MUNRO INSTRUMENTS

PROMAT

BRITISH PENDULUM

SLIP RESISTANCE TECHNOLOGY

The world's leading manufacturer of the British Pendulum Tester

The Pendulum Tester (also known as the Portable Skid Resistance Tester) is an essential tool for anyone with a duty to minimize the risk of accidents arising as a result of slippery floors and road surfaces.

- Measure the frictional resistance of any surface.
- Eliminate slip/skid hazards before they occur.
- Investigate the causes of accidents.

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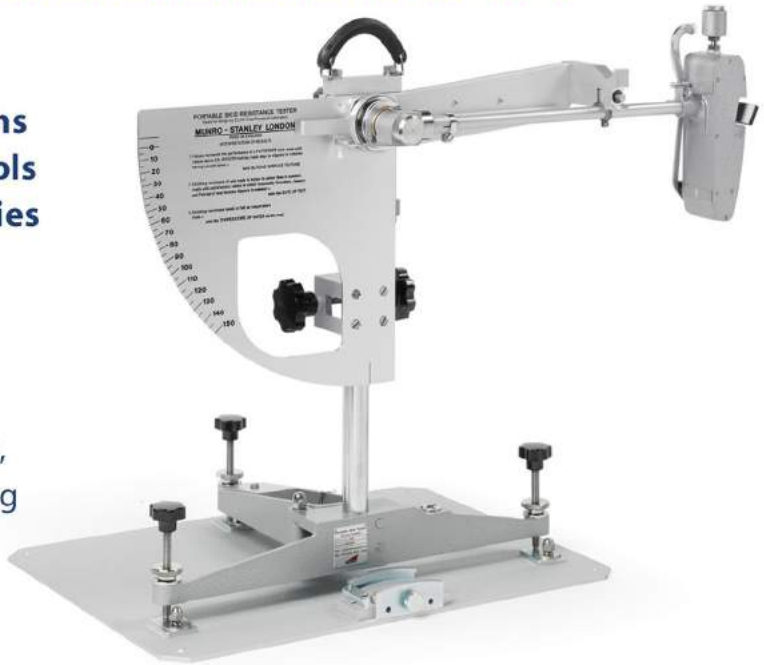
PORTABLE **SKID RESISTANCE** TESTER

Originally designed in the 1940s, the Portable Skid Resistance Tester remains one of the most reliable and useful tools for determining the frictional properties of pedestrian surfaces and roads.



It is used extensively around the world by health and safety consultants, floor and tile manufacturers, material testing laboratories, highway agencies, expert witnesses, building maintenance companies and many more.

Key Features

- Proven technology – preferred test method of the UK Slip Resistance Group (UKSRG)
- Easily transportable – suitable for field testing and laboratory use
- Compliant with all relevant international standards (including BS EN 13036-4, BS 7976, BS EN 1097-8, ASTM E303 and AS/NSZ 4586)
- Robust construction – capable of providing several decades of service

How it works

The Portable Skid Resistance Tester works according to the Izod principle. In operation, a pendulum of a known mass rotates about a vertical spindle. The head of the pendulum is fitted with a rubber slider which has a specific hardness and resilience. When released from a horizontal position, the pendulum head strikes the test surface with a constant velocity. The distance travelled by the pendulum after striking the surface is determined by the amount of friction. The Pendulum Test Value (PTV) can be read directly from the clearly engraved scale.

Get in touch for more information
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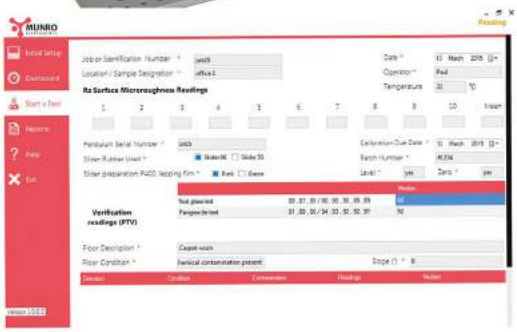
INTELLIGENT PENDULUM

The Intelligent Pendulum offers enhanced performance in all aspects of measurement, data capture and reporting.

