

DuraVision G5

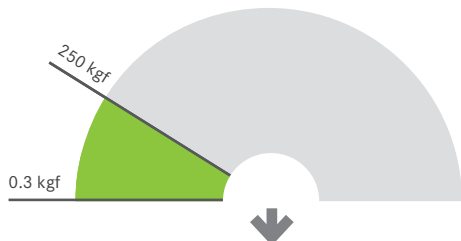
Precision hardness testing for the highest demands

0.3–3,000 kgf
Brinell
Vickers
Rockwell
Knoop
Plastic testing
Carbon testing
HBT, HVT

Hardness testing for every application.

Test load range from 0.3 kgf to 3,000 kgf.

LOAD RANGE



HARDNESS TESTING MACHINES



DuraVision 20 G5

HANDWHEEL



DuraVision 200 G5

MOTORISED NOSE CONE INFEEED

TEST METHODS



Brinell compliant with ISO 6506, ASTM E10

1/1	1/2.5	1/5	1/10
1/30	2.5/6.25	2.5/15.6	2.5/31.25
2.5/62.5	2.5/187.5	5/25	5/62.5
5/125	5/250	10/100	10/250
HBT (not standardised)			



Vickers compliant with ISO 6507, ASTM E384, E92

HV 0.3	HV 0.5	HV 1	HV 2	HV 2.5
HV 3	HV 5	HV 10	HV 20	HV 30
HV 50	HV 60	HV 100	HV 120	HV 125
HV 150 HVT (not standardised)				



Rockwell compliant with ISO 6508, ASTM E18

HRA - HRZ		HR15-N/T/W/X/Y
HR30-N/T/W/X/Y		HR45-N/T/W/X/Y



Knoop compliant with ISO 4545, ASTM E384, E92

HK 0.3	HK 0.5	HK 1	HK 2
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Carbon testing compliant with DIN 51917

2.5/7	5/7	5/15	5/20	5/40
5/60	5/100	5/150	10/20	10/40
10/60	10/100	10/150		



Plastic testing compliant with EN ISO 2039

49.03 N	132.9 N	357.9 N	961 N
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LOAD RANGE



HARDNESS TESTING MACHINES



DuraVision 30 G5

HANDWHEEL



DuraVision 300 G5

MOTORISED NOSE CONE INFEEED

TEST METHODS



Brinell compliant with ISO 6506, ASTM E10

1/5	1/10	1/30	2.5/6.25
2.5/15.6	2.5/31.25	2.5/62.5	2.5/187.5
5/25	5/62.5	5/125	5/250
5/750	10/100	10/250	10/500
10/1000	10/1500	10/3000	
HBT (not standardised)			



Vickers compliant with ISO 6507, ASTM E384

HV 3	HV 5	HV 10	HV 20	HV 30
HV 50	HV 60	HV 100	HV 120	HV 125
HV 150 HVT (not standardised)				



Rockwell compliant with ISO 6508, ASTM E18

HRA - HRZ		HR15-N/T/W/X/Y
HR30-N/T/W/X/Y		HR45-N/T/W/X/Y

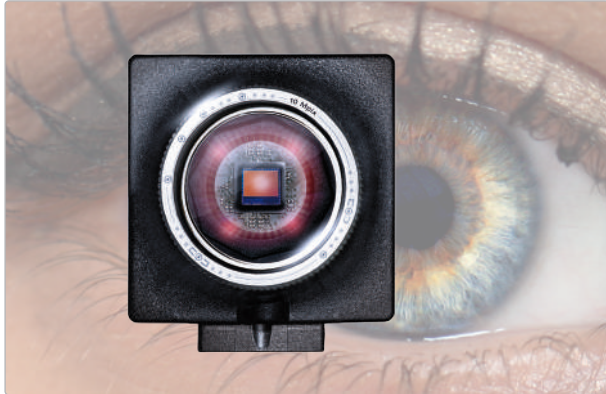


Carbon testing compliant with DIN 51917

2.5/7	5/7	5/15	5/20	5/40
5/60	5/100	5/150	10/20	10/40
10/60	10/100	10/150		

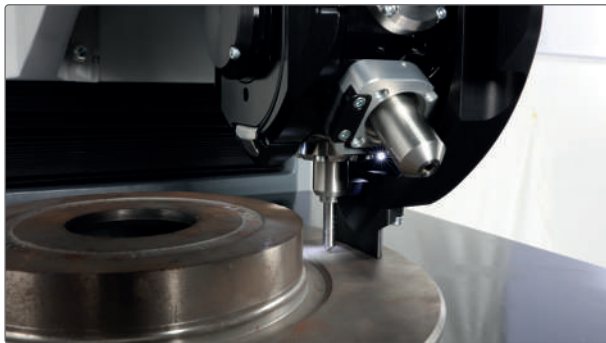
The DuraVision G5 Series.

Sturdy and precise hardness testing for production.



