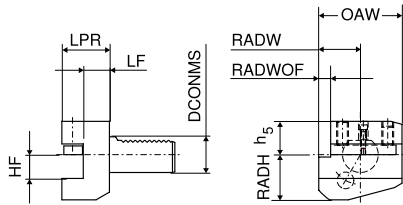
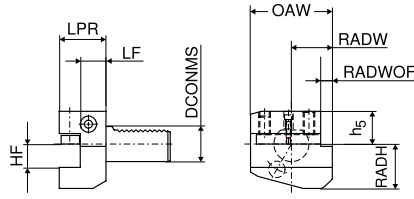


## Radial tool holders, short



B2



B1



B2

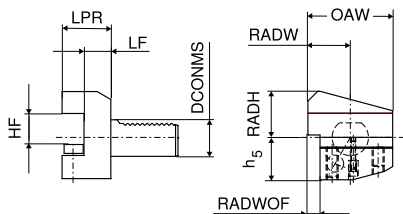


B1

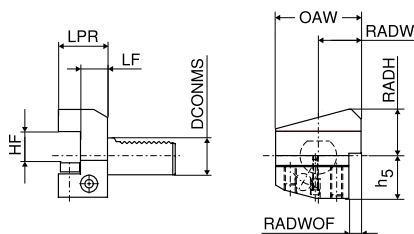
| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | OAW | RADW | RADWOF | h <sub>5</sub> | RADH | LF <sub>0/+0,5</sub> | LPR | Left-hand<br>Y8<br>Article no.<br>82 189 ...<br>EUR | Right-hand<br>Y8<br>Article no.<br>82 185 ...<br>EUR |
|----------------------|----------------------|-----|------|--------|----------------|------|----------------------|-----|-----------------------------------------------------|------------------------------------------------------|
| 16                   | 12                   | 42  | 23,0 | 5,0    | 20,0           | 22   | 13,0                 | 24  | 142,60                                              | 160                                                  |
| 16                   | 12                   | 42  | 23,0 | 5,0    | 20,0           | 22   | 23,0                 | 34  | 117,40                                              | 161                                                  |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 16,0                 | 30  | 110,10                                              | 200                                                  |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 26,0                 | 40  | 115,40                                              | 201                                                  |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 18,0                 | 30  | 317,80                                              | 202 <sup>1)</sup>                                    |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 25,5                 | 40  |                                                     | 203 <sup>1)</sup>                                    |
| 25                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 16,0                 | 30  | 188,70                                              | 250                                                  |
| 30                   | 20                   | 70  | 35,0 | 10,0   | 28,0           | 38   | 18,5                 | 40  | 118,50                                              | 300                                                  |
| 30                   | 20                   | 70  | 35,0 | 10,0   | 28,0           | 35   | 32,0                 | 50  |                                                     | 302 <sup>1)</sup>                                    |
| 30                   | 20                   | 70  | 35,0 | 10,0   | 28,0           | 38   | 42,0                 | 60  | 148,90                                              | 301                                                  |
| 40                   | 25                   | 85  | 42,5 | 12,5   | 32,5           | 48   | 18,5                 | 44  | 120,60                                              | 400                                                  |
| 50                   | 32                   | 100 | 50,0 | 16,0   | 35,0           | 60   | 30,0                 | 55  | 185,60                                              | 500                                                  |

1) Height adjustable +/- 1 mm

## Radial tool holders, overhead, short



B4



B3



B4

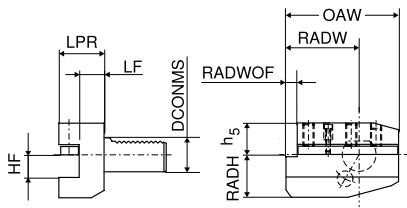


B3

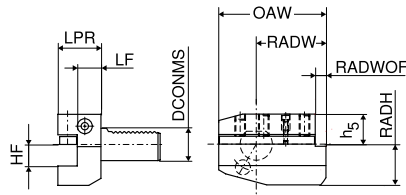
| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | OAW | RADW | RADWOF | h <sub>5</sub> | RADH | LF <sub>0/+0,5</sub> | LPR | Left-hand<br>Y8<br>Article no.<br>82 196 ...<br>EUR | Right-hand<br>Y8<br>Article no.<br>82 193 ...<br>EUR |
|----------------------|----------------------|-----|------|--------|----------------|------|----------------------|-----|-----------------------------------------------------|------------------------------------------------------|
| 16                   | 12                   | 42  | 23,0 | 5,0    | 20,0           | 22   | 13,0                 | 24  |                                                     | 109,10                                               |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 16,0                 | 30  | 115,40                                              | 200                                                  |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 26,0                 | 40  | 195,00                                              | 201                                                  |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 18,5                 | 30  | 386,90                                              | 202 <sup>1)</sup>                                    |
| 20                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 26,0                 | 40  | 535,80                                              | 203 <sup>1)</sup>                                    |
| 25                   | 16                   | 55  | 30,0 | 7,0    | 25,0           | 30   | 16,0                 | 30  | 188,70                                              | 250                                                  |
| 30                   | 20                   | 70  | 35,0 | 10,0   | 35,0           | 38   | 42,0                 | 60  | 148,90                                              | 301                                                  |
| 30                   | 20                   | 70  | 35,0 | 10,0   | 35,0           | 38   | 18,5                 | 40  | 120,60                                              | 300                                                  |
| 40                   | 25                   | 85  | 42,5 | 12,5   | 42,5           | 48   | 18,5                 | 44  | 122,70                                              | 400                                                  |
| 50                   | 32                   | 100 | 50,0 | 16,0   | 50,0           | 60   | 30,0                 | 55  | 185,60                                              | 500                                                  |

1) Height adjustable +/- 1 mm

## Radial tool holders, long



B6



B5

B6

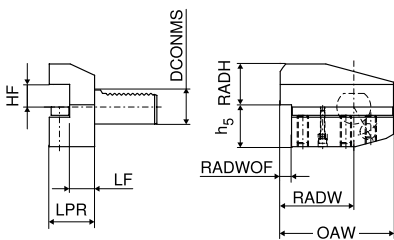
B5



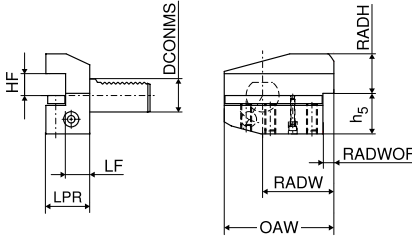
| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | OAW | RADW | RADWOF | h <sub>5</sub> | RADH | LF <sub>0/+0,5</sub> | LPR | Left-hand<br>Y8<br>Article no.<br>82 202 ...<br>EUR | Right-hand<br>Y8<br>Article no.<br>82 199 ...<br>EUR |
|----------------------|----------------------|-----|------|--------|----------------|------|----------------------|-----|-----------------------------------------------------|------------------------------------------------------|
| 20                   | 16                   | 75  | 50,0 | 7,0    | 25,0           | 30   | 16,0                 | 30  | 148,90                                              | 162,60                                               |
| 20                   | 16                   | 75  | 50,0 | 7,0    | 25,0           | 30   | 26,0                 | 40  | 143,70                                              | 152,10                                               |
| 20                   | 16                   | 75  | 50,0 | 7,0    | 25,0           | 30   | 18,0                 | 30  |                                                     | 382,70                                               |
| 30                   | 20                   | 100 | 65,0 | 10,0   | 28,0           | 38   | 18,5                 | 40  | 138,40                                              | 134,20                                               |
| 30                   | 20                   | 100 | 65,0 | 10,0   | 28,0           | 38   | 42,0                 | 60  | 160,40                                              | 272,60                                               |
| 40                   | 25                   | 118 | 75,5 | 12,5   | 32,5           | 48   | 18,5                 | 44  | 136,30                                              | 139,40                                               |
| 50                   | 32                   | 130 | 80,0 | 16,0   | 35,0           | 60   | 30,0                 | 55  | 209,70                                              | 216,00                                               |

