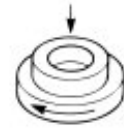
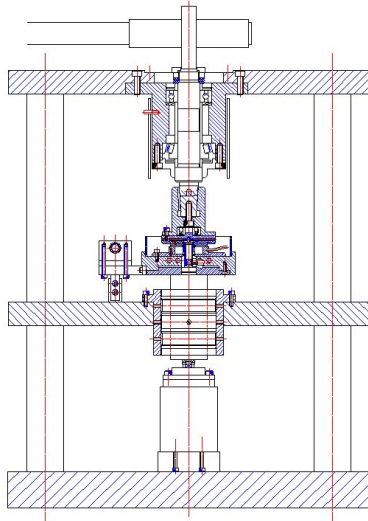


TRIBOLOGY UPDATE: ISSUE 21 - April 2008

This is the latest e-mail issue of our regular **Tribology Update** newsletter. Further information can be viewed at our web site: <http://www.phoenix-tribology.com>. Alternatively, you may wish to contact us by e-mail at info@phoenix-tribology.com or by telephone on 44 1635 276064.

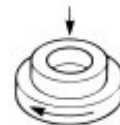
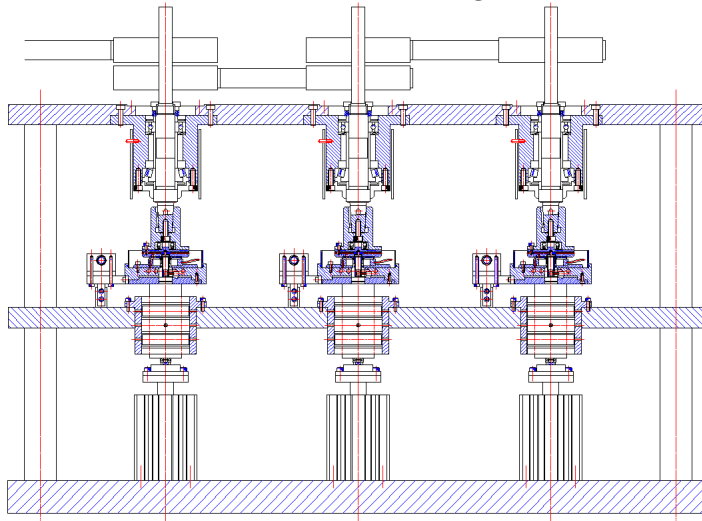
WORK IN PROGRESS:

Single Station Precision Thrust Washer Test Rig



We have completed a design study for a precision low load version of our standard TE 92 Rotary Tribometer. This incorporates an aerostatic bearing and servo controlled pneumatic bellows for load application, allowing the load range to be extended down to 1 N. The maximum load permitted is 1,000 N. Transducers are provided for measurement of load, friction, wear displacement and temperature.

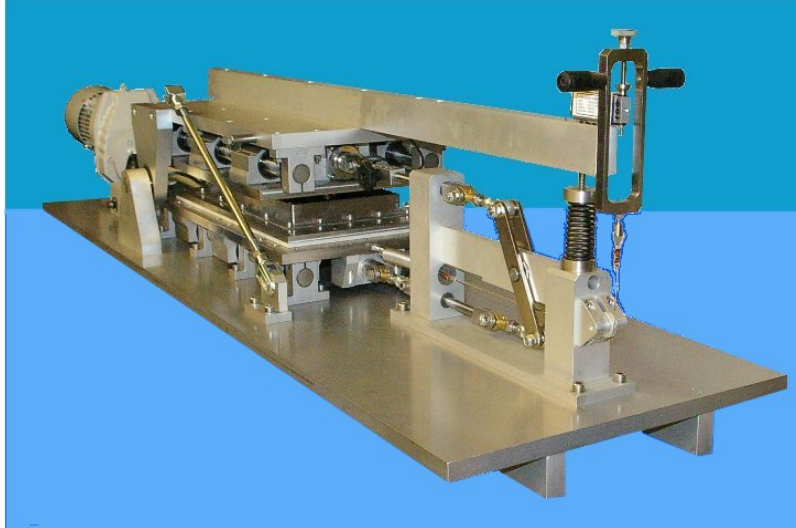
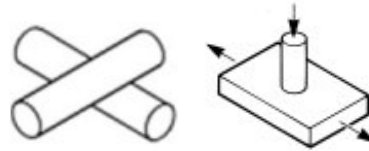
Multi-station Thrust Washer Test Rig



Similar design considerations have been applied to a multi-station thrust washer test rig for PV testing of polymers. In this case the load is applied by pneumatic cylinders with a manual pressure regulator. A force transducer is fitted to one cylinder only, to measure the resulting load, with all test stations subjected to the same applied pressure. The load range is 20 to 1,000 N, with measurement of friction, wear displacement and temperature.

IN PRODUCTION:

TE 69 Load Scanner



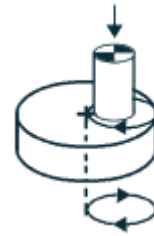
The first production Load Scanner is now complete. The design differs somewhat from the original Upsalla University design in the both specimens are indexed simultaneously, such that the load applied to the specimens varies linearly with displacement.

TE 86 Twelve-station Hip Joint Simulator



The first production Twelve-station Hip Joint Simulator, manufactured under licence from Helsinki University of Technology, has been delivered.

TE 87 Multi-station Circular Translation Pin on Disc Machine



The first two production Circular Translation Pin on Disc Machines, manufactured under licence from Helsinki University of Technology, have been delivered.

OTHER NEWS:

The Cambridge Tribology Course 2007/8

The 2008 will take place, from Wednesday 17th to Friday 19th September 2008.

Publications Library

In addition to a list of publications by machine, we have added to our web site a selected list of papers written by users of Cameron-Plint, Plint and Phoenix Tribology test machines. We are not permitted to provide copies of these papers, as this would breach copyright. Legal copies can be purchased either direct from the publishers or found on-line using a suitable search engine, such as Google Scholar.

A2 Technologies FTIR

We were joined on our stand at Esslingen this year by Graham Miller of A2 Technologies, who was demonstrating the company's simple to use, portable and robust FTIR instruments. These allow rapid analysis of water, oxidation, additives, etc, to be performed on a single drop of oil. Although primarily aimed at the condition monitoring market, we feel that these instruments could be a useful addition to any tribology laboratory. For further information contact info@a2technologies.com.



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