

# KNM 2X / 5X / 9X SERIES



**KAPP NILES**

**Measuring machines for spur and helical gears, rotors, bevel gears, gear tools, shafts etc.**



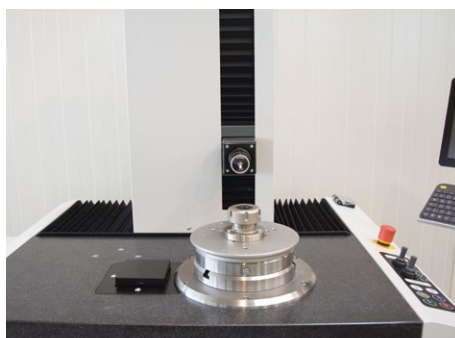
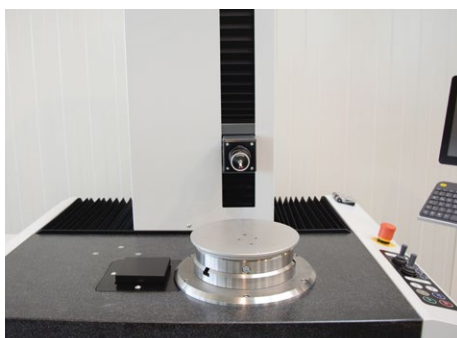
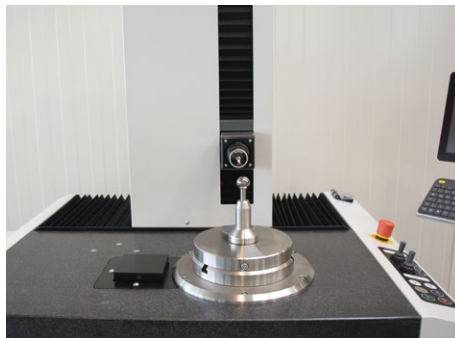
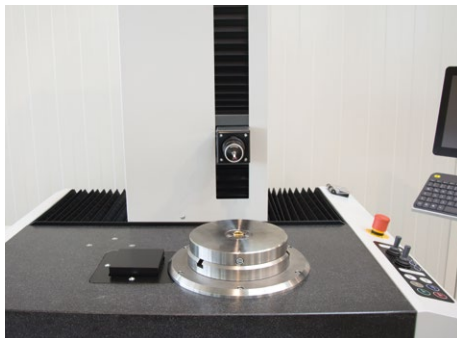
With KNM 2X / 5X / 9X series, KAPP NILES Metrology GmbH - manufacturer of the currently largest gear measuring machines (stationary or transportable) in the world – for the first time offers a newly developed series of state-of-the-art measuring machines for smaller workpieces.

**Ultimate highly precise measurement  
of smaller size gears in the lab  
or on the shop floor – no foundation required**

## Highlights of the KNM 2X / 5X / 9X:

- ultra-compact design
- machine structure with outstanding intrinsic accuracy and thermal stability
- large bearing distances of guides
- inherently stable granite machine base on air springs to absorb vibrations
- air spring system to absorb vibrations
- no need for a separate foundation
- drive system close to center of gravity
- linear motors in x-, y- and z-axes
- highly precise air bearing rotary table with direct drive
- "Smart" Tailstock
- "Smart" Quick Change Clamping System (option)
- flexible positioning of electrical cabinet
- state-of-the-art KNM C5 controller
- temperature compensation
- CAA technology for all linear axes **including tailstock**
- easy to use operator-friendly software (clear user interface, plausibility check)

## "Smart" Quick Change Clamping System



tailstock in park position



tailstock in working position

type	workpiece diameter [mm]	max. measurable face width [mm]	tailstock L / D [mm]	max. weight of workpiece [daN]
KNM 2X	0 - 300	450	480 / 300	80
KNM 5X	0 - 650	650	800 / 500	500
KNM 9X	0 - 1,000 (1,250)	1,000	1,200	1,500 (3,500)