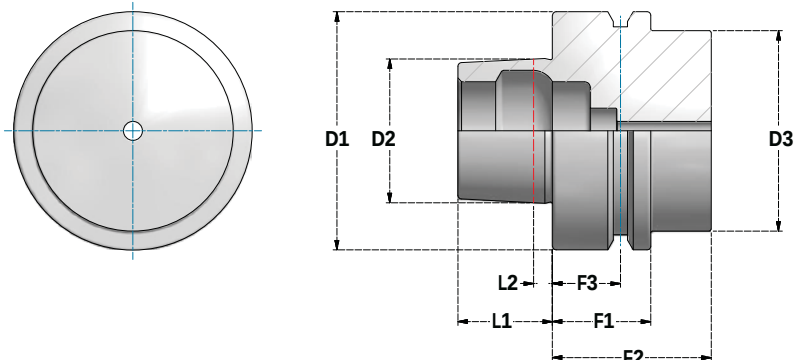


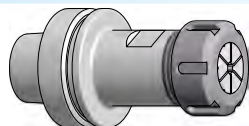
**DIN 69893-6**

**MANDRINI HSK FORMA F**  
*HSK FORM F TOOLHOLDERS*



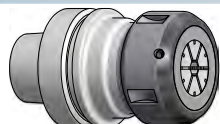
**DIMENSIONI DELL'ATTACCO**  
*SHANK DIMENSIONS*

| ATTACCO<br>SHANK | D1  | D2     | D3  | L1        | L2 | F1        | F2  | F3   |
|------------------|-----|--------|-----|-----------|----|-----------|-----|------|
|                  | h10 |        | max | 0<br>-0,2 |    | 0<br>-0,1 | min | ±0,1 |
| <b>50</b>        | 50  | 30,007 | 42  | 20        | 4  | 26        | 42  | 18   |
| <b>63</b>        | 63  | 38,009 | 53  | 25        | 5  | 26        | 42  | 18   |



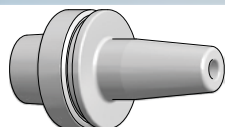
**MANDRINI PORTAPINZA ER STANDARD**  
*COLLET CHUCKS ER STANDARD*  
**DIN ISO 15488 (DIN6499)**

*PAG. 41*



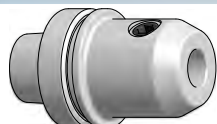
**MANDRINI PORTAPINZA EOC**  
*EOC COLLET CHUCKS*  
**DIN ISO 10897 (DIN6388)**

*PAG. 41*



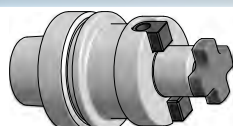
**MANDRINI A CALETTAMENTO A CALDO**  
*SHRINK FIT CHUCKS*

