

Innovative manufacturer of ultra-precise tool and workpiece motor spindles for milling, grinding, drilling and turning applications.



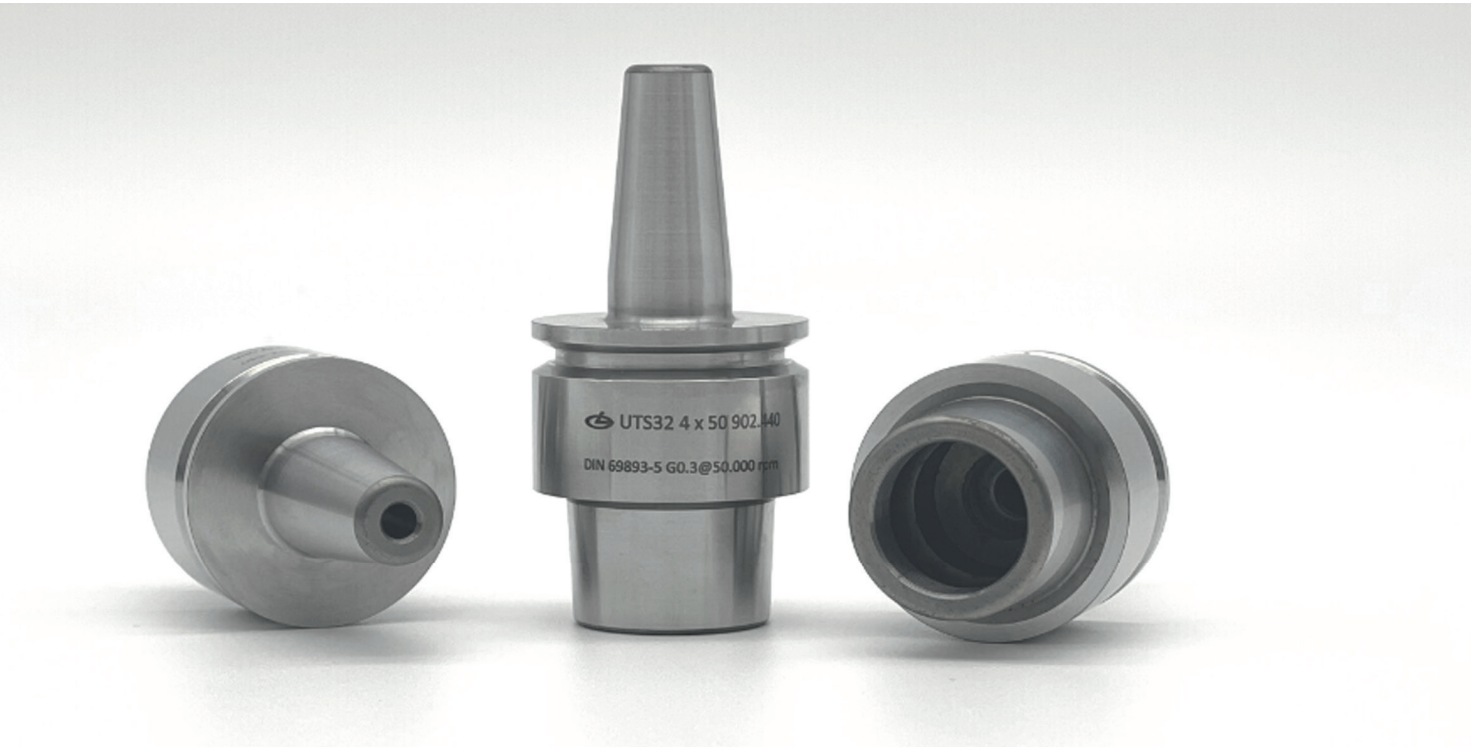
LEVICRON
NON-CONTACT PRECISION MOTION

Ultra-precise tool holders with HSK-interface according to DIN 69893: UTS-x



Tool holder - UTS-x

Ultra-precise tool holders with HSK interface according to DIN 69893 (HSK-20, HSK-25, HSK-32 and HSK-40)