Broad spectrum of applications

The DuraVision G5 Series offers a uniquely broad standard load range from 0.3 kgf to 3,000 kgf. The force is continuously and precisely applied by means of a large number of electronic force measuring sensors. Intelligent utilisation of the 12-megapixel camera enables a 4x zoom, enabling the entire application range to be covered with just a few lenses. The combination with 7 turret positions also saves tool changing. Automatic evaluation of the test indents by fully automated brightness control and fast autofocus in combination with the star turret shortens the cycle times as far as technically possible and minimises the operator influence.



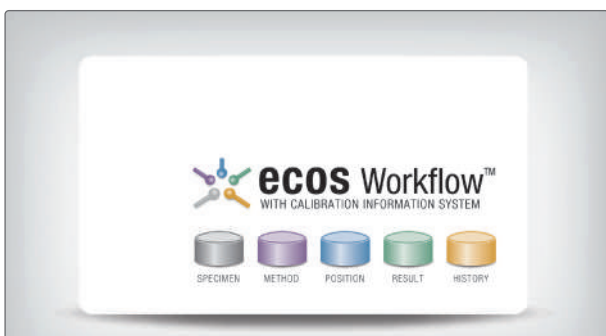
Easy testing of complex specimens

The large test area, the long reach despite the very compact overall design and the slim nose cone offer great flexibility for a very wide range of specimens. The variety of specimens that can be tested is further expanded by the possibility of testing both clamped and unclamped - You have the choice. In addition, the clamping force can be individually set. Complex specimens can be reliably clamped, while marks on soft materials can be avoided by selecting a correspondingly lower clamping force. All in all, ideal preconditions for every application in production.



Investment in the future

You are on the safe side with the DuraVision G5 Series. The sturdy machine design and modular configuration provide a durable product. With regular software updates, simple servicing and long spare part availability, EMCO-TEST offers a sustainable package to ensure a quick pay-back on your investment. The electronically controlled test cycle, based on the latest generation of PLC components, guarantees high test repeatability, irrespective of the operator, and high machine availability.

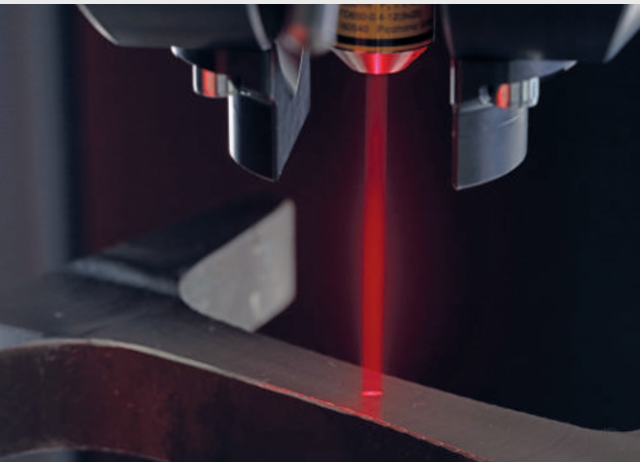


Intuitive software with calibration assistant

The **ecos** Workflow software package from EMCO-TEST provides an efficient, intelligent solution for all conventional hardness testing tasks. The user is guided step-by-step through the measuring process all the way to data backup. The intuitive user interface shortens the familiarisation time and reduces operating errors. A special feature of **ecos** Workflow is the integrated calibration assistant that monitors all calibrated methods and greatly simplifies the inspection of the hardness tester required by standards. The assistant indicates when periodic and indirect verifications in compliance with ISO and ASTM standards are due, it guides the user through the inspection process and supports documentation compliant with standards.

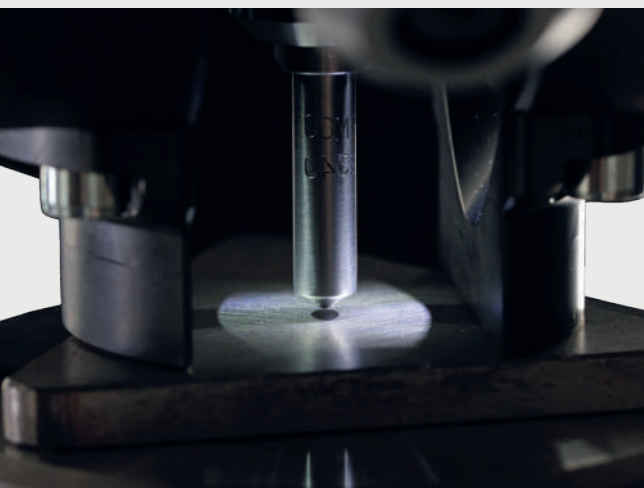
DuraVision 20 G5 and 30 G5.

Rapid measurement results thanks to simple operation.



