Email : sales@scilabexport.com
Phone: +91-7082934803

**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]