | BT50-BST-200L        | TCT160-204         | BST         | 296  | 200    | 43 | 96     | 95       | 160-204              | 253    |        |
| BT50-TCT160-320L | BT50-BST-250L        | TCT160-204         | BST         | 346  | 250    | 43 | 96     | 95       | 160-204              | 303    |        |
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| BT50-TCT160-420L | BT50-BST-350L        | TCT160-204         | BST         | 446  | 350    | 43 | 96     | 95       | 160-204              | 403    |        |
| BT50-TCT160-470L | BT50-BST-400L        | TCT160-204         | BST         | 496  | 400    | 43 | 96     | 95       | 160-204              | 453    |        |
| BT50-TCT160-520L | BT50-BST-450L        | TCT160-204         | BST         | 546  | 450    | 43 | 96     | 95       | 160-204              | 503    |        |
| BT50-TCT160-570L | BT50-BST-500L        | TCT160-204         | BST         | 596  | 500    | 43 | 96     | 95       | 160-204              | 553    |        |

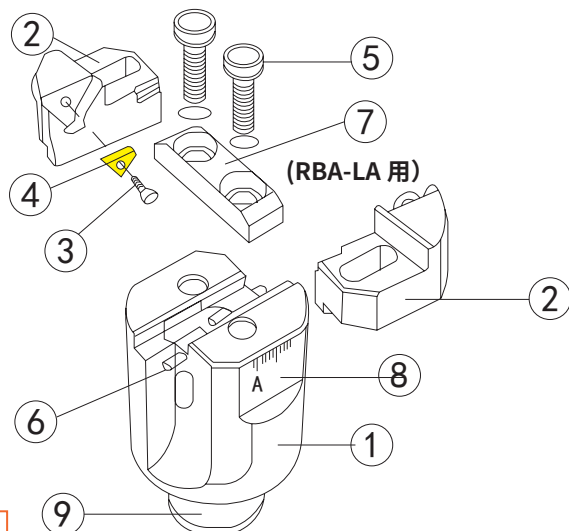
BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## RBA-LA 新型双刀粗镗刀头及段差型粗镗头使用说明

RBA-LA INSTRUCTIONS OF TWIN-CUTTER ROUGH BORING HEAD AND STEPPED ROUGH BORING METHOD

- |                           |                             |
|---------------------------|-----------------------------|
| ① Boring body<br>镗头本体     | ⑦ Plate<br>压板               |
| ② Insert holder<br>刀片座    | ⑧ Scale<br>微调刻度             |
| ③ Insert screw<br>刀片螺丝    | ⑨ LBK-Interface<br>LBK 连接接口 |
| ④ Insert<br>刀片            |                             |
| ⑤ Lock screw<br>锁紧螺丝      |                             |
| ⑥ Adjusting screw<br>调整螺丝 |                             |



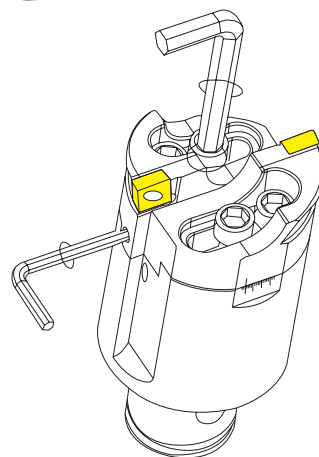
### 使用顺序 /Sequence of Use

请参照右图，按下列顺序 1-4 顺序操作：

- 步骤一：松开刀片座上固定螺丝。
- 步骤二：从侧面旋转调整螺丝，推动刀片座到预定加工尺寸。
- 步骤三：锁紧刀片座上固定螺丝。
- 步骤四：适当扭力旋转调整螺丝，以避免切削时松脱影响加工。

Please operate the following step(1-4)according to the diagram figured;

- Step1.Loosening the fixed screws on the blade bearing.
- Step2.Rotating and adjusting the side screws to move the blade bearing to an scheduled processing dimension.
- Step3.Locking the fixed screws on the blade bearing.
- Step4.Using proper force to rotate and adjust the screws to avoid the screw loose during cutting.

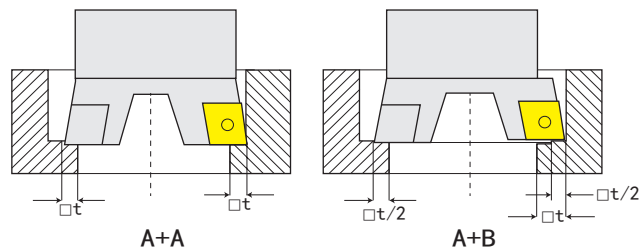


### 使用者注意事项 /Notices of The User

1. 平刃式切削加工，A、B 两刃等高径切削，此时切削进给为单刃切削的两倍。适用于切削量少时或铸铁、铝、铜等易切削材质使用。
2. 高低刃切削加工，A、B 两刃不等高，不等径切削，此时切削进给与单刃切削相同。适用于切除量多或难切削材质如钢材等。
  - a. 当 A、B 刀片座互相调换边即形成高低刃，即 A 刀片座对 B 接合面，B 刀片座对 A 接合面。
  - b. 切削量调整 (□t) 须注意高刃与低刃须均等。以平衡作用于两边之切削反作用相同，防止共振发生，避免单刃受力过大而损坏。

1During plain-blade cutting processing,i.e. equal height and dimension of A and B blade,the cutting feed is twice of single blade cutting.This method is suitable for cutting less output or easy cutting material such as cast iron,aluminum,or copper,etc.

2During high-low cutting processing,i.e.unequal height of A and B blade, the cutting feed is same with single blade cutting.This method is suitable for cutting more output or hard cutting material such as steel,etc.



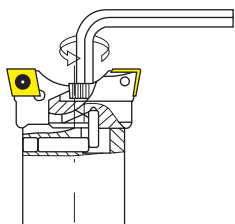
- a.When A and B blade bearing be mutual exchanged side to form high-low blade,i.e. A blade bearing to match B matching face,B blade bearing to math A matching face.
- b.Be careful that the adjusted cutting output of high blade and low blade should be same.in that case the two sides cutting and counteractive will be balanced to prevent of resonance and damage from excessive force on single blade.

