

**600 SERIES**



# 600 SERIES Rockwell hardness tester



**600A**  
Manually operated



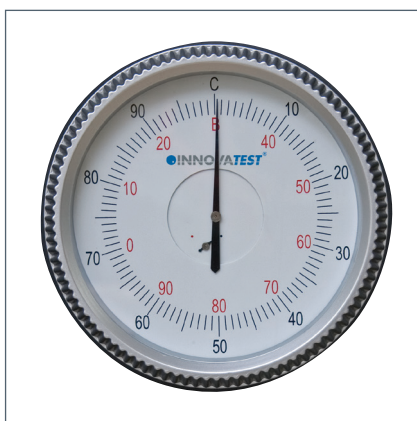
**600MA**  
Motorized



**600MA/S**  
Motorized Superficial

## FEATURES

- Basic regular Rockwell type tester (600A/MA/BD/MBD) and Superficial Rockwell type tester (MAS/MBDS) offering accuracy, reliability and durability at an extremely affordable price
- Advanced regular Rockwell tester and offering accuracy, reliability and durability at an extremely affordable price (BDL/MBDL/MBDLS)
- The BDL/MBDL/MBDLS series IS equipped with OLED full color multi function display
- Additional advanced functions such as CONVERSION to Brinell, Vickers and all Rockwell scales. USB-2/RS-232 output, printer output for detailed measuring report, Go/No Go limit settings, 9999 memory positions, PROGRAM mode stores 50 test program settings, shape correction setting, full statistics (BDL/MBDL/MBDLS).
- Direct reading of:  
Rockwell scales: HRC, B, A, F (A/MA) or HRA, B, C, D, E, F, G, K, L, M, P, R, V (BD/BDL/MBD/MBDL)  
Superficial scales: HRT, HRN (MAS) or HRN, T, W, X and Y (MBDS/MBDLS)
- Electronic control of load duration (dwell time) (MA/MAS)
- Motorized testing procedure (MA/MAS/MBD/MBDS/MBDL/MBDLS)
- 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
- Oil brake with variable damping by adjustable knob
- Large capacity to accommodate large test specimen
- Selectable control of load duration (dwell time)
- Standard delivery including accessories ready for testing all scales



# 600 SERIES Rockwell hardness tester



**600BD**  
Manually operated



**600MBD**  
Motorized



**600MBD/S**  
Motorized Superficial

# Technical specifications

600 SERIES	
Rockwell test scales	A, B, C, F (A/MA), A, B, C, D, E, F, G, K, L, M, P, R, V (BD/MBD/BDL/MBDL)
Rockwell Superficial scales	HRT, HRN (MAS) HRN, T, W, X, Y (MBDS/MBDLS)
Hardness resolution	1 of a Rockwell unit (A/MA/MAS/BD/MBD/MBDS), 0.01 of a Rockwell unit (BDL/MBDL/MBDLS)
Test loads scales	Rockwell: preload 10kgf/98Nw , main load 60kgf/588.4Nw, 100kgf/980.7Nw, 150kgf/1471Nw Superficial: preload 3kgf/29Nw, main load 15kgf/147.1Nw, 30kgf/297Nw, 45kgf/411Nw
Display	Dial indicator (A/MA/MAS/BD/MBD/MBDS), Full color multi function indicator (BDL/MBDL/MBDLS)
Test force application	By force lever (A/BD/BDL), Motorized load system (MBD/MBDS/MBDL/MBDLS)
Test cycle	Manual (A/BD/BDL), Motorized (preload applied manually) (MA/MAS/MBD/MBDS/MBDL/MBDLS)
Load duration	Manually set via oil damper (A/MA/MAS), Manually, following display indication (BD/BDL), Automatic (MBD/MBDS/MBDL/MBDLS)
Dwell time	2 - 99 sec (1 sec. step) (MAS/MBD/MBDS)
Measuring protocol	ISO / ASTM / JIS (BD/MBD/MBDS/BDL/MBDL/MBDLS)
Indications on display	Progress bar for preload, preload applied, main load applied, dwell time, invalid reading, invalid measurement, invalid procedure, Rockwell value, scale applied (BD/MBD/MBDS/BDL/MBDL/MBDLS)
Data output	Non (A/MA/MAS/BD/MBD/MBDS), RS-232 and USB (BDL/MBDL/MBDLS)
Accuracy	Complies to, or exceed to EN-ISO 6508 and ASTM E-18
Specimen accommodation	Vertical space 170mm Horizontal space 165mm (from center-line)
Specimen access	External surfaces, Cylindrical surfaces down to 3mm diameter (BDL/MBDL/MBDLS)
Power supply	Non (only 600A), 100V AC to 220V AC, 50Hz/60Hz, single phase
Machine dimensions	150mm x 485mm x 700mm (WxDxH)
Machine weight	85kg