1) Height adjustable +/- 1 mm

## Radial tool holders, overhead, long



B8



B7

B8

B7

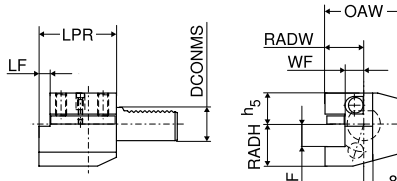
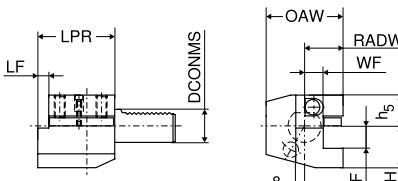


| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | OAW | RADW | RADWOF | h <sub>5</sub> | RADH | LF <sub>0/+0,5</sub> | LPR | Left-hand<br>Y8<br>Article no.<br>82 208 ...<br>EUR | Right-hand<br>Y8<br>Article no.<br>82 205 ...<br>EUR |
|----------------------|----------------------|-----|------|--------|----------------|------|----------------------|-----|-----------------------------------------------------|------------------------------------------------------|
| 20                   | 16                   | 75  | 50,0 | 7,0    | 25,0           | 30   | 16,0                 | 30  | 158,40                                              | 132,10                                               |
| 20                   | 16                   | 75  | 50,0 | 7,0    | 25,0           | 30   | 26,0                 | 40  |                                                     | 205,50                                               |
| 20                   | 16                   | 75  | 50,0 | 7,0    | 25,0           | 30   | 18,0                 | 30  |                                                     | 382,70                                               |
| 30                   | 20                   | 100 | 65,0 | 10,0   | 35,0           | 38   | 18,5                 | 40  | 122,70                                              | 138,40                                               |
| 30                   | 20                   | 100 | 65,0 | 10,0   | 35,0           | 38   | 42,0                 | 60  |                                                     | 162,60                                               |
| 40                   | 25                   | 118 | 75,5 | 12,5   | 42,5           | 48   | 18,5                 | 44  | 138,40                                              | 139,40                                               |
| 50                   | 32                   | 130 | 80,0 | 16,0   | 50,0           | 60   | 30,0                 | 55  | 194,00                                              | 220,20                                               |

1) Height adjustable +/- 1 mm

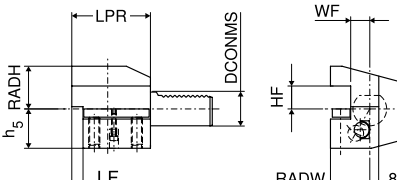
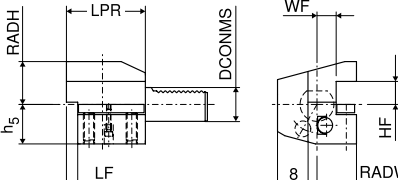
Spare parts can be found in → Chapter 17, Accessories

## Axial tool holders

|                      |                      |     |      |                      |                |      |     |      |        | C2                                                                                  |        | C1                                                                                  |     |
|----------------------|----------------------|-----|------|----------------------|----------------|------|-----|------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-----|
|                      |                      |     |      |                      |                |      |     |      |        |    |        |   |     |
|                      |                      |     |      |                      |                |      |     |      |        |  |        |  |     |
|                      |                      |     |      |                      |                |      |     |      |        | Left-hand<br>Y8                                                                     |        | Right-hand<br>Y8                                                                    |     |
|                      |                      |     |      |                      |                |      |     |      |        | Article no.<br>82 214 ...                                                           |        | Article no.<br>82 211 ...                                                           |     |
|                      |                      |     |      |                      |                |      |     |      |        | EUR                                                                                 |        | EUR                                                                                 |     |
| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | OAW | RADW | WF <sub>0/+0,3</sub> | h <sub>5</sub> | RADH | LPR | LF   |        |                                                                                     |        |                                                                                     |     |
| mm                   | mm                   | mm  | mm   | mm                   | mm             | mm   | mm  | mm   |        |                                                                                     |        |                                                                                     |     |
| 16                   | 12                   | 43  | 24,0 | 13,0                 | 20,0           | 22   | 44  | 5,0  |        |                                                                                     |        | 131,10                                                                              | 160 |
| 20                   | 16                   | 65  | 40,0 | 26,0                 | 25,0           | 30   | 50  |      | 135,30 | 200                                                                                 | 138,40 | 201                                                                                 |     |
| 20                   | 16                   | 65  | 40,0 | 25,5                 | 25,0           | 30   | 50  |      |        |                                                                                     | 393,20 | 202                                                                                 | 1)  |
| 20                   | 16                   | 52  | 27,0 | 13,0                 | 25,0           | 30   | 55  | 7,0  |        |                                                                                     | 136,30 | 200                                                                                 |     |
| 25                   | 16                   | 58  | 33,0 | 19,0                 | 25,0           | 30   | 55  | 7,0  | 138,40 | 250                                                                                 | 139,40 | 250                                                                                 |     |
| 30                   | 20                   | 70  | 35,0 | 17,0                 | 28,0           | 38   | 70  | 10,0 |        |                                                                                     | 124,80 | 300                                                                                 |     |
| 30                   | 20                   | 76  | 41,0 | 23,0                 | 28,0           | 38   | 70  | 10,0 | 133,20 | 300                                                                                 |        |                                                                                     |     |
| 40                   | 25                   | 90  | 47,5 | 25,5                 | 32,5           | 48   | 85  | 12,5 | 146,80 | 400                                                                                 |        |                                                                                     |     |
| 40                   | 25                   | 85  | 42,5 | 20,5                 | 32,5           | 48   | 85  | 12,5 |        |                                                                                     | 142,60 | 400                                                                                 |     |
| 50                   | 32                   | 100 | 50,0 | 25,5                 | 35,0           | 60   | 100 | 16,0 |        |                                                                                     | 211,80 | 500                                                                                 |     |
| 50                   | 32                   | 105 | 55,0 | 30,5                 | 35,0           | 60   | 100 | 16,0 | 224,40 | 500                                                                                 |        |                                                                                     |     |

1) Height adjustable +/- 1 mm

## Axial tool holders, overhead

|                      |                      |     |      |                      |                |      |     |      |        | C4                                                                                    |        | C3                                                                                    |     |
|----------------------|----------------------|-----|------|----------------------|----------------|------|-----|------|--------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|-----|
|                      |                      |     |      |                      |                |      |     |      |        |    |        |   |     |
|                      |                      |     |      |                      |                |      |     |      |        |  |        |  |     |
|                      |                      |     |      |                      |                |      |     |      |        | Left-hand<br>Y8                                                                       |        | Right-hand<br>Y8                                                                      |     |
|                      |                      |     |      |                      |                |      |     |      |        | Article no.<br>82 220 ...                                                             |        | Article no.<br>82 217 ...                                                             |     |
|                      |                      |     |      |                      |                |      |     |      |        | EUR                                                                                   |        | EUR                                                                                   |     |
| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | OAW | RADW | WF <sub>0/+0,3</sub> | h <sub>5</sub> | RADH | LPR | LF   |        |                                                                                       |        |                                                                                       |     |
| mm                   | mm                   | mm  | mm   | mm                   | mm             | mm   | mm  | mm   |        |                                                                                       |        |                                                                                       |     |
| 16                   | 12                   | 43  | 24,0 | 13,0                 | 20,0           | 22   | 44  | 5,0  |        |                                                                                       |        | 140,60                                                                                | 160 |
| 20                   | 16                   | 65  | 40,0 | 26,0                 | 25,0           | 30   | 50  |      | 143,70 | 200                                                                                   | 153,10 | 201                                                                                   |     |
| 20                   | 16                   | 65  | 40,0 | 25,5                 | 30,0           | 25   | 50  |      |        |                                                                                       | 492,80 | 202                                                                                   | 1)  |
| 20                   | 16                   | 65  | 40,0 | 25,5                 | 25,0           | 30   | 50  |      | 466,70 | 201                                                                                   |        |                                                                                       |     |
| 20                   | 16                   | 52  | 27,0 | 13,0                 | 25,0           | 30   | 55  | 7,0  |        |                                                                                       | 157,30 | 200                                                                                   |     |
| 25                   | 16                   | 58  | 33,0 | 19,0                 | 25,0           | 30   | 55  | 7,0  | 152,10 | 250                                                                                   | 152,10 | 250                                                                                   |     |
| 30                   | 20                   | 70  | 35,0 | 17,0                 | 35,0           | 38   | 70  | 10,0 |        |                                                                                       | 127,90 | 300                                                                                   |     |
| 30                   | 20                   | 76  | 41,0 | 23,0                 | 35,0           | 38   | 70  | 10,0 | 133,20 | 300                                                                                   |        |                                                                                       |     |
| 40                   | 25                   | 85  | 42,5 | 20,5                 | 42,5           | 48   | 85  | 12,5 |        |                                                                                       | 146,80 | 400                                                                                   |     |
| 40                   | 25                   | 90  | 47,5 | 25,5                 | 42,5           | 48   | 85  | 12,5 | 146,80 | 400                                                                                   |        |                                                                                       |     |
| 50                   | 32                   | 100 | 50,0 | 25,5                 | 50,0           | 60   | 100 | 16,0 |        |                                                                                       | 215,00 | 500                                                                                   |     |
| 50                   | 32                   | 105 | 55,0 | 30,5                 | 50,0           | 60   | 100 | 16,0 | 183,50 | 500                                                                                   |        |                                                                                       |     |

