

CONICAL MANDREL TESTER



- Determination of the elongation / flexibility and adhesion of a coating of paint, varnish or related product and their resistance to cracking and/or to detachment from a substrate at bending stress
- Safe and easy clamping of the test panels with only one screw for fastening
- Big clamping range for test panels with thicknesses up to 4 mm (0.16")
- Robust design, no corrosion
- No maintenance necessary
- Easy to handle

Application areas

- Laboratory test apparatus for the paint, varnish as well as the manufacturing industry
- Practically applicable to all single and multi-coat systems on test panels
- For quality control, research and development

Handling

- Carry out the determination at least in triplicate
- Insert the test panel and clamp it tightly
- Bend the test panel evenly and without jerking over the cone through 180° in a period of 2-3 seconds
- Mark the end of the crack that is furthest from the small end of the cone
- Read off the cone diameter at the end of the crack
- Release the test panel from the mandrel tester and evaluate it.

Technical specifications

Material cone	Stainless steel
Material remaining parts	Chromium-plated steel
Length	324mm
Width	350mm
Height	150mm
Length cone	203mm
Biggest diameter cone	38mm
Smallest diameter cone	3.1mm
Scale	Ø 5mm - 35mm
Resolution	1 mm
Length test panels	max. 200mm
Width test panels	max. 130mm
Max. thickness test panels	
Steel	Max. 1 mm
Aluminium	Max. 2 mm
Materials with less bending stress than aluminium	Max. 4mm
Weight	10,7 kg
Standards	ASTM D522, DIN EN ISO 6860 FED-STD 141C FTMS 141 methods 6222 & 6223 (with-drawn)