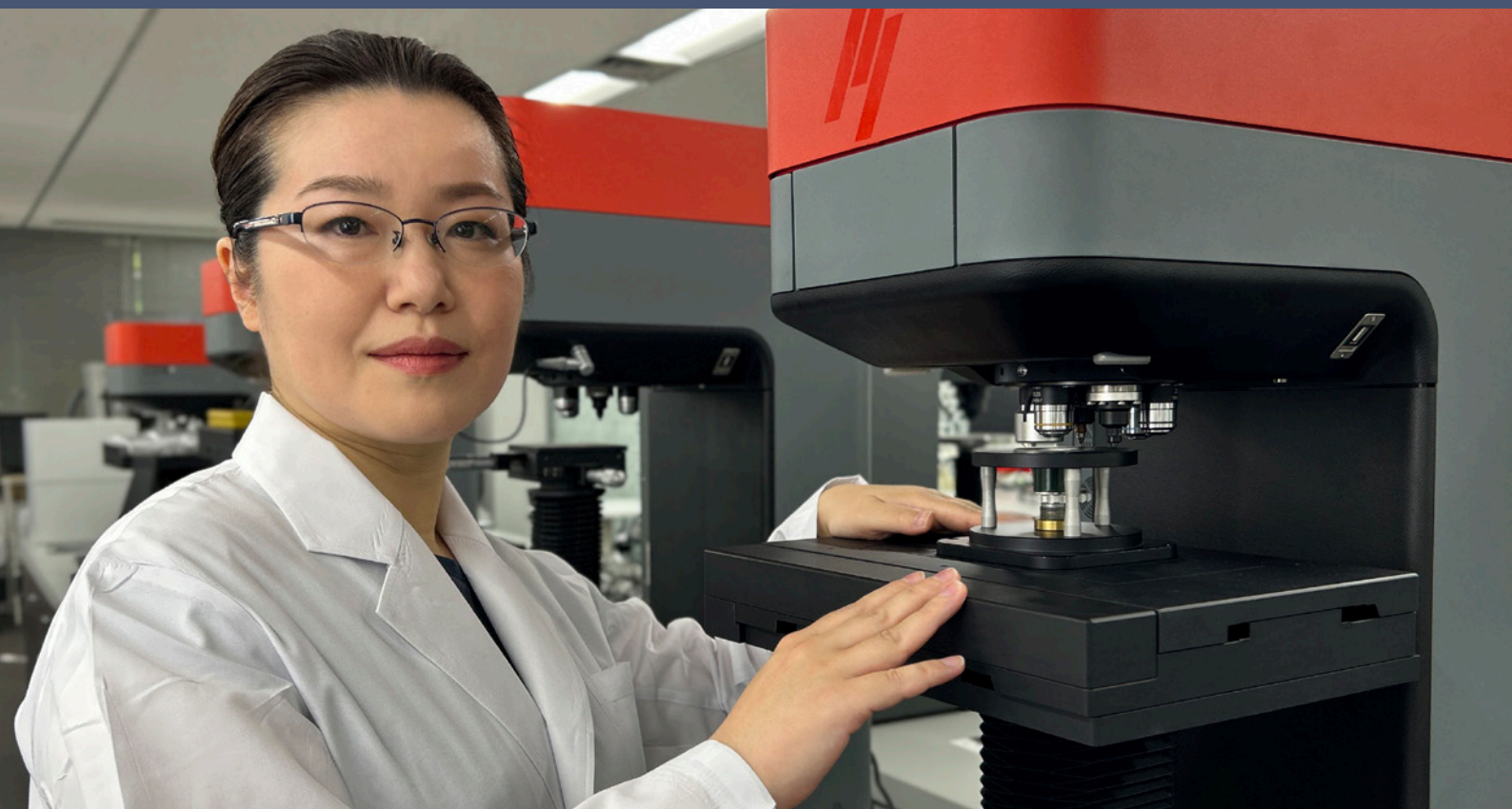


Struers Hardness Tester Equipment

DURAVISTA 40 & 80

High-throughput & high-accuracy
Vickers, Knoop & Brinell hardness tester

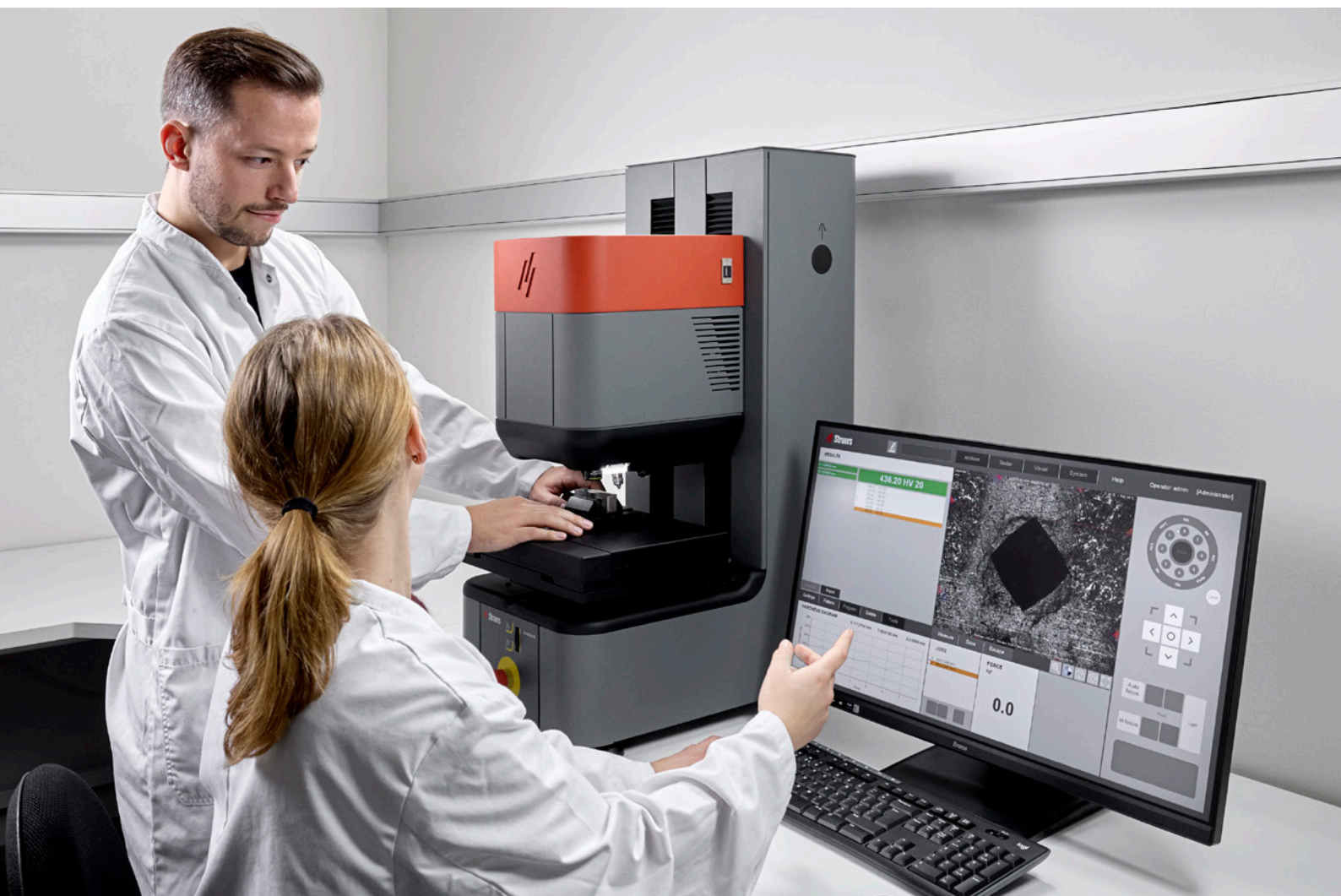
- ✓ Automated workflows with motorized XYZ axis
- ✓ Advanced optics, illumination, and fast touch-focus
- ✓ Modular, upgradeable equipment with next gen software packages



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HIGHER THROUGHPUT AND ACCURACY

Hardness testing, or verification, is a crucial part of the materialographic process. No matter your material, sample size or standard, with Struers you can be sure your lab has the right setup to meet demands on throughput and accuracy, even for less skilled operators.