1) Height adjustable +/- 1 mm

 Spare parts can be found in → **Chapter 17, Accessories**

## Multiple tool holders

**D1**

**D2**

D1

D2

| DCONMS <sub>h6</sub> | HF <sub>0/-0,1</sub> | RADW | WF <sub>0/+0,3</sub> | WF2 <sub>0/+0,3</sub> | OAW | h <sub>5</sub> | RADH | LF <sub>0/+0,5</sub> | LPR | Y8<br>Article no.<br>82 222 ...<br>EUR | Y8<br>Article no.<br>82 224 ...<br>EUR |
|----------------------|----------------------|------|----------------------|-----------------------|-----|----------------|------|----------------------|-----|----------------------------------------|----------------------------------------|
| mm                   | mm                   | mm   | mm                   | mm                    | mm  | mm             | mm   | mm                   | mm  |                                        |                                        |
| 25                   | 16                   | 33,0 | 19,0                 | 19,0                  | 66  | 22,0           | 30   | 34                   | 48  | 291,50                                 | 250                                    |
| 25                   | 16                   | 33,0 | 19,0                 | 19,0                  | 66  | 25,0           | 30   | 34                   | 48  |                                        | 311,40                                 |
| 30                   | 20                   | 35,0 | 17,0                 | 23,0                  | 76  | 28,0           | 38   | 42                   | 60  | 295,70                                 | 300                                    |
| 30                   | 20                   | 35,0 | 17,0                 | 23,0                  | 76  | 35,0           | 38   | 42                   | 60  |                                        | 295,70                                 |
| 40                   | 25                   | 42,5 | 20,5                 | 25,5                  | 90  | 32,5           | 48   | 50                   | 72  | 311,40                                 | 400                                    |
| 40                   | 25                   | 42,5 | 20,5                 | 25,5                  | 90  | 42,5           | 48   | 50                   | 72  |                                        | 311,40                                 |

## Cylindrical tool holders

- ▲ For tools with cylindrical shank to DIN 6535 and DIN 1835 Form E (Whistle Notch)
- ▲ Coolant supply either centrally through the tool or via the adjustable ball spray nozzles

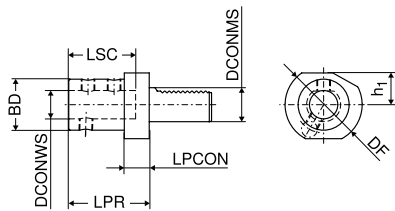
E

| DCONMS <sub>h6</sub> | DCONWS | DF | BD | h <sub>1</sub> | LPR | LPCON | LSC | Y8<br>Article no.<br>83 269 ...<br>EUR |
|----------------------|--------|----|----|----------------|-----|-------|-----|----------------------------------------|
| mm                   | mm     | mm | mm | mm             | mm  | mm    | mm  |                                        |
| 20                   | 6      | 50 | 45 | 23,0           | 60  | 22    | 40  | 136,30                                 |
| 20                   | 8      | 50 | 45 | 23,0           | 60  | 22    | 40  | 131,10                                 |
| 20                   | 10     | 50 | 45 | 23,0           | 60  | 22    | 44  | 131,10                                 |
| 20                   | 12     | 50 | 45 | 23,0           | 60  | 22    | 49  | 131,10                                 |
| 20                   | 14     | 50 | 45 | 23,0           | 62  | 22    | 49  | 131,10                                 |
| 20                   | 16     | 50 | 45 | 23,0           | 67  | 22    | 52  | 126,90                                 |
| 20                   | 18     | 50 | 45 | 23,0           | 67  | 22    | 52  | 126,90                                 |
| 20                   | 20     | 50 | 45 | 23,0           | 67  | 22    | 52  | 126,90                                 |
| 30                   | 6      | 68 | 52 | 28,0           | 67  | 22    | 35  | 142,60                                 |
| 30                   | 8      | 68 | 52 | 28,0           | 67  | 22    | 35  | 135,30                                 |
| 30                   | 10     | 68 | 52 | 28,0           | 67  | 22    | 39  | 135,30                                 |
| 30                   | 12     | 68 | 52 | 28,0           | 67  | 22    | 44  | 135,30                                 |
| 30                   | 14     | 68 | 52 | 28,0           | 67  | 22    | 44  | 135,30                                 |
| 30                   | 16     | 68 | 52 | 28,0           | 67  | 22    | 47  | 131,10                                 |
| 30                   | 18     | 68 | 52 | 28,0           | 67  | 22    | 47  | 135,30                                 |
| 30                   | 20     | 68 | 52 | 28,0           | 67  | 22    | 52  | 131,10                                 |
| 40                   | 6      | 83 | 52 | 32,5           | 67  | 22    | 35  | 158,40                                 |
| 40                   | 8      | 83 | 52 | 32,5           | 67  | 22    | 35  | 153,10                                 |
| 40                   | 10     | 83 | 52 | 32,5           | 67  | 22    | 39  | 153,10                                 |
| 40                   | 12     | 83 | 52 | 32,5           | 67  | 22    | 44  | 153,10                                 |
| 40                   | 14     | 83 | 52 | 32,5           | 67  | 22    | 44  | 153,10                                 |
| 40                   | 16     | 83 | 52 | 32,5           | 67  | 22    | 47  | 147,90                                 |
| 40                   | 18     | 83 | 52 | 32,5           | 67  | 22    | 47  | 147,90                                 |
| 40                   | 20     | 83 | 52 | 32,5           | 67  | 22    | 52  | 147,90                                 |

Cylindrical tool holders for indexable insert drills

▲ For drilling tools with internal coolant supply

E1



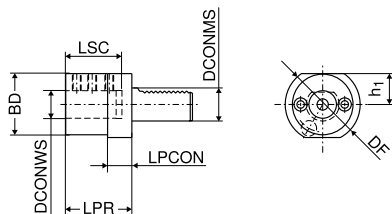
|                      |                      |    |    |                |     |       |     | Y8          |
|----------------------|----------------------|----|----|----------------|-----|-------|-----|-------------|
|                      |                      |    |    |                |     |       |     | Article no. |
|                      |                      |    |    |                |     |       |     | 82 274 ...  |
| DCONMS <sub>h6</sub> | DCONWS <sub>H6</sub> | DF | BD | h <sub>1</sub> | LPR | LPCON | LSC | EUR         |
| mm                   | mm                   | mm | mm | mm             | mm  | mm    | mm  |             |
| 20                   | 16                   | 50 | 36 | 23,0           | 67  | 18    | 54  | 104,30 200  |
| 20                   | 20                   | 50 | 40 | 23,0           | 67  | 18    | 54  | 104,30 201  |
| 20                   | 25                   | 50 | 45 | 23,0           | 71  | 18    | 59  | 104,30 202  |
| 25                   | 16                   | 58 | 36 | 25,0           | 67  | 18    | 54  | 141,60 250  |
| 25                   | 20                   | 58 | 40 | 25,0           | 67  | 18    | 54  | 141,60 251  |
| 25                   | 25                   | 58 | 45 | 25,0           | 71  | 18    | 59  | 141,60 252  |
| 30                   | 16                   | 68 | 36 | 28,0           | 67  | 22    | 54  | 96,67 300   |
| 30                   | 20                   | 68 | 40 | 28,0           | 67  | 22    | 54  | 96,67 301   |
| 30                   | 25                   | 68 | 45 | 28,0           | 71  | 22    | 59  | 96,67 302   |
| 30                   | 32                   | 68 | 52 | 28,0           | 75  | 22    | 63  | 96,67 303   |
| 30                   | 40                   | 68 | 60 | 28,0           | 87  | 22    | 73  | 103,90 304  |
| 40                   | 16                   | 83 | 36 | 32,5           | 67  | 22    | 54  | 110,10 400  |
| 40                   | 20                   | 83 | 40 | 32,5           | 67  | 22    | 54  | 110,10 401  |
| 40                   | 25                   | 83 | 45 | 32,5           | 75  | 22    | 59  | 110,10 402  |
| 40                   | 32                   | 83 | 52 | 32,5           | 75  | 22    | 63  | 110,10 403  |
| 40                   | 40                   | 83 | 60 | 32,5           | 90  | 22    | 73  | 110,10 404  |
| 50                   | 20                   | 98 | 40 | 35,0           | 80  | 30    | 54  | 154,10 500  |
| 50                   | 25                   | 98 | 45 | 35,0           | 80  | 30    | 59  | 154,10 501  |
| 50                   | 32                   | 98 | 52 | 35,0           | 80  | 30    | 63  | 154,10 502  |
| 50                   | 40                   | 98 | 60 | 35,0           | 90  | 30    | 73  | 154,10 503  |
| 50                   | 50                   | 98 | 70 | 35,0           | 100 | 30    | 83  | 113,30 504  |

 Spare parts can be found in → Chapter 17, Accessories

## Boring bar holder

- ▲ For turning tools with cylindrical shank
- ▲ Coolant supply either through the tool or via the ball-shaped spray nozzle

