

# T|E|N|D|O<sup>®</sup> Silver & E-Compact

Experience a low-cost entry into the world of hydraulic expansion technology

Hand in hand for tomorrow

**BUY 5 TOOLHOLDERS  
GET ONE FREE**

Valid until June 30, 2024



# TENDO Silver - The new hydraulic expansion toolholder



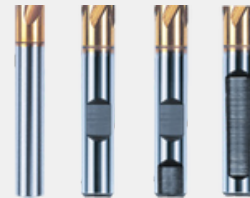
TENDO Silver facilitates the easy entry into hydraulic expansion technology, offering the best price-performance ratio in direct clamping.

The available seven interfaces makes the TENDO Silver to a reliable and precise toolholder for clamping all commonly used shank types, ensuring a dependable machining process.

Excellent  
**vibration  
damping**

Micro-blowouts are prevented, best work-piece surfaces, protection of the machine spindle, and increased tool service life

All commonly used  
**shank types**



As standard,  
**fine-balanced**

Suitable for high speeds of 50,000 RPM with a balancing grade of G2.5 at 25,000 RPM

(Depending on the mounting size of the spindle)

Seamless  
**compatibility**

100% compatible with all commonly used machine tool mountings (HSK-A, JIS-BT, SK)



NEW

# μ-precise tool change within seconds



- 1 **Clamping screw**  
The clamping screw is used to actuate the clamping piston
- 2 **Clamping piston**  
The clamping piston compresses the hydraulic medium into the chamber system
- 3 **Sealing element**  
Special sealing for leakage-free clamping
- 4 **Expansion sleeve**  
The expansion sleeve evenly expands against the tool shank
- 5 **Chamber system**  
It has a damping effect on the clamped tool
- 6 **Base body**  
With machine interface
- 7 **Tool**  
Maximum run-out and repeat accuracy < 0.003 mm

## + All commonly used shank types can be clamped

**Form A:** with smooth cylindrical shank, shank form A according to DIN 1835 and DIN 6535 HA

**Form AB:** with flat face and cylindrical shank with pulling face, shank form B according to DIN 1835 and DIN 6535 HB

**Form B:** with lateral pulling faces, shank form B according to DIN 1835

**Form E:** with inclined clamping face, shank form E according to DIN 1835 and DIN 6535 HE

## + As standard, fine-balanced

Suitable for high speeds with a balancing grade of G2.5 at 25,000 RPM

## + μ-precise tool change within seconds without peripheral equipment

Time saving through reduction of set-up time and no investment and energy costs due to additional clamping devices



### Interfaces

HSK-A 63  
HSK-A 100 SK 40  
SK 50  
JIS-BT 30  
JIS-BT 40  
JIS-BT 50



Run-out accuracy  
 $y \leq 3 \mu$



Min. torque  
16 .. 650 Nm



Max. speed l  
25000 .. 50000 RPM



Diameter  
6 .. 32 mm



[schunk.com/tendosilver](https://schunk.com/tendosilver)

## Technical data

Series	Clamping diameter [mm]	Run-out accuracy	Min. torque [Nm]	Bore holes for data carriers
TENDO Silver HSK-A 63	6 .. 32	< 0.003 mm at 2,5 x D	16 .. 650	available, according to DIN 69873
TENDO Silver HSK-A 100	6 .. 32	< 0.003 mm at 2,5 x D	16 .. 650	available, according to DIN 69873
TENDO Silver SK 40	6 .. 32	< 0.003 mm at 2,5 x D	16 .. 650	Optional
TENDO Silver SK 50	12 .. 32	< 0.003 mm at 2,5 x D	90 .. 650	Optional
TENDO Silver JIS-BT 30	6 .. 20	< 0.003 mm at 2,5 x D	16 .. 330	Optional
TENDO Silver JIS-BT 40	6 .. 32	< 0.003 mm at 2,5 x D	16 .. 650	Optional
TENDO Silver JIS-BT 50	12 .. 32	< 0.003 mm at 2,5 x D	90 .. 650	Optional