Modern laser technology

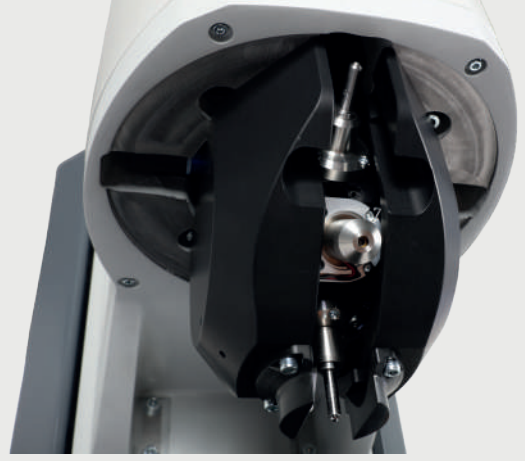
Precision focusing with laser light for simple test point positioning



Bright LED test area lighting

Precise positioning of the test points even under difficult lighting conditions thanks to dimmable LEDs





Slim nose cone

High flexibility for testing even complex specimen geometries



Sturdy display

10" touchscreen display developed for industrial applications



Large handwheel

Better grip for simpler clamping of the specimen

The new DuraVision 200 G5 and 300 G5.

Very simple operation combined with fully automatic test cycle.



Patented Z-axis with rapid traverse

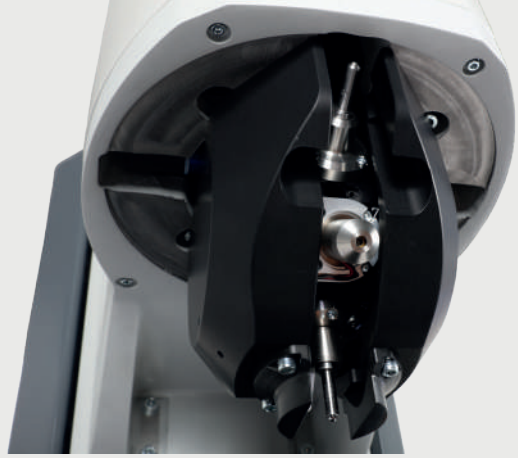
Time saving during adjustment to different specimen heights thanks to the rapid traverse speeds of up to 25 mm/s



External machine control via hardware interface

Additional interface allows integration of the DuraVision G5 into automated systems or the connection of the optional foot switch





Slim nose cone

High flexibility for testing even complex specimen geometries



Sturdy display

10" touchscreen display developed for industrial applications

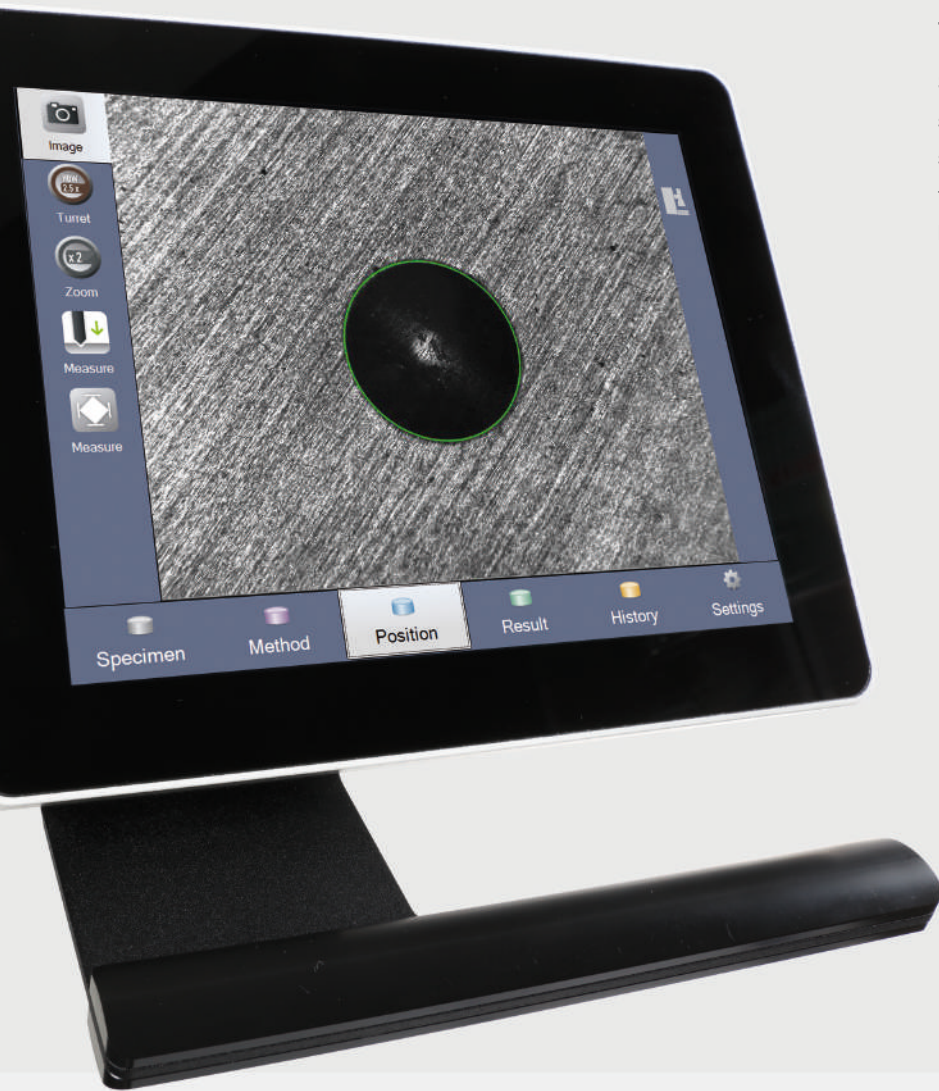


Bright LED test area lighting

Precise positioning of the test points even under difficult lighting conditions thanks to dimmable LEDs