## RBA-LA 新型双刃粗镗刀头及 RBA 段差型粗镗刀头使用说明

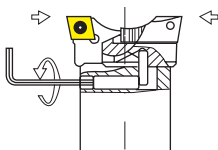
RBA-LA INSTRUCTIONS OF RBA DUAL BLADES MODULAR ROUGH BORING AND RBH INTERRUPTED ROUGH BORING

### 双刃等高调节方法

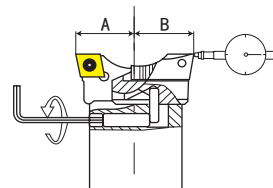
- ① 松开2颗锁紧螺丝



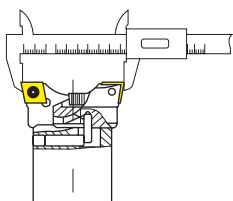
- ② 旋转2颗调节螺丝，用手推动刀片座，使尺寸比要加工的尺寸小约2mm，稍微拧紧2颗锁紧螺丝。



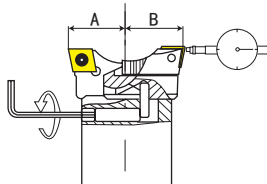
- ③ 旋转调节螺丝，使A、B尺寸在 $\pm 0.05$ 之内。



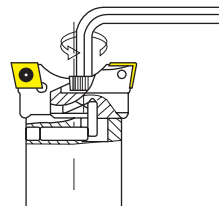
- ④ 测量当前尺寸，计算刀片座调节量。



- ⑤ 旋转调节螺丝至要加工尺寸并使A、B尺寸之差在 $\pm 0.05$ 之内。



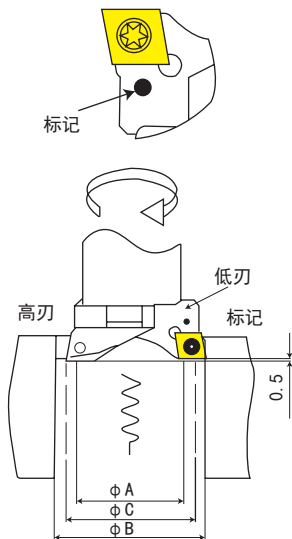
- ⑥ 拧紧2颗锁紧螺丝。



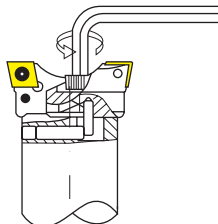
### 段差加工调节方法

高刃加工直径计算方法：

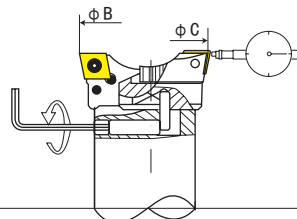
$$\phi C = (\text{加工前直径 } \phi A + \text{加工直径 } \phi B) / 2$$



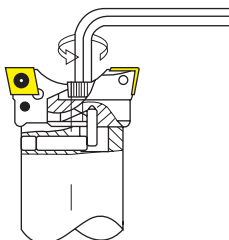
- ① 松开两颗锁紧螺丝，再略微拧紧。



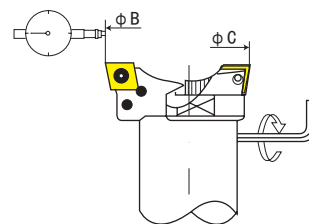
- ② 旋转调节螺丝推动刀片座，观察刻度线，将高刃调至 $\phi C$ 尺寸，低刃略小于B尺寸



- ③ 拧紧两颗锁紧螺丝。



- ④ 试切，看尺寸再调节低刃。

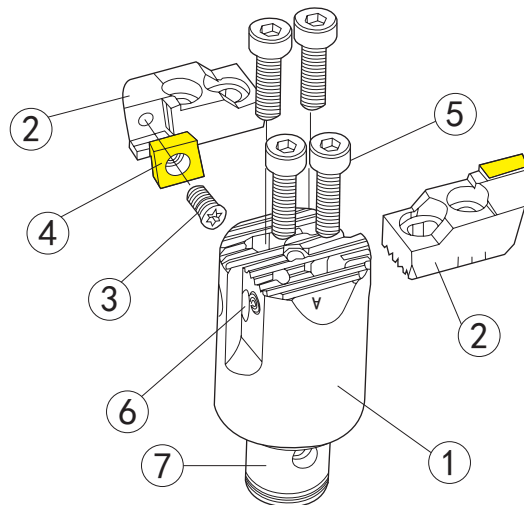


# 镗孔刀具系列 BORING HEAD

## RBA-LA-C 新型带齿双刃粗镗刀头及段差型粗镗头使用说明

RBA-LA-C INSTRUCTIONS OF TWIN-CUTTER ROUGH BORING HEAD AND STEPPED ROUGH BORING METHOD

- ① Boring body  
镗头本体
- ② Insert holder  
刀片座
- ③ Insert screw  
刀片螺丝
- ④ Insert  
刀片
- ⑤ Lock screw  
锁紧螺丝
- ⑥ Adjusting screw  
调整螺丝
- ⑦ LBK-Interface  
LBK 连接接口



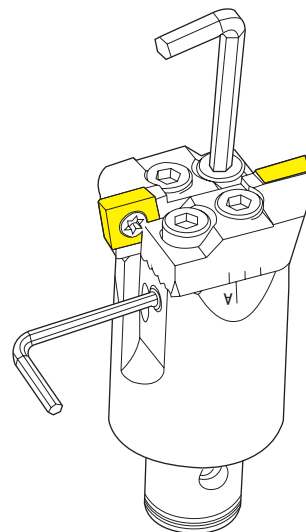
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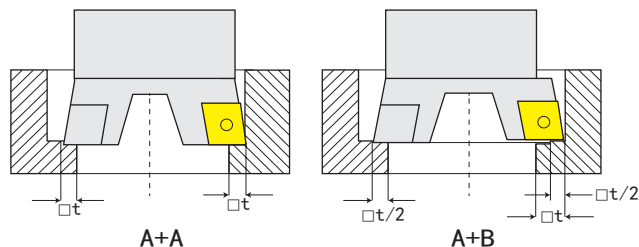


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- a. 当 A、B 刀片座互相调换边即形成高低刃，即 A 刀片座对 B 接合面，B 刀片座对 A 接合面。
  - b. 切削量调整 ( $\square t$ ) 须注意高刃与低刃须均等。以平衡作用于两边之切削反作用相同，防止共振发生，避免单刃受力过大而损坏。

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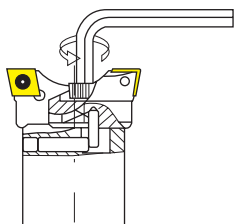
b. Be careful that the adjusted cutting output of high blade and low blade should be same. In that case the two sides cutting and counteractive will be balanced to prevent of resonance and damage from excessive force on single blade.