# 600 SERIES Rockwell hardness tester



**600BDL**  
Manually operated



**600MBDL**  
Motorized



**600MBDL/S**  
Motorized Superficial

## Standard delivery

- Rockwell ball indenter 1/16"
- Diamond Rockwell indenter
- Spare lamps 6V - 12W (2 pcs)  
(MA/MAS/MBD/MBDS/MBDL/MBDLS)
- Hardness test block  $\pm 60\text{HRC}$
- Hardness test block  $\pm 25\text{HRC}$
- Hardness test block  $\pm 85\text{HRB}$
- Spare balls 1/16" (5 pcs)
- Flat anvil  $\varnothing 60\text{mm}$
- Testing table large  $\varnothing 150\text{mm}$
- V-anvil  $\varnothing 40\text{mm}$
- Power cable (not for 600A)
- Fuse 0.5A (2 pcs) (MA/MAS)
- Adjustable feet (4 pcs)
- Spindle protection cover
- Solid accessories case
- INNOVATEST® certificate
- Installation & user manual

## Optional accessories

- Reference hardness blocks
- Certified indentors & balls
- Clamping protection nose
- Pedestal spot anvil  $\varnothing 10\text{mm}$

## Order details

<b>600A</b>	Basic analogue hand-operated
<b>600MA</b>	Basic analogue motorized
<b>600MA/S</b>	Basic analogue motorized, Superficial scales only
<b>600BD</b>	Basic digital manual
<b>600MBD</b>	Basic digital motorized
<b>600MBD/S</b>	Basic digital motorized, Superficial scales only
<b>600BDL</b>	Digital manual with advanced functions
<b>600MBDL</b>	Digital motorized with advanced functions
<b>600MBDL/S</b>	Digital motorized with advanced functions, Superficial scales only