The pioneering hardness testing software.

ecos Workflow Touch



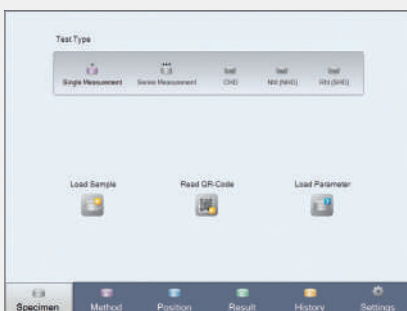
The workflow in five steps

Specimen, method, position, result and history are the five steps provided by the intuitive **ecos** Workflow operating software. Logic, transparency and very simple operation are the key factors in the workflow for efficient and convenient hardness testing. Available as standard in 13 languages.



1 Specimen

Select the required test type from a choice of single measurement, serial measurement, CHD, SHD and NHD progression, load a template or scan a QR code.



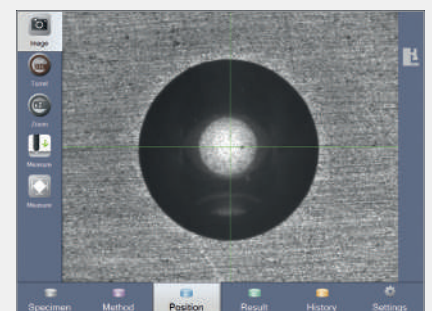
2 Method

Select the test procedure, lens, test method, zoom level and, if applicable, conversion, limits and geometric correction according to standard as well.



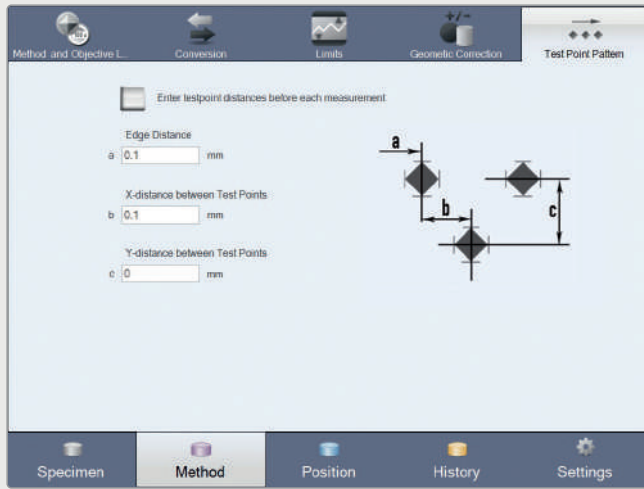
3 Position

Position your test point on the workpiece. With the integrated tools, such as the test area lighting, this is quickly accomplished. Then simply start the test.



Serial measurements

A test point wizard is available for serial measurements or CHD, NHD and SHD measurements. This assists you in creating a test point grid for standard-compliant serial measurements (ISO 2639, 10328, 50190).



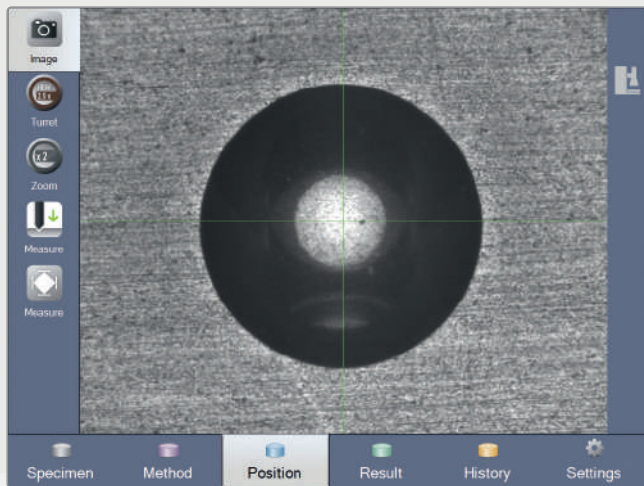
Very simple operation

The software shows you clearly which lens or which indenter is in use. Lenses and indenters are swivelled by simply clicking on the touch-screen display.



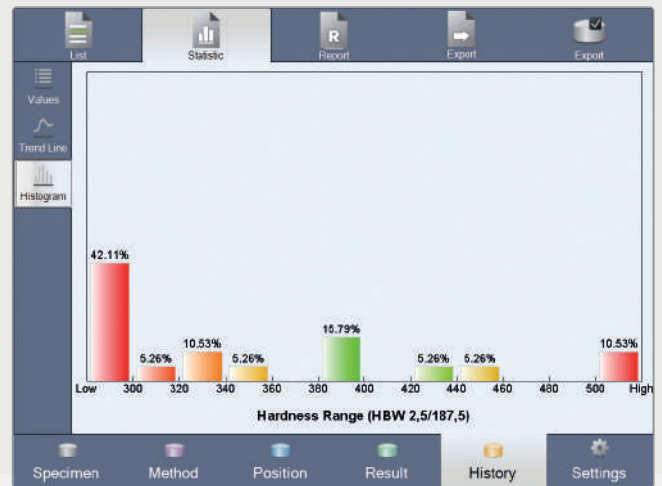
Autofocus

The automatic detection of the specimen height allows the tester to be focussed independently.