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AUTOMATED HARDNESS TESTING

Automation in hardness testing turns a manual, operator-dependent task into a fast, reliable, and traceable process. It reduces human error, increases throughput, and frees skilled people from repetitive work so they can focus on problem solving and quality improvements.

With DuraVista-40 and DuraVista-80, Struers combines motorized axes, automatic turrets, advanced imaging, and intelligent software to automate indentation, measurement, and data handling from micro (0.1gf-1kgf) to macro loads (1kgf-62.5kgf). Together, they help you eliminate bottlenecks, stabilize quality, and handle growing test volumes with confidence.

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Before we used a micro and macro hardness tester, followed by a microscope. Now, in most cases, we only need to use one. This has significantly reduced time and increased efficiency in our testing process.”

- Jesper Vejlø Carstensen, Senior Research Engineer,
M.Sc., Ph.D., MAN Energy Solutions

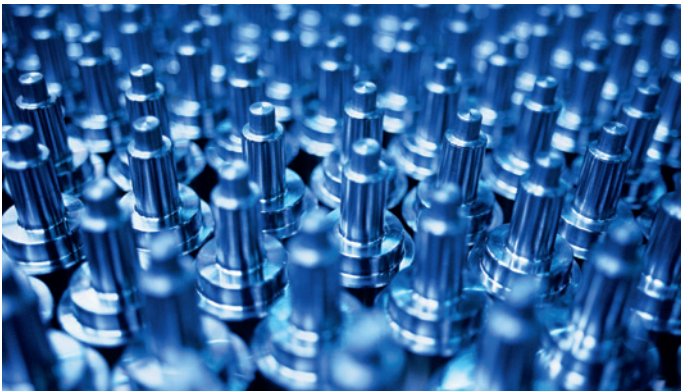
Automation gives you:

- Enhanced accuracy and precision
- Consistent, repeatable results
- Increased throughput and efficiency
- Frees skilled operators
- Improved traceability and safety

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WE UNDERSTAND YOUR CHALLENGES

Throughput and Efficiency



Higher throughput requirements in labs reshape how samples are handled, how equipment is used, and how people work. The push for more samples impacts the results and the quality.

As production volumes grow and product cycles shorten, labs must deliver more measurements with the same or fewer resources. High-throughput testing methods are becoming more common because traditional protocols slow down development and quality assurance.

Complex Samples



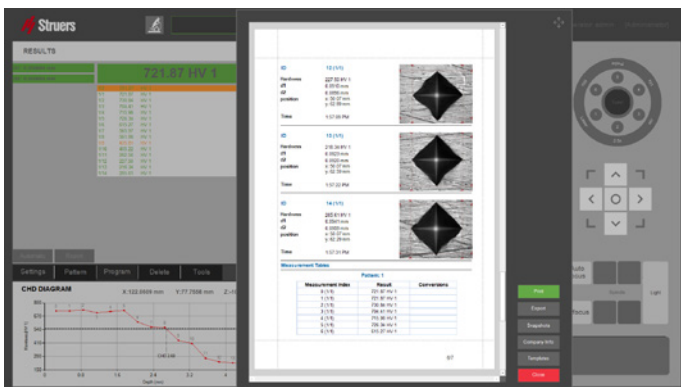
Not every sample is straightforward to hardness test. Some are very small, have low-contrast surfaces, or include ultra-thin coatings that demand a specific testing approach. These challenges can slow down your workflow or lead to inconsistent results. In such cases, consulting a specialist can help you choose the right method and adapt your process to new or complex materials.

Accuracy and Reproducibility



Reproducibility and accuracy are essential to achieve the same reliable results every time, even when operators are not highly trained. Your process must comply with ISO and ASTM and be tailored to your specific needs, using the correct testing method to avoid errors that can lead to production stops or product recalls..

Documentation



Not only is it important to have detailed documentation of your results for your and your customers' internal audits and quality control, but it is a legal requirement in order to obtain ISO and ASTM certifications. The right testing solution will enable you to create, record, and share documentation in common formats and in any language.