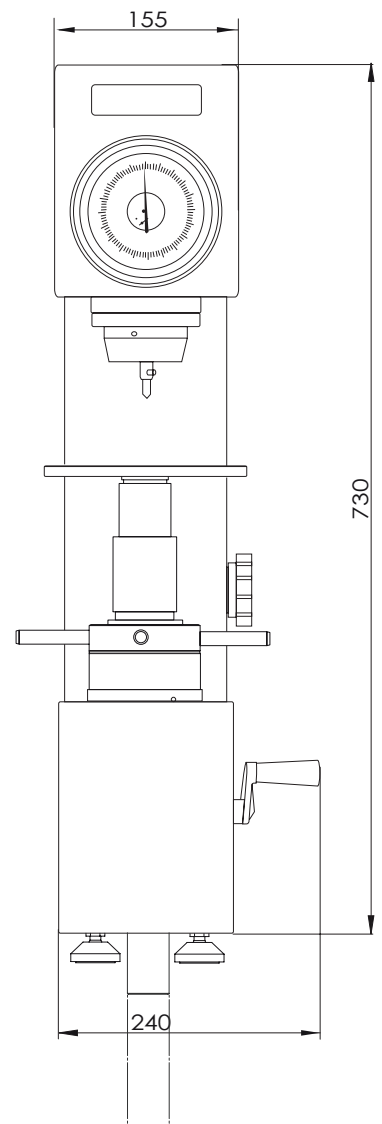
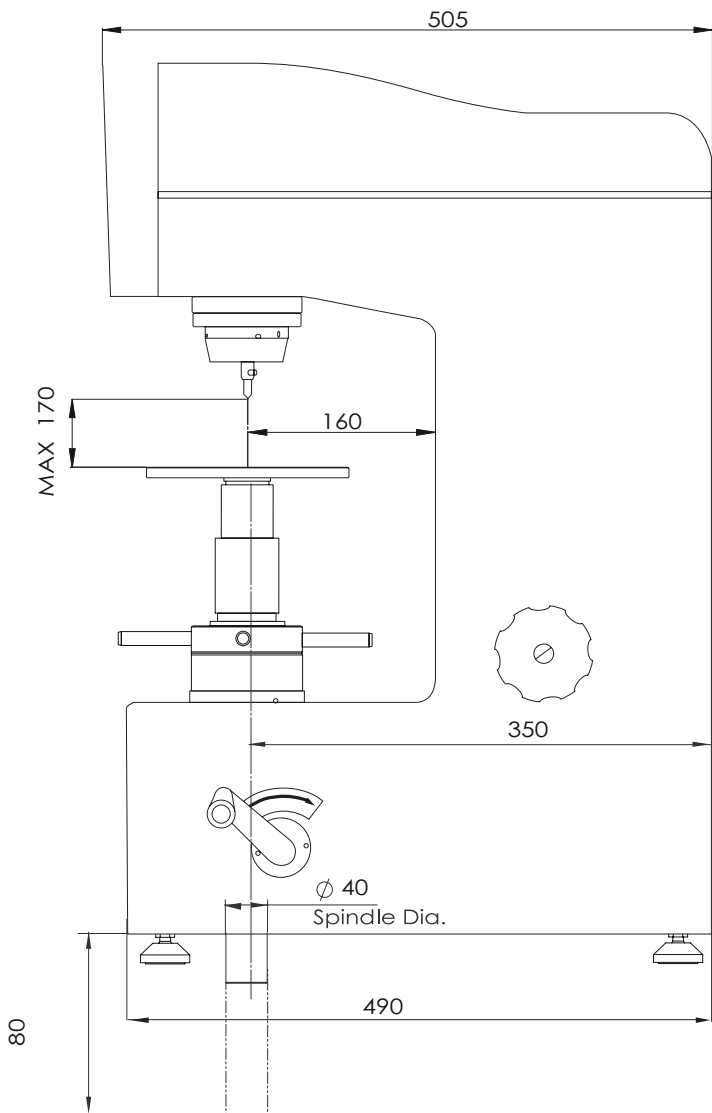
600 SERIES  
Rockwell hardness tester