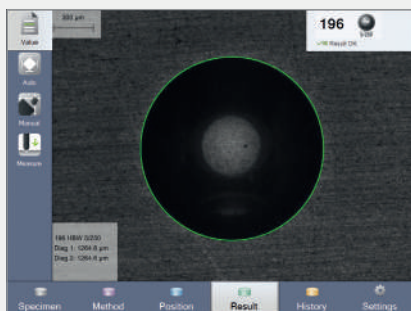
Statistics and diagrams

The measured values are displayed visually in statistics or diagrams.



4 Result

The result is shown clearly and is available for further use. The measurement can also be repeated automatically or manually if required.



5 History

All results are stored permanently with a clear structure. You have the option of archiving the data in other systems or of creating a report via the directly interfaced printer.

No.	Number	Name	Date	Comment	Value
1	100	1000000000	2010-01-01		100
2	101	1000000000	2010-01-01		101
3	102	1000000000	2010-01-01		102
4	103	1000000000	2010-01-01		103
5	104	1000000000	2010-01-01		104
6	105	1000000000	2010-01-01		105
7	106	1000000000	2010-01-01		106
8	107	1000000000	2010-01-01		107
9	108	1000000000	2010-01-01		108
10	109	1000000000	2010-01-01		109
11	110	1000000000	2010-01-01		110
12	111	1000000000	2010-01-01		111
13	112	1000000000	2010-01-01		112
14	113	1000000000	2010-01-01		113
15	114	1000000000	2010-01-01		114
16	115	1000000000	2010-01-01		115
17	116	1000000000	2010-01-01		116
18	117	1000000000	2010-01-01		117
19	118	1000000000	2010-01-01		118
20	119	1000000000	2010-01-01		119
21	120	1000000000	2010-01-01		120
22	121	1000000000	2010-01-01		121
23	122	1000000000	2010-01-01		122
24	123	1000000000	2010-01-01		123
25	124	1000000000	2010-01-01		124
26	125	1000000000	2010-01-01		125
27	126	1000000000	2010-01-01		126
28	127	1000000000	2010-01-01		127
29	128	1000000000	2010-01-01		128
30	129	1000000000	2010-01-01		129
31	130	1000000000	2010-01-01		130
32	131	1000000000	2010-01-01		131
33	132	1000000000	2010-01-01		132
34	133	1000000000	2010-01-01		133
35	134	1000000000	2010-01-01		134
36	135	1000000000	2010-01-01		135
37	136	1000000000	2010-01-01		136
38	137	1000000000	2010-01-01		137
39	138	1000000000	2010-01-01		138
40	139	1000000000	2010-01-01		139
41	140	1000000000	2010-01-01		140
42	141	1000000000	2010-01-01		141
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44	143	1000000000	2010-01-01		143
45	144	1000000000	2010-01-01		144
46	145	1000000000	2010-01-01		145
47	146	1000000000	2010-01-01		146
48	147	1000000000	2010-01-01		147
49	148	1000000000	2010-01-01		148
50	149	1000000000	2010-01-01		149
51	150	1000000000	2010-01-01		150
52	151	1000000000	2010-01-01		151
53	152	1000000000	2010-01-01		152
54	153	1000000000	2010-01-01		153
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56	155	1000000000	2010-01-01		155
57	156	1000000000	2010-01-01		156
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59	158	1000000000	2010-01-01		158
60	159	1000000000	2010-01-01		159
61	160	1000000000	2010-01-01		160
62	161	1000000000	2010-01-01		161
63	162	1000000000	2010-01-01		162
64	163	1000000000	2010-01-01		163
65	164	1000000000	2010-01-01		164
66	165	1000000000	2010-01-01		165
67	166	1000000000	2010-01-01		166
68	167	1000000000	2010-01-01		167
69	168	1000000000	2010-01-01		168
70	169	1000000000	2010-01-01		169
71	170	1000000000	2010-01-01		170
72	171	1000000000	2010-01-01		171
73	172	1000000000	2010-01-01		172
74	173	1000000000	2010-01-01		173
75	174	1000000000	2010-01-01		174
76	175	1000000000	2010-01-01		175
77	176	1000000000	2010-01-01		176
78	177	1000000000	2010-01-01		177
79	178	1000000000	2010-01-01		178
80	179	1000000000	2010-01-01		179
81	180	1000000000	2010-01-01		180
82	181	1000000000	2010-01-01		181
83	182	1000000000	2010-01-01		182
84	183	1000000000	2010-01-01		183
85	184	1000000000	2010-01-01		184
86	185	1000000000	2010-01-01		185
87	186	1000000000	2010-01-01		186
88	187	1000000000	2010-01-01		187
89	188	1000000000	2010-01-01		188
90	189	1000000000	2010-01-01		189
91	190	1000000000	2010-01-01		190
92	191	1000000000	2010-01-01		191
93	192	1000000000	2010-01-01		192
94	193	1000000000	2010-01-01		193
95	194	1000000000	2010-01-01		194
96	195	1000000000	2010-01-01		195
97	196	1000000000	2010-01-01		196
98	197	1000000000	2010-01-01		197
99	198	1000000000	2010-01-01		198
100	199	1000000000	2010-01-01		199



