

DIACATOR



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alignment gauge

The DIACATOR is an instrument with a stationary indicator and a rotating probe for fast and accurate concentric alignment of bores and shafts on most rotary machine tools.

Centering range

internal: 1,5 mm to 120 (340) mm
[0.06" to 4.72" (13.38")]

external: 5 mm to 110 mm
[0.2" to 4.33"]

Applications

Concentric alignment of bores and shafts on milling, drilling and boring machines etc.

Especially suitable for finding Datum positions on CNC machines.

Operation characteristics

Contrary to other aligning methods, the machine is in motion during the aligning operation. Thus alignment takes place under the same conditions (uniform oil film on spindle bearings and constant speed) as the subsequent work. The dial remains stationary and is positioned to face the operator so that he may conveniently and accurately follow the aligning process.

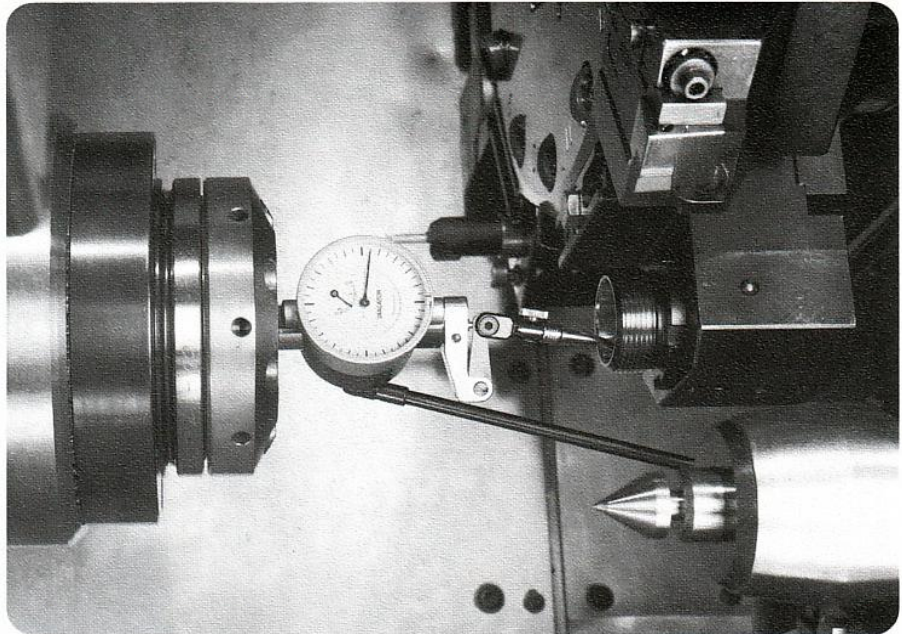
During alignment the revolving probe and the working spindle form a single unit. Possible off-center of the tool chuck caused by an inaccurate chuck, closer, sleeve, etc. in no way influences the centering operation or its accuracy.

Design features

The DIACATOR is mounted in two precision ball bearings that render it entirely free from play. The probe yoke is provided with a safety clutch as a precaution against damage to the instrument should the probe hang upon some obstacle while in motion.

Chucking possibilities

8, 10, 12 and 16 mm and 3/8", 1/2" and 5/8" draw-in collet chuck; three and four jaw chuck; inside morse taper MK 1.



Ratings

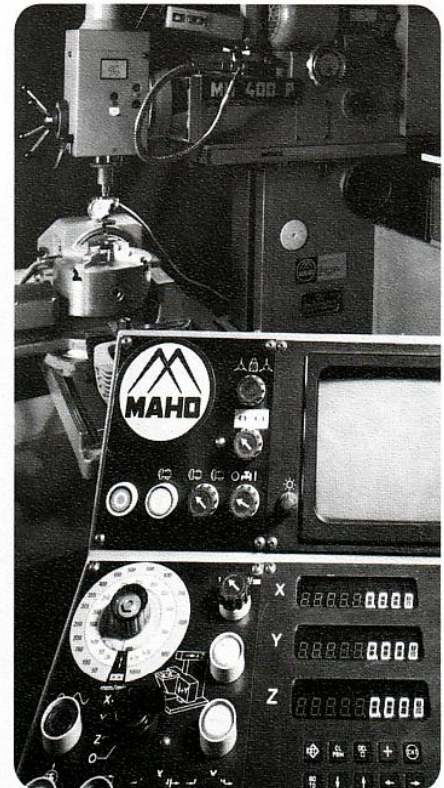
A standard set includes:

- Dial Indicator
- Morse taper MK 1
- Screw-on spacers 10, 12 and 16 mm or 3/8", 1/2" and 5/8" (please specify choice when ordering)
- Stop-rod 160 mm long
- Socket-head wrench SW 2 mm (.08")
- Hardwood case, instruction sheet, inspection certificate

Probe	Inside dia. mm	max. center. error μ m	outside dia. mm	max. center. error μ m
Pendul. Probe	1,5-5	10		10
Probe 25 mm	5-65	6	5-65	10
Probe 48 mm	10-120	8	10-110	10

Special probes (on request)

Probe	Inside dia. mm	max. center. error μ m	outside dia. mm	max. center. error μ m
Probe 100 mm	20-180	10		
Probe 125 mm	20-220	15		
Probe 150 mm	20-260	18		
Probe 200 mm	20-340	20		



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