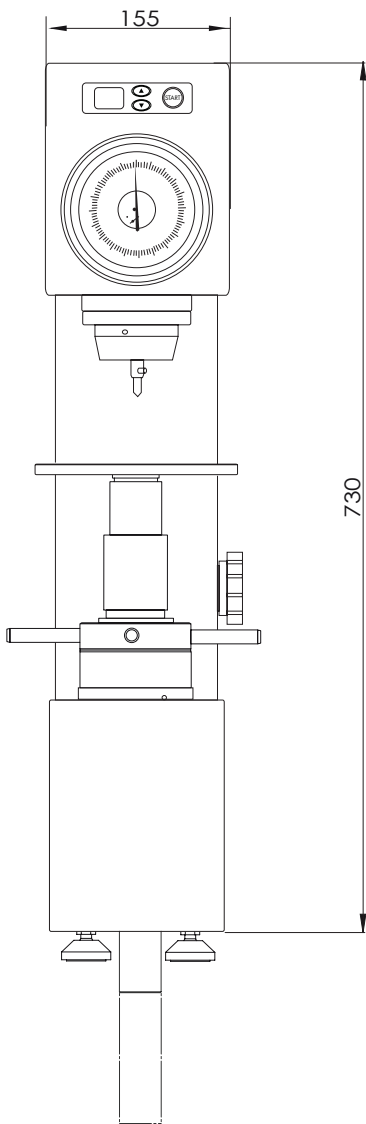
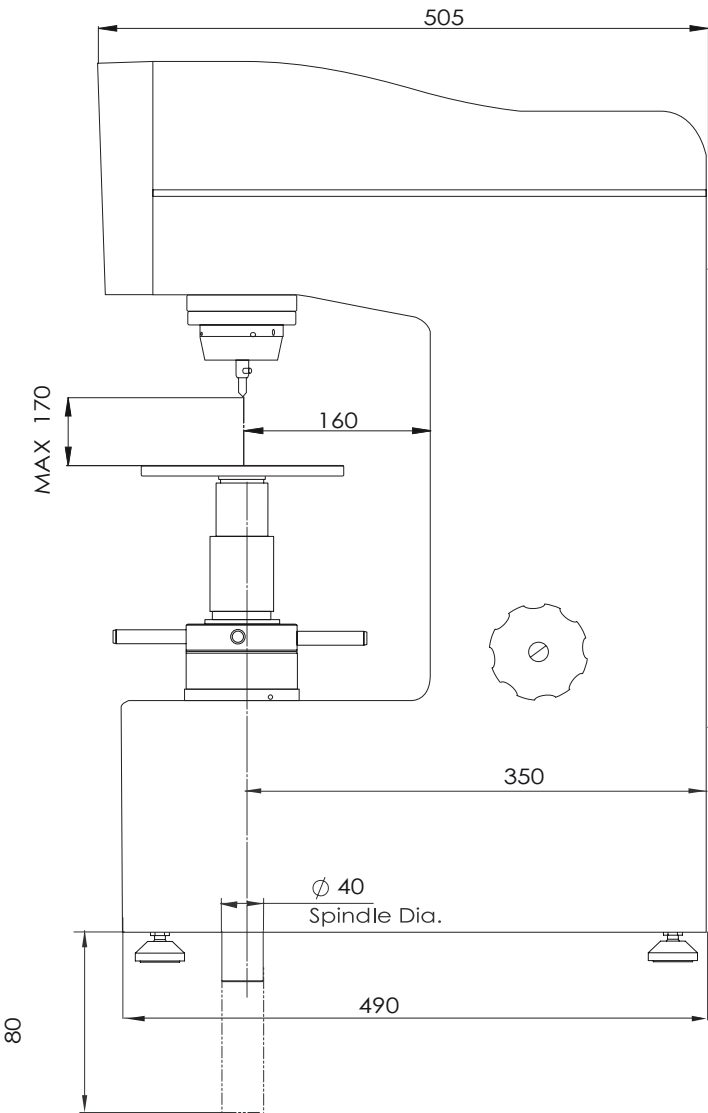
# Technical drawing

