

Alignment Tester FLZ

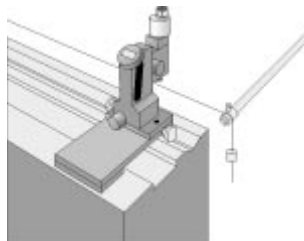


The FLZ alignment tester is a transportable microscope for the alignment of machine guides.

Set-up of the measuring instrument

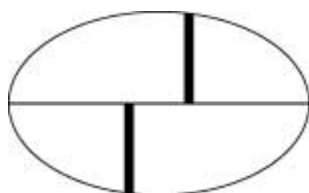
The measuring wire is fastened to the headstock or a special holding device, fed at the end of the base over a pulley and stretched tight with a weight (layout according to DIN 8606).

The alignment tester must be placed on the carriage of the machine or a corresponding device, which can be moved in a longitudinal direction in predefined steps on the machine base. The measuring wire must be aligned in such a way that the same values are measured in the starting and end position of the carriage, i.e. that it is tensioned to form an imaginary connecting line parallel to these positions.



Technical description

The microscope and the stand are connected by a dovetail guide. To bring the measuring wire into focus the microscope can be vertically adjusted by means of a pinion gear on the stand. Horizontally, the position of the microscope is recorded by a digital measuring system and indicated in a LCD display. Since horizontal movement is effected in the object plane, errors of the first order are ruled out. With a spirit level the alignment tester can be precisely installed in a horizontal position. The microscope, spirit level and plane mounting surface, which is provided with two drilled holes for the insertion of the fastening bolts, are aligned to each other.



Total magnification	approx. 44x
Horizontal adjustment range	10 mm
Vertical adjustment range	40 mm
Working clearance	approx. 25 mm
Resolution of the digital measuring system	0,001 mm
Weight to be attached with:	
Phosphor bronze wire	159 g
Steel wire	650 g
Total height	approx. 300 mm
Foot width	140 mm
Center to center distance of the mounting holes	110 mm
Diameter of the mounting holes	9 mm
Weight	4 kg
Functions of the digital measuring system	On/Off
	Zeroising (Inc/Abs)
	Preset (preselection)
	Tolerance
	+/- Preceding sign selec.