Important functions.

ecos Workflow

The calibration assistant of **ecos** Workflow

The calibration assistant integrated into the test software as standard supports you in the inspection of all the calibrated methods of your hardness tester required by the standards. The software notifies you of upcoming inspections, guides you through the test cycle and supports appropriate documentation.

Further details can be found at: www.emcotest.com/ecosworkflow



Information

Informs you of upcoming inspections



Documentation

Supports you in the documentation of the tests



Guide

Guides you through the inspection procedure



Status

Informs you of the current status of the calibrated methods



Data management / Template function

A measurement data group can be created and selected before the test. All test results are collected in separate lists, allowing them to be represented clearly, exported or saved as a report at any time. Use grouped measurement data management to assign test data to individual users or user groups, components, batches or departments. In addition, frequently used test parameters can be assigned to the measurement data group in the form of templates (method, conversion, geometric correction). This significantly reduces the amount of work for the operator and the possibility of incorrect operation.



Simple management of user rights

The **ecos** Workflow operating software offers the possibility of selectively and individually controlling user rights by means of user levels. Any number of user levels with different rights can be created and changed at any time. Working rights can be individually assigned to every single function and method. All available rights can be very easily assigned to the desired user level with the help of a rights editor. The users are then assigned to the user level that can, if necessary, be additionally protected by means of a password. This ensures that only authorised users can perform a measurement with the required test method or can change machine settings.



Collision detection system

All of our DuraLine machines are equipped with collision detection system as a standard feature. This system has been developed to ensure your safety and the functionality of your machine. It detects potential collisions to prevent damage to your machine. With this advanced technology, we minimize the risk of unexpected damage that could lead to significant repair costs or downtime.



QR code function

This function allows the user to create QR codes with all the relevant data necessary for the hardness test, such as test method, lens, etc., and to also print these out, if necessary. In addition, any QR code or bar code of existing identification codes on specimens or docket can be assigned to any stored template. This code can be read in using an interfaced bar code scanner. The assigned data are then automatically loaded and the test can be carried out immediately. The test procedure can thus be accelerated and operator errors reduced.



Individual clamping force

The optimum force for clamping can be set as required in the software, depending on the specimen size and material. Even complex specimens can thus be reliably clamped by selecting a correspondingly higher clamping force. Marks on soft materials can be avoided by selecting a correspondingly lower clamping force.



Modern data management with ecos Workflow.

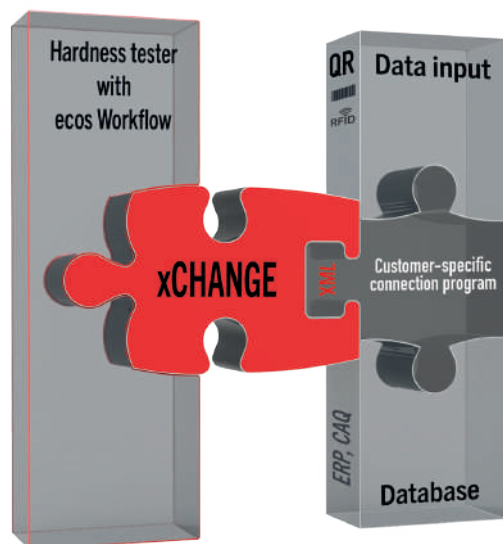
Simple and safe handling of data.



Efficient data management

The DuraScan G5 models are equipped with industrial PLCs, making them pioneers in Industry 4.0, and optimized for intelligent manufacturing environments.

In addition to directly generating and securing test results, data can be individually exported in various formats such as .pdf, .xls, .csv, or .xml using the Export Editor. Integration with Q-DAS systems via .dfq file is also possible. Measurement results can be automatically exported to the internal network of ERP and quality systems such as SAP, MES, LIMS. Internet-based remote maintenance and an integrated calibration assistant make these machines future-proof.



ecos Workflow xCHANGE

The **ecos** xChange interface is included as standard equipment in all DuraScan and Duravision hardness testing devices.

With this interface, every hardness tester can be integrated into production lines and communicate with custom software. The use of XML-based data makes it easy and structured to handle.



Create individual test reports

All models offer as standard the possibility of direct printing. This function allows a test report to be created using an inter-
faced printer. Furthermore, the flexible report generator enables individual reports to be designed for documentation of the
test results.

