

Technical data at a glance



	DuraVision 20 G5	DuraVision 30 G5
Methods and load range		
Load range 2.942 - 2,452 N (0.3 - 250 kgf) - electronically controlled	•	-
Load range 29.42 - 24,920 N (3 - 3,000 kgf) - electronically controlled	-	•
Brinell (ISO 6506, ASTM E10)	•	•
Vickers (ISO 6507, ASTM E384, E92)	•	•
Rockwell, Super Rockwell (ISO 6508, ASTM E18)	•	•
Knoop (ISO 4545, ASTM E384, E92)	•	-
Plastics testing (ISO 2039)	•	-
Carbon testing (DIN 51917)	•	•
Configuration		
10" capacitive colour display (1024 x 768 pixels), tiltable	•	•
ecos Workflow Touch operating software	•	•
Automatic test cycle with brightness control, autofocus and image evaluation	•	•
3 step zoom	•	•
12 Mpix evaluation camera with CMOS sensor	•	•
Machine control via integrated PLC	•	•
Motorised height adjustment of the test unit with rapid traverse	-	-
Clamping force setting 1961.4 - 19,614 N(200 - 2,000 kgf) ± 10%	-	-
Automatic 2x star turret	•	•
Automatic 7x star turret	optional	optional
Workspace lighting (integrated into nose cone, dimmable)	•	•
Testing clamped/unclamped	•	•
Test table (W x D)	Ø 90 mm	Ø 90 mm
Operating system Windows 10 / 64 bit	•	•
Software functions		
Module for serial measurements	optional	optional
Data Management / Template function	•	•
QR code function	•	•
Extended export functions via Export Editor	•	•
ecos Workflow xCHANGE (XML-based interface for data links)	•	•
Integrated TeamViewer client	•	•
Adjustable user rights	•	•
Interfaces		
Network interface	2xRJ45	2xRJ45
USB interface 3.0	4x	4x
HDMI	1x	1x
Displayport	1x	1x
Integrated memory (SSD)	128 GB	128 GB
Hardware interface (for control with foot switch or line controller)	-	-
Functional dimensions		
Max. workpiece weight	200 kg	200 kg
Z-axis resolution	-	-
Max. speed on Z-axis		
Max. test height	400 mm	400 mm
Weight of basic unit	420 kg	420 kg
Power consumption (max. / standby)	120 W / 50 W	120 W / 50 W



DuraVision 300 G5

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•	•
optional	optional
•	•
•	•
Ø 90 mm + 447 x 370 mm	
•	•
optional	optional
•	•
•	•
•	•
•	•
•	•
•	•
2xRJ45	2xRJ45
4x	4x
1x	1x
1x	1x
128 GB	128 GB
optional	optional
500 kg*	500 kg*
0.18 µm	0.18 µm
up to 25 mm/sec	up to 25 mm/sec
500 mm	500 mm
420 kg	420 kg
600 W / 100 W	600 W / 100 W

Dimensions (W x H x D)	380 mm x 1400 mm x 830 mm
Space requirements (W x D)	1080 x 1580 mm
Test force application resolution	0.45 nm
Length measuring probe resolution	0.05 µm
Nose cone support	53 mm x 42 mm
Reach	320 mm
Protection class to EN 60529	IP20
Voltage supply (V)	230V ~ 1/N/PE 110V ~ 1/N/PE
Max. voltage fluctuations	± 10%
Frequency	50/60 Hz
Main fuse (110 / 230V)	T 6.3 A
Room temperature (to ISO/ASTM)	+5°C to +40°C
Humidity	max. 70% (non-condensing)