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AUTOMATED HARDNESS SOLUTIONS

DuraVista-40

Robust Knoop & Vickers Hardness Tester

DuraVista-40 is an automated micro-hardness tester that supports the Vickers, Knoop, and Brinell scales up to 62.5 kg. It is software controlled with a built-in high-resolution camera and motorized Z-axis with autofocus that are coupled with its closed-loop loadcell technology to ensure repeatable and effortless results. The models with automated stages unleash limitless automation possibilities.

DuraVista-80

Advanced Knoop & Vickers Hardness Tester

The DuraVista-80 automated micro-hardness tester is designed to deliver unmatched accuracy and ease of use. Supporting Vickers, Knoop, and Brinell scales up to 62.5 kg, it features a movable test head with independent load motor, offering both ergonomic excellence and precision. Powered by advanced DuraSoft control software, the DuraVista-80 integrates a high-resolution camera, a motorized Z-axis with autofocus, and cutting-edge closed-loop loadcell technology. This ensures repeatable, effortless results every time. For enhanced productivity, models with automated stages unlock boundless automation capabilities, making the DuraVista-80 the ideal solution for demanding testing applications.

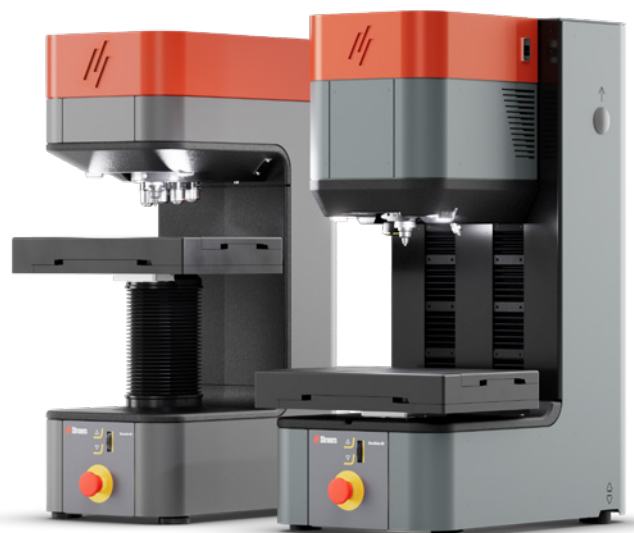
	DuraVista-40M	DuraVista-40A	DuraVista-80M	DuraVista-80MT	DuraVista-80A	DuraVista-80AT
Test load	Configurable load range 0,1gf - 62,5kgf (0.00098 N–612.9 N)					
Supported hardness methods	Vickers (DIN EN ISO 6507, ASTM E-92, ASTM E-384) Knoop (DIN EN ISO 4545, ASTM E-92, ASTM E-384) Brinell (DIN EN ISO 6506, ASTM E-10)					
Standard objectives	10x and 50x					
Measurement system	20 Mpix camera with auto-focus & auto measure					
Turret	Motorized 6 position			Motorized 8 position		
Touch focus	-	-	●	●	●	●
Motorized Z-axis test table	●	●	-	●	-	●
Motorized Z-axis test head	-	-	●	●	●	●
Overview camera 13 Mpix	Optional	●	Optional	Optional	●	●
Pattern configurator with CHD module	Optional	●	Optional	Optional	●	●
DuraSoft-Met	Optional	●	Optional	Optional	●	●
Expand with						
2nd indenter position	optional					
Optional objectives	2,5x, 5x, 10x, 20x, 40x, 50x, 100x					
Fixed anvil	Various flat and V- options					
Manual XY-stage	Various options					
Motorized XY-stage	3 sizes			4 sizes		
Software modules	for CDH, SHD, NHD, weld testing, screw head, etc.					
Optional scales	Hardness method KIC, Brinell AI, Vickers AI					



Scan for DuraVista-40 tech sheet



Scan for DuraVista-80 tech sheet



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DISCOVER DURAVISTA-40

Optics & camera

An 20 MP camera is paired with a metallurgical microscope using LED Köhler illumination to provide sharp, high-contrast indentation images. The high-resolution sensor supports digital zoom without loss of detail.

