

PaperSchmidt

Designed specifically for the paper industry to cut costs and increase winding machine efficiency.

The need for roll testing

Irregular rolls and other defects such as corrugations and telescoping are caused by non-uniform paper roll hardness profiles are a major cause of lost production for both producers and converters alike. A reliable measurement of the roll hardness profile is of critical importance in deciding whether a roll is good or bad. Production staff needs to be able to test quickly and reliably and to interpret the results as efficiently as possible. This type of testing can be done on all types of rolled materials such as paper, films, and foil.

Application

PaperSchmidt is the first rebound test hammer designed specifically for roll hardness testing. A new hardness test measuring principle and a high compliance plunger provide roll-profiling accuracy and repeatability that was unachievable before now. In addition to this it has an extended lifetime to cope with the heavy demands of the paper industry and dedicated tools, such as pre-defined tolerances that make assessing a profile a simple matter.

Benefits to the customer

- **Accurate Profiling:** Sensitivity and repeatability to a degree unmatched by conventional roll testers. Dedicated firmware allows instant analysis of the data on the instrument's display.
- **Durability:** The PaperSchmidt has a vastly improved service lifetime compared with traditional instruments.
- **Ease of use:** Intuitive operator interface (displaying hardness, profiles, limits, roll IDs, etc.). Automatic reloading and automatic data storage allows the fastest possible test performance.
- **Data export and analysis:** The Paperlink software provides simple tools to make a clear assessment of the results.



Supplied with:

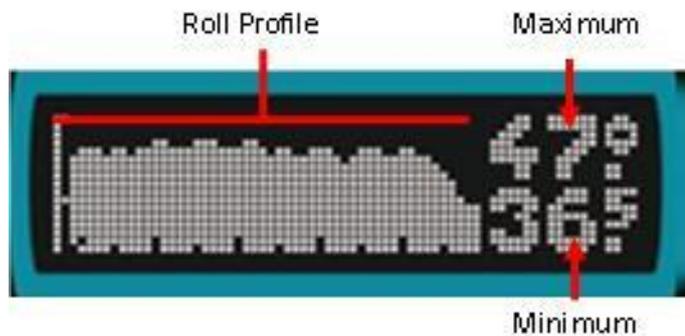
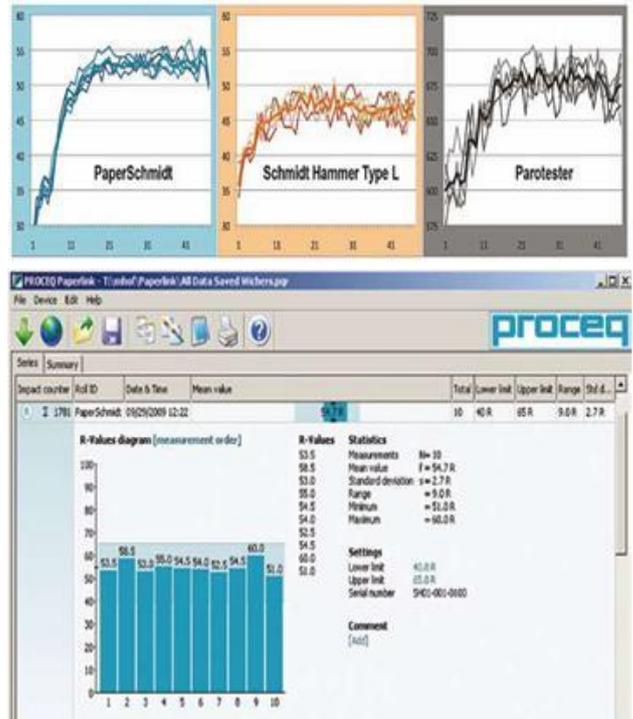
- Battery charger with USB-cable
- CD with Paperlink software
- Carrying strap
- Documentation
- Carrying bag

PaperSchmidt

Exceptional Roll Profile Accuracy

The PaperSchmidt's unique design combines the simplicity of the test hammer method with accuracy that was previously only achievable with much more expensive instruments. As illustrated in the picture to the right, the PaperSchmidt provides a lot of useful information about the roll profile. Additional statistics are also possible.

The following graphics show comparison tests made with the PaperSchmidt, a classical Schmidt hammer and the Parotester. Repeatability has also traditionally been an issue in the paper industry. Again the PaperSchmidt excels in this. A roll with a soft edge was tested using the three different roll profile test devices based on rebound. The step interval was 2 cm, subsequent scans were spaced 4 cm. Five passes were done with each instrument. Each test series was done in a new data acquisition file. The results of the single passes and the average are plotted. The PaperSchmidt clearly excels in sensitivity, specificity and repeatability.



Paperlink - Data Analysis Made Simple

The Windows based software Paperlink, developed by Proceq SA, makes it possible to download, present and edit data measured by the PaperSchmidt in a fast and easy way using a PC. This allows the user to quickly check the roll profile against user defined tolerances. It also allows the user to define roll identifier names for batch testing and download these onto the hammer. All data can be exported to third party applications.

System requirements:

- Windows XP, Windows Vista, USB-Connector
- An internet connection is necessary for software and firmware updates when available.

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

Other Equipment

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclometers, Extensometers, Tiltmeters, Load Cells and Dataloggers