

T-13 CROSSED-CYLINDER BRUGGER TRIBOTESTER

TECHNICAL CHARACTERISTIC

T-13 Brugger Tribotester is intended for determining wear preventive properties of lubricants. The tested lubricants can be ranked with respect to their load-carrying capacity expressed by the so-called Brugger pressure. The advantage of the test is a very short run duration (30s) and low cost of the tester. So, it can be used for the purposes of e.g. quick demonstration of effectiveness of lubricants. Experiments can be carried out in accordance with the DIN 51347 standard.

The tribosystem consists of 2 cylinders crossed at the angle of 90°. The stationary, top cylinder (roller) is pressed at the required load against the bottom cylinder (ring) rotating at the defined speed. After the test the so-called Brugger pressure is calculated by dividing the load by area of the wear scar produced on the top cylinder.

The tribotester is equipped with the controller automatically shutting off the motor of the tribotester when the preset sliding distance (number of ring revolutions) is reached. The motor speed controller enables to measure and adjust the rotating speed.



TECHNICAL SPECIFICATIONS

▶ type of movement	sliding
▶ contact geometry	non-conformal (point)
▶ nominal top cylinder diameter	18 mm
▶ nominal outer ring diameter	25 mm
▶ rotating speed	960 rpm (sliding velocity 1,3 m/s)
▶ normal load	400 N (possible to be steplessly changed up to 650 N)
▶ run duration	30 s
▶ tribotester dimensions (W x H x D)	400 x 460 x 270 mm
▶ tribotester weight	36 kg
▶ power supply	230 V / 50 Hz
▶ max. power consumption	0.6 kVA

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