## RBA-LA-C 新型带齿双刃粗镗刀头及段差型粗镗头使用说明

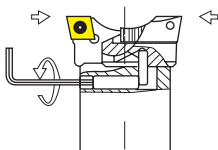
RBA-LA-C INSTRUCTIONS OF TWIN-CUTTER ROUGH BORING HEAD AND STEPPED ROUGH BORING METHOD

### 双刃等高调节方法

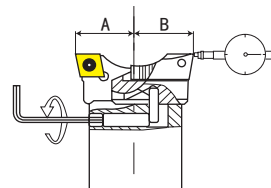
- ① 松开2颗锁紧螺丝



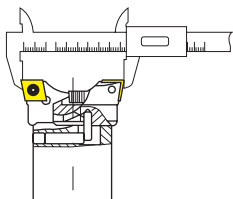
- ② 旋转2颗调节螺丝，用手推动刀片座，使尺寸比要加工的尺寸小约2mm，稍微拧紧2颗锁紧螺丝。



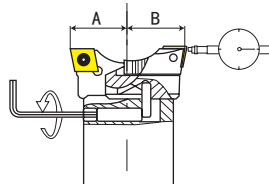
- ③ 旋转调节螺丝，使A、B尺寸在 $\pm 0.05$ 之内。



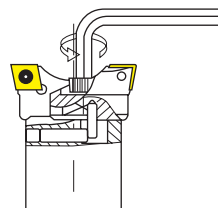
- ④ 测量当前尺寸，计算刀片座调节量。



- ⑤ 旋转调节螺丝至要加工尺寸并使A、B尺寸之差在 $\pm 0.05$ 之内。



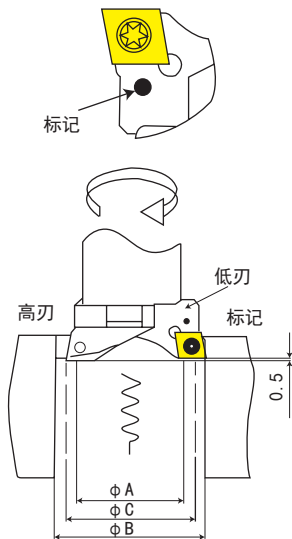
- ⑥ 拧紧2颗锁紧螺丝。



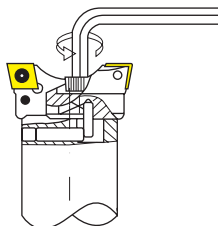
### 段差加工调节方法

高刃加工直径计算方法：

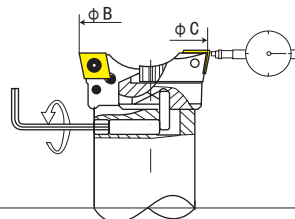
$$\phi C = (\text{加工前直径 } \phi A + \text{加工直径 } \phi B) / 2$$



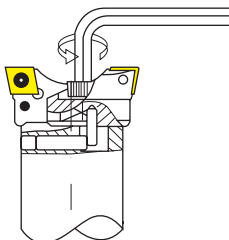
- ① 松开两颗锁紧螺丝，再略微拧紧。



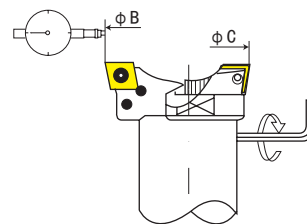
- ② 旋转调节螺丝推动刀片座，观察刻度线，将高刃调至 $\phi C$ 尺寸，低刃略小于B尺寸



- ③ 拧紧两颗锁紧螺丝。



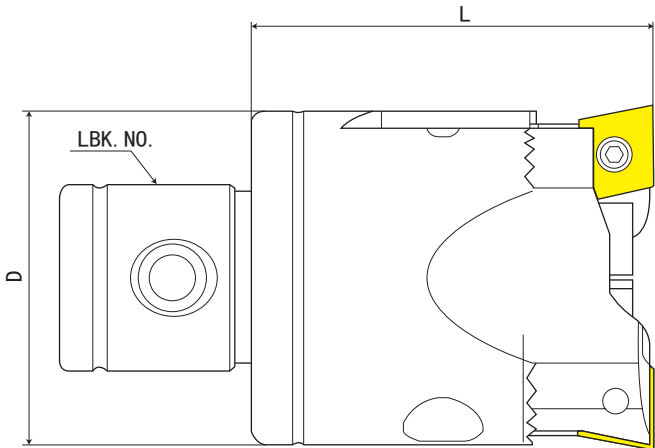
- ④ 试切，看尺寸再调节低刃。



# 镗孔刀具系列 BORING HEAD

## RBA-LA-C 新型带齿可调式双刃粗镗头

## RBA-LA-C INDEXABLE TWIN-BIT ROUGH BORING HEAD



### 镗孔范围

φ25-φ204

Boring Range

### 刀柄

LBK BST

LBK No. BST No.