All dimensions are in mm, 600A



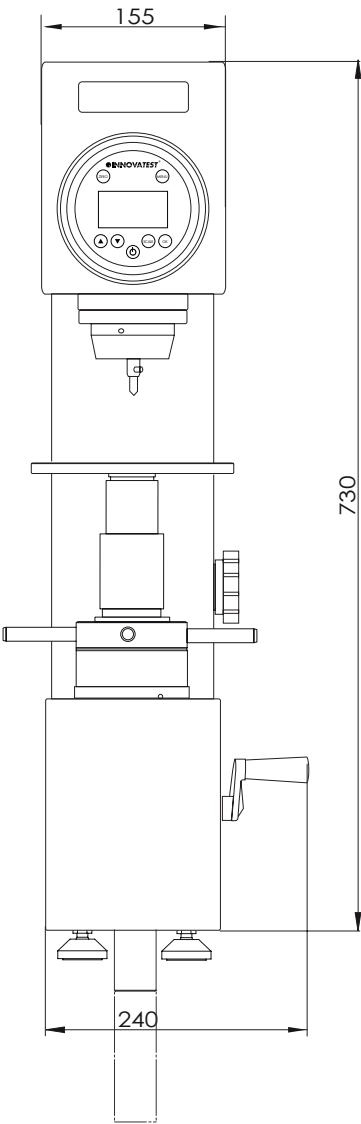
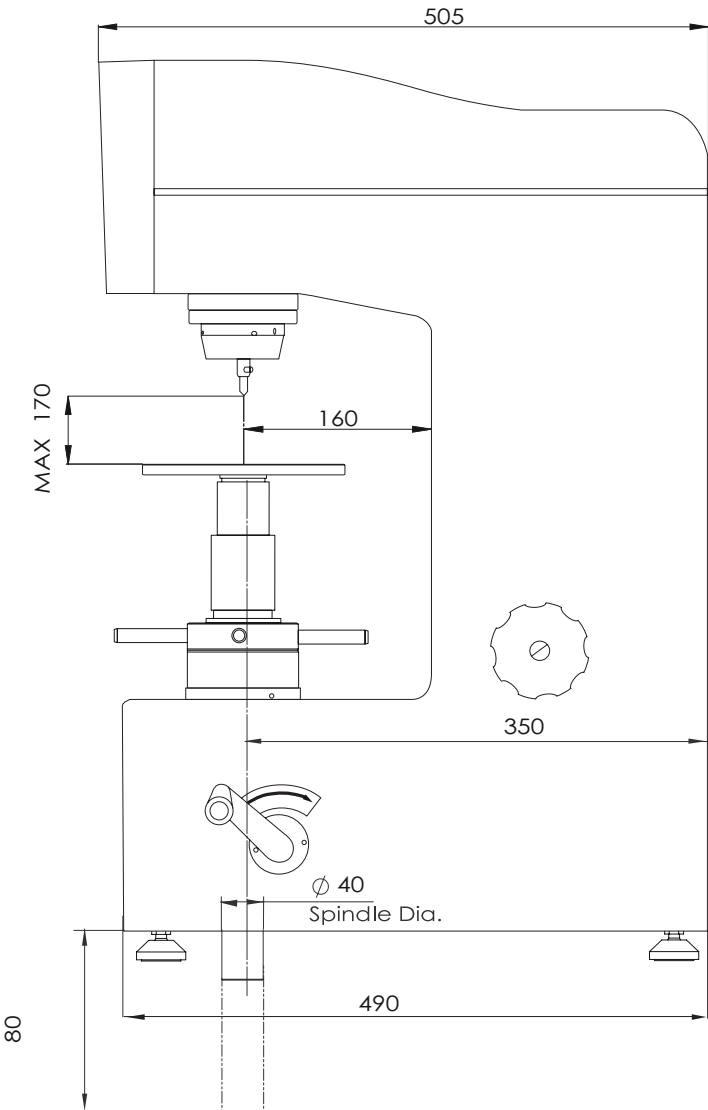
# Technical drawing

