

# F-senso chuck clamping force measuring device



**With F-senso chuck, check both the clamping force as well as the speed behavior of the clamping device**

Maximum flexibility through large clamping range from 75-175 mm by means of exchangeable pressure bolts and large measuring range from 0-100 kN per jaw. Suitable for 3-jaw chuck as well as vices. Dynamic clamping force measurement under rotation up to 8250 rpm. For clamping chucks, both the clamping force as well as the speed are measured. The centrifugal force behavior is transferred to the Tablet (included in delivery) in real time via Blue-Tooth and is evaluated with the already-installed software.



Video F-senso chuck

## ADVANTAGES AT A GLANCE

- Direct output of the centrifugal force behavior through combined measurement of clamping force and speed
- Flexibility through large clamping and measuring range
- Easy handling without additional set-ups on the machine

F-senso chuck

### Included in the scope of delivery:

- Base with foam insert
- Clamping force measuring head, F-senso chuck
- Pressure bolts in lengths 5 mm, 15 mm, 25 mm and 30 mm
- Pressure bolt elongation in length 25 mm
- Practical insertion aid
- Tablet PC with pre-installed measuring and evaluation program



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### Clamping force measurement device F-senso chuck

Item no.	179800
Measuring range / Clamping force kN	2-jaws: 0 - 200; 3-jaws: 0 - 300
Measuring range / Rotation speed min-1	0 - 8250
Accuracy	Force <0.5% / Rotation speed ±10 rpm within the complete measuring range
Clamping Ø mm	75 - 175
Dimensions (base unit)	Ø 75/80 x 130

# Power-Grip zero-point clamping system



Palletizing systems, such as the Power-Grip zero-point clamping system from RÖHM, achieve a drastic increase in production. This modular system meets the demands for customized solutions with the best possible utilization of the machine capacity. While the machine tool was stopped for the time of the set-up operation before, now the workpiece can be clamped and positioned on the pallet outside of the machine tool.

The set-up time is now only limited to the changing in and out of the pallet within a few seconds. If several production processes are necessary for machining, the pallet can be used along with the workpiece without a zero-point loss. Due to the sturdy and rust-resistant design, the Power-Grip zero-point clamping system is universally suitable for applications ranging from cutting machining to electrical discharge machining all the way to measuring machines.

## ADVANTAGES AT A GLANCE

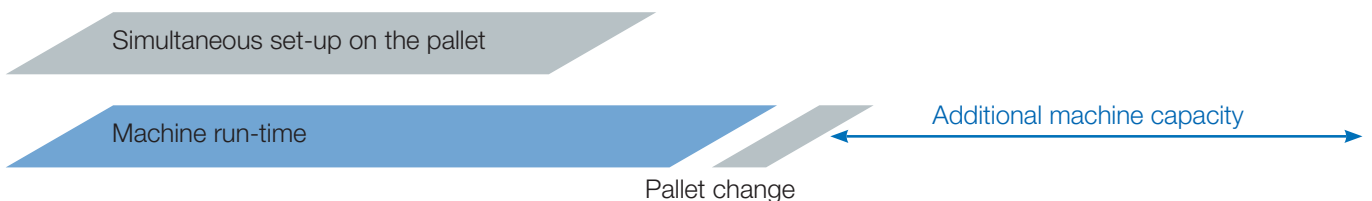
- ⊕ Increase in productivity thanks to set-up time reduction up to 90 %
- ⊕ Maximum precision and repeatability of 0.002 mm
- ⊕ Palletizing and clamping device from one source

## SET-UP TIME REDUCTION BY UP TO 90 %

### Without palletizing system



### With Power-Grip zero-point clamping system



Power-Grip zero-point clamping system