| 规格 / 型号<br>Model | 镗孔范围 Boring Range |      | D   | L  | 接合型号<br>LBK No | 使用刀片<br>Insert | 刀片座滑块<br>Insert Seat | 螺丝<br>Screw | 扳手<br>Wrench | 重量<br>KGS |
|------------------|-------------------|------|-----|----|----------------|----------------|----------------------|-------------|--------------|-----------|
|                  | Min.              | Max. |     |    |                |                |                      |             |              |           |
| RBA20-25-LA-C    | 19                | 25   | 18  | 35 | LBK1           | CCMT060204     | RL-C2025             | M2.5*6.0    | T8           | 0.15      |
| RBA25-35-LA-C    | 25                | 35   | 24  | 40 | LBK2           | CCMT060204     | RL-C2535             | M2.5*6.0    | T8           | 0.3       |
| RBA32-45-LA-C    | 32                | 45   | 31  | 40 | LBK3           | CCMT060204     | RL-C3245             | M2.5*6.0    | T8           | 0.5       |
| RBA40-55-LA-C    | 40                | 55   | 39  | 50 | LBK4           | CCMT09T304     | RL-C4055             | M4*8.0      | T15          | 1         |
| RBA52-75-LA-C    | 52                | 75   | 50  | 60 | LBK5           | CCMT09T304     | RL-C5275             | M4*8.0      | T15          | 2.5       |
| RBA68-95-LA-C    | 68                | 95   | 66  | 70 | LBK6           | CCMT120408     | RL-C6895             | M5*10.0     | T20          | 3.1       |
| RBA95-112-LA-C   | 95                | 112  | 66  | 70 | LBK6           | CCMT120408     | RL-C95112            | M5*10.0     | T20          | 3.1       |
| RBA110-164-LA-C  | 110               | 164  | 108 | 70 | BST            | CCMT120408     | RL-C110164           | M5*10.0     | T20          | 4.2       |
| RBA160-204-LA-C  | 160               | 204  | -   | 70 | BST            | CCMT120408     | RL-C160204           | M5*10.0     | T20          | 5.3       |

### 特点:

注:

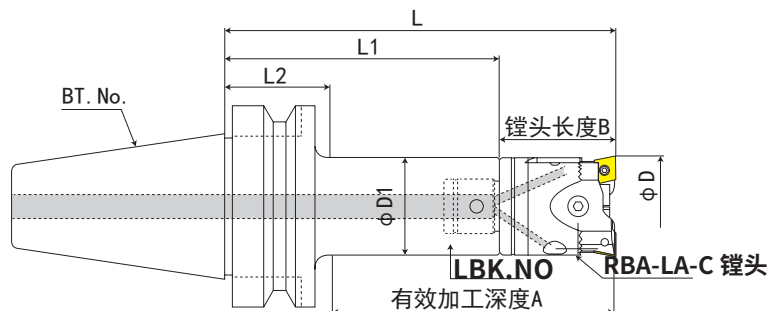
- ◎适用单刃镗孔，双刃镗孔及高低阶镗孔。镗孔范围 φ25-204mm
- ◎新型刀刃滑座设计，刀背加强。加工时，滑座承受的两个作用力相互抵消，产生最大刚性和切削力。适合各形态的镗孔作业
- ◎可依照不同加工需求，轻易调整镗刀，作少量多样的加工。加工深度可配合延长杆延伸至所需长度
- ◎清晰的侧边刻度，协助使用者轻易调整到所需的范围，无须在刀具设定仪上预设
- ◎最适合在各型切削中心机或镗床上配合使用，并可搭配各种品牌相同规格的指定刀片，节省刀具研磨时间并大幅增加镗孔效率
- ◎专利高低段差设计，平刃或高低刃均可采用
- ◎此款镗头可以更换反镗刀座进行反镗加工

### Features:

- ◎ It is suitable for single blade boring, two blades boring and step boring with working diameter from φ25mm to φ500 mm.
- ◎ New type design of slid seat for blade, and the back of the blade is strengthened. When machining, the two acting force received by the slid seat can offset, so that max rigidity and cutting force will generate, which is suitable for a variety of borings.
- ◎ Boring head can be easily adjusted to meet different boring needs of machining. Boring depth can be extended by rod to required length.
- ◎ Clear side division can help operator adjust to required range easily without using a tool presetter.
- ◎ It is best for using on various machine centers or boring mills, and can match specific tools of different brands, which will reduce tool grinding and greatly improve boring performance.
- ◎ Patented step boring design, which is suitable for both level boring and step boring.

# RBA-LA-C 新型带齿双刃粗镗头 +LBK 刀柄 (MAS 403BT)

RBA-LA-C INDEXABLE TWIN-BIT ROUGH BORING HEAD+LBK SHANK (MAS 403BT)