Building on the trusted mechanical design of its predecessor, the Intelligent Pendulum represents the very latest in slip resistance technology.

Key Features

- The OLED digital display eliminates the risk of parallax error.
- On-screen instructions guide the user through each step of the test procedure ensuring correct use of the equipment.
- Measurements are sent wirelessly via Bluetooth from the device to a nearby laptop.
- Dedicated software generates test reports instantly.
- All data is stored for future recall.
- The time taken to conduct tests and issue reports is significantly reduced.



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BATH & SHOWER PENDULUM

Slips in the bath and shower are one of the most common causes of serious injury and fatality in the bathroom. This new product provides a useful and trusted method of assessing the slip risk posed by baths, shower trays and other confined spaces.

It is an innovative slimline adaptation of our traditional Pendulum Tester. Three moveable vacuum pads provide total stability whilst eliminating the risk of damage to delicate surfaces.

Key Features

- Based on an original design by Munro Instruments – unmatched in strength, accuracy and reliability.
- Elegant, slimline and intuitive.
- Excellent stability.
- Compliant with British and international standards.
- Also suitable for conventional use on roads, pavements and other surfaces.
- Retrofit your existing Pendulum Tester.

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Guidance Note 005

Slider Preparation

Introduction

A key benefit of the Pendulum test is its ability to recreate the hydrodynamic squeeze film behaviour seen in a wet heel-slip. Critical to this is the slider edge which models the heel. If the slider is not tightly controlled, and this extends to being prepared correctly, then the interaction between slider, fluid and test surface is altered and the results become unreliable.

Purchase of Rubber Sliders

Munro supplies all consumables required for accurate and repeatable Pendulum testing:

- Soft/Barefoot #55/TRL Rubber Slider (881032/1)
- Hard/Shod #96/4S Rubber Slider (881032/2)
- CEN (Skid Testing) Rubber Slider (881032/3)
- Narrow sliders
    - #55/TRL (881035/1)
    - #96/4S (881035/2)
    - CEN (881035/3)

The above are available direct from www.munroinstruments.com.

Preparing a New Slider Edge

Initial preparation of a new slider removes the 90-degree edge and replaces it with a working edge of approximately 1mm. The following should be carried out on all new sliders prior to use:

- Set up and machine and perform basic checks to ensure it is working properly.
- Install the new slider on the foot and set the appropriate contact patch on a sheet of P400 abrasive paper.
- Carry out 10 swings.
- Reset the footprint (which will have changed with the reduction in the size of the slider).
- Carry out 10 further swings.
- Check the slider edge for burring and gently remove it with a finger.
- Replace the P400 with lapping film (green for #55 and pink for #96).
- Wet the surface and carry out 20 swings, rewetting each time.
- Check the slider edge for burring and gently remove it with a finger.

Re-Facing a Working Edge

Refacing the slider ensures a consistent working edge, free from contaminants which may be present on a test surface, and devoid of any cuts, grooves or scratches which would alter test results. The following should be carried out on sliders between test surfaces:

- Check the slider working edge. If the edge is >4mm dispose of the slider.
- Set up and machine and perform basic checks to ensure it is working properly.
- Install the slider on the foot and set the appropriate contact patch on a sheet of P400 abrasive paper.
- Carry out 3 swings.
- Check the slider edge for burring and gently remove it with a finger.
- Replace the P400 with lapping film (green for #55 and pink for #96).
- Wet the surface and carry out 20 swings, rewetting each time.
- Check the slider edge for burring and gently remove it with a finger.

Slider Storage & Use

Sliders are sensitive to UV and temperature changes so for best performance it is recommended (UKSRG Guidelines 2016) that sliders are kept in the dark between 5°C and 23°C.

It is generally easier to reface sliders on a desk rather than in the field and refacing several sliders at once is more efficient. If you expect to be conducting numerous tests, consider purchasing a greater number of sliders so that you can arrive at site with a number of ready to use slider edges.

Sliders should be disposed of 12 months after the date of manufacture or when the working edge exceeds 4mm.