# T | E | N | D | O<sup>®</sup> Silver

## Hydraulic expansion toolholder Get it now at a promo price!

1503296 TENDO Silver BT50 Ø12x90  
 1503297 TENDO Silver BT50 Ø20x90  
 1503299 TENDO Silver BT50 Ø32x120  
 1436820 TENDO Silver CAT40 Ø3/4"x64.5 /ECUSA  
 1436818 TENDO Silver CAT40 Ø1/2"x63.5  
 1436816 TENDO Silver CAT40 Ø1/4"x63.5  
 1479977 TENDO Silver CAT40 Ø10x63.5  
 1479978 TENDO Silver CAT40 Ø12x63.5  
 1479979 TENDO Silver CAT40 Ø14x63.5  
 1479980 TENDO Silver CAT40 Ø16x63.5  
 1479981 TENDO Silver CAT40 Ø20x64.5 /ECUSA  
 1436817 TENDO Silver CAT40 Ø3/8"x63.5  
 1436819 TENDO Silver CAT40 Ø5/8"x63.5  
 1479973 TENDO Silver CAT40 Ø6x63.5  
 1479975 TENDO Silver CAT40 Ø8x63.5  
 1503316 TENDO Silver CAT50 Ø1 1/4"x81  
 1503305 TENDO Silver CAT50 Ø12x81  
 1503313 TENDO Silver CAT50 Ø20x81  
 1503314 TENDO Silver CAT50 Ø25x81  
 1503315 TENDO Silver CAT50 Ø32x81  
 1434535 TENDO Silver HSK-A100 Ø10x90  
 1434536 TENDO Silver HSK-A100 Ø12x95  
 1434538 TENDO Silver HSK-A100 Ø14x95  
 1434545 TENDO Silver HSK-A100 Ø16x100  
 1434546 TENDO Silver HSK-A100 Ø18x100  
 1434547 TENDO Silver HSK-A100 Ø20x105  
 1434548 TENDO Silver HSK-A100 Ø25x110  
 1434549 TENDO Silver HSK-A100 Ø32x110  
 1434533 TENDO Silver HSK-A100 Ø6x75  
 1434534 TENDO Silver HSK-A100 Ø8x75  
 1360925 TENDO Silver HSK-A63 Ø10x80  
 1360926 TENDO Silver HSK-A63 Ø12x85  
 1360927 TENDO Silver HSK-A63 Ø14x85  
 1360928 TENDO Silver HSK-A63 Ø16x90  
 1360929 TENDO Silver HSK-A63 Ø18x90  
 1360930 TENDO Silver HSK-A63 Ø20x90  
 1360931 TENDO Silver HSK-A63 Ø25x120  
 1360932 TENDO Silver HSK-A63 Ø32x125  
 1360923 TENDO Silver HSK-A63 Ø6x70  
 1360924 TENDO Silver HSK-A63 Ø8x70  
 1429243 TENDO Silver JIS-BT30 Ø10x55  
 1429244 TENDO Silver JIS-BT30 Ø12x55  
 1429245 TENDO Silver JIS-BT30 Ø16x90  
 1429246 TENDO Silver JIS-BT30 Ø20x90  
 1429241 TENDO Silver JIS-BT30 Ø6x55  
 1429242 TENDO Silver JIS-BT30 Ø8x55  
 1417056 TENDO Silver JIS-BT40 Ø10x90  
 1417057 TENDO Silver JIS-BT40 Ø12x90  
 1417058 TENDO Silver JIS-BT40 Ø16x90  
 1417060 TENDO Silver JIS-BT40 Ø20x90  
 1417062 TENDO Silver JIS-BT40 Ø32x100  
 1417054 TENDO Silver JIS-BT40 Ø6x90  
 1417055 TENDO Silver JIS-BT40 Ø8x90  
 1462654 TENDO Silver SK40 Ø10x80.5  
 1462655 TENDO Silver SK40 Ø12x80.5  
 1462656 TENDO Silver SK40 Ø16x80.5  
 1467135 TENDO Silver SK40 Ø18x80.5  
 1462657 TENDO Silver SK40 Ø20x80.5  
 1467969 TENDO Silver SK40 Ø25x80.5  
 1462658 TENDO Silver SK40 Ø32x80.5  
 1462652 TENDO Silver SK40 Ø6x80.5  
 1462653 TENDO Silver SK40 Ø8x80.5  
 1462671 TENDO Silver SK50 Ø12x80.5  
 1462672 TENDO Silver SK50 Ø16x80.5  
 1462673 TENDO Silver SK50 Ø20x80.5  
 1462674 TENDO Silver SK50 Ø32x103,2

Offer valid for ALL TENDO EC and TENDO Silver listed below. All holders must be the same spindle taper for promotional offer.