## 型号说明

BT30 RBA19-LA-C 90L  
全长 L  
RBA19-25-LA-C-LBK1 镗头  
BT 刀柄



P.J06

P.J70

| 规格 / 型号<br>Model      | LBK 刀柄<br>LBK Shank | RBA-LA-C<br>镗头  | 镗孔<br>范围<br>Boring<br>Range | 有 效<br>加 工<br>深度 Z | 接合<br>型号<br>LBK<br>No | 全长<br>L | 刀杆<br>长 L1 | L2 | 镗头<br>长度 B | 刀杆<br>外径<br>φD1 | 重量<br>KGS |
|-----------------------|---------------------|-----------------|-----------------------------|--------------------|-----------------------|---------|------------|----|------------|-----------------|-----------|
| BT30-RBA19-LA-C-90L   | BT30-LBK1-55L       | RBA19-25-LA-C   | 19-25                       | 63                 | LBK1                  | 90      | 55         | 27 | 35         | 19              | 0.75      |
| BT30-RBA19-LA-C-105L  | BT30-LBK1-70L       | RBA19-25-LA-C   | 19-25                       | 78                 | LBK1                  | 105     | 70         | 27 | 35         | 19              | 0.85      |
| BT30-RBA25-LA-C-120L  | BT30-LBK2-80L       | RBA25-35-LA-C   | 25-35                       | 93                 | LBK2                  | 120     | 80         | 27 | 40         | 24              | 0.95      |
| BT30-RBA32-LA-C-120L  | BT30-LBK3-80L       | RBA32-45-LA-C   | 32-45                       | 93                 | LBK3                  | 120     | 80         | 27 | 40         | 31              | 1.2       |
| BT30-RBA40-LA-C-120L  | BT30-LBK4-70L       | RBA40-55-LA-C   | 40-55                       | 93                 | LBK4                  | 120     | 70         | 27 | 50         | 39              | 1.6       |
| BT30-RBA52-LA-C-120L  | BT30-LBK5-60L       | RBA52-75-LA-C   | 52-75                       | 93                 | LBK5                  | 120     | 60         | 27 | 60         | 50              | 2.1       |
| BT30-RBA68-LA-C-130L  | BT30-LBK6-60L       | RBA68-110-LA-C  | 68-110                      | 103                | LBK6                  | 130     | 60         | 27 | 70         | 63              | 3.7       |
| BT40-RBA19-LA-C-110L  | BT40-LBK1-75L       | RBA19-25-LA-C   | 19-25                       | 78                 | LBK1                  | 110     | 75         | 32 | 35         | 19              | 1.15      |
| BT40-RBA19-LA-C-140   | BT40-LBK1-105L      | RBA19-25-LA-C   | 19-25                       | 108                | LBK1                  | 140     | 105        | 32 | 35         | 19              | 1.25      |
| BT40-RBA25-LA-C-125L  | BT40-LBK2-85L       | RBA25-35-LA-C   | 25-35                       | 93                 | LBK2                  | 125     | 85         | 32 | 40         | 24              | 1.35      |
| BT40-RBA25-LA-C-155L  | BT40-LBK2-115L      | RBA25-35-LA-C   | 25-35                       | 123                | LBK2                  | 155     | 115        | 32 | 40         | 24              | 1.45      |
| BT40-RBA32-LA-C-135L  | BT40-LBK3-95L       | RBA32-45-LA-C   | 32-45                       | 103                | LBK3                  | 135     | 95         | 32 | 40         | 31              | 1.6       |
| BT40-RBA32-LA-C-165L  | BT40-LBK3-125L      | RBA32-45-LA-C   | 32-45                       | 133                | LBK3                  | 165     | 125        | 32 | 40         | 31              | 1.7       |
| BT40-RBA32-LA-C-195L  | BT40-LBK3-155L      | RBA32-45-LA-C   | 32-45                       | 163                | LBK3                  | 195     | 155        | 32 | 40         | 31              | 1.9       |
| BT40-RBA32-LA-C-225L  | BT40-LBK3-185L      | RBA32-45-LA-C   | 32-45                       | 193                | LBK3                  | 225     | 185        | 32 | 40         | 31              | 2.0       |
| BT40-RBA40-LA-C-135L  | BT40-LBK4-85L       | RBA40-55-LA-C   | 40-55                       | 103                | LBK4                  | 135     | 85         | 32 | 50         | 39              | 2.05      |
| BT40-RBA40-LA-C-180L  | BT40-LBK4-130L      | RBA40-55-LA-C   | 40-55                       | 148                | LBK4                  | 180     | 130        | 32 | 50         | 39              | 2.1       |
| BT40-RBA40-LA-C-225L  | BT40-LBK4-175L      | RBA40-55-LA-C   | 40-55                       | 193                | LBK4                  | 225     | 175        | 32 | 50         | 39              | 2.7       |
| BT40-RBA40-LA-C-255L  | BT40-LBK4-205L      | RBA40-55-LA-C   | 40-55                       | 223                | LBK4                  | 255     | 205        | 32 | 50         | 39              | 2.8       |
| BT40-RBA40-LA-C-300L  | BT40-LBK4-250L      | RBA40-55-LA-C   | 40-55                       | 268                | LBK4                  | 300     | 250        | 32 | 50         | 39              | 2.9       |
| BT40-RBA52-LA-C-135L  | BT40-LBK5-75L       | RBA52-75-LA-C   | 52-75                       | 103                | LBK5                  | 135     | 75         | 32 | 60         | 50              | 2.7       |
| BT40-RBA52-LA-C-185L  | BT40-LBK5-125L      | RBA52-75-LA-C   | 52-75                       | 153                | LBK5                  | 185     | 125        | 32 | 60         | 50              | 2.95      |
| BT40-RBA52-LA-C-235L  | BT40-LBK5-175L      | RBA52-75-LA-C   | 52-75                       | 203                | LBK5                  | 235     | 175        | 32 | 60         | 50              | 3         |
| BT40-RBA52-LA-C-265L  | BT40-LBK5-205L      | RBA52-75-LA-C   | 52-75                       | 233                | LBK5                  | 265     | 205        | 32 | 60         | 50              | 4.2       |
| BT40-RBA52-LA-C-310L  | BT40-LBK5-250L      | RBA52-75-LA-C   | 52-75                       | 278                | LBK5                  | 310     | 250        | 32 | 60         | 50              | 4.5       |
| BT40-RBA68-LA-C-135L  | BT40-LBK6-65L       | RBA68-110-LA-C  | 68-110                      | 103                | LBK6                  | 135     | 65         | 32 | 70         | 63              | 4.65      |
| BT40-RBA68-LA-C-185L  | BT40-LBK6-115L      | RBA68-110-LA-C  | 68-110                      | 153                | LBK6                  | 185     | 115        | 32 | 70         | 63              | 6         |
| BT40-RBA68-LA-C-235L  | BT40-LBK6-165L      | RBA68-110-LA-C  | 68-110                      | 203                | LBK6                  | 235     | 165        | 32 | 70         | 63              | 6.35      |
| BT40-RBA68-LA-C-275L  | BT40-LBK6-205L      | RBA68-110-LA-C  | 68-110                      | 243                | LBK6                  | 275     | 205        | 32 | 70         | 63              | 6.6       |
| BT40-RBA110-LA-C-170L | BT40-BST-100L       | RBA110-164-LA-C | 110-164                     | 138                | BST                   | 170     | 100        | 32 | 70         | 95              | 8.95      |
| BT40-RBA110-LA-C-220L | BT40-BST-150L       | RBA110-164-LA-C | 110-164                     | 188                | BST                   | 220     | 150        | 32 | 70         | 95              | 10.39     |
| BT40-RBA110-LA-C-270L | BT40-BST-200L       | RBA110-164-LA-C | 110-164                     | 238                | BST                   | 270     | 200        | 32 | 70         | 95              | 11.87     |
| BT40-RBA160-LA-C-170L | BT40-BST-100L       | RBA160-204-LA-C | 160-204                     | 138                | BST                   | 170     | 100        | 32 | 70         | 95              | 9.95      |
| BT40-RBA160-LA-C-220L | BT40-BST-150L       | RBA160-204-LA-C | 160-204                     | 188                | BST                   | 220     | 150        | 32 | 70         | 95              | 11.39     |
| BT40-RBA160-LA-C-270L | BT40-BST-200L       | RBA160-204-LA-C | 160-204                     | 238                | BST                   | 270     | 200        | 32 | 70         | 95              | 12.87     |