Integration of your company logo into the test report

EMCO TEST Test Report

SAMPLE NAME: SAMPLE HBW 10/3000 USERFIELD2
 TEST METHOD: HBW 10/3000 USERFIELD3
 CONVERSION: --- USERFIELD4
 DATE: --- USERFIELD5
 USERFIELD1 USERFIELD6

Number	54	Range	245.0
Number Ok	54	Average	237.2
Number > limit	0	Stand. Deviation	53.7
Number < limit	0	CP	0.9
Maximum	370.0	CPK	0.9
Minimum	125.0		

Date: _____ Signature: _____

Individual fields for specimen designation and test parameters

Further freely definable fields

Bar diagram, statistics, trend diagram, etc.

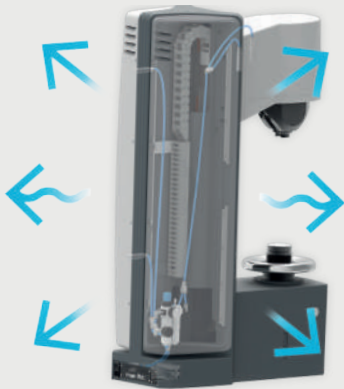


Measured value tables, statistical information, etc. can also be incorporated.

Specimen	Row	Testpoint	Hardness	Method	Lens	X-distance to start point
Specimen 1	Row 1	1	716	HV1	50x	0,200
		2	668	HV1	50x	0,400
		3	684	HV1	50x	0,600
		4	599	HV1	50x	0,800
		5	549	HV1	50x	1,000
		6	716	HV1	50x	1,200
		7	668	HV1	50x	1,400
		8	684	HV1	50x	1,600
		9	599	HV1	50x	1,800
		10	549	HV1	50x	2,000

Options & accessories.

Adapt the DuraVision G5 to your needs.



Dust protection system - for harsh environments

External influences, such as extreme dust development in production environments, make heavy demands on precision measuring systems. The pressurised system prevents dirt and dust entering the precision measuring and control electronics inside the machine.



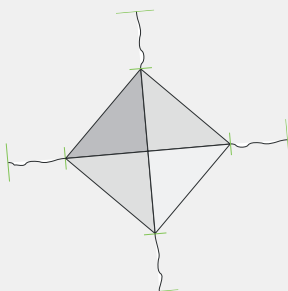
Star-shaped turret – seven at a stroke

The star turret included in the normal scope of every machine can be expanded from the standard two positions to up to seven positions – at any time and with little effort. The star-shaped design allows not only a slim construction of the turret, but also provides seven positions for fitting any combination of indenters and lenses. A wide spectrum of test methods can thus be covered with a single machine, and frequent tool changing is not necessary. In combination with the new high-resolution camera, this reduces investment costs and set-up time. In addition, the turret rotates at a very high speed and automatically finds the shortest turning direction to the selected position.



Base – for stability and ergonomics

The DuraVision G5 base is the ideal foundation for offering operators optimum working conditions. Irrespective of whether the operator works standing up or sitting down, the base provides an optimum height for ergonomic working. Furthermore, the base features vibration-dampening elements that provide the ideal conditions for precise measurement results. The generously sized drawers provide space for storing accessories and tools.



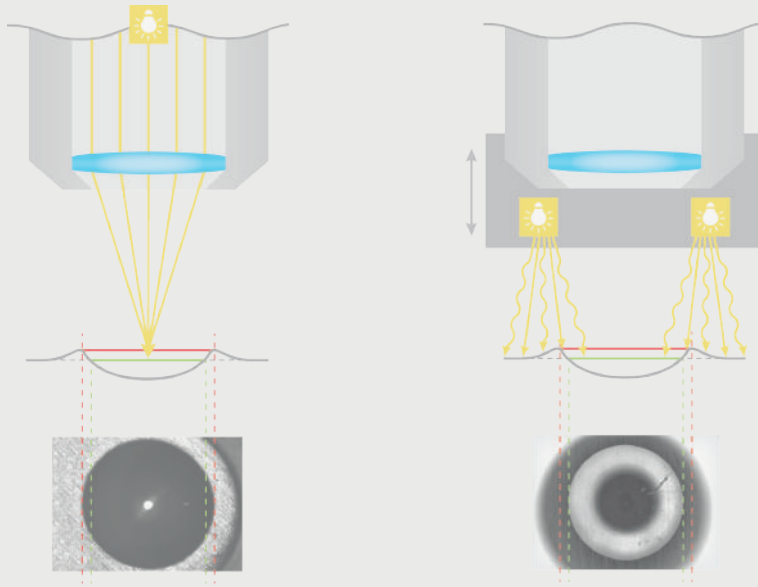
ecos FRACTURE

The optional module ecos FRACTURE enables a fast determination of the fracture toughness on carbide and ceramic material according to the Palmqvist (ISO 28079) and Niihara method (ISO 28079). To determine the fracture toughness, all four single cracks must be measured in the evaluation camera. The Determination of the fracture toughness is done automatically.

