



Product Information

Bending Fatigue Testing Machine 180°

For Wire Samples according to DIN EN ISO 15630 and ISO 7801





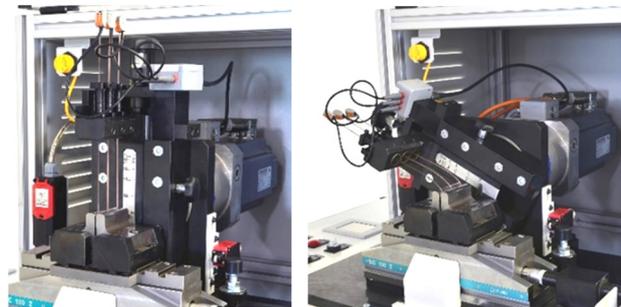
Application:

The facility is used for bending fatigue tests according to DIN EN ISO 15630 and ISO 7801 on wires with diameters of 0.3mm to 10.0mm (max. tensile strength 2.000MPa). The wire samples are bent with a 90° angle to the left and to the right. The lower end of the wire is clamped into a screw terminal and guided through a pair of bending rolls. The rolls ensure bending defined by the wire diameter. The upper end of the wire is clamped into a movable, motor-driven bending arm. The bending arm is driven by a servomotor. The testing facility is adjustable according to the standard indicated above. The detection of the specimen breakage is based on the electrical conductivity. Up to 3 samples can be tested at the same time

Functional principle:

The lower end of the wire is clamped into a screw terminal and guided through a pair of The wire samples are of a defined length. They are bent with a 90° angle to the left and to the right. The angle deviates by max. +/- 3°. The rolls ensure defined bending depending on the wire diameter. The bending rolls can be exchanged.

The upper end of the wire is clamped into a movable, motor-driven bending arm. The bending arm is driven by a servomotor. The testing facility is adjustable according to the standard indicated above



Technical data:

Test materials	Wire samples with a diameter between 0.3 - 10.0mm and a max. tensile strength of 2.000MPa 3 specimen: 0,3mm ≤ 2mm 2 specimen: 2mm ≤ 5mm 1 specimen: 5mm ≤ 12mm			
Bending speed	max. 180° bending per second (longer intervals can be set)			
Drive	Servomotor			
Control and Evaluation Electronics	Parameters that need to be entered: number of cycles, bending speed Output parameters on digital display: cycle counter, number of cycles at sample fracture			
Dimensions (WxDxH)/ Weight	1030mm x 800mm x 1385mm/ 300kg			
Connection	3P/ PE/ 400V/ 50Hz/ (TN- network) 4.0kW, 5 - 40°C, 20 - 80% humidity			
Necessary accessories	Bending grips for different wire diameters:			
	41-028-210	0,3mm - 0,5mm	41-028-218	4,0mm - 5,0mm
	41-028-211	0,5mm - 0,7mm	41-028-219	5,0mm - 6,0mm
	41-028-212	0,7mm - 1,0mm	41-028-220	6,0mm - 7,0mm
	41-028-213	1,0mm - 1,5mm	41-028-221	7,0mm - 8,0mm
	41-028-215	1,5mm - 2,0mm	41-028-222	8,0mm - 9,0mm
	41-028-216	2,0mm - 3,0mm	41-028-223	9,0mm - 10,0mm
	41-028-217	3,0mm - 4,0mm	41-028-224	5,5mm - 12,0mm

Your contact person: