ROCKWELL TYPE HARDNESS TESTER CV-600D ™

Bright LCD display with hardness conversion, tolerance check, built-in printer and data-output

- Digital LCD reading of 15 regular Rockwell scales!
- Conversion to all other hardness scales such as Vickers and Brinell
- Menu operated LCD screen with many functions such as GO/NO GO judgement, Conversions, Load cycle indication, Date, Time
- Integrated printer for test result and statistics
- RS-232 data output to Microsoft Hyperterminal, 'Win Wedge' etc
- Accuracy, reliability and durability at extremely affordable price
- Rugged construction, will stand up to the harshest environments
- Accuracy conforms to EN-ISO 6508 and ASTM E-18
- Easy load force selection by robust dial knob
- Large working space accomodates also larger specimen
- Standard delivery including accessories ready for testing
- Electronic software calibration mode

Technical specifications

Rockwell scales	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V
Display conversion to	HV, HB, HR scales
Hardness resolution	0.1 of a Rockwell unit
Test loads	60, 100, 150kgf (10kgf preload)
LCD Display	Hardness value, Rockwell scale, Test force indicator, Dwell time, limits with tolerance check GO/NG, number of tests, X-bar average, standard deviation, range R
Data entry	Membrane keypad
Test force application	Automatic main load application
Dwell time	4-99 sec
Data output	Built-in printer and RS-232C
Accuracy	Conforms to EN-ISO 6508 and ASTM E-18
Specimen accommodation	Vertical space 170mm (6.7") Horizontal space (from centre-line) 165mm (6.5")
Specimen access	External surfaces, Cylindrical surfaces down to 3mm diameter
Power supply	220/240V 50Hz
Machine dimensions	227mm x 516mm x 715mm
Net weight	85kg

Standard delivery

- CV-600D main unit
- Built-in thermal printer
- Data-output RS-232C
- Diamond Rockwell indentor
- Rockwell ball indentor 1/16"
- Spare balls 1/16" (5 pcs)
- Flat anvil ø 60mm
- Flat anvil ø 150mm
- V-anvil ø 40mm
- Hardness test blocks: ±60HRC, ±40HRC, ±85HRB
- Power cable
- Fuse 1A (2 pcs)
- Adjustable feet (4 pcs)
- Spindle protection cover
- Solid accessories case
- CV Instruments certificate
- Installation & users manual

Optional accessories

- Clamping nose
- Certified test blocks
- Certified indentors & balls
- Pedestal spot anvil ø 10mm

HARDNESS ACCESSORIES CV-600 SERIES ™

Selection of anvils for correct hardness testing

Tips on using an anvil for accurate hardness testing

- To keep the test specimen stable and provide support, always use the smallest anvil possible.
- When using test blocks, a pedestal spot anvil is recommended.
- Always ensure that the anvil's top surface and its supporting contact surface are free of dirt, swarf, oil or corrosion.
- If the indentor or other object has left a mark on the anvil test surface or seat, the anvil will cause false readings and should be replaced.

Testing table large
The ø 150mm table is the most popular work support for large test specimens. The table is screwed onto the elevating screw.
The vertical capacity will be reduced by about 25mm.

Flat anvil
The ø 60mm flat anvil is used to support many flat specimens perpendicular to the indentor.

V-anvil
The standard V-anvil is used with cylindrical shaped rods or tubes of ø 6mm or larger. (Not suitable for thin wall or soft tubing).

Pedestal spot anvil
The ø 10mm spot anvil is used with small parts and sheet metal where not much support is required.
This anvil should be used with test blocks.

Cylindrical anvil
This anvil is designed to support cylindrical work and has a capacity of 50mm to 203mm (2"-8"). A smaller version is also available from 6mm to 76mm (1/4"-3").

Eyeball anvil
Mounted on an elevating screw, this anvil is designed for test pieces that have a slight taper. The ball is clamped into position by a clamping nut which allows the indentor to come into contact with a flat surface.

Clamping protection nose
Device to be mounted on indentor head, to keep the specimen in place by internal spring force, and to protect the indentor against collision.