Valid until June 30, 2024

## TENDO EC

1340921 TENDO EC SK40 Ø32x115  
 1324754 TENDO EC BT-DC30 Ø1/2"x69  
 0206584 TENDO EC BT-DC30 Ø12x69  
 0206586 TENDO EC BT-DC30 Ø20x90  
 1324755 TENDO EC BT-DC30 Ø3/4"x90  
 1324761 TENDO EC BT-DC40 Ø1/2"x58  
 0206594 TENDO EC BT-DC40 Ø12x58  
 0206596 TENDO EC BT-DC40 Ø20x72.5  
 1324762 TENDO EC BT-DC40 Ø3/4"x72.5  
 1349428 TENDO EC BT-DC50 Ø20x83.5  
 1349429 TENDO EC BT-DC50 Ø32x90  
 1000068 TENDO EC CAT40 Ø20x4"  
 0206486 TENDO EC CAT40 Ø20x64.5  
 1000067 TENDO EC CAT40 Ø3/4"x4"  
 0206466 TENDO EC CAT40 Ø3/4"x64.5  
 1000069 TENDO EC CAT50 Ø1 1/4"x6"  
 1000070 TENDO EC CAT50 Ø32x6"  
 1324775 TENDO EC CAT-DC40 Ø20x4"  
 1324767 TENDO EC CAT-DC40 Ø20x64.5  
 1324776 TENDO EC CAT-DC40 Ø3/4"x4"  
 1324768 TENDO EC CAT-DC40 Ø3/4"x64.5  
 1319625 TENDO EC HSK-A100 Ø1 1/4"x100  
 1368215 TENDO EC HSK-A100 Ø16x90  
 0206566 TENDO EC HSK-A100 Ø20x90  
 0206568 TENDO EC HSK-A100 Ø32x100  
 1420673 TENDO EC HSK-A100 Ø32x130  
 20055171 TENDO EC HSK-A50 Ø20x94  
 20064356 TENDO EC HSK-A63 Ø12x130  
 0206404 TENDO EC HSK-A63 Ø12x80  
 1431660 TENDO EC HSK-A63 Ø16x130  
 0206405 TENDO EC HSK-A63 Ø16x80  
 0206406 TENDO EC HSK-A63 Ø20x80  
 1000071 TENDO EC HSK-A63 Ø3/4"x130  
 0206456 TENDO EC HSK-A63 Ø3/4"x80  
 1323447 TENDO EC HSK-A63 Ø32x120  
 0206554 TENDO EC JIS-BT30 Ø12x69  
 20066124 TENDO EC JIS-BT30 Ø16x90  
 0206556 TENDO EC JIS-BT30 Ø20x90  
 1420629 TENDO EC JIS-BT40 Ø12x130  
 0206434 TENDO EC JIS-BT40 Ø12x58  
 1431659 TENDO EC JIS-BT40 Ø16x130  
 0206435 TENDO EC JIS-BT40 Ø16x72.5  
 20064499 TENDO EC JIS-BT40 Ø20x130  
 0206436 TENDO EC JIS-BT40 Ø20x72.5  
 1340112 TENDO EC JIS-BT40 Ø32x120  
 0206444 TENDO EC JIS-BT50 Ø12x69  
 1420632 TENDO EC JIS-BT50 Ø20x130  
 0206446 TENDO EC JIS-BT50 Ø20x83.5  
 1420633 TENDO EC JIS-BT50 Ø32x130  
 0206448 TENDO EC JIS-BT50 Ø32x90  
 0206834 TENDO EC SCAPTO C4 Ø1/2"x65  
 0206804 TENDO EC SCAPTO C4 Ø12x65  
 0206806 TENDO EC SCAPTO C4 Ø20x83  
 0206836 TENDO EC SCAPTO C4 Ø3/4"x83  
 0206844 TENDO EC SCAPTO C5 Ø1/2"x70  
 0206814 TENDO EC SCAPTO C5 Ø12x70  
 0206816 TENDO EC SCAPTO C5 Ø20x75  
 0206846 TENDO EC SCAPTO C5 Ø3/4"x75  
 0206858 TENDO EC SCAPTO C6 Ø1 1/4"x90  
 1320356 TENDO EC SCAPTO C6 Ø12x120  
 0206824 TENDO EC SCAPTO C6 Ø12x75  
 1320357 TENDO EC SCAPTO C6 Ø20x120  
 0206826 TENDO EC SCAPTO C6 Ø20x80  
 0206856 TENDO EC SCAPTO C6 Ø3/4"x80  
 0206828 TENDO EC SCAPTO C6 Ø32x90  
 20064358 TENDO EC SK40 Ø12x130  
 0206414 TENDO EC SK40 Ø12x50  
 0206415 TENDO EC SK40 Ø16x64.5  
 20064359 TENDO EC SK40 Ø20x130  
 0206416 TENDO EC SK40 Ø20x64.5  
 1420630 TENDO EC SK50 Ø20x130  
 1420631 TENDO EC SK50 Ø32x130  
 0206428 TENDO EC SK50 Ø32x81