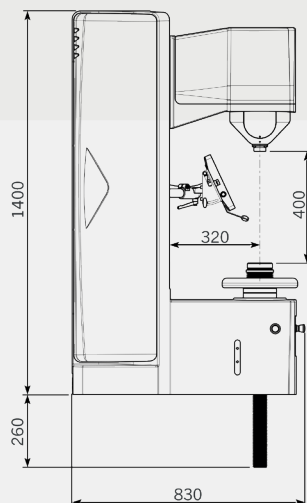


Fig.: DuraVision 20/30 G5

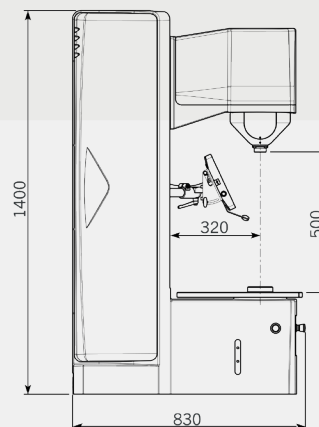


Fig.: DuraVision 200/300 G5

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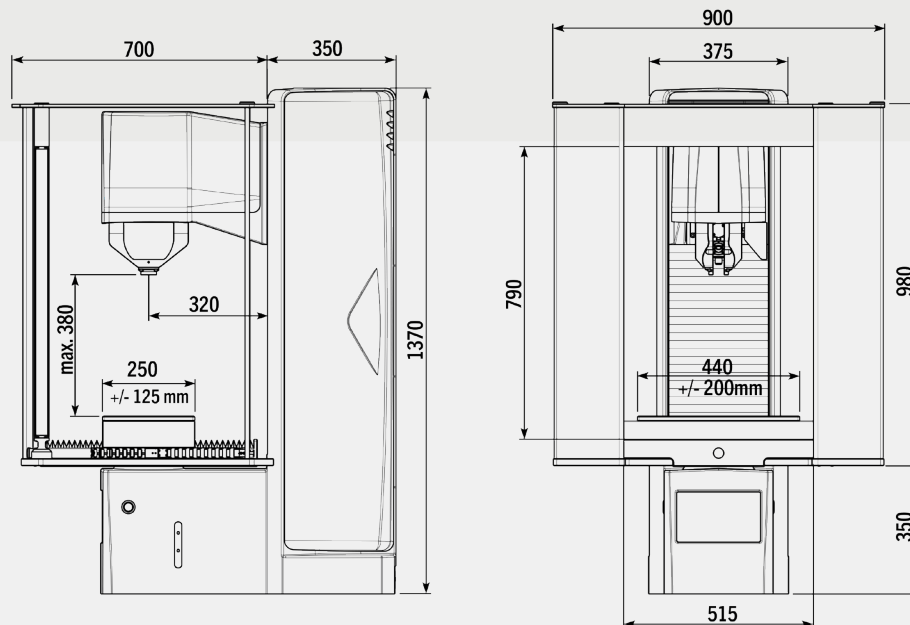
Technical data



	DuraVision 250 G5	DuraVision 350 G5
Methods and load range		
Load range 2.942 - 2,452 N (0.3 - 250 kgf) - electronically controlled	•	-
Load range 29.42 - 29,420 N (3 - 3,000 kgf) - electronically controlled	-	•
Brinell (ISO 6506, ASTM E10)	•	•
Vickers (ISO 6507, ASTM E384, E92)	•	•
Rockwell, Super Rockwell (ISO 6508, ASTM E18)	•	•
Knoop (ISO 4545, ASTM E384, E92)	•	-
Plastics testing (ISO 2039)	•	-
Configuration		
ecos Workflow Pro operating software	•	•
Automatic test cycle with brightness control, autofocus and image evaluation	•	•
3 step zoom	•	•
12 Mpix evaluation camera with CMOS sensor	•	•
12 Mpix overview colour camera with active lighting and included panorama function		
Machine control via integrated PLC	•	•
Motorised height adjustment of the test unit with rapid traverse	•	•
Clamping force setting 1,961.4 - 19,614 N(200 - 2,000 kgf) ±10%	•	•
Automatic 2x star-shaped turret	•	•
Automatic 7x star-shaped turret	optional	optional
Surface lighting (integrated into nose cone, dimmable)	•	•
Testing clamped/unclamped	•	•
Motorised cross table (WxD)	440 x 250 mm	440 x 250 mm
Software functions		
Template function	•	•
CHD, NHD, SHD and serial measurements	•	•
Calibration Information System with calibration assistant	•	•
ecos xCHANGE (XML-based interface for data connection)	•	•
Multiple specimen module for testing several specimens in one work cycle	•	•
Integrated TeamViewer client	•	•
ecos Panorama	•	•
Adjustable User Rights	•	•
ecos AUTOROW	optional	optional
ecos LINEplus	optional	optional
areaMASTER software module for generating hardness maps	optional	optional
Jominy software module	optional	optional
Interfaces		
Interfaces for PC connection	2x USB 2.0, 1x RJ45	2x USB 2.0, 1x RJ45
Functional dimensions		
Max. specimen weight	50 kg	50 kg
Weight of basic unit	500 kg	500 kg
Z-axis resolution	0.18 µm	0.18 µm
Max. speed on Z-axis	up to 25 mm/s	up to 25 mm/s
Max. test height	380 mm	380 mm
Max. throat depth	320 mm	320 mm
Nose cone support	53 x 42 mm	53 x 42 mm
Positioning accuracy	± 0,025 mm	± 0,025 mm

Machine data

Dimensions (W x H x D)	900 x 1370 x 1050 mm
Space requirements (W x D)	2200 x 1800 mm
Test force application resolution	0.45 nm
Length measuring probe resolution	0.05 µm
Protection class to EN 60529	IP20
Voltage supply (V)	230 V 1/N/PE
110 V 1/N/PE	IP20
Max. voltage fluctuations	± 10%
Frequency	50/60 Hz
Main fuse (110 / 230 V)	T 6.3 A
Room temperature (to ISO/ASTM)	+5 °C to +40 °C
Humidity	max. 70%
Power consumption (max./standby)	600 W / 100 W



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