*PAG. 42*



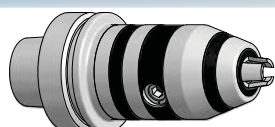
**MANDRINI PORTAFRESA WELDON**  
*END MILL HOLDERS WELDON*  
**DIN 1835-2**

*PAG. 43*



**MANDRINI PORTAFRESA FISSI**  
*SHELL MILL HOLDERS*  
**DIN 6357**

*PAG. 43*



**MANDRINI DA TRAPANO**  
*DRILL CHUCKS*

*PAG. 44*



**MANDRINI DI COLLAUDO**  
*TEST ARBORS*

*PAG. 44*

**DIN 69893-6**

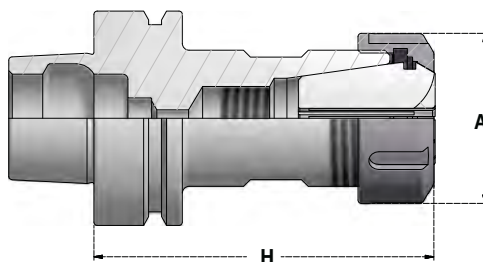
HSK F

ERC

**DIN ISO 15488 (DIN6499)**

## MANDRINI PORTAPINZA ER PER ROTAZIONE DESTRA

### RIGHT ROTATION ER COLLET CHUCKS



DIMENSIONI  
DELL'ATTACCO

SHANK  
DIMENSIONS

| <b>G6,3</b><br>24000 r.p.m. | Articolo          | H   | A  | Range<br>ERC | Ghiera<br>Nut |
|-----------------------------|-------------------|-----|----|--------------|---------------|
|                             | HSK63F.H70.ERC16  | 70  | 32 | 1÷10         | G16WD         |
|                             | HSK63F.H100.ERC16 | 100 | 32 | 1÷10         | G16WD         |
|                             | HSK63F.H70.ERC20  | 70  | 35 | 1÷14         | G20WD         |
|                             | HSK63F.H100.ERC20 | 100 | 35 | 1÷14         | G20WD         |
|                             | HSK63F.H70.ERC25  | 70  | 42 | 1÷20         | G25WD         |
|                             | HSK63F.H100.ERC25 | 100 | 42 | 1÷20         | G25WD         |
|                             | HSK63F.H73.ERC32  | 73  | 50 | 2÷22         | G32WD         |
|                             | HSK63F.H100.ERC32 | 100 | 50 | 2÷22         | G32WD         |
|                             | HSK63F.H78.ERC40  | 78  | 63 | 3÷30         | G40WD         |
|                             | HSK63F.H100.ERC40 | 100 | 63 | 3÷30         | G40WD         |

**MANDRINI PER ROTAZIONE SINISTRA A RICHIESTA**  
**LEFT ROTATION COLLET CHUCKS ON REQUEST**

WD



GHIERE **CONCENTRICHE** CON TACCHE  
**CONCENTRIC NUTS WITH SLOTS**

#### ACCESSORI - ACCESSORIES



**P. 280**  
PINZE  
COLLETS



**P. 341**  
GHIERE  
NUTS



**P. 382**  
SUPPORTI DI MONTAGGIO  
ASSEMBLY DEVICES



**P. 353**  
CHIAVI  
WRENCHES

**DIN 69893-6**

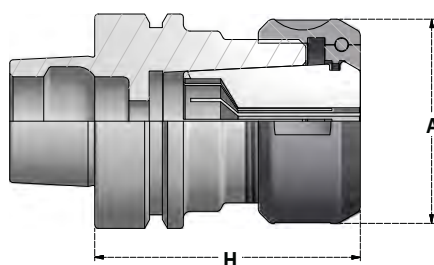
HSK F

EOC

**DIN ISO 10897 (DIN6388)**

## MANDRINI PORTAPINZA EOC PER ROTAZIONE DESTRA

### RIGHT ROTATION EOC COLLET CHUCKS



| <b>G6,3</b><br>24000 r.p.m. | Articolo         | H  | A  | Range<br>EOC | Ghiera<br>Nut |
|-----------------------------|------------------|----|----|--------------|---------------|
|                             | HSK63F.H78.EOC25 | 78 | 60 | 2÷25         | G25OCC        |

**MANDRINI PER ROTAZIONE SINISTRA A RICHIESTA**  
**LEFT ROTATION COLLET CHUCKS ON REQUEST**

#### ACCESSORI - ACCESSORIES



**P. 310**  
PINZE  
COLLETS



**P. 347**  
GHIERE  
NUTS



**P. 382**  
SUPPORTI DI MONTAGGIO  
ASSEMBLY DEVICES



**P. 354**  
CHIAVI  
WRENCHES

**DIN 69893-6**

HSK F

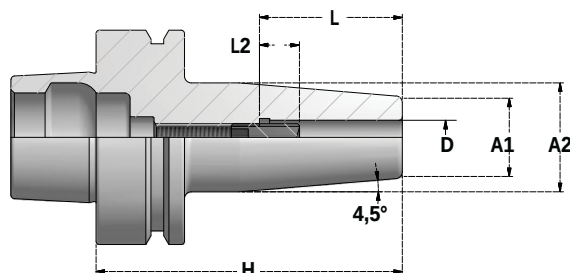
TM

## MANDRINI A CALETTAMENTO A CALDO

SHRINK FIT CHUCKS

DIMENSIONI  
DELL'ATTACCO

SHANK  
DIMENSIONS



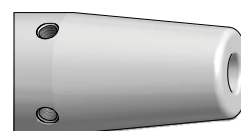
**G2,5**

25000 r.p.m.

