

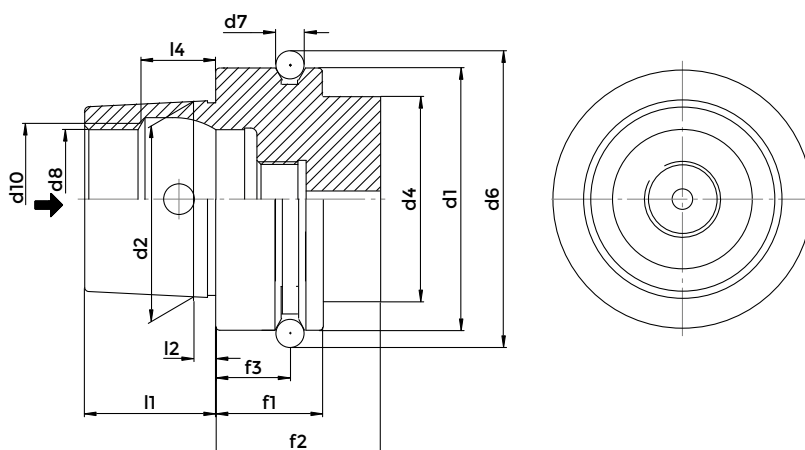


# **HSK E CHUCKS**

DIN 69893-5



## TAPER SHANKS DATA SHEET



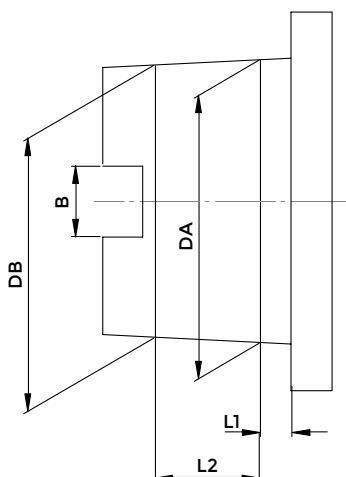
### DIN 69893 E

|     | HSK 25 | HSK 32 | HSK 40 | HSK 50 | HSK 63 |
|-----|--------|--------|--------|--------|--------|
| d1  | 25     | 32     | 40     | 50     | 63     |
| d2  | 19     | 24     | 30     | 38     | 48     |
| d4  | 20     | 26     | 34     | 42     | 53     |
| d6  | 28,5   | 37     | 45     | 59,3   | 72,3   |
| d7  | 3      | 4      | 4      | 7      | 7      |
| d8  | 14     | 17     | 21     | 26     | 34     |
| d10 | 15     | 19     | 23     | 29     | 37     |
| f1  | 10     | 20     | 20     | 26     | 26     |
| f2  | 20     | 35     | 35     | 42     | 42     |
| f3  | 4,5    | 16     | 16     | 18     | 18     |
| l1  | 13     | 16     | 20     | 25     | 32     |
| l2  | 2,5    | 3,2    | 4      | 5      | 6,3    |
| l4  | 7,21   | 8,92   | 11,42  | 14,13  | 18,13  |

### FORM E

- Used for high frequency spindles and wood machining.
- Rotationally symmetrical, without key slots.
- Torque transmission via friction
- Central coolant supply possible through coolant channel.

## CONE TOLERANCE



### DIN 69893 E

| HSK      | L1  | L2    | DA                      | DB                         | B<br>(only type A+C) |
|----------|-----|-------|-------------------------|----------------------------|----------------------|
| 25 A+C+E | 2,5 | 8,5   | 19 $+0,005$<br>$+0,007$ | 18,15 $+0,003$<br>$+0,005$ | 6.05 +/- 0.04        |
| 32 A+C   | 3,2 | 7,03  | 24 $+0,005$<br>$+0,007$ | 23,27 $+0,003$<br>$+0,005$ | 7.05 +/- 0.04        |
| 40 A+C+E | 4   | 9,05  | 30 $+0,005$<br>$+0,007$ | 29,05 $+0,003$<br>$+0,005$ | 8.05 +/- 0.04        |
| 40 B+D   | 3,2 | 7,03  | 24 $+0,005$<br>$+0,007$ | 23,27 $+0,003$<br>$+0,005$ | -                    |
| 50 A+C+E | 5   | 11    | 38 $+0,006$<br>$+0,009$ | 36,9 $+0,003$<br>$+0,006$  | 10.54 +/- 0.04       |
| 50 B+D+F | 4   | 9,05  | 30 $+0,005$<br>$+0,007$ | 29,05 $+0,003$<br>$+0,005$ | -                    |
| 63 A+C+E | 6,3 | 14,07 | 48 $+0,007$<br>$+0,011$ | 46,53 $+0,003$<br>$+0,007$ | 12.54 +/- 0.04       |
| 63 B+D+F | 5   | 11    | 38 $+0,006$<br>$+0,009$ | 39,9 $+0,003$<br>$+0,006$  | -                    |
| 100 A+C  | 10  | 24    | 75 $+0,009$<br>$+0,015$ | 72,6 $+0,003$<br>$+0,009$  | 20.02 +/- 0.04       |
| 100 B+D  | 8   | 19    | 60 $+0,008$<br>$+0,013$ | 58,1 $+0,003$<br>$+0,008$  | -                    |