Smart Overview Navigation

The 13 MP high-resolution overview camera with integrated LED illumination provides evenly lit, true-color images of large samples or multi-sample holders. Snapshots can be captured instantly for documentation and reports.

Multiple Holder Configurations

Supports single, four-fold, or six-fold sample holders in all standard diameters, as well as various vise and wire-clamp options for broader sample compatibility.

Motorized Z-Axis Precision

The backlash-free motorized spindle provides repeatable, accurate Z-axis movement for reliable positioning and focus. An integrated autofocus algorithm accelerates focusing and supports faster, more consistent workflows.



Motorized Turret

The motorized turret accommodates six dedicated positions for lenses and indenters, giving you maximum flexibility in configuring your hardness tester. Easily tailor the system for Vickers, Knoop, or Brinell applications by equipping each position with the optimal tool.

Flexible, High-Precision Stage

The system supports a fixed anvil, manual stage, or any of the three motorized stages. The motorized stages use high-resolution encoders and backlash-free spindles for smooth, accurate positioning. All stages are designed for field upgrades to accommodate future testing needs.



DuraSoft Software

Engineered to simplify and automate the most complicated hardness testing requirements across industries in the hardness testing field with all simplicity.

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DISCOVER DURAVISTA-80

Moveable Test head

The movable test head enables fast positioning of the load system and optics. A dual-displacement setup separates coarse movement from the high-precision load motor to ensure accurate test load application.

Optics & camera

An 20 MP camera is paired with a metallurgical microscope using LED Köhler illumination to provide sharp, high-contrast indentation images. The high-resolution sensor supports digital zoom without loss of detail.

Infinity-corrected optics support a light polarizer to increase contrast and reduce glare. This improves visibility of crystalline structures, birefringent inclusions, and thin films or coatings.

Fast, Precise Autofocus

Touch Focus technology, supported by a dedicated probe, provides fast, precise autofocus to improve consistency.

Flexible, High-Precision Stages

The system supports a fixed anvil, manual stage, or any of the four motorized stages. The motorized stages use high-resolution encoders and backlash-free spindles for smooth, accurate positioning. All stages are designed for field upgrades to accommodate future testing needs.



Advanced Turret Flexibility

The 8-position motorized turret uses an angled layout for better access and visibility and can be configured for Vickers, Knoop, or Brinell indenters, touch probe and positioning laser.

Smart Overview Navigation

The 11MP high-resolution overview camera with integrated LED illumination provides evenly lit, true-color images of large samples or multi-sample holders. Snapshots can be captured instantly for documentation and reports.



DuraSoft Software

Engineered to simplify and automate the most complicated hardness testing requirements across industries in the hardness testing field with all simplicity.



FLEXIBILITY IN HARDNESS TESTING

The DuraVista-40 and DuraVista-80 redefine flexibility with their innovative DirectConnect stage technology.

The DirectConnect interface supports four sizes of wireless motorized XY stages, all providing full-area access for placing large numbers of indents and reliably relocating them for verification. Power and communication pass directly through the mounting foot—no external cables—enabling fast, clean setup and instant swapping between anvils, specimen supports, manual stages, and any DirectConnect stage.

Each motorized stage includes integrated positioning encoders for precise navigation across the entire travel range. Stages can be exchanged within seconds for application-specific needs or replaced in case of failure, minimizing downtime and eliminating duplicate tooling across multiple testers.



DirectConnect Stage 215x160mm



DirectConnect Stage 360x205mm



DirectConnect Stage 260x205mm



DirectConnect Stage 490x224mm

DirectConnect stages feature:

- Built-in positioning encoder
- Resolution: 0.001 mm
- Repeatability: ± 0.0015 mm
- Total load: up to 400 kgf



DirectConnect Stages

- ✓ Field exchangeable and upgradeable
- ✓ Swapped in seconds – no downtime
- ✓ Built-in encoder for high speed and precise positioning
- ✓ Power and communication integrated – no external cables

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SOFTWARE

DuraSoft is Struers' modern and reliable software platform for automated hardness testing, combining precision, efficiency, and streamlined workflow control.

With automatic indent measurement, autofocus, and application based test patterns, it supports high throughput while ensuring accurate, repeatable results with minimal operator influence. The software includes standard hardness conversions according to ASTM and ISO and offers flexible data output, including automated reporting and Excel export.