All dimensions are in mm, 600MA/MAS



# Technical drawing

All dimensions are in mm, 600BD

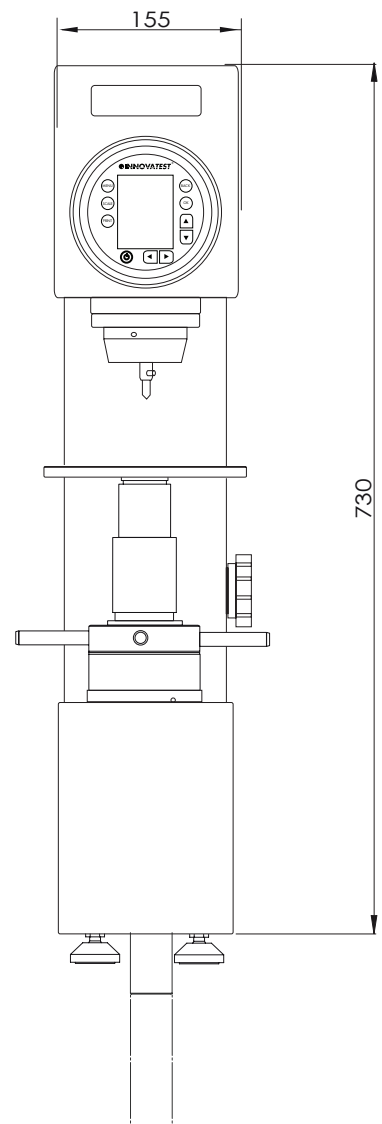
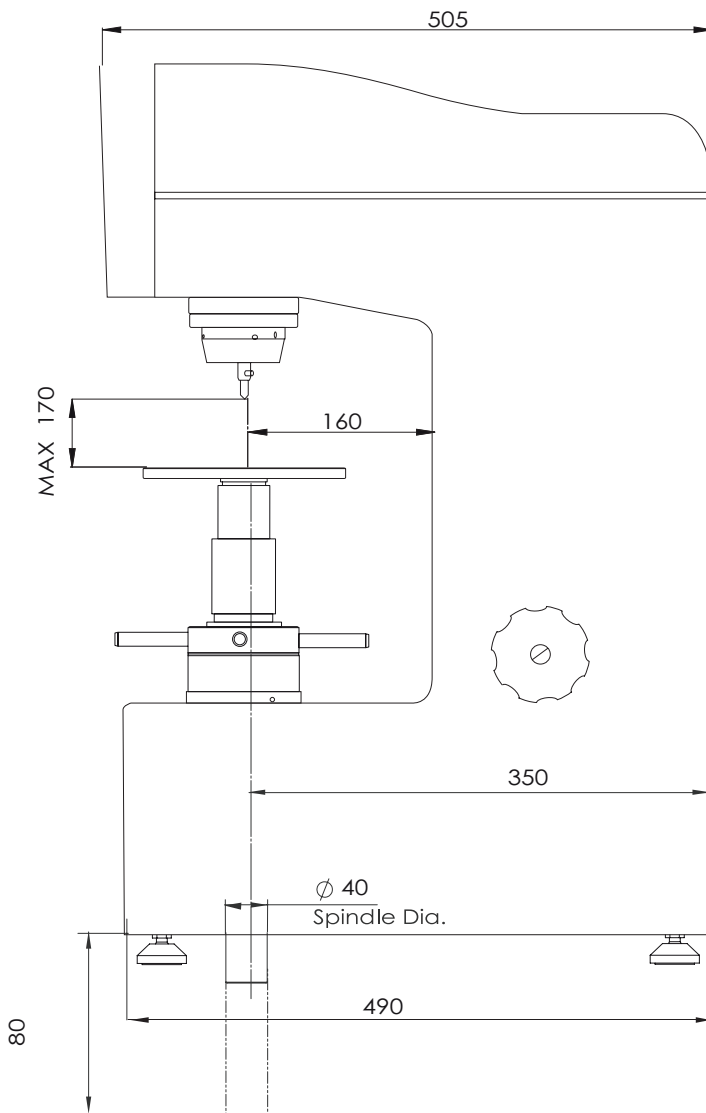