E2



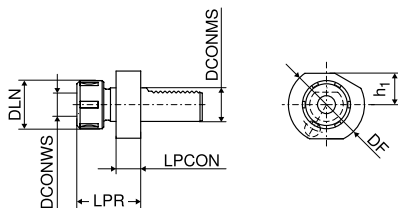
|                      |                      |    |    |                |     |       |     | Y8                       |
|----------------------|----------------------|----|----|----------------|-----|-------|-----|--------------------------|
|                      |                      |    |    |                |     |       |     | Article no.              |
|                      |                      |    |    |                |     |       |     | 82 268 ...               |
| DCONMS <sub>h6</sub> | DCONWS <sub>H7</sub> | DF | BD | h <sub>1</sub> | LPR | LPCON | LSC | EUR                      |
| mm                   | mm                   | mm | mm | mm             | mm  | mm    | mm  |                          |
| 16                   | 6                    | 40 | 32 | 18,0           | 44  | 13    | 34  | 125,90 160 <sup>1)</sup> |
| 16                   | 8                    | 40 | 32 | 18,0           | 44  | 13    | 34  | 106,90 161 <sup>1)</sup> |
| 16                   | 10                   | 40 | 32 | 18,0           | 44  | 13    | 34  | 106,90 162 <sup>1)</sup> |
| 16                   | 12                   | 40 | 40 | 18,0           | 44  | 13    | 34  | 106,90 163 <sup>1)</sup> |
| 16                   | 16                   | 40 | 40 | 18,0           | 44  | 13    | 34  | 106,90 164 <sup>1)</sup> |
| 20                   | 8                    | 50 | 40 | 23,0           | 50  | 18    | 41  | 112,20 200               |
| 20                   | 10                   | 50 | 40 | 23,0           | 50  | 18    | 41  | 112,20 201               |
| 20                   | 12                   | 50 | 40 | 23,0           | 50  | 18    | 41  | 112,20 202               |
| 20                   | 16                   | 50 | 40 | 23,0           | 50  | 18    | 41  | 112,20 203               |
| 20                   | 20                   | 50 | 50 | 23,0           | 50  | 18    | 41  | 112,20 204               |
| 20                   | 25                   | 50 | 50 | 23,0           | 60  | 18    | 51  | 112,20 205               |
| 25                   | 8                    | 58 | 40 | 25,0           | 50  | 18    | 41  | 128,90 250               |
| 25                   | 10                   | 58 | 40 | 25,0           | 50  | 18    | 41  | 128,90 251               |
| 25                   | 12                   | 58 | 40 | 25,0           | 50  | 18    | 41  | 128,90 252               |
| 25                   | 16                   | 58 | 40 | 25,0           | 50  | 18    | 41  | 128,90 253               |
| 25                   | 20                   | 58 | 58 | 25,0           | 50  | 18    | 41  | 128,90 254               |
| 25                   | 25                   | 58 | 58 | 25,0           | 60  | 18    | 51  | 128,90 255               |
| 30                   | 8                    | 68 | 55 | 28,0           | 60  | 22    | 51  | 110,10 300               |
| 30                   | 10                   | 68 | 55 | 28,0           | 60  | 22    | 51  | 110,10 301               |
| 30                   | 12                   | 68 | 55 | 28,0           | 60  | 22    | 51  | 110,10 302               |
| 30                   | 16                   | 68 | 55 | 28,0           | 60  | 22    | 51  | 110,10 303               |
| 30                   | 20                   | 68 | 55 | 28,0           | 60  | 22    | 51  | 110,10 304               |
| 30                   | 25                   | 68 | 55 | 28,0           | 60  | 22    | 51  | 110,10 305               |
| 30                   | 32                   | 68 | 68 | 28,0           | 75  | 22    | 61  | 110,10 306               |
| 40                   | 8                    | 83 | 55 | 32,5           | 75  | 22    | 61  | 112,20 400               |
| 40                   | 10                   | 83 | 55 | 32,5           | 75  | 22    | 61  | 112,20 401               |
| 40                   | 12                   | 83 | 55 | 32,5           | 75  | 22    | 61  | 112,20 402               |
| 40                   | 16                   | 83 | 55 | 32,5           | 75  | 22    | 61  | 112,20 403               |
| 40                   | 20                   | 83 | 55 | 32,5           | 75  | 22    | 61  | 112,20 404               |
| 40                   | 25                   | 83 | 55 | 32,5           | 75  | 22    | 61  | 112,20 405               |
| 40                   | 32                   | 83 | 83 | 32,5           | 75  | 22    | 61  | 112,20 406               |
| 40                   | 40                   | 83 | 83 | 32,5           | 90  | 22    | 76  | 112,20 407               |
| 50                   | 12                   | 98 | 68 | 35,0           | 90  | 30    | 76  | 160,40 500               |
| 50                   | 16                   | 98 | 68 | 35,0           | 90  | 30    | 76  | 160,40 501               |
| 50                   | 20                   | 98 | 68 | 35,0           | 90  | 30    | 76  | 160,40 502               |
| 50                   | 25                   | 98 | 68 | 35,0           | 90  | 30    | 76  | 153,10 503               |
| 50                   | 32                   | 98 | 68 | 35,0           | 90  | 30    | 76  | 153,10 504               |
| 50                   | 40                   | 98 | 98 | 35,0           | 90  | 30    | 76  | 153,10 505               |
| 50                   | 50                   | 98 | 98 | 35,0           | 100 | 30    | 86  | 153,10 506               |

1) Coolant supply through pipe joint

**i** Spare parts + accessories can be found in → **Chapter 17, Accessories**

## OZ-Collet chuck

E3

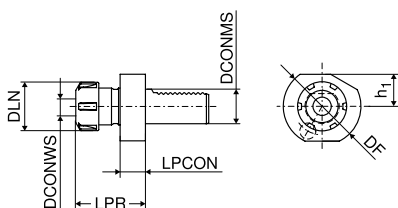


| DCONMS <sub>h6</sub> | DCONWS | DF | DLN | h <sub>1</sub> | LPR | LPCON | for collet       | Y8          |     |
|----------------------|--------|----|-----|----------------|-----|-------|------------------|-------------|-----|
|                      |        |    |     |                |     |       |                  | Article no. |     |
| mm                   | mm     | mm | mm  | mm             | mm  | mm    |                  | 82 285 ...  |     |
| 20                   | 2 - 16 | 50 | 43  | 23,0           | 57  | 18    | 415E / 421E (OZ) | EUR 170,90  | 202 |
| 30                   | 2 - 16 | 68 | 43  | 28,0           | 57  | 22    | 415E / 421E (OZ) | EUR 165,70  | 301 |
| 30                   | 2 - 25 | 68 | 60  | 28,0           | 75  | 22    | 459E / 462E (OZ) | EUR 165,70  | 302 |
| 40                   | 2 - 25 | 83 | 60  | 32,5           | 75  | 22    | 459E / 462E (OZ) | EUR 174,10  | 402 |
| 40                   | 4 - 32 | 83 | 72  | 32,5           | 90  | 22    | 460E / 467E (OZ) | EUR 179,40  | 403 |
| 50                   | 2 - 25 | 98 | 60  | 35,0           | 75  | 30    | 459E / 462E (OZ) | EUR 266,30  | 500 |
| 50                   | 4 - 32 | 98 | 72  | 35,0           | 90  | 30    | 460E / 467E (OZ) | EUR 266,30  | 501 |

**i** Collets can be found on → **Page 217+218.**

## ER Collet chucks

E4



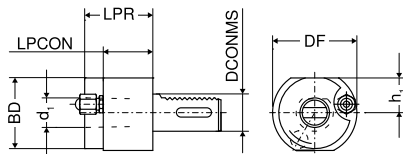
| DCONMS <sub>h6</sub> | DCONWS | DF | DLN | h <sub>1</sub> | LPR  | LPCON | for collet  | Y8          |     |
|----------------------|--------|----|-----|----------------|------|-------|-------------|-------------|-----|
|                      |        |    |     |                |      |       |             | Article no. |     |
| mm                   | mm     | mm | mm  | mm             | mm   | mm    |             | 82 286 ...  |     |
| 16                   | 1 - 10 | 40 | 28  | 18,0           | 45,5 | 14    | 426E (ER16) | EUR 151,00  | 160 |
| 16                   | 1 - 13 | 40 | 34  | 18,0           | 44,0 | 14    | 428E (ER20) | EUR 148,90  | 161 |
| 20                   | 1 - 16 | 50 | 42  | 23,0           | 57,0 | 18    | 430E (ER25) | EUR 152,10  | 202 |
| 20                   | 2 - 20 | 50 | 50  | 23,0           | 62,0 | 18    | 470E (ER32) | EUR 156,20  | 203 |
| 25                   | 1 - 16 | 58 | 42  | 25,0           | 57,0 | 18    | 430E (ER25) | EUR 221,20  | 250 |
| 25                   | 2 - 20 | 58 | 50  | 25,0           | 62,0 | 18    | 470E (ER32) | EUR 223,40  | 251 |
| 30                   | 1 - 16 | 68 | 42  | 28,0           | 57,0 | 22    | 430E (ER25) | EUR 135,30  | 300 |
| 30                   | 2 - 20 | 68 | 50  | 28,0           | 75,0 | 22    | 470E (ER32) | EUR 138,40  | 301 |
| 40                   | 1 - 16 | 83 | 42  | 32,5           | 63,0 | 22    | 430E (ER25) | EUR 153,10  | 400 |
| 40                   | 2 - 20 | 83 | 50  | 32,5           | 75,0 | 22    | 470E (ER32) | EUR 153,10  | 401 |
| 40                   | 3 - 26 | 83 | 63  | 32,5           | 75,0 | 22    | 472E (ER40) | EUR 158,40  | 402 |
| 50                   | 2 - 20 | 94 | 50  | 35,0           | 75,0 | 30    | 470E (ER32) | EUR 232,80  | 500 |
| 50                   | 3 - 26 | 94 | 63  | 35,0           | 63,0 | 30    | 472E (ER40) | EUR 232,80  | 501 |