## TECHNICAL DATA KINTEK CHUCKS WITH ISO FITTING

All KINTEK toolholders are manufactured according to DIN norms. (these norms provide the same classes of tolerance for the attachment DIN69893 A+C, B+D, E, F)

### COLLET CHUCK RUNOUT ACCURACY

The norm DIN 69882-6 permits a runout error of 0,005 mm. for DIN6499/ISO15488 collet chucks.

### SHELL END MILL ADAPTOR RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN 69882-2, which prescribes for diameters Ø16,22,27,32 a runout accuracy of 0,01.

### WELDON END MILL HOLDER RUNOUT ACCURACY

According to norm DIN 69882-4 Weldon end mill holders have to meet the following requirements:

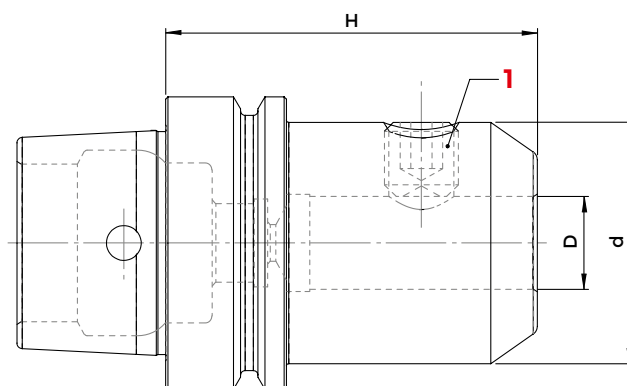
**BORE:** H5

**RUNOUT ACCURACY:** 0.005.

### CONSTRUCTIVE FEATURES

- Manufactured with Casehardening Steel.
- Casehardened with depth 0,4 - 0,5 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm<sup>2</sup>
- Black oxidized
- Thread of collet nuts, internal and external diameters are completely grinding finished
- Tested 100% with certified measuring instruments

## END MILL HOLDERS WELDON - HIGH SPEED LINE

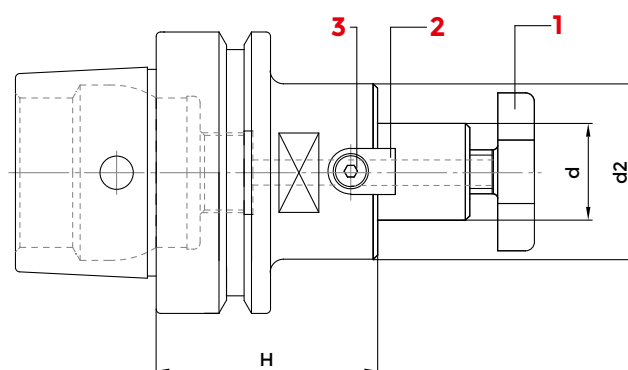


### DIN 69893 A+C - DIN 1835/B

### HIGH SPEED LINE

| COD.      | DESCRIPTION   | HSK | D  | d  | H   | G2.5<br>25000 | 1<br>SCREW                                                                          |
|-----------|---------------|-----|----|----|-----|---------------|-------------------------------------------------------------------------------------|
|           |               |     |    |    |     |               |  |
| 213-17341 | HSK50EH80W20  | 50  | 20 | 52 | 80  | •             | 811-106007                                                                          |
| 213-17313 | HSK50EH105W25 | 50  | 25 | 65 | 105 | •             | 811-106008                                                                          |
| 213-17315 | HSK63EH65W08  | 63  | 8  | 28 | 65  | •             | 811-106002                                                                          |
| 213-17317 | HSK63EH80W16  | 63  | 16 | 48 | 80  | •             | 811-106006                                                                          |
| 213-17342 | HSK63EH80W20  | 63  | 20 | 52 | 80  | •             | 811-106007                                                                          |
| 213-17319 | HSK63EH105W25 | 63  | 25 | 65 | 105 | •             | 811-106008                                                                          |
| 213-17323 | HSK63EH110W32 | 63  | 32 | 72 | 110 | •             | 811-106009                                                                          |