BORING HEAD  
镗孔刀具系列

# 镗孔刀具系列 BORING HEAD

## RBA-LA-C 新型带齿双刃粗镗头 +LBK 刀柄 (MAS 403BT)

RBA-LA-C INDEXABLE TWIN-BIT ROUGH BORING HEAD+LBK SHANK(MAS 403BT)

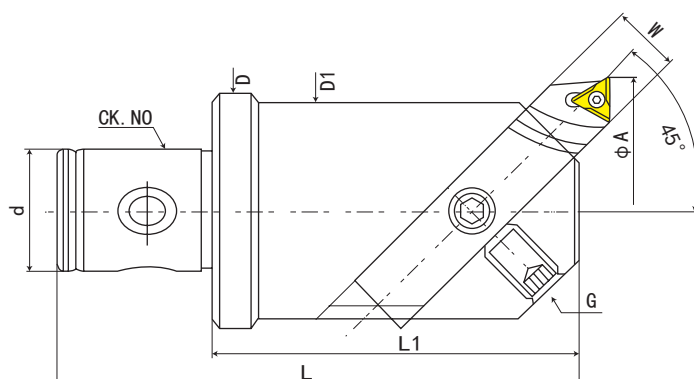
| 规格 / 型号<br>Model      | LBK 刀柄<br>LBK Shank | RBA-LA-C<br>镗头  | 镗孔<br>范围<br>Boring<br>Range | 有效<br>加工<br>深度<br>Z | 接合<br>型号<br>LBK<br>No | 全长<br>L | 刀杆<br>长<br>L1 | L2 | 镗头<br>长度<br>B | 刀杆<br>外径<br>φD1 | 重量<br>KGS |
|-----------------------|---------------------|-----------------|-----------------------------|---------------------|-----------------------|---------|---------------|----|---------------|-----------------|-----------|
| BT50-RBA19-LA-C-125L  | BT50-LBK1-90L       | RBA19-25-LA-C   | 19-25                       | 82                  | LBK1                  | 125     | 90            | 43 | 35            | 19              | 3.55      |
| BT50-RBA19-LA-C-150L  | BT50-LBK1-115L      | RBA19-25-LA-C   | 19-25                       | 107                 | LBK1                  | 150     | 115           | 43 | 35            | 19              | 3.65      |
| BT50-RBA19-LA-C-180L  | BT50-LBK1-145L      | RBA19-25-LA-C   | 19-25                       | 137                 | LBK1                  | 180     | 145           | 43 | 35            | 19              | 3.75      |
| BT50-RBA19-LA-C-210L  | BT50-LBK1-175L      | RBA19-25-LA-C   | 19-25                       | 167                 | LBK1                  | 210     | 175           | 43 | 35            | 19              | 3.85      |
| BT50-RBA25-LA-C-130L  | BT50-LBK2-90L       | RBA25-35-LA-C   | 25-35                       | 87                  | LBK2                  | 130     | 90            | 43 | 40            | 24              | 3.95      |
| BT50-RBA25-LA-C-150L  | BT50-LBK2-110L      | RBA25-35-LA-C   | 25-35                       | 107                 | LBK2                  | 150     | 110           | 43 | 40            | 24              | 4.15      |
| BT50-RBA25-LA-C-180L  | BT50-LBK2-140L      | RBA25-35-LA-C   | 25-35                       | 137                 | LBK2                  | 180     | 140           | 43 | 40            | 24              | 5.15      |
| BT50-RBA25-LA-C-215L  | BT50-LBK2-175L      | RBA25-35-LA-C   | 25-35                       | 172                 | LBK2                  | 215     | 175           | 43 | 40            | 24              | 4.35      |
| BT50-RBA32-LA-C-130L  | BT50-LBK3-90L       | RBA32-45-LA-C   | 32-45                       | 87                  | LBK3                  | 130     | 90            | 43 | 40            | 31              | 4.7       |
| BT50-RBA32-LA-C-165L  | BT50-LBK3-125L      | RBA32-45-LA-C   | 32-45                       | 122                 | LBK3                  | 165     | 125           | 43 | 40            | 31              | 4.7       |
| BT50-RBA32-LA-C-195L  | BT50-LBK3-155L      | RBA32-45-LA-C   | 32-45                       | 152                 | LBK3                  | 195     | 155           | 43 | 40            | 31              | 4.9       |
| BT50-RBA32-LA-C-225L  | BT50-LBK3-185L      | RBA32-45-LA-C   | 32-45                       | 182                 | LBK3                  | 225     | 185           | 43 | 40            | 31              | 4.7       |
| BT50-RBA32-LA-C-255L  | BT50-LBK3-215L      | RBA32-45-LA-C   | 32-45                       | 212                 | LBK3                  | 255     | 215           | 43 | 40            | 31              | 4.95      |
| BT50-RBA40-LA-C-140L  | BT50-LBK4-90L       | RBA40-55-LA-C   | 40-55                       | 97                  | LBK4                  | 140     | 90            | 43 | 50            | 39              | 5.2       |
| BT50-RBA40-LA-C-165L  | BT50-LBK4-115L      | RBA40-55-LA-C   | 40-55                       | 122                 | LBK4                  | 165     | 115           | 43 | 50            | 39              | 5.4       |
| BT50-RBA40-LA-C-195L  | BT50-LBK4-145L      | RBA40-55-LA-C   | 40-55                       | 152                 | LBK4                  | 195     | 145           | 43 | 50            | 39              | 5.8       |
| BT50-RBA40-LA-C-225L  | BT50-LBK4-175L      | RBA40-55-LA-C   | 40-55                       | 182                 | LBK4                  | 225     | 175           | 43 | 50            | 39              | 5.2       |
| BT50-RBA40-LA-C-255L  | BT50-LBK4-205L      | RBA40-55-LA-C   | 40-55                       | 212                 | LBK4                  | 255     | 205           | 43 | 50            | 39              | 5.45      |
| BT50-RBA40-LA-C-300L  | BT50-LBK4-250L      | RBA40-55-LA-C   | 40-55                       | 257                 | LBK4                  | 300     | 250           | 43 | 50            | 39              | 5.8       |
| BT50-RBA40-LA-C-350L  | BT50-LBK4-300L      | RBA40-55-LA-C   | 40-55                       | 307                 | LBK4                  | 350     | 300           | 43 | 50            | 39              | 6.1       |
| BT50-RBA40-LA-C-400L  | BT50-LBK4-350L      | RBA40-55-LA-C   | 40-55                       | 357                 | LBK4                  | 400     | 350           | 43 | 50            | 39              | 5.4       |
| BT50-RBA52-LA-C-150L  | BT50-LBK5-90L       | RBA52-75-LA-C   | 52-75                       | 107                 | LBK5                  | 150     | 90            | 43 | 60            | 50              | 6.4       |
| BT50-RBA52-LA-C-165L  | BT50-LBK5-105L      | RBA52-75-LA-C   | 52-75                       | 122                 | LBK5                  | 165     | 105           | 43 | 60            | 50              | 6.5       |
| BT50-RBA52-LA-C-210L  | BT50-LBK5-150L      | RBA52-75-LA-C   | 52-75                       | 167                 | LBK5                  | 210     | 150           | 43 | 60            | 50              | 7         |
| BT50-RBA52-LA-C-240L  | BT50-LBK5-180L      | RBA52-75-LA-C   | 52-75                       | 197                 | LBK5                  | 240     | 180           | 43 | 60            | 50              | 7.2       |
| BT50-RBA52-LA-C-300L  | BT50-LBK5-240L      | RBA52-75-LA-C   | 52-75                       | 257                 | LBK5                  | 300     | 240           | 43 | 60            | 50              | 7.4       |
| BT50-RBA52-LA-C-330L  | BT50-LBK5-270L      | RBA52-75-LA-C   | 52-75                       | 287                 | LBK5                  | 330     | 270           | 43 | 60            | 50              | 7.7       |