| Articolo          | D  | H   | L  | L2 | A1 | A2 |
|-------------------|----|-----|----|----|----|----|
| HSK63F.H80.TM3    | 3  | 80  | 12 | 10 | 10 | 20 |
| * HSK63F.H120.TM3 | 3  | 120 | 12 | /  | 10 | 20 |
| * HSK63F.H160.TM3 | 3  | 160 | 12 | /  | 10 | 20 |
| HSK63F.H80.TM4    | 4  | 80  | 16 | 10 | 15 | 25 |
| * HSK63F.H120.TM4 | 4  | 120 | 16 | /  | 15 | 25 |
| * HSK63F.H160.TM4 | 4  | 160 | 16 | /  | 15 | 25 |
| HSK63F.H80.TM5    | 5  | 80  | 20 | 10 | 15 | 25 |
| * HSK63F.H120.TM5 | 5  | 120 | 20 | /  | 15 | 25 |
| * HSK63F.H160.TM5 | 5  | 160 | 20 | /  | 15 | 25 |
| HSK63F.H80.TM6    | 6  | 80  | 36 | 10 | 21 | 27 |
| HSK63F.H120.TM6   | 6  | 120 | 36 | 10 | 21 | 27 |
| HSK63F.H160.TM6   | 6  | 160 | 36 | 10 | 21 | 27 |
| HSK63F.H80.TM8    | 8  | 80  | 36 | 10 | 21 | 27 |
| HSK63F.H120.TM8   | 8  | 120 | 36 | 10 | 21 | 27 |
| HSK63F.H160.TM8   | 8  | 160 | 36 | 10 | 21 | 27 |
| HSK63F.H85.TM10   | 10 | 85  | 41 | 10 | 24 | 32 |
| HSK63F.H120.TM10  | 10 | 120 | 41 | 10 | 24 | 32 |
| HSK63F.H160.TM10  | 10 | 160 | 41 | 10 | 24 | 32 |
| HSK63F.H90.TM12   | 12 | 90  | 46 | 10 | 24 | 32 |
| HSK63F.H120.TM12  | 12 | 120 | 46 | 10 | 24 | 32 |
| HSK63F.H160.TM12  | 12 | 160 | 46 | 10 | 24 | 32 |
| HSK63F.H90.TM14   | 14 | 90  | 46 | 10 | 24 | 32 |
| HSK63F.H120.TM14  | 14 | 120 | 46 | 10 | 24 | 32 |
| HSK63F.H160.TM14  | 14 | 160 | 46 | 10 | 24 | 32 |
| HSK63F.H95.TM16   | 16 | 95  | 49 | 10 | 24 | 32 |
| HSK63F.H120.TM16  | 16 | 120 | 49 | 10 | 24 | 32 |
| HSK63F.H160.TM16  | 16 | 160 | 49 | 10 | 24 | 32 |
| HSK63F.H95.TM18   | 18 | 95  | 49 | 10 | 33 | 42 |
| HSK63F.H120.TM18  | 18 | 120 | 49 | 10 | 33 | 42 |
| HSK63F.H160.TM18  | 18 | 160 | 49 | 10 | 33 | 42 |
| HSK63F.H100.TM20  | 20 | 100 | 51 | 10 | 33 | 42 |
| HSK63F.H160.TM20  | 20 | 160 | 51 | 10 | 33 | 42 |
| HSK63F.H125.TM25  | 25 | 125 | 57 | 10 | 44 | 53 |
| HSK63F.H125.TM32  | 32 | 125 | 61 | 10 | 44 | 53 |

\* Senza vite di regolazione / Without adjusting screw

**Profondità regolabile L2**  
Adjustable depth L2



**Con 4 fori per la bilanciatura.**  
Grani non compresi.  
With 4 holes for balancing.  
Screws not supplied.

### ACCESSORI - ACCESSORIES



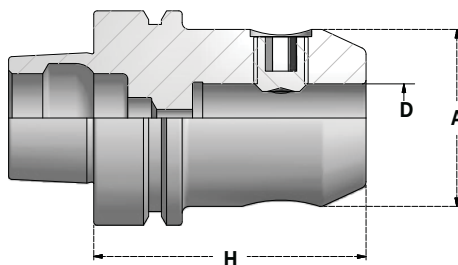
**DIN 69893-6**

HSK F

WE

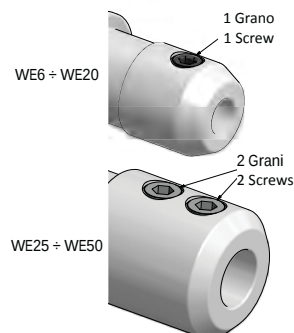
## MANDRINI PORTAFRESA WELDON

END MILL HOLDERS WELDON



DIMENSIONI  
DELL'ATTACCO

SHANK  
DIMENSIONS



| G6,3<br>24000 r.p.m. | Articolo         | D  | H   | A  | Grano<br>Screw |
|----------------------|------------------|----|-----|----|----------------|
|                      | HSK63F.H65.WE6   | 6  | 65  | 25 | GR.WE6         |
|                      | HSK63F.H65.WE8   | 8  | 65  | 28 | GR.WE8         |
|                      | HSK63F.H65.WE10  | 10 | 65  | 35 | GR.WE10        |
|                      | HSK63F.H80.WE12  | 12 | 80  | 42 | GR.WE12-14     |
|                      | HSK63F.H80.WE14  | 14 | 80  | 44 | GR.WE12-14     |
|                      | HSK63F.H80.WE16  | 16 | 80  | 48 | GR.WE16-18     |
|                      | HSK63F.H80.WE18  | 18 | 80  | 50 | GR.WE16-18     |
|                      | HSK63F.H80.WE20  | 20 | 80  | 52 | GR.WE20        |
|                      | HSK63F.H110.WE25 | 25 | 110 | 65 | GR.WE25        |
|                      | HSK63F.H110.WE32 | 32 | 110 | 72 | GR.WE32-40     |

