

MPK 720 Tubular Impact Tester

The **MapakPlus Tubular Impact Tester** is a manually operated instrument designed to evaluate the resistance and flexibility of paints and coating films under impact. A controlled falling mass is released from a selected height through the graduated guide tube, producing impact on the coated test panel through a ball indenter.

After impact, the coating is examined for cracking, peeling, flaking or detachment from the substrate. Its sturdy construction, adjustable drop height and simple operating mechanism make it suitable for routine laboratory and industrial quality-control testing.



Tubular Impact Tester with 1.81 kgs



Working Principle

The coated test panel is positioned and securely clamped on the base beneath the indenter. The 1.81kgs falling mass is raised to the required height using the graduated guide tube. It is then released to strike the indenter and transmit a controlled impact to the specimen. The coating is subsequently inspected for cracking, peeling, flaking or loss of adhesion.

Product Benefits

- Provides controlled and repeatable impact application
- Allows convenient adjustment of the drop height
- Enables quick visual identification of coating failure
- Offers stable specimen positioning during testing
- Requires minimal operating and maintenance effort
- Suitable for laboratory and production environments

Typical Applications

- Paint and coating manufacturing
- Automotive coating inspection
- Metal finishing and fabrication
- Appliance and sheet-metal industries
- Industrial quality-control laboratories
- Coating research and development
- Product comparison and batch testing

Specifications

Parameter	Specification
Falling mass	1.81 kgs
Guide-tube graduation	Up to 102 cm
Indenter-ball diameter	15.9 mm
Base construction	Powder-coated mild steel
Guide-tube construction	Powder-coated aluminium
Operation	Manual
Automation grade	Manual
Power requirement	Not required

Features and Functions

- Evaluates coating resistance to controlled impact loading
- Uses a 1.81 kgs falling mass
- Graduated guide tube displays centimetres
- Provides drop-height adjustment up to 102 cm
- Includes a 15.9 mm ball indenter
- Powder-coated M.S. base provides stable support
- Manual operation requires no electrical power
- Sturdy construction supports routine laboratory testing