| BT50-RBA52-LA-C-360L  | BT50-LBK5-300L      | RBA52-75-LA-C   | 52-75                       | 317                 | LBK5                  | 360     | 300           | 43 | 60            | 50              | 8         |
| BT50-RBA52-LA-C-410L  | BT50-LBK5-350L      | RBA52-75-LA-C   | 52-75                       | 367                 | LBK5                  | 410     | 350           | 43 | 60            | 50              | 8.3       |
| BT50-RBA68-LA-C-165L  | BT50-LBK6-95L       | RBA68-110-LA-C  | 68-110                      | 122                 | LBK6                  | 165     | 95            | 43 | 70            | 63              | 8.4       |
| BT50-RBA68-LA-C-220L  | BT50-LBK6-150L      | RBA68-110-LA-C  | 68-110                      | 177                 | LBK6                  | 220     | 150           | 43 | 70            | 63              | 9         |
| BT50-RBA68-LA-C-240L  | BT50-LBK6-170L      | RBA68-110-LA-C  | 68-110                      | 197                 | LBK6                  | 240     | 170           | 43 | 70            | 63              | 8.8       |
| BT50-RBA68-LA-C-275L  | BT50-LBK6-205L      | RBA68-110-LA-C  | 68-110                      | 232                 | LBK6                  | 275     | 205           | 43 | 70            | 63              | 9.4       |
| BT50-RBA68-LA-C-300L  | BT50-LBK6-230L      | RBA68-110-LA-C  | 68-110                      | 257                 | LBK6                  | 300     | 230           | 43 | 70            | 63              | 9.95      |
| BT50-RBA68-LA-C-340L  | BT50-LBK6-270L      | RBA68-110-LA-C  | 68-110                      | 297                 | LBK6                  | 340     | 270           | 43 | 70            | 63              | 10.7      |
| BT50-RBA68-LA-C-370L  | BT50-LBK6-300L      | RBA68-110-LA-C  | 68-110                      | 327                 | LBK6                  | 370     | 300           | 43 | 70            | 63              | 12        |
| BT50-RBA68-LA-C-420L  | BT50-LBK6-350L      | RBA68-110-LA-C  | 68-110                      | 377                 | LBK6                  | 420     | 350           | 43 | 70            | 63              | 13.3      |
| BT50-RBA68-LA-C-470L  | BT50-LBK6-400L      | RBA68-110-LA-C  | 68-110                      | 427                 | LBK6                  | 470     | 400           | 43 | 70            | 63              | 14.3      |
| BT50-RBA68-LA-C-520L  | BT50-LBK6-450L      | RBA68-110-LA-C  | 68-110                      | 477                 | LBK6                  | 520     | 450           | 43 | 70            | 63              | 15.3      |
| BT50-RBA110-LA-C-170L | BT50-BST-100L       | RBA110-164-LA-C | 110-164                     | 127                 | BST                   | 170     | 100           | 43 | 70            | 95              | 9.95      |
| BT50-RBA110-LA-C-220L | BT50-BST-150L       | RBA110-164-LA-C | 110-164                     | 177                 | BST                   | 220     | 150           | 43 | 70            | 95              | 11.39     |
| BT50-RBA110-LA-C-270L | BT50-BST-200L       | RBA110-164-LA-C | 110-164                     | 227                 | BST                   | 270     | 200           | 43 | 70            | 95              | 12.87     |
| BT50-RBA110-LA-C-320L | BT50-BST-250L       | RBA110-164-LA-C | 110-164                     | 277                 | BST                   | 320     | 250           | 43 | 70            | 95              | 14.26     |
| BT50-RBA110-LA-C-370L | BT50-BST-300L       | RBA110-164-LA-C | 110-164                     | 327                 | BST                   | 370     | 300           | 43 | 70            | 95              | 16.8      |
| BT50-RBA110-LA-C-420L | BT50-BST-350L       | RBA110-164-LA-C | 110-164                     | 377                 | BST                   | 420     | 350           | 43 | 70            | 95              | 18.1      |
| BT50-RBA110-LA-C-470L | BT50-BST-400L       | RBA110-164-LA-C | 110-164                     | 427                 | BST                   | 470     | 400           | 43 | 70            | 95              | 19.4      |
| BT50-RBA110-LA-C-520L | BT50-BST-450L       | RBA110-164-LA-C | 110-164                     | 477                 | BST                   | 520     | 450           | 43 | 70            | 95              | 20.7      |
| BT50-RBA110-LA-C-570L | BT50-BST-500L       | RBA110-164-LA-C | 110-164                     | 527                 | BST                   | 570     | 500           | 43 | 70            | 95              | 22        |
| BT50-RBA160-LA-C-170L | BT50-BST-100L       | RBA160-204-LA-C | 160-204                     | 127                 | BST                   | 170     | 100           | 43 | 70            | 95              | 10.95     |
| BT50-RBA160-LA-C-220L | BT50-BST-150L       | RBA160-204-LA-C | 160-204                     | 177                 | BST                   | 220     | 150           | 43 | 70            | 95              | 12.39     |
| BT50-RBA160-LA-C-270L | BT50-BST-200L       | RBA160-204-LA-C | 160-204                     | 227                 | BST                   | 270     | 200           | 43 | 70            | 95              | 13.87     |
| BT50-RBA160-LA-C-320L | BT50-BST-250L       | RBA160-204-LA-C | 160-204                     | 277                 | BST                   | 320     | 250           | 43 | 70            | 95              | 15.26     |
| BT50-RBA160-LA-C-370L | BT50-BST-300L       | RBA160-204-LA-C | 160-204                     | 327                 | BST                   | 370     | 300           | 43 | 70            | 95              | 17.8      |
| BT50-RBA160-LA-C-420L | BT50-BST-350L       | RBA160-204-LA-C | 160-204                     | 377                 | BST                   | 420     | 350           | 43 | 70            | 95              | 19.1      |
| BT50-RBA160-LA-C-470L | BT50-BST-400L       | RBA160-204-LA-C | 160-204                     | 427                 | BST                   | 470     | 400           | 43 | 70            | 95              | 20.4      |
| BT50-RBA160-LA-C-520L | BT50-BST-450L       | RBA160-204-LA-C | 160-204                     | 477                 | BST                   | 520     | 450           | 43 | 70            | 95              | 21.7      |
| BT50-RBA160-LA-C-570L | BT50-BST-500L       | RBA160-204-LA-C | 160-204                     | 527                 | BST                   | 570     | 500           | 43 | 70            | 95              | 23        |



