STANDARDS TEST FIXTURE

Motorized O-Ring Tensile Tester ISO 4074

Motorized roller fixture for tensile tests on rubber O-rings to ISO 4074 and DIN 53504



OVERVIEW

Motorized tensile strength tester for standardized rubber O-rings according to ISO 4074, BS 3704, DIN 53504 and ISO 5893. The ring is stretched over two rollers that are rotated by an AC servo motor at 1–25 r/min, distributing strain evenly around the ring during the test. Rated for 10 kN; rollers are ordered separately.

KEY FEATURES

- Motor-driven rollers rotate the ring for even strain distribution
- Variable roller speed from 1 to 25 r/min
- AC servo motor, 24 V, 5 Nm
- Hardened steel rollers from Ø 3.18 to 28.3 mm
- Lightweight anodized aluminum body, 3 kg
- Rated for loads up to 10 kN

TECHNICAL SPECIFICATIONS

Max. load	10 kN
Test type	Tensile, O-rings
Standards	ISO 4074, BS 3704, DIN 53504, ISO 5893
Rotation speed	1–25 r/min
Drive	AC servo motor, 24 V, 5 Nm
Power supply	220 V mains adapter, 24 V, 1 A
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin
Material	Aluminum, anodized
Weight	3 kg

AVAILABLE VERSIONS

Rollers Ø 15 mm	BS 3704, ISO 4074
Rollers Ø 18.3 mm	DIN 53504 R2
Rollers Ø 22.3 mm	DIN 53504 R1
Rollers Ø 4.5 mm	ISO 5893
Rollers Ø 25 mm	ISO 5893, large rings
Other rollers	Ø 3.18, 4.75, 6.35, 12.7, 20, 28.3 mm

APPLICATIONS

- O-ring and seal manufacturers
- Rubber compound testing
- Automotive and hydraulic seals
- Elastomer laboratories

STANDARDS ISO 4074, BS 3704, DIN 53504, ISO 5893

Ordering & customization: Specify O-ring sizes and standards so the matching roller pairs can be supplied, plus the machine coupling.

Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-ST-570

Motorized O-Ring Tensile Tester ISO 4074

DIMENSIONAL DRAWINGS

FIG. 1

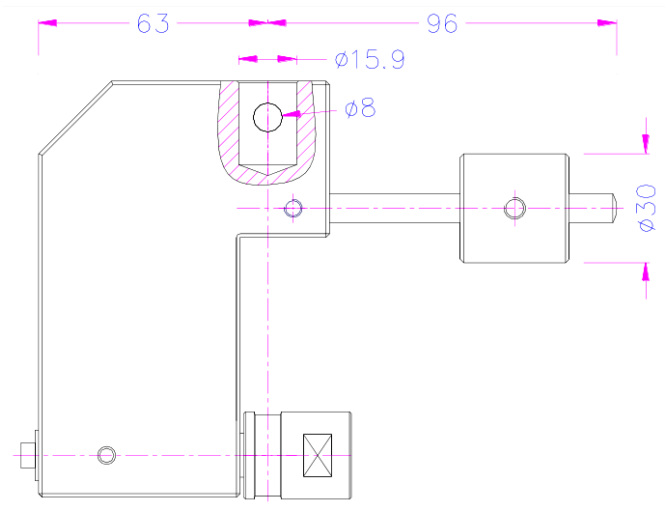


FIG. 2

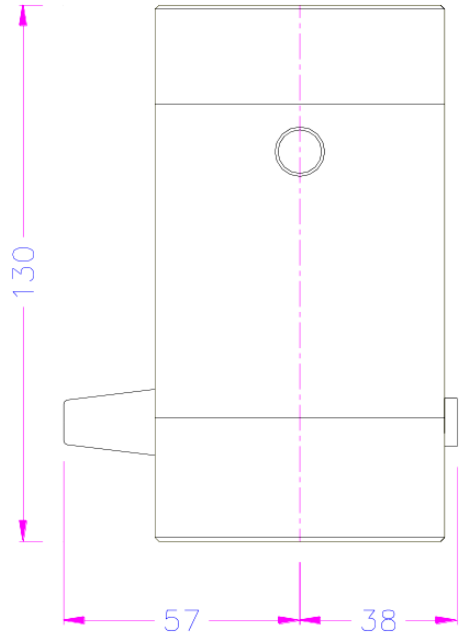


FIG. 3

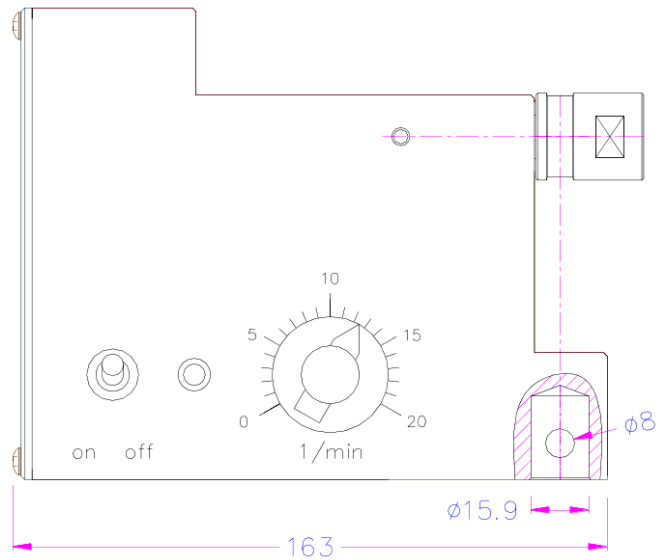
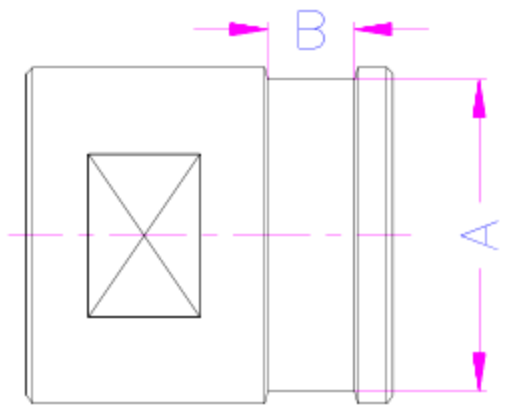


FIG. 4



Dimensions in mm. Drawings are representative of the product family and may show optional versions or accessories; dimensions are for reference only and may change without notice. Certified dimensional drawings and 3D models are available on request.