

ROCKWELL TYPE HARDNESS TESTER CV-600A™

Ready-to-test analogue Rockwell type tester with lever system for direct load application

- Basic regular Rockwell type tester offering accuracy, reliability and durability at an extremely affordable price
- Rugged construction, will stand up to the harshest environments
- Direct analogue reading of Rockwell scales HRC, B, A, F
- Accuracy conforms to EN-ISO 6508 and ASTM E-18
- Mechanical test cycle without the need of electricity
- Easy load force selection by robust dial knob
- Oil brake with variable damping by adjustable knob
- Large capacity to accommodate large test specimen
- Standard delivery including accessories ready for testing all scales



Technical specifications

Rockwell scales	A, B, C, F
Hardness resolution	0.5 of a Rockwell unit
Test loads	10kgf preload / 60, 100, 150kgf total load
Display	Dial indicator
Test force application	By force lever
Load duration	Manually set via oil damper
Data output	Non
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	Non
Machine dimensions	Width 150mm, depth 485mm, height 700mm
Machine weight	Approx. 85kg

Standard delivery

- Main unit
- Diamond Rockwell indenter
- Rockwell ball indenter 1/16"
- Hardness test block ±60HRC
- Hardness test block ±25HRC
- Hardness test block ±85HRB
- Spare balls 1/16" (5 pcs)
- Flat anvil ø 60mm
- Large flat anvil ø 150mm
- V-anvil ø 40mm
- Adjustable feet (4 pcs)
- Spindle protection cover
- Solid accessories case
- CV Instruments certificate
- Installation & user manual

Optional accessories

- Certified test blocks
- Certified indentors & balls

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 indenter 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 \varnothing 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 \varnothing 60mm flat anvil is used to support many flat specimens perpendicular to the indenter.



V-anvil

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



Pedestal spot anvil

The \varnothing 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 indenter to come into contact with a flat surface.



Clamping protection nose

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