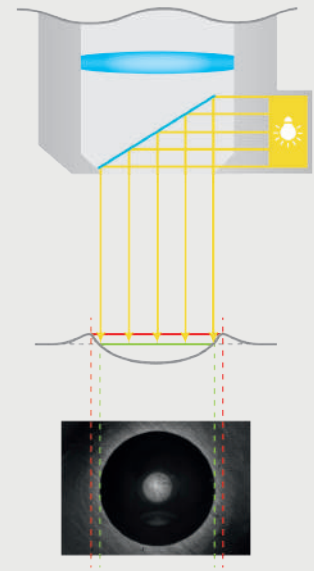
Lens with Brinell SmartLight

The Brinell hardness test has always represented a challenge with soft metals and difficult surfaces. Particularly with soft materials, the edges are not always perfectly recognisable due to considerable deformation (bulging) around the indentation. The new lenses with the innovative Brinell SmartLight now ensure ideal lighting and allow better recognisability of the test indentation during Brinell tests. The lenses with Brinell SmartLight are available as 2.5x and 5x lenses.

In use for Brinell testing until now



Innovation in DuraVision G5



Coaxial lighting

When using coaxial lighting, the light passing through the lens is scattered on the specimen surface. As the light beams are not reflected back to the lens due to the scatter, the test indentation appears dark. Furthermore, shadowing is caused by the oblique incident light in the area of the bulging around the test indentation. Due to these physical factors, the edges of the indentation are difficult to detect and evaluate.

Circular light

When using circular lighting, diffuse light falls in a ring pattern from the outside onto the indentation. The light beams are reflected in the test indentation back into the lens. This allows better recognition of the edges compared with coaxial lighting. Depending on the hardness range, different height settings of the circular light are necessary in order to achieve optimum illumination of the test indentation. That these adjustments are performed manually by the operator can, however, have a negative influence on the evaluation result.

Brinell SmartLight

The SmartLight technology developed by EMCO-TEST combines a lens with “collimated light”. With this lighting, parallel light beams are directed by a mirror system onto the test indentation. The light therefore strikes the test indentation perpendicularly from above and prevents any shadowing in the area of the bulge. The contour is clearly recognisable and the indentation can be precisely evaluated. The SmartLight technology is permanently integrated into the lens and requires no further settings by the operator.

Complete accessories catalogue at www.emcotest.com

At www.emcotest.com you will find the whole range of accessories for the DuraVision G5 hardness testing machine, such as various indenters, special test tables, adapters for further indenters, lenses and much, much more.



LOOKING BACK ON OVER 65 YEARS OF COMPETENCE.

Competence and experience – hand-in-hand.

Our success is founded on the vision of Karl Maier to build hardness testing machines that «do everything simply, rather than simply everything». In the form of simple testing tools that implement the most complicated functions. This is why Salzburg businessman and mechanical engineer Maier decides to establish a hardness testing department in his company, Maier & Co Maschinenfabrik (later EMCO Maier GmbH), in 1954.

When Karl Maier dies in 1978, his innovative testing products have long since made a name for themselves. The founder's son, Ernst Alexander Maier, takes over the company, which under his leadership becomes a technological leader in the field of hardness testing, not only in Austria, but far beyond its borders. 1989 marks a milestone with invention of a closed-loop control system for load application in hardness testers. For the first time worldwide, it enables testing with all test methods and many load levels in a single universal hardness testing machine. Patent applications are submitted for this revolutionary invention not only in Europe, but also in

the USA and Japan, and it still represents the technological basis for all modern hardness testers. In 1996, the hardness testing department becomes a separate company and EMCO-TEST Prüfmaschinen GmbH is founded.

The death of Ernst Alexander Maier in the year 2001 is a grievous loss, because his extraordinarily visionary spirit has not only shaped the development of the company, but also its employees and milieu. His humanity and sense of responsibility with respect to the region and the environment are also sorely missed. The figures for themselves: Approximately 50 employees at the company headquarters in Kuchl subsidiary are responsible for our international commercial success. Together with our motivated and talented team, we have turned Karl Maier's vision into a living reality – his idea has become our mission. Or to put it another way: «We don't make simply everything for hardness testing, but we do make everything in hardness testing simple.»



Premium quality with certified quality promise (ISO 9001)

In order to ensure that only perfect quality is supplied to you, every EMCO-TEST testing machine is thoroughly and stringently tested before delivery. The ease of service is taken into consideration right from the beginning in the design phase. The results are menu-driven fault detection, integrated self-diagnosis and modular exchange of electronic components that ensure the remedying of faults in a minimum of time. Software updates that take into consideration changes in standards or optimise future processes ensure high investment security for you.

Remote Support

The TeamViewer Client integrated as standard can be started directly from **ecos** Workflow and offers the optimum basis for perfect online support worldwide. This software allows remote maintenance as well as the sharing of the screen contents with other computers, e.g. for training purposes (internet connection required).

10 years spare parts availability

For EMCO-TEST hardness testing machines we guarantee spare parts availability of least 10 years after a product has been discontinued. To secure your investment in a EMCO-TEST testing machine, we extend this availability by several more years whenever possible, significantly exceeding standard industry requirements.



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 11	•	•
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

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• Austrian head office

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