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Product Name :

Motor Cycle Dynamometer Test Bench

Product Code :

SLE/MCE/55



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Description :

The Motor Cycle Dynamometer Test Bench lets a complete motorcycle run throughits gears while it stays in place. The driven wheel turns a grooved, non-slip chromeroller, a pneumatic clamp holds the bike without straps, and wheel and roller speedsensors follow the run. Fans built into the 3 mm steel chassis cool the engine, tyreand brake and draw the exhaust away.

Motorcycle dynamometer bench specifications

Parameter	Detail
Chassis	Monobloc chassis in 3 mm steel with chequer plate deck
Roller	Non-slip chrome roller with groove for alignment check, with safety brake
Wheel clamp	Pneumatic automatic wheel clamp; no straps required; one-person loading
Sensors	Wheel speed sensor and roller speed sensor
Access ramp	Integral folding ramp that doubles as a safety barrier
Cooling and extraction	Engine cooling fans, rear tyre cooling fan and exhaust gas extraction fan, all housed in the chassis; outlets for engine and exhaust pipes, rear tyre, brake and silencers; cover plates for the extraction inlets
Electric starter control	Optional
Test scope	Individual engine unit tests to vehicle tests; frame alignment check with the clamp and grooved roller together
Dimensions and weight	1600 × 900 × 1200 mm; 280 kg (approx.)
Product code	SLE/MCE/55
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Running tests on the motorcycle roller bench

Wheel slip study. Run the motorcycle in a middle gear and record wheel speed and roller speed at a steady speed, then again during a firm acceleration. Students convert both to surface speed, work out slip as the difference divided by roller speed, and explain why slip appears mainly when the tyre drives the roller harder.

Constant-speed fuel run. Hold a steady roller speed with the cooling fans and extra[illegible] and a digita[illegible]se the r[illegible] expla[illegible]

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