

NEW



F-SENSO FORCE MEASUREMENT SYSTEMS

Maximum control for the best results in your production



F-SENSO SPINDLE PULL-IN FORCE MEASUREMENT DEVICE

Ensure constantly high machining quality! By checking your tool clamping system regularly with the F-senso pull-in force measurement device, you can recognise changes in the clamping force even before they start to affect the machining quality.

GREATEST FLEXIBILITY

- ⊕ Interchangeable attachments for different hollow shank taper and steep-angle taper sizes
- ⊕ Simulation of the tool and spindle tolerances through scaled ring

BEST USER-FRIENDLINESS

- ⊕ Automatic storage of the last measured clamping force
- ⊕ Intuitive to use

CONFIGURATION PROVEN IN PRACTICE

- ⊕ Compact and ergonomic
- ⊕ Delivered in the practical hard-shell case



Included with delivery:

- Case with foam material inlay with space for matching adapters
- F-senso spindle force measurement device
- Battery and mounting bar

F-senso spindle	1266341
Measuring range kN	0-15
Accuracy	0.25% (f.s.)
Dimensions (base unit)	approx. ø66 mm; L=172 mm

F-senso spindle	1255729
Measuring range kN	10-100
Accuracy	0.25% (f.s.)
Dimensions (base unit)	approx. ø66 mm; L=189 mm

HSK-A/C/E/T	HSK-B/D/F	ID no.
20	-	1269725
25	32	1255735
32	40	1255736
40	50	1255737

HSK-A/C/E/T	HSK-B/D/F	ID no.
50	63	1255738
63	80	1255739
80	100	1255740
100	125	1255741
125	160	1255742

Matching adapter SK	ID no.
SK 30	1255743

Matching adapter SK	ID no.
SK 40	1255744
SK 50	1255745
SK 60	1255746

F-SENSO CHUCK FORCE MEASUREMENT DEVICE

Ensure the optimum use of your clamping tools by regular checking of the clamping force. Suitable for 3 jaw chucks and vices. Chucks at both the clamping force and the rotational speed is measured. The centrifugal behavior is thus directly related to the accompanying software evaluated.

GREATEST FLEXIBILITY

- ⊕ Broad clamping range of 75 - 175 mm through interchangeable pressure pins
- ⊕ Broad measuring range from 0 - 100 kN per jaw
- ⊕ Dynamic clamping force measurement under rotation up to 8250 rpm

BEST USER-FRIENDLINESS

- ⊕ Real-time data transmission via Bluetooth to included tablet
- ⊕ No additional attachments necessary on the machine
- ⊕ Intuitive to use with included software

CONFIGURATION PROVEN IN PRACTICE

- ⊕ Easy positioning through positioning aid
- ⊕ Automatic switch-off
- ⊕ Delivered in the practical hard-shell case



Included with delivery:

- Case with plastic foam inserts
- F-senso chuck force measurement head
- Pressure pins lengths: 5 mm, 15 mm, 25 mm and 30 mm
- Pressure pin extension length: 25 mm
- Practical positioning aid
- Tablet PC with preinstalled measuring and analysis program

F-senso chuck		179800
Measuring range / Clamping force	kN	2-jaws: 0 - 200
	kN	3-jaws: 0 - 300
Measuring range / Rotation speed	rpm	0 - 8250
Accuracy	(F / RPM)	Force <0.5% / Rotation speed ±10 rpm within the complete measuring range
Clamping diameter	mm	75 - 175
Dimensions	mm	Ø 75/80 x 130





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