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Rockwell hardness tester



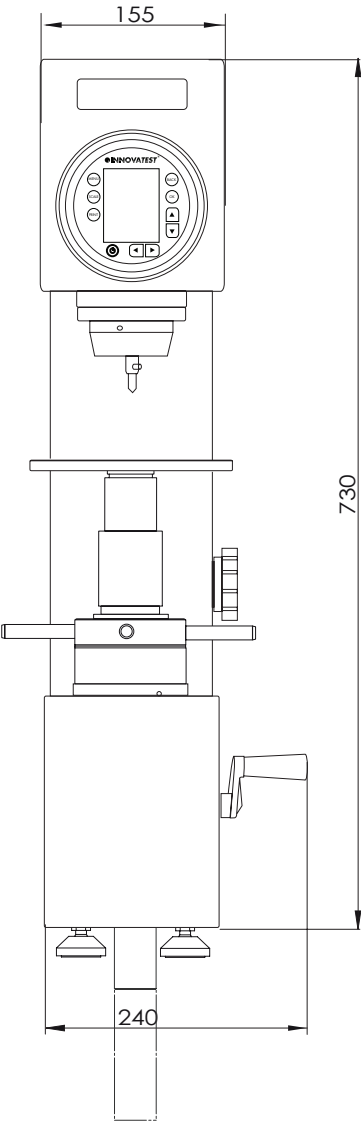
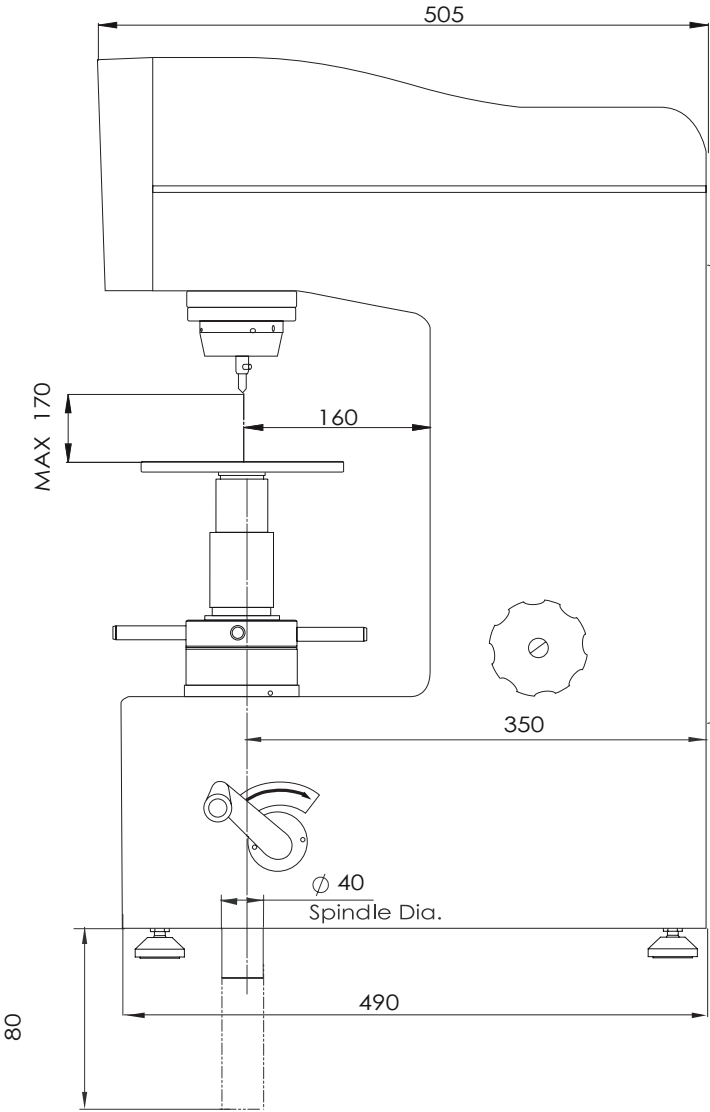
# Technical drawing