镗孔刀具系列  
BORING HEAD

## CK-BSA-45°盲孔粗镗刀头

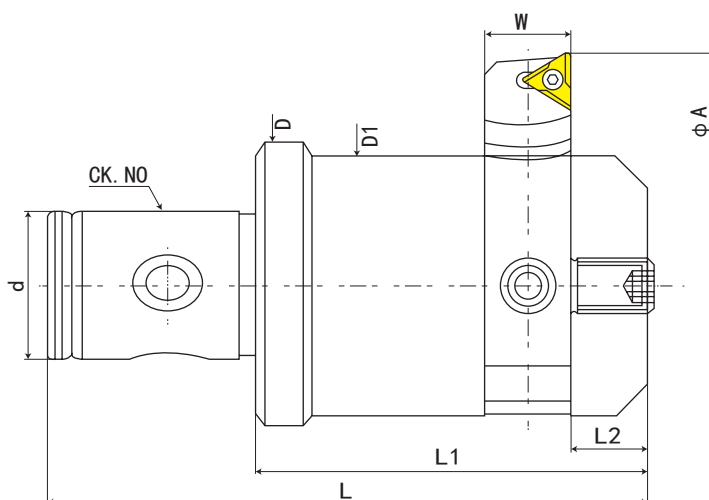
## CK-BSA-45° BLIND HOLE ROUGH BORING



| 规格 / 型号 Model | CK.NO | 镗孔范围 Boring Range |        | 尺寸 Size |    |   |    |    |     |     |           |
|---------------|-------|-------------------|--------|---------|----|---|----|----|-----|-----|-----------|
|               |       | φA min            | φA max | D       | D1 | d | L  | L1 | E   | □ W | G         |
| BSA30-CK2     |       | 30                | 42     | 24      | 24 |   | 40 |    | 1.6 | 8   | M6*1.00P  |
| BSA38-CK3     |       | 38                | 52     | 31      | 60 |   | 60 |    | 2.6 | 10  | M8*1.25P  |
| BSA50-CK4     |       | 50                | 65     | 42      | 40 |   | 70 |    | 3   | 13  | M10*1.50P |
| BSA62-CK5     |       | 62                | 90     | 55      | 50 |   | 85 |    | 2   | 16  | M12*1.75P |
| BSA72-CK6     |       | 72                | 110    | 63      | 60 |   | 98 |    | 2.4 | 19  | M12*1.75P |

## CK-BSB-90° 通孔粗镗刀头

## CK-BSB-90° THROUGH HOLE ROUGH BORING



| 规格 / 型号 Model | CK.NO | 镗孔范围 Boring Range |        | 尺寸 Size |    |   |    |    |    |     |           |
|---------------|-------|-------------------|--------|---------|----|---|----|----|----|-----|-----------|
|               |       | φA min            | φA max | D       | D1 | d | L  | L1 | L2 | □ W | G         |
| BSB25-CK2     |       | 26                | 52     | 24      | 20 |   | 45 |    |    | 8   | M6*1.00P  |
| BSB38-CK3     |       | 38                | 70     | 31      | 30 |   | 55 |    |    | 10  | M8*1.25P  |
| BSB50-CK4     |       | 50                | 90     | 42      | 40 |   | 60 |    |    | 13  | M10*1.50P |
| BSB62-CK5     |       | 62                | 115    | 55      | 50 |   | 70 |    |    | 16  | M12*1.75P |
| BSB72-CK6     |       | 72                | 135    | 63      | 60 |   | 85 |    |    | 19  | M12*1.75P |