About

Precise, dynamic, and stable tool clamping is essential for ultra-precise machining. According to DIN 69893, standard tool holders are only partially suitable for our tool spindles with the HSK interface. Most of them also do not meet the specified unbalance values. It's crucial to note that even the industry standard of G2.5 mm/s could significantly affect the results, making this a pressing issue that needs to be addressed. For this reason, we were forced early on to develop our **UTS-x** tool holder series by using highly specialized manufacturing technologies and innovative balancing methods.

Our **UTS-x** enabled us to realize an ultra-precision tool clamping with HSK interface according to DIN 69893 for the first time, which achieves a tool concentricity of 0.8 µm and a balanced quality of G 0.3 mm/s at 60,000 rpm.

General information at a glance

Interface/ Compliance DIN	HSK-E 20, HSK-E 25,HSK-E 32 and HSK-E 40 according to DIN 69893-E
Clamping technology	Thermal shrinking
Available clamping diameters, metric	8 mm, 6 mm, 4 mm und 3 mm
Available clamping diameters, inch	1/4", 1/8"
Guaranteed tool run-out*)	< 0.8 µm
Guaranteed balancing quality *)	< G0,3 mm/s at 60,000 rpm
Repeatability *)	< 0.2 µm

*) when using the Levicron tool spindle U/ASD-H25/A

Values of: May 2024

Overview of our unique tool holders

In addition, we offer customized tool holders with the spindle interface HSK-E 25, which is specially designed to accommodate fly-cutting discs or grinding discs.



Grinding wheel holder

for small to medium grinding wheel diameters



Flycutting-holder

for medium to large fly cutter discs



Shrink holder, radially adjustable

for mounting according to DIN-69893 for shrinking tools of different diameters, with radial alignment and balancing option

Data Sheet UTS-x

Order number	HSK	d1 (for h5)	d2, mm	d3, mm	L, mm	l, mm
UTS-20 (HSK-E 20)						
905.211	HSK-E 20, DIN 69893	3	7	11	35	15.5
905.212	HSK-E 20, DIN 69893	1/8"	7	11	35	15.5
905.213	HSK-E 20, DIN 69893	4	8	12	35	15.5
UTS-25 (HSK-E 25)						
901.857 *)	HSK-E 25, DIN 69893	8	15	22	55	45
901.6A0 *)	HSK-E 25, DIN 69893	6	12.5	18.6	80	34.5
901.655	HSK-E 25, DIN 69893	6	12.5	18.6	55	34.5
901.4A0 *)	HSK-E 25, DIN 69893	4	10	15.2	80	30
901.444	HSK-E 25, DIN 69893	4	10	15.2	50	30
901.233	HSK-E 25, DIN 69893	3	9	13.5	45	26
901.755	HSK-E 25, DIN 69893	1/4" (6,375)	12.5	18.6	55	34.5
901.333	HSK-E 25, DIN 69893	1/8" (3,175)	9	13.5	45	26
UTS-32 (HSK-E 32)						
902.230	HSK-E 32, DIN 69893	3	7.7	11.2	45	12
902.440	HSK-E 32, DIN 69893	4	10.2	14.4	50	18
902.4A0 *)	HSK-E 32, DIN 69893	4	10.2	17	80	18
901-650	HSK-E 32, DIN 69893	6	15.2	19.4	55	25
902.880 *)	HSK-E 32, DIN 69893	8	20	25	80	34
UTS-40 (HSK-E 40)						
903.8A6	HSK-E 40, DIN 69893	8	12.5	18.6	80	34.5
903.655	HSK-E 40, DIN 69893	6	10	15.2	55	30
903.444	HSK-E 40, DIN 69893	4	9	13.5	45	26

*) Special design, only on request

Values of: May 2024



UTS-25
Tool Holder



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