

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

Matching adapter HSK	ID no.
HSK-E 20	1269725
HSK-A 25	1255735
HSK-A 32	1255736
HSK-A 40	1255737

Matching adapter SK	ID no.
SK 30	1255743

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

Matching adapter HSK	ID no.
HSK-A 50	1255738
HSK-A 63	1255739
HSK-A 80	1255740
HSK-A 100	1255741
HSK-A 125	1255742

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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