**i** Collets can be found on → **Page 208–213.**

# Morse taper adapters

▲ For taper shanks with ejector tang

F1



|                      |                |    |    |                |     |       | Y8          |     |
|----------------------|----------------|----|----|----------------|-----|-------|-------------|-----|
|                      |                |    |    |                |     |       | Article no. |     |
|                      |                |    |    |                |     |       | 82 277 ...  |     |
|                      |                |    |    |                |     |       | EUR         |     |
| DCONMS <sub>h6</sub> | d <sub>1</sub> | BD | DF | h <sub>1</sub> | LPR | LPCON |             |     |
| mm                   |                | mm | mm | mm             | mm  | mm    |             |     |
| 20                   | MK1            |    | 50 | 23,0           | 23  |       | 105,90      | 200 |
| 20                   | MK2            |    | 50 | 23,0           | 87  |       | 105,90      | 201 |
| 30                   | MK1            |    | 68 | 28,0           | 27  |       | 95,52       | 300 |
| 30                   | MK2            |    | 68 | 28,0           | 27  |       | 102,10      | 301 |
| 30                   | MK3            | 58 | 68 | 28,0           | 55  | 40    | 102,10      | 302 |
| 40                   | MK2            | 55 | 83 | 32,5           | 36  | 22    | 112,20      | 401 |
| 40                   | MK3            | 58 | 83 | 32,5           | 36  | 22    | 112,20      | 402 |
| 40                   | MK4            | 68 | 83 | 32,5           | 80  | 22    | 112,20      | 403 |
| 50                   | MK2            | 55 | 98 | 35,0           | 36  | 30    | 170,90      | 500 |
| 50                   | MK3            | 58 | 98 | 35,0           | 36  | 30    | 170,90      | 501 |
| 50                   | MK4            | 68 | 98 | 35,0           | 50  | 30    | 170,90      | 502 |

## Parting blade holders, height adjustable

- ▲ Vertical adjustment  $\pm 1$  mm
- ▲ Suitable for internal cooling through the parting blade
- ▲ Axially parallel, adjustable external coolant supply

|    |    |      |    |      |    |    |    | Left-hand   |     | Right-hand  |     |
|----|----|------|----|------|----|----|----|-------------|-----|-------------|-----|
|    |    |      |    |      |    |    |    | Y8          |     | Y8          |     |
|    |    |      |    |      |    |    |    | Article no. |     | Article no. |     |
|    |    |      |    |      |    |    |    | 82 237 ...  |     | 82 236 ...  |     |
|    |    |      |    |      |    |    |    | EUR         |     | EUR         |     |
| mm | mm | mm   | mm | mm   | mm | mm | mm |             |     |             |     |
| 25 | 53 | 28,0 | 26 | 25,0 | 30 | 35 | 40 |             |     | 389,10      | 250 |
| 30 | 70 | 35,0 | 26 | 28,0 | 38 | 44 | 49 | 321,90      | 300 | 321,90      | 300 |
| 30 | 70 | 35,0 | 32 | 30,5 | 38 | 44 | 49 | 378,60      | 302 | 378,60      | 302 |
| 40 | 73 | 42,5 | 26 | 32,0 | 48 | 44 | 49 | 392,20      | 040 | 392,20      | 040 |
| 40 | 85 | 42,5 | 32 | 32,0 | 48 | 44 | 49 | 325,10      | 400 | 325,10      | 400 |

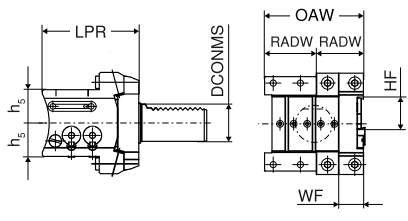
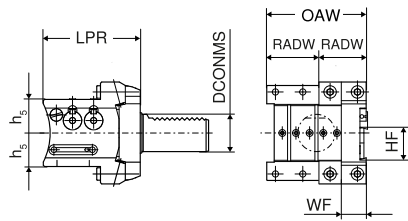
## Parting blade holders, height adjustable, overhead

- ▲ Vertical adjustment  $\pm 1$  mm
- ▲ Suitable for internal cooling through the parting blade
- ▲ Axially parallel, adjustable external coolant supply

|    |    |      |    |      |    |    |    | Left-hand   |     | Right-hand  |     |
|----|----|------|----|------|----|----|----|-------------|-----|-------------|-----|
|    |    |      |    |      |    |    |    | Y8          |     | Y8          |     |
|    |    |      |    |      |    |    |    | Article no. |     | Article no. |     |
|    |    |      |    |      |    |    |    | 82 243 ...  |     | 82 242 ...  |     |
|    |    |      |    |      |    |    |    | EUR         |     | EUR         |     |
| mm | mm | mm   | mm | mm   | mm | mm | mm |             |     |             |     |
| 30 | 70 | 35,0 | 26 | 34,0 | 38 | 44 | 49 | 431,00      | 300 | 431,00      | 300 |
| 30 | 70 | 35,0 | 32 | 30,5 | 38 | 44 | 49 | 378,60      | 302 | 378,60      | 302 |
| 40 | 73 | 42,5 | 26 | 32,0 | 48 | 44 | 49 | 392,20      | 040 | 392,20      | 040 |
| 40 | 85 | 42,5 | 32 | 32,0 | 48 | 44 | 49 | 325,10      | 400 | 325,10      | 400 |

Parting blade holders, height adjustable

- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade
- ▲ Axially parallel, adjustable external coolant supply



| DCONMS <sub>h6</sub> | OAW | RADW | HF | h <sub>5</sub> | WF | LPR |
|----------------------|-----|------|----|----------------|----|-----|
| mm                   | mm  | mm   | mm | mm             | mm | mm  |
| 30                   | 80  | 40   | 26 | 27             | 20 | 78  |
| 40                   | 80  | 40   | 26 | 27             | 20 | 88  |
| 40                   | 80  | 40   | 32 | 32             | 20 | 88  |

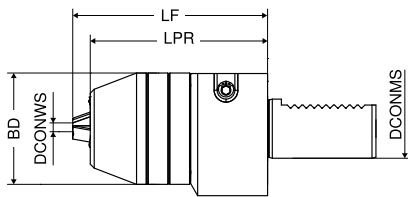
| Universal<br>Y8           |     | Universal-overhead<br>Y8  |     |
|---------------------------|-----|---------------------------|-----|
| Article no.<br>82 238 ... |     | Article no.<br>82 244 ... |     |
| EUR                       |     | EUR                       |     |
| 602,90                    | 300 | 602,90                    | 300 |
| 669,00                    | 400 | 669,00                    | 400 |
| 669,00                    | 402 | 669,00                    | 402 |

## Short drill chuck NC2010

- ▲ Coolant supply via 3 adjustable ball-shaped spray nozzles in the housing
- ▲ Independent of direction of rotation

### Scope of supply:

Basic body including chuck key SW 4

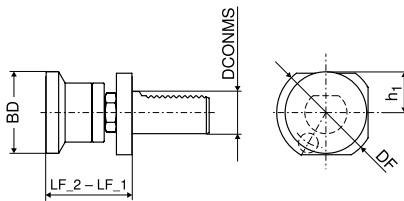


|                      |          |      |    |    | Y8          |                   |
|----------------------|----------|------|----|----|-------------|-------------------|
| DCONMS <sub>h6</sub> |          |      |    |    | Article no. |                   |
|                      |          |      |    |    | 84 297 ...  |                   |
|                      |          |      |    |    | EUR         |                   |
| mm                   | mm       | mm   | mm | mm |             |                   |
| 20                   | 0,5 - 10 | 48,5 | 40 | 50 | 302,00      | 210 <sup>1)</sup> |
| 30                   | 0,5 - 13 | 56,5 | 90 | 99 | 302,00      | 313               |
| 30                   | 2,5 - 16 | 56,5 | 90 | 99 | 323,00      | 316               |
| 40                   | 0,5 - 13 | 56,5 | 90 | 99 | 308,30      | 413               |
| 40                   | 2,5 - 16 | 56,5 | 90 | 99 | 328,30      | 416               |