Modular software options let you quickly set up anything from simple tests to complex patterns or maps. Multi-level user management ensures consistent, error-reduced operation across teams, making DuraSoft an intuitive, reliable solution for routine and advanced hardness-testing workflows.

How does hardness testing software help?

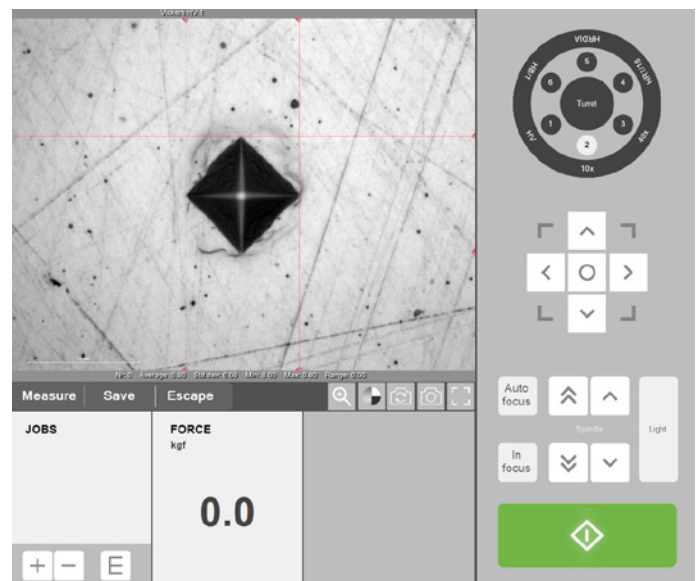
- ✓ Application based solutions
- ✓ Advanced workflow control
- ✓ Enhanced reporting
- ✓ Secure documentation
- ✓ Greater repeatability



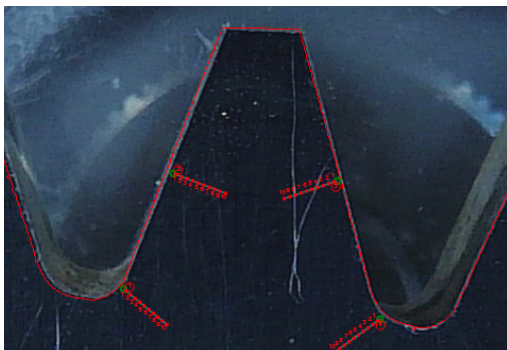
Standard in DuraVista series

DuraSoft-equipped machines come standard with a comprehensive suite of tools to enhance testing efficiency:

- ✓ Auto-focus
- ✓ Auto-illumination
- ✓ Auto-Measure; Provides accurate measurements for Brinell, Vickers, and Knoop indents.
- ✓ Report Generator; Includes a variety of preloaded templates for streamlined reporting.
- ✓ Data Export Function: Allows seamless data transfer for editing in external spreadsheet programs.

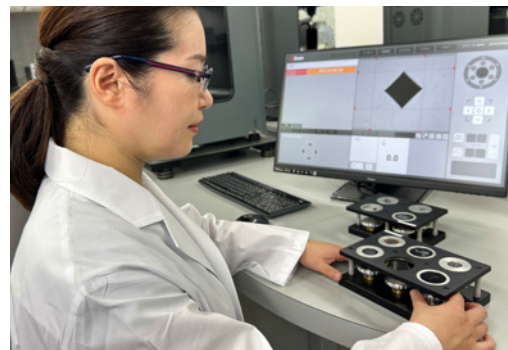


Multi-pattern



Easily apply any number of stored patterns and indentation locations to your sample—instantly and precisely. Ideal for recurring test routines and component series. Align test-point layouts directly on the part itself, and use contour scanning for fully automated positioning.

Multi-job

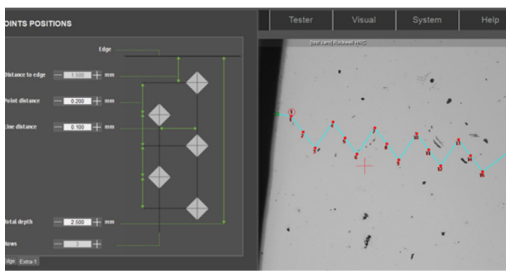


Load numerous samples with their respective test patterns, hardness scales and reporting formats at once and run them in one long batch, without supervision of an operator. Evaluate and store the results after the indent and measure process has been completed.