## FACE MILL HOLDERS-TENONS DRIVE



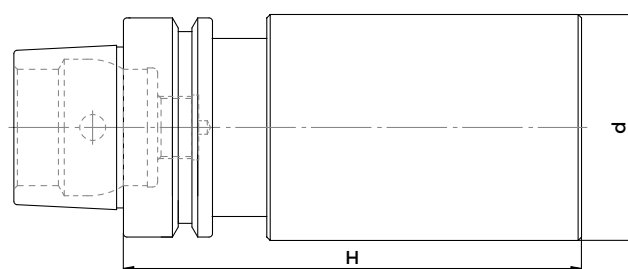
### DIN 69893 E - ISO 3937

| COD.      | DESCRIPTION    | HSK | H   | d  | d2 | G6.3<br>8000 | 1<br>CROSS<br>SCREW | 1<br>CROSS<br>SCREW ON<br>ENQUIRY | 2<br>DOWELS | 3<br>SCREW | WRENCH |
|-----------|----------------|-----|-----|----|----|--------------|---------------------|-----------------------------------|-------------|------------|--------|
| 216-77301 | HSK40EH45D16F  | 40  | 45  | 16 | 38 | •            |                     |                                   |             |            |        |
| 216-77302 | HSK40EH50D22F  | 40  | 50  | 22 | 48 | •            |                     |                                   |             |            |        |
| 216-77316 | HSK50EH50D16F  | 50  | 50  | 16 | 38 | •            |                     |                                   |             |            |        |
| 216-77317 | HSK50EH60D22F  | 50  | 60  | 22 | 48 | •            |                     |                                   |             |            |        |
| 216-77318 | HSK50EH60D27F  | 50  | 60  | 27 | 58 | •            |                     |                                   |             |            |        |
| 216-77309 | HSK63EH50D22F  | 63  | 50  | 22 | 48 | •            |                     |                                   |             |            |        |
| 216-77319 | HSK63EH100D22F | 63  | 100 | 22 | 48 | •            |                     |                                   |             |            |        |
| 216-77310 | HSK63EH55D27F  | 63  | 55  | 27 | 58 | •            |                     |                                   |             |            |        |
| 216-77320 | HSK63EH60D27F  | 63  | 60  | 27 | 58 | •            |                     |                                   |             |            |        |
| 216-77321 | HSK63EH100D27F | 63  | 100 | 27 | 58 | •            |                     |                                   |             |            |        |

#### ACCESSORIES



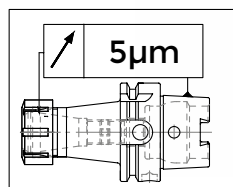
## BLANK TOOLHOLDERS WITH SOFT SHANK



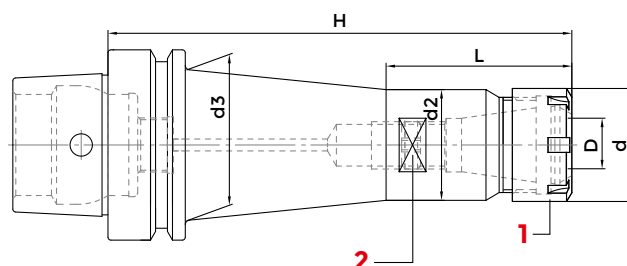
### DIN 69893 E

| COD.      | DESCRIPTION     | HSK | H   | d  |
|-----------|-----------------|-----|-----|----|
| 217-17303 | HSK63EH200D63SM | 63  | 200 | 63 |

