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

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 motorised XY-stage, motorised 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.

- Suitable for Vickers, Knoop, Brinell and Rockwell hardness testing
- Comes in three load ranges: 10 gf – 62.5 kgf, 10 gf – 150 kgf, 10 gf – 250 kgf
- Automatic 8-position turret
- Motorised test head
- Motorised XY-stage
- Automatic illumination
- Automatic height adjustment
- Anti-collision system
- Overview camera
- Laser positioning system
- Report editor
- Embedded PC, operated by mouse or touch screen
- Other features include: mapping, edge detection, welding measurement, fracture measurement and Jominy testing
Duramin-100 AC1 Duramin-100 AC2 Duramin-100 ACS

LOADS AND APPLICATIONS
Load range (main loads) 10 gf - 62.5 kgf 10 gf - 150 kgf 10 gf - 250 kgf
Vickers capability Yes Yes Yes
Knoop capability Yes Yes Yes
Brinel capability Yes Yes Yes
Rockwell capability No Yes Yes
HVT/HVB No No Yes

STAGES AND TURRETS
XY-stage Automatic Automatic Automatic
XY-stage or anvil size (mm) 350x225 350x225 350x225
XY-stage stroke, max (mm) 220x120 220x120 220x120
Vertical capacity (mm) 145 145 145
Throat depth (mm) 230 230 230
Motorized Z-axis Yes Yes Yes
Motorised turret Yes Yes Yes
Turret positions 8 8 8
Anti-collision protection Yes Yes Yes
Machine weight 210 kg 210 kg 210 kg

CAMERAS AND OPTICS
Overview camera Yes Yes Yes
Overview cam FOV 200x160 200x160 200x160
Overview camera resolution 5 MP 5 MP 5 MP
Evaluation camera resolution 5 MP 5 MP 5 MP
Auto illumination Yes Yes Yes
Stage illumination Yes Yes Yes
Laser guide Yes Yes Yes
Dual view Optional Optional Optional

SOFTWARE AND MODULES
CHD measurement Yes Yes Yes
Edge detection Optional Optional Optional
Mapping Optional Optional Optional
Welding module Optional Optional Optional
Kc fracture meas. Yes Yes Yes
Report editor Yes Yes Yes
Data export Yes Yes Yes

INTERFACE AND CONNECTIVITY
Operation Embedded Windows 10 PC with 15” touch screen. Mouse and keyboard operation is optional.
Communication Ports HDMI, VGA, RJ45, WLAN, USB, RS232
WiFi Yes Yes Yes
Blue tooth Optional Optional Optional