

Mandrel Winding Tester

Model MW, MW1



Test procedure

A wire specimen shall be wound for ten contiguous turns around a polished mandrel of the diameter given in the relevant specification sheet. The mandrel shall be rotated between 60 and 180 RPM, the tension of the wire being just sufficient to keep it in contact with the mandrel. Elongation or twisting of the wire shall be avoided.

After winding, the specimen shall be examined for cracks under a magnification of:

- 10 to 15 times for nominal conductor diameters up to and including 0.04 mm.
- 6 to 10 times for nominal conductor diameters over 0.04 up to and including 0.5 mm.
- Normal vision or up to six times for nominal conductor diameters over 0.5 mm.

Three tests shall be made.

System description

- Suitable for wire diameter from 0.04 up to 1.60 mm (46 – 14 AWG)
- DC motor with gearbox adjustable rotation speed 10 - 100 rpm. (100 up to 2000 rpm with digital tachometer model MW1)

System description

- Digital revolution counter up to 9999 with a pre-selectable number of turns (mod. MW1)
- Supplied with a complete set of 36 mandrels:

0.40 – 0.45 – 0.50 – 0.60 – 0.70 – 0.80 – 0.90 – 1.00 – 1.10 – 1.20
 1.30 – 1.40. – 1.50 – 1.60 – 1.70 – 1.80 – 1.90 – 2.00 – 2.10 – 2.20
 2.40 – 2.60 – 2.80 – 3.00 – 3.20 – 3.40 – 3.60 – 4.00 – 4.50 – 5.00
 5.50 – 6.00 – 6.50 – 7.00 – 7.50 – 8.0 mm

Specifications

Model	MW	MW1
MW, MW1		
Dimensions		
Dimensions (WxDxH)	205x385x185 mm	290x350x360 mm
Weight	6.5 kg / 14.3 lb	27 kg / 59.4 lb
Power supply		
Volt	100-230 V	100-230 V
Hertz	50/60 single phase	50/60 single phase
Volt-amperes	50	70
Standards		
IEC	60851-3.5	60851-3.5
JIS	C 3216-3	C 3216-3
NEMA	MW 1000	MW 1000
Options		
WEI	Loading and test weight for thermal/solvent self-bonding test.	
MAN	Mandrels	