All dimensions are in mm, 600MBD/MBDS



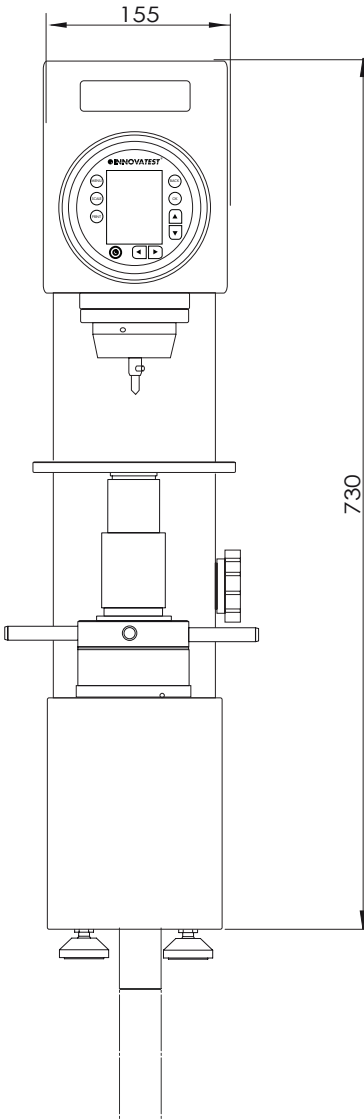
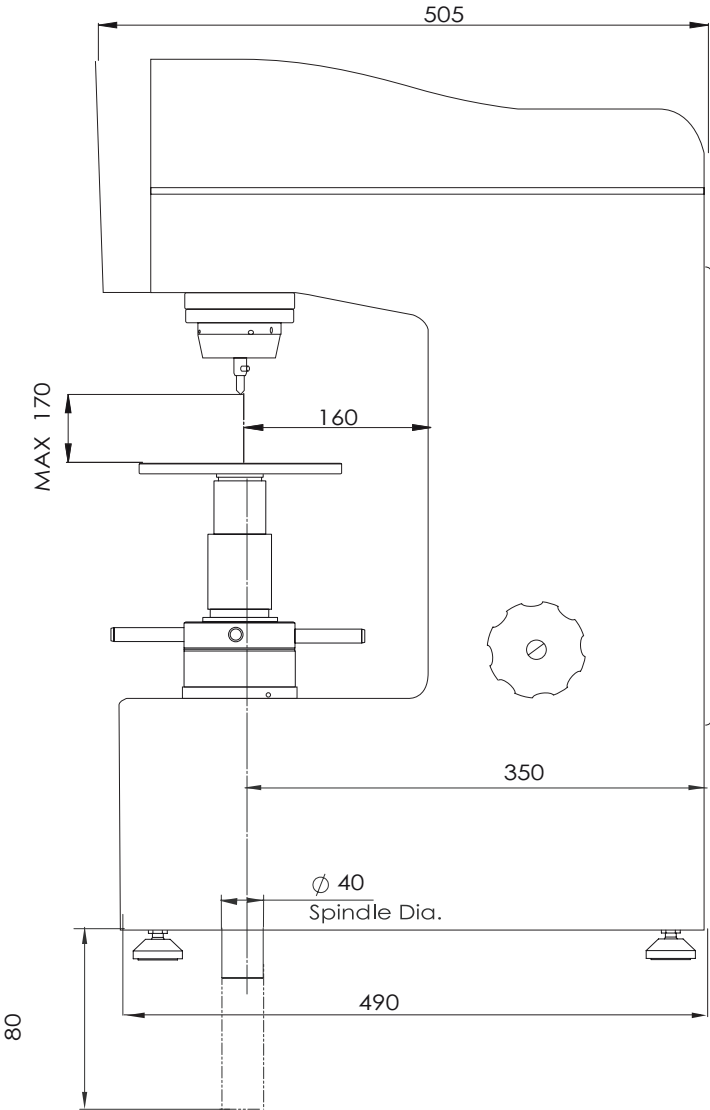
# Technical drawing

All dimensions are in mm, 600BDL



# Technical drawing

All dimensions are in mm, 600MBDL/MBDLs





Represented by:

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