Guidance Note 005

Slider Preparation

Introduction

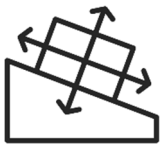
A key benefit of the Pendulum test is its ability to recreate the hydrodynamic squeeze film behaviour seen in a wet heel-slip. Critical to this is the slider edge which models the heel. If the slider is not tightly controlled, and this extends to being prepared correctly, then the interaction between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

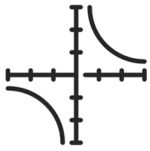
The above are available direct from www.munroinstruments.com.



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.