1) Without Through Coolant

## Material stops

- ▲ Revolving, length adjustable

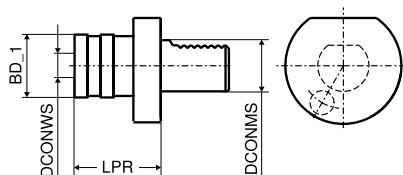


|                      |    |    |                      |    |    | Y8          |                   |
|----------------------|----|----|----------------------|----|----|-------------|-------------------|
| DCONMS <sub>h6</sub> |    |    |                      |    |    | Article no. |                   |
|                      |    |    |                      |    |    | 83 292 ...  |                   |
|                      |    |    |                      |    |    | EUR         |                   |
| mm                   | mm | mm | h <sub>1</sub><br>mm | mm | mm |             |                   |
| 20                   | 26 | 50 | 23,0                 | 50 | 70 | 347,10      | 200 <sup>1)</sup> |
| 20                   | 32 | 50 | 23,0                 | 50 | 70 | 360,70      | 201 <sup>1)</sup> |
| 20                   | 42 | 50 | 23,0                 | 50 | 70 | 355,40      | 202 <sup>1)</sup> |
| 30                   | 32 | 68 | 28,0                 | 62 | 95 | 271,60      | 300               |
| 30                   | 42 | 68 | 28,0                 | 62 | 95 | 275,80      | 301               |
| 30                   | 58 | 68 | 28,0                 | 62 | 95 | 276,80      | 302               |
| 40                   | 32 | 83 | 32,5                 | 62 | 95 | 280,00      | 400               |
| 40                   | 42 | 83 | 32,5                 | 62 | 95 | 282,10      | 401               |
| 40                   | 58 | 83 | 32,5                 | 62 | 95 | 277,80      | 402               |

1) Without VDI location

## Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



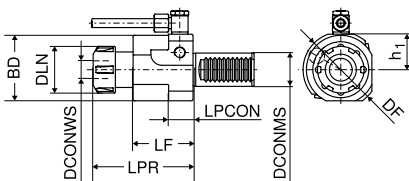
|                      |               |      |        |      |     |      | Y8     | Article no. |
|----------------------|---------------|------|--------|------|-----|------|--------|-------------|
|                      |               |      |        |      |     |      |        | 83 307 ...  |
| DCONMS <sub>h6</sub> | cutting range | SZID | DCONWS | BD_1 | LPR | LZD± | EUR    |             |
| mm                   |               |      | mm     | mm   | mm  | mm   |        |             |
| 20                   | M3 - M12      | 01   | 19     | 38   | 55  | 9    | 341,80 | 112         |
| 25                   | M3 - M12      | 01   | 19     | 38   | 55  | 9    | 341,80 | 212         |
| 30                   | M3 - M12      | 01   | 19     | 38   | 55  | 9    | 262,20 | 312         |
| 40                   | M3 - M12      | 01   | 19     | 38   | 55  | 9    | 293,60 | 412         |
| 20                   | M6 - M20      | 02   | 31     | 55   | 77  | 15   | 374,40 | 120         |
| 25                   | M6 - M20      | 02   | 31     | 55   | 77  | 15   | 374,40 | 220         |
| 30                   | M6 - M20      | 02   | 31     | 55   | 77  | 15   | 347,10 | 320         |
| 40                   | M6 - M20      | 02   | 31     | 55   | 77  | 15   | 362,80 | 420         |

**i** Quick change adapters can be found on → **Page 219–223.**

## Tap holders with length compensation GML

▲ LZD = Length compensation under tension and compression

▲ For ER collets with internal square ISO 15488-A (DIN 6499-A)

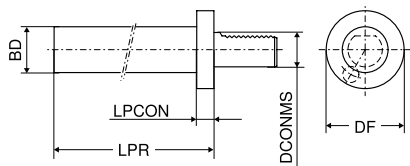


|        |          |     |    |    |                |     |    |       |           |              | Y8     | Article no. |
|--------|----------|-----|----|----|----------------|-----|----|-------|-----------|--------------|--------|-------------|
|        |          |     |    |    |                |     |    |       |           |              |        | 83 290 ...  |
| DCONMS | DCONWS   | DLN | BD | DF | h <sub>1</sub> | LPR | LF | LPCON | LZD       | for collet   | EUR    |             |
| mm     | mm       | mm  | mm | mm | mm             | mm  | mm | mm    | mm        |              |        |             |
| 20     | 0,5 - 10 | 28  | 45 | 50 | 23,0           | 65  | 40 | 18    | 6,0 / 1,5 | 4031E (ER16) | 555,80 | 213         |
| 30     | 1 - 16   | 42  | 62 | 68 | 28,0           | 90  | 54 | 42    | 8,0 / 2,0 | 4282E (ER25) | 555,80 | 316         |
| 40     | 1 - 16   | 42  | 62 | 83 | 32,5           | 85  | 49 | 42    | 8,0 / 2,0 | 4282E (ER25) | 555,80 | 416         |

**i** ER collets can be found on → **Pages 208–213.**

# Test arbors

▲ Radial run-out ≤ 0.02 mm

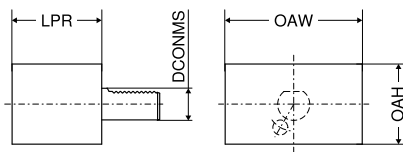


| DCONMS | BD <sub>h5</sub> | DF | LPR | LPCON |
|--------|------------------|----|-----|-------|
| mm     | mm               | mm | mm  | mm    |
| 16     | 30               | 40 | 120 | 15    |
| 20     | 40               | 50 | 150 | 15    |
| 30     | 40               | 68 | 200 | 15    |
| 40     | 40               | 83 | 200 | 15    |
| 50     | 40               | 98 | 200 | 15    |

| Y8          |     |
|-------------|-----|
| Article no. |     |
| 83 324 ...  |     |
| EUR         |     |
| 197,20      | 016 |
| 216,00      | 020 |
| 230,70      | 030 |
| 245,40      | 040 |
| 268,50      | 050 |

# Tool holders, rough machined, rectangular

▲ Manufactured from C45



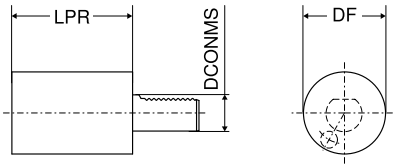
| DCONMS <sub>h6</sub> | LPR | OAW | OAH |
|----------------------|-----|-----|-----|
| mm                   | mm  | mm  | mm  |
| 16                   | 44  | 78  | 44  |
| 20                   | 65  | 100 | 60  |
| 25                   | 75  | 100 | 60  |
| 30                   | 85  | 130 | 76  |
| 40                   | 100 | 151 | 96  |
| 50                   | 125 | 160 | 120 |

| Y8          |     |
|-------------|-----|
| Article no. |     |
| 82 327 ...  |     |
| EUR         |     |
| 88,39       | 160 |
| 170,90      | 200 |
| 122,70      | 250 |
| 160,40      | 300 |
| 175,10      | 400 |
| 258,00      | 500 |

## Tool holders, rough machined, round

▲ Manufactured from C45

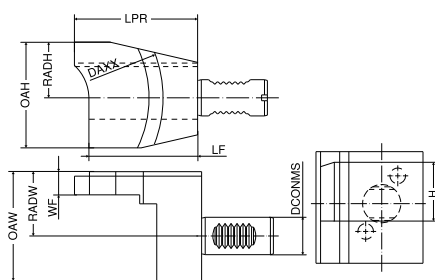
A2



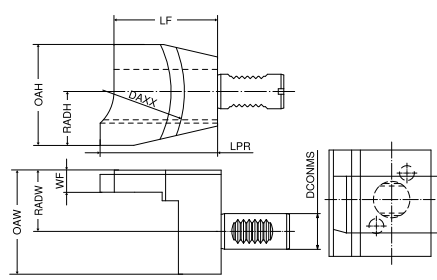
| DCONMS <sub>h6</sub> | LPR | DF | Y8          |     |
|----------------------|-----|----|-------------|-----|
|                      |     |    | Article no. |     |
| mm                   | mm  | mm | 82 330 ...  |     |
| 16                   | 60  | 40 | EUR 76,13   | 160 |
| 20                   | 70  | 50 | EUR 61,34   | 200 |
| 25                   | 80  | 58 | EUR 88,61   | 250 |
| 25                   | 200 | 58 | EUR 101,80  | 253 |
| 30                   | 100 | 68 | EUR 70,04   | 300 |
| 30                   | 240 | 68 | EUR 83,36   | 303 |
| 40                   | 120 | 83 | EUR 80,21   | 400 |
| 40                   | 320 | 83 | EUR 120,60  | 403 |
| 50                   | 135 | 98 | EUR 118,50  | 500 |
| 50                   | 400 | 98 | EUR 191,90  | 502 |