## ER MINI COLLET CHUCKS - HIGH SPEED LINE



H= 0 > 100 mm - 5 µm  
H= 100 > 200 mm - 10 µm



### DIN 6499 - ISO 15488

### HIGH SPEED LINE

| COD.      | DESCRIPTION     | HSK | H   | D      | d  | ER  | L  | d2 | d3 | G2.5<br>30000 | 1                                                                                     | 2                                                                                     | WRENCH                                                                                |
|-----------|-----------------|-----|-----|--------|----|-----|----|----|----|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|           |                 |     |     |        |    |     |    |    |    |               | NUT                                                                                   | SCREW                                                                                 |                                                                                       |
| 214-37344 | HSK25EH43ER16M  | 25  | 43  | 0,5÷10 | 22 | 16M | -  | 19 | -  | •             |    |    |    |
| 214-37377 | HSK32EH60ER16M  | 32  | 60  | 0,5÷10 | 22 | 16M | -  | 20 | -  | •             |  |  |  |
| 214-37378 | HSK32EH60ER25M  | 32  | 60  | 1÷16   | 35 | 25M | -  | 30 | -  | •             |  |  |  |
| 214-37301 | HSK40EH70ER16M  | 40  | 70  | 0,5÷10 | 22 | 16M | -  | 20 | -  | •             |  |  |  |
| 214-37311 | HSK40EH120ER16M | 40  | 120 | 0,5÷10 | 22 | 16M | 47 | 20 | 29 | •             |  |  |  |
| 214-37302 | HSK40EH80ER25M  | 40  | 80  | 1÷16   | 35 | 25M | -  | 34 | -  | •             |  |  |  |
| 214-37303 | HSK50EH80ER16M  | 50  | 80  | 0,5÷10 | 22 | 16M | -  | 20 | -  | •             |  |  |  |
| 214-37313 | HSK50EH150ER16M | 50  | 150 | 0,5÷10 | 22 | 16M | 47 | 20 | 40 | •             |  |  |  |
| 214-37306 | HSK63EH90ER16M  | 63  | 90  | 0,5÷10 | 22 | 16M | -  | 20 | -  | •             |  |  |  |
| 214-37316 | HSK63EH160ER16M | 63  | 160 | 0,5÷10 | 22 | 16M | 47 | 20 | 39 | •             |  |  |  |

#### ACCESSORIES

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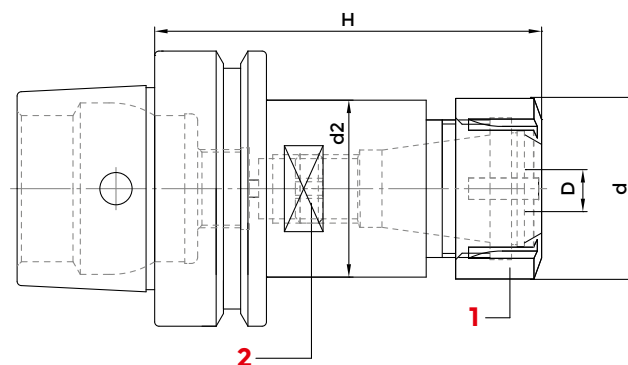
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## ER COLLET CHUCKS - HIGH SPEED LINE



### DIN 6499 - ISO 15488

### HIGH SPEED LINE

| COD.      | DESCRIPTION    | HSK | H   | D    | d  | ER | d2   | G2.5<br>30000 | 1                                                                                   | 2                                                                                   |
|-----------|----------------|-----|-----|------|----|----|------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |                |     |     |      |    |    |      |               | NUT                                                                                 | SCREW                                                                               |
| 214-37386 | HSK40EH65ER32  | 40  | 65  | 2÷20 | 50 | 32 | 33   | •             |  |  |
| 214-37304 | HSK50EH95ER25  | 50  | 95  | 1÷16 | 42 | 25 | 41,5 | •             | 812-203001                                                                          | 811-103118                                                                          |
| 214-37305 | HSK50EH100ER32 | 50  | 100 | 2÷20 | 50 | 32 | 42   | •             | 812-203002                                                                          | 811-303121                                                                          |
| 214-37387 | HSK63EH70ER25  | 63  | 70  | 1÷16 | 42 | 25 | 41   | •             | 812-203001                                                                          | 811-303121                                                                          |
| 214-37307 | HSK63EH90ER25  | 63  | 90  | 1÷16 | 35 | 25 | 42   | •             | 812-203001                                                                          | 811-303121                                                                          |
| 214-37388 | HSK63EH100ER25 | 63  | 100 | 1÷16 | 42 | 25 | 41   | •             | 812-203001                                                                          | 811-103118                                                                          |
| 214-37389 | HSK63EH75ER32  | 63  | 75  | 2÷20 | 50 | 32 | 49   | •             | 812-203002                                                                          | 811-103118                                                                          |
| 214-37308 | HSK63EH100ER32 | 63  | 100 | 2÷20 | 50 | 32 | 49,5 | •             | 812-203002                                                                          | 811-303122                                                                          |
| 214-37309 | HSK63EH80ER40  | 63  | 80  | 3÷30 | 63 | 40 | 50   | •             | 812-203003                                                                          | 816-203003                                                                          |

#### ACCESSORIES



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READY, ALWAYS.