Struers Duramin Hardness Testers

Did you know...
The new Duramin range represents the latest generation of highly successful hardness testers. With 30 years of experience within hardness testing Struers is committed to constant improvement by listening to our customers and understanding their evolving needs.

Customizable Test Reports
Test reports can be easily generated and measurement data exported. Report templates are customizable via an easy report editor.

Application modules
A number of application specific modules are available for the various equipment, e.g. for weld testing, fracture toughness measurement (Kc), hardness testing of ammunition casings or color mapping.

Easy access
All machines are designed with serviceability in mind.

All micro/macro and universal machines come with an automatic 6, 7 or 8-position turret as standard.
Micro/macro Hardness Testers

Duramin-4

Entry level Vickers hardness tester — optimal repeatability and easy operation.

- Manual indent evaluation via eyepiece
- Manual XY-stage and Z-axis
- Automatic 6-position turret
- Available in two load ranges: 10 gf - 2 kgf and 1 kgf - 62.5 kgf

This entry-level range of micro hardness testers primarily targets Vickers testing, but can also be used for Knoop and Brinell testing. The Duramin-4 testers are equipped with a combination of manual and automatic features to ensure easy operation.
Micro/macro Hardness Testers

Duramin-40

Versatile hardness testing that ensures repeatability over a wide load range.

- Manual and motorized XY-stage
- Motorized Z-axis
- Overview camera option
- Duramin-40 comes with three load ranges: 10 gf - 10 kgf, 10 gf - 31.25 kgf, and 1 gf - 62.5 kgf

Duramin-40 is the primary range of Struers micro/macro hardness testers. It is available with a manual and motorized XY-stage and with an overview camera. The tester includes an integrated PC with a separate monitor for touch screen or mouse operation. Dual monitors are also an option. The test cycle is fully automatic and a motorized 6-position turret is standard. Add-on modules include Kc fracture measurements, mapping and weld measurements.

Duramin-100

A powerful solution, combining micro and universal testing in one efficient machine.

- Motorized XY-stage
- Automatic &-position turret
- Motorized test head
- Comes in three load ranges: 10 gf - 62.5 kgf, 10 gf - 150 kgf, 10 gf - 250 kgf

Duramin-100 range combines both a micro and universal tester. The top model covers a wide load range from 10 gf to 250 kgf, and includes a motorized XY-stage, motorized test head, overview camera, laser guide and 8-position turret. Duramin-100 is available in 3 load ranges and is suitable for Vickers, Brinell and Rockwell hardness testing. Add-on modules include Kc fracture measurements, mapping and weld measurements.
Universal Hardness Testers

Duramin-600

Robust and automatic universal hardness testing.

- Automatic 6-position turret
- Ring-light with dark field illumination for the testing of soft metals
- Optional motorized Z-axis for large samples
- Available in three load ranges: 1 - 250 kgf, 3 - 750 kgf, 5 - 3000 kgf

Duramin-600 is designed to survive the toughest production environment. It is a universal hardness tester, operated by a robust touch screen, and comes available in three load ranges and with optional motorized Z-table for larger samples.

Duramin-650

Versatile universal hardness testing that ensures repeatability over a wide load range.

- Motorized test head
- Motorized XY-stage (optional)
- Embedded PC, operated by mouse or touch screen
- Available in three load ranges: 1 - 250 kgf, 3 - 750 kgf, 5 - 3000 kgf

Duramin-650 is the universal tester suited for laboratory use. Each model in the range has a motorized test head and turret, and is available either with a fixed anvil or with a motorized XY-stage and overview camera, primarily suitable for high volume testing. Duramin-650 is available in three load ranges.
**Brinell Hardness Tester**

**Duramin-3000**

Robust and dependable Brinell hardness testing.

- Robust load-cell based Brinell tester
- Handheld zoom camera for automatic indent evaluation
- Embedded PC, operated by mouse or touch screen
- Wide load range: 62.5 - 3000 kgf

Duramin-3000 is single task Brinell tester. It is a basic, low cost model, but tough enough to withstand the production environment. The machine is designed to handle different sample sizes and shapes. The indent evaluation is carried out with a handheld camera.

**Rockwell Hardness Testers**

**Duramin-150**

Robust, reliable and automatic Rockwell hardness testing – immediate accuracy and short cycle time.

- Robust load-cell based Rockwell tester
- High efficiency
- Automatic start function
- Load range 3 - 150 kgf

Duramin-150 is an economic, entry-level Rockwell tester. It is load-cell based, easy to operate and is designed to last, which makes it ideal for production environments.
Rockwell Hardness Testers

Duramin-160

Reliable and automatic – premium Rockwell hardness testing.

- High precision load-cell based Rockwell tester
- Embedded PC, operated by touch screen
- Optional motorized Z-axis
- Load range 1 - 250 kgf

Duramin-160 is a high precision Rockwell tester suitable for various sample sizes. It is operated from an integrated touch screen and is optionally available with a motorized Z-axis.

Duramin-170

High capacity Rockwell hardness tester, for large samples or high volume testing.

- High capacity Rockwell tester
- Motorized test head
- Motorized XY-stage (optional)
- Load range 1 - 250 kgf

This is a high capacity Rockwell tester, with a motorized test head and an optional motorized XY-stage. Duramin-170 is particularly suitable for Rockwell testing of large or tall samples or for fully automatic Jominy testing.