## Parting blade holder

▲ Doubles = reciprocally interlocked VDI shank



double - overhead



double



| DCONMS | OAH | RADH | OAW | RADW | WF   | LPR  | LF | DAXX | H  | double-overhead<br>Y7 |                   | double<br>Y7 |                   |
|--------|-----|------|-----|------|------|------|----|------|----|-----------------------|-------------------|--------------|-------------------|
|        |     |      |     |      |      |      |    |      |    | Article no.           |                   | Article no.  |                   |
| mm     | mm  | mm   | mm  | mm   | mm   | mm   | mm | mm   | mm | 65 170 ...            |                   | 65 170 ...   |                   |
| 20     | 94  | 47   | 95  | 60   | 15,5 | 85,5 | 75 | 176  | 26 | EUR 488,40            | 040 <sup>1)</sup> | EUR 488,40   | 039 <sup>1)</sup> |
| 25     | 73  | 39   | 72  | 43   | 15,5 | 85,0 | 75 | 176  | 26 | EUR 522,90            | 042 <sup>1)</sup> | EUR 522,90   | 041 <sup>1)</sup> |
| 25     | 73  | 39   | 72  | 43   | 15,5 | 85,0 | 75 | 176  | 32 | EUR 522,90            | 044 <sup>1)</sup> | EUR 522,90   | 043 <sup>1)</sup> |
| 30     | 100 | 50   | 95  | 60   | 15,5 | 85,5 | 75 | 176  | 26 | EUR 522,90            | 046 <sup>1)</sup> | EUR 522,90   | 045 <sup>1)</sup> |
| 30     | 100 | 50   | 95  | 60   | 15,5 | 85,5 | 75 | 176  | 32 | EUR 522,90            | 048 <sup>1)</sup> | EUR 522,90   | 047 <sup>1)</sup> |
| 40     | 100 | 50   | 95  | 60   | 15,5 | 85,5 | 75 | 176  | 26 | EUR 563,50            | 050 <sup>1)</sup> | EUR 563,50   | 049 <sup>1)</sup> |
| 40     | 100 | 50   | 95  | 60   | 15,5 | 85,5 | 75 | 176  | 32 | EUR 563,50            | 052 <sup>1)</sup> | EUR 563,50   | 051 <sup>1)</sup> |

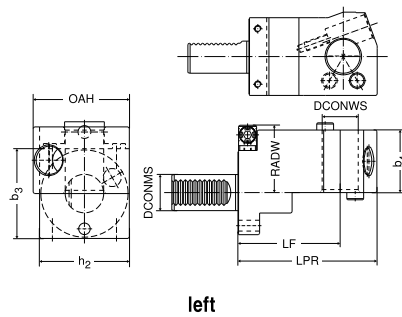
1) Not ex-stock



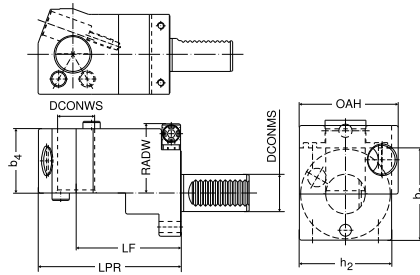
With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

## 90° VDI to VDI adapter, double sided

▲ For rotating toolholder



left



right



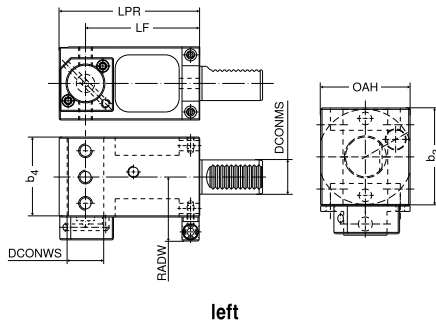
| DCONMS | DCONWS | OAH | h <sub>2</sub> | b <sub>3</sub> | b <sub>4</sub> | RADW | LF  | LPR | Left-hand  |                   | Right-hand |                   |
|--------|--------|-----|----------------|----------------|----------------|------|-----|-----|------------|-------------------|------------|-------------------|
|        |        |     |                |                |                |      |     |     | Y7         | Article no.       | Y7         | Article no.       |
| mm     | mm     | mm  | mm             | mm             | mm             | mm   | mm  | mm  | 65 170 ... | EUR               | 65 170 ... | EUR               |
| 25     | 20     | 60  | 54             | 60             | 44             | 48,0 | 75  | 100 | 463,40     | 012 <sup>1)</sup> | 463,40     | 011 <sup>1)</sup> |
| 25     | 25     | 63  | 54             | 60             | 44             | 48,0 | 75  | 100 | 463,40     | 014               | 463,40     | 013 <sup>1)</sup> |
| 30     | 30     | 75  | 70             | 70             | 52             | 56,0 | 85  | 115 | 455,10     | 004               | 446,70     | 006 <sup>1)</sup> |
| 30     | 30     | 75  | 70             | 70             | 52             | 56,0 | 100 | 130 | 507,50     | 003 <sup>1)</sup> | 507,50     | 005               |
| 40     | 40     | 93  | 85             | 85             | 60             | 67,5 | 100 | 138 | 663,50     | 008               | 663,50     | 007               |
| 40     | 40     | 93  | 85             | 85             | 60             | 67,5 | 120 | 158 | 415,70     | 009               | 553,90     | 010 <sup>1)</sup> |
| 50     | 50     | 109 | 90             | 100            | 72             | 73,5 | 120 | 165 | 788,60     | 002 <sup>1)</sup> | 788,60     | 001 <sup>1)</sup> |

1) Not ex-stock

**i** With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

## Boring bar holder with through coolant

- ▲ Delivered as left hand tool
- ▲ Can be re-assembled as right hand tool
- ▲ External coolant supply available



left



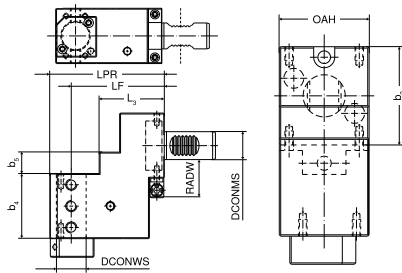
| DCONMS | DCONWS | OAH | b <sub>3</sub> | b <sub>4</sub> | RADW | LF  | LPR   | right / left |                   |
|--------|--------|-----|----------------|----------------|------|-----|-------|--------------|-------------------|
|        |        |     |                |                |      |     |       | Y7           | Article no.       |
| mm     | mm     | mm  | mm             | mm             | mm   | mm  | mm    | 65 170 ...   | EUR               |
| 25     | 25     | 54  | 60             | 60             | 48,0 | 75  | 97,5  | 406,20       | 065               |
| 30     | 32     | 64  | 70             | 70             | 56,0 | 85  | 108,0 | 442,00       | 062               |
| 30     | 32     | 64  | 70             | 70             | 56,0 | 100 | 123,0 | 451,50       | 063               |
| 40     | 40     | 76  | 85             | 85             | 67,5 | 100 | 132,0 | 476,50       | 067               |
| 40     | 40     | 76  | 85             | 85             | 67,5 | 120 | 152,0 | 514,60       | 068               |
| 50     | 50     | 85  | 100            | 100            | 73,5 | 120 | 160,0 | 696,90       | 066 <sup>1)</sup> |

1) Not ex-stock

**i** With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

## Boring bar holder, with offset, with through coolant

- ▲ Doubles = reciprocally interlocked VDI shank
- ▲ External coolant supply available



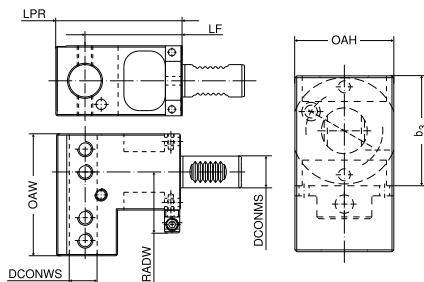
| DCONMS | DCONWS | OAH | b <sub>3</sub> | b <sub>4</sub> | RADW | b <sub>5</sub> | LF  | LPR   | L <sub>3</sub> | double<br>Y7<br>Article no.<br>65 170 ...<br>EUR |                   |
|--------|--------|-----|----------------|----------------|------|----------------|-----|-------|----------------|--------------------------------------------------|-------------------|
| mm     | mm     | mm  | mm             | mm             | mm   | mm             | mm  | mm    | mm             |                                                  |                   |
| 25     | 25     | 54  | 60             | 60             | 48,0 | 20             | 75  | 97,5  | 48             | 581,30                                           | 069               |
| 30     | 32     | 64  | 70             | 70             | 56,0 | 30             | 100 | 123,0 | 70             | 576,60                                           | 070 <sup>1)</sup> |
| 40     | 40     | 85  | 85             | 85             | 67,5 | 40             | 100 | 132,0 | 63             | 624,20                                           | 071 <sup>1)</sup> |