### ACCESSORI - ACCESSORIES



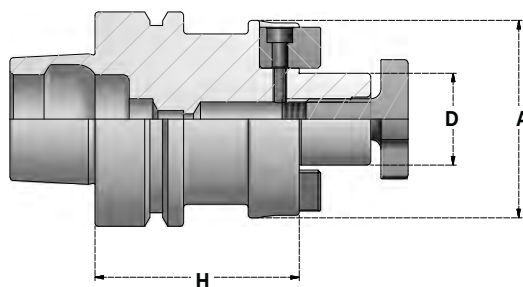
**DIN 69893-6**

HSK F

D S

## MANDRINI PORTAFRESA FISSI

SHELL MILL HOLDERS



| G6,3<br>24000 r.p.m. | Articolo        | D  | H  | A  | TTR     | VTC     |
|----------------------|-----------------|----|----|----|---------|---------|
|                      | HSK63F.H50.D16S | 16 | 50 | 38 | TTR.D16 | VTC.D16 |
|                      | HSK63F.H50.D22S | 22 | 50 | 48 | TTR.D22 | VTC.D22 |
|                      | HSK63F.H60.D27S | 27 | 60 | 58 | TTR.D27 | VTC.D27 |
|                      | HSK63F.H60.D32S | 32 | 60 | 78 | TTR.D32 | VTC.D32 |
|                      | HSK63F.H60.D40S | 40 | 60 | 88 | TTR.D40 | VTC.D40 |

### ACCESSORI - ACCESSORIES



**DIN 69893-6**

HSK F

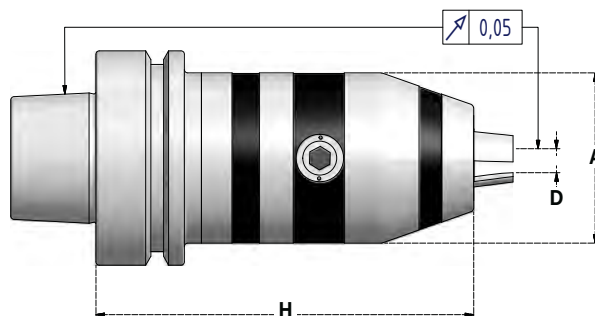
HD

## MANDRINI PORTAPUNTA AUTOSERRANTI ROTAZIONE DESTRA E SINISTRA

### DRILL CHUCKS - RIGHT AND LEFT ROTATION

DIMENSIONI  
DELL'ATTACCO

SHANK  
DIMENSIONS



| Articolo                | D      | H   | A  | Chiave<br>Wrench |
|-------------------------|--------|-----|----|------------------|
| <b>HSK63F.H110.HD13</b> | 1÷13   | 110 | 50 | CH.HD13-16       |
| <b>HSK63F.H115.HD16</b> | 2,5÷16 | 115 | 50 | CH.HD13-16       |

#### ACCESSORI - ACCESSORIES



**DIN 69893-6**

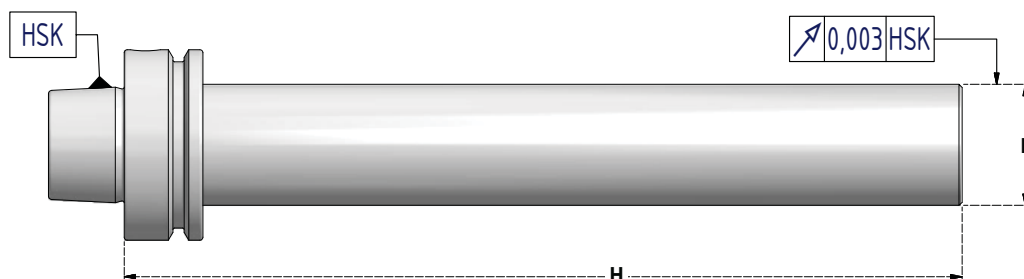
HSK F

CK

**ISO-R230**

## MANDRINI DI COLLAUDO

### TEST ARBORS



| Articolo                | D  | H   |
|-------------------------|----|-----|
| <b>HSK63F.H250.CK40</b> | 40 | 250 |

**FORNITI CON BOX  
E CERTIFICATO DI COLLAUDO**

*SUPPLIED IN BOX  
AND WITH TESTING REPORT*