

Polishing & Skid Resistance

TG-207

Accelerated Polishing Machine

Polished stone value

IS 2386-4

Accelerated polishing machine for preparing polished stone specimens to IS 2386 (Part 4), with sand and emery feeds.

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Description

Fourteen specimens clamp around the flat rim of the road wheel to form a continuous stone surface 45 mm wide and 405 mm in diameter. The road wheel turns at 320 to 325 rpm.

A rubber-tyred wheel, 200 mm in diameter and 50 mm wide, presses on the stone surface with a total load of 40 kg. It turns freely on an axis parallel to the road wheel and runs exactly in line with it. The tyre is a smooth 8 × 2 pneumatic 4-ply hand-truck tyre of hardness 55 ± 5, inflated to 3.15 ± 0.15 kg/cm².

Separate feeds spread sand and water (about 12 g/min of sand and 20 g/min of water) or emery powder and water (about 2 g/min of emery and 5 g/min of water) evenly where the tyre meets the specimens.

A new tyre needs a 3-hour run-in with sand and 3 hours with emery on spare specimens before use, and should be replaced after 30 test runs or sooner if it wears unevenly. The machine must be bolted to a firm, level base of stone or concrete.

Supplied ready for use with operating manual and test certificate. Contact us for configuration options, accessories and calibration services.

Technical specifications

Specimens per run	14
Stone surface	45 mm wide, 405 mm dia
Road wheel speed	320–325 rpm
Tyre	200 × 50 mm, 8 × 2 pneumatic 4-ply
Tyre load	40 kg
Tyre pressure	3.15 ± 0.15 kg/cm²
Sand feed	~12 g/min sand + 20 g/min water
Emery feed	~2 g/min emery + 5 g/min water