1) Not ex-stock

**i** With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

## Double boring bar holder with through coolant

- ▲ Doubles = reciprocally interlocked VDI shank
- ▲ For use of two boring bars for main and sub-spindle machining
- ▲ External coolant supply available



| DCONMS | DCONWS | OAH | b <sub>3</sub> | OAW | RADW | LF  | LPR   | double<br>Y7<br>Article no.<br>65 170 ...<br>EUR |                   |
|--------|--------|-----|----------------|-----|------|-----|-------|--------------------------------------------------|-------------------|
| mm     | mm     | mm  | mm             | mm  | mm   | mm  | mm    |                                                  |                   |
| 25     | 25     | 54  | 60             | 96  | 48,0 | 75  | 97,5  | 544,40                                           | 080 <sup>1)</sup> |
| 30     | 32     | 64  | 70             | 120 | 56,0 | 85  | 108,0 | 484,80                                           | 082 <sup>1)</sup> |
| 30     | 32     | 64  | 70             | 120 | 56,0 | 100 | 123,0 | 576,60                                           | 083 <sup>1)</sup> |
| 40     | 40     | 76  | 85             | 120 | 67,5 | 120 | 152,0 | 676,60                                           | 084               |

1) Not ex-stock

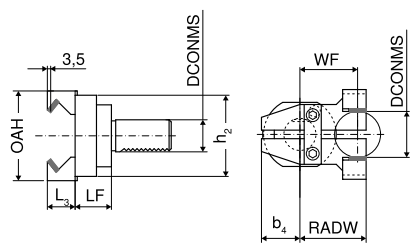
**i** With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

## Bar pullers for disc turrets, radial

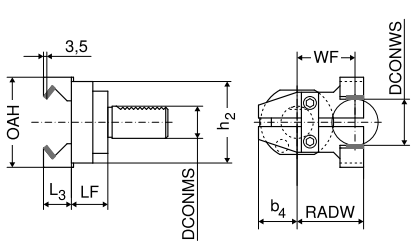
- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

### Scope of supply:

Bar puller incl. GA 1 for VDI 16, and GA 3 from VDI 20



left



right





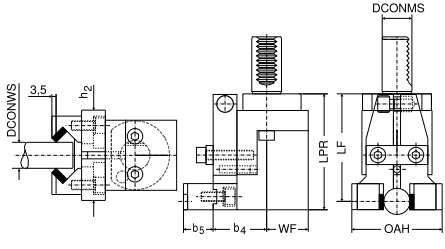
|                      |        |      |      |                      |     |                      |      |                      |                    | Left-hand                 | Right-hand                |
|----------------------|--------|------|------|----------------------|-----|----------------------|------|----------------------|--------------------|---------------------------|---------------------------|
|                      |        |      |      |                      |     |                      |      |                      |                    | Y7                        | Y7                        |
| DCONMS <sub>h6</sub> | DCONWS | RADW | WF   |                      | OAH |                      | LF   |                      | suitable for<br>GA | Article no.<br>80 309 ... | Article no.<br>80 306 ... |
| mm                   | mm     | mm   | mm   | b <sub>4</sub><br>mm | mm  | h <sub>2</sub><br>mm | mm   | L <sub>3</sub><br>mm |                    | EUR                       | EUR                       |
| 16                   | 2 - 22 | 35,0 | 28,5 | 26,5                 | 73  | 55                   | 27,8 | 24,5                 | 1                  |                           | 877,60                    |
| 20                   | 2 - 42 | 60,5 | 54,0 | 36,0                 | 86  | 76                   | 33,7 | 26,0                 | 3                  |                           | 1.054,00                  |
| 30                   | 2 - 65 | 60,5 | 54,0 | 36,0                 | 102 | 76                   | 33,7 | 26,0                 | 3 - 4              | 1.054,00                  | 1.054,00                  |
| 30                   | 2 - 65 | 47,5 | 41,0 | 49,0                 | 102 | 76                   | 33,7 | 26,0                 | 3 - 4              | 1.054,00                  | 1.054,00                  |
| 40                   | 2 - 65 | 60,5 | 54,0 | 41,5                 | 122 | 76                   | 33,7 | 26,0                 | 3 - 4              | 1.454,00                  | 1.454,00                  |
|                      |        |      |      |                      |     |                      |      |                      |                    | 300                       | 400                       |
|                      |        |      |      |                      |     |                      |      |                      |                    | 400                       | 400                       |

## Bar pullers for star turrets

- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ 90° angle head
- ▲ GA = Gripper set

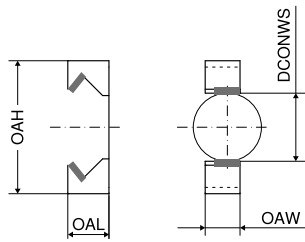
### Scope of supply:

Bar puller with GA 3

|                                                                                     |        |     |      |     |                |                |                |      |                    |                                                                                       |  |     |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|--------|-----|------|-----|----------------|----------------|----------------|------|--------------------|---------------------------------------------------------------------------------------|--|-----|--|--|--|--|--|--|--|
|  |        |     |      |     |                |                |                |      |                    |  |  |     |  |  |  |  |  |  |  |
| <b>left</b>                                                                         |        |     |      |     |                |                |                |      |                    | Left-hand<br>Y7                                                                       |  |     |  |  |  |  |  |  |  |
| DCONMS <sub>h6</sub>                                                                | DCONWS | LPR | LF   | OAH | h <sub>2</sub> | b <sub>4</sub> | b <sub>5</sub> | WF   | suitable for<br>GA | Article no.<br><b>80 310 ...</b>                                                      |  |     |  |  |  |  |  |  |  |
| mm                                                                                  | mm     | mm  | mm   | mm  | mm             | mm             | mm             | mm   |                    | EUR                                                                                   |  |     |  |  |  |  |  |  |  |
| 30                                                                                  | 2 - 65 | 97  | 90,5 | 86  | 76             | 46,7           | 26             | 34,0 | 3 - 4              | 1.157,00                                                                              |  | 300 |  |  |  |  |  |  |  |
| 40                                                                                  | 2 - 65 | 97  | 90,5 | 102 | 76             | 59,7           | 26             | 41,5 | 3 - 4              | 1.520,00                                                                              |  | 400 |  |  |  |  |  |  |  |

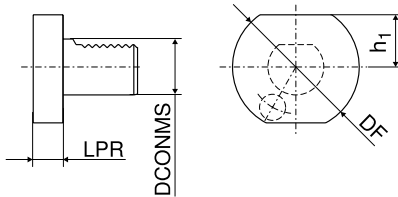
## Gripper accessories

- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...  
▲ Price per pair

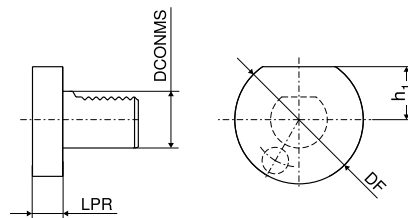


| GA | DCONWS  | OAL  | OAW | OAH | <div>Y7</div> <div>Article no.</div> <div>80 312 ...</div> <div>EUR</div> <div></div> |     |
|----|---------|------|-----|-----|---------------------------------------------------------------------------------------|-----|
|    | mm      | mm   | mm  | mm  |                                                                                       |     |
| 1  | 2 - 22  | 24,5 | 13  | 58  | 194,00                                                                                | 022 |
| 3  | 2 - 42  | 26,0 | 22  | 86  | 194,00                                                                                | 042 |
| 4  | 42 - 65 | 29,5 | 22  | 102 | 256,90                                                                                | 065 |

## Protection plugs



Steel



Plastic

Z2

Z2



|                      |    |                |     | Steel       |     | Plastic     |     |
|----------------------|----|----------------|-----|-------------|-----|-------------|-----|
|                      |    |                |     | Y8          |     | Y8          |     |
|                      |    |                |     | Article no. |     | Article no. |     |
|                      |    |                |     | 82 317 ...  |     | 83 318 ...  |     |
|                      |    |                |     | EUR         |     | EUR         |     |
| DCONMS <sub>h8</sub> | DF | h <sub>1</sub> | LPR |             |     |             |     |
| mm                   | mm | mm             | mm  |             |     |             |     |
| 16                   | 40 | 18,0           | 16  | 26,95       | 160 | 20,13       | 160 |
| 20                   | 50 | 23,0           | 16  | 25,27       | 200 | 8,10        | 200 |
| 25                   | 58 | 25,0           | 16  | 36,07       | 250 |             |     |
| 30                   | 68 | 28,0           | 16  | 24,95       | 300 | 8,29        | 300 |
| 40                   | 83 | 32,5           | 20  | 31,66       | 400 | 9,39        | 400 |
| 50                   | 98 | 35,0           | 20  | 31,66       | 500 | 13,53       | 500 |