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SOFTWARE MODULES

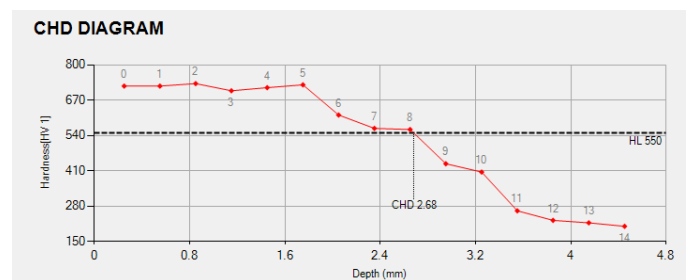
Test Point Editor



Module for defining and setting up basic test patterns (line, square, zigzag, triangle) on testers with a motorized stage.

- ✓ Create simple patterns in a few seconds.
- ✓ Possibility to set up multiple patterns for automatic testing on multiple samples.

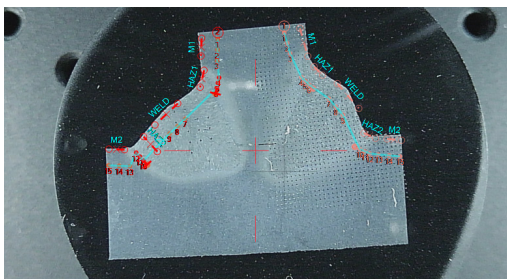
Hardness Depth Module



Hardness depth test module for machines with automatic stages. Enables CHD, SHD and NHD testing patterns for surface treated samples.

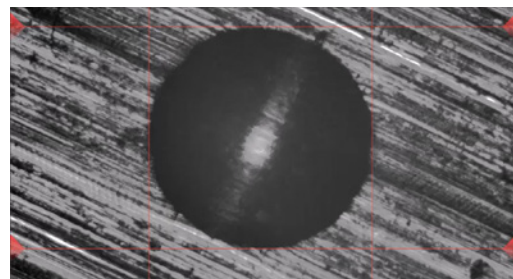
- ✓ Flexible and easy to position single and multi-line indentation patterns.
- ✓ Automatic test termination to save time.

Weld Measurement Module



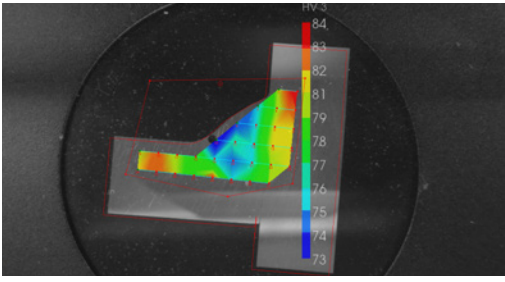
Define test patterns precisely across the base material, HAZ, and weld zone—fully compliant with ISO 9015. The customizable pattern adapts seamlessly to any weld geometry, ensuring consistent and repeatable results.

AI Module



Trained on thousands of images, the artificial Intelligence module can identify and measure even hard to read, low contrast indents. Available for Brinell and Vickers.

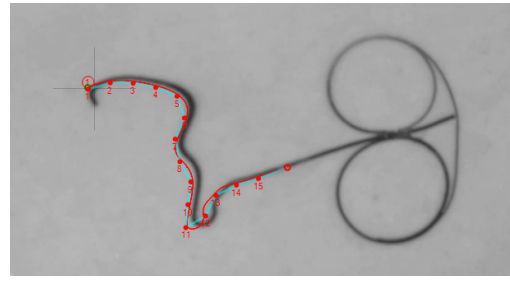
Hardness Mapping Module



Module for 2D or 3D hardness mapping over areas or scanned contours.

- ☑ Creates a color map of the full surface, allowing to identify hardness variations and criticalities in the sample.
- ☑ Ideal for extrapolation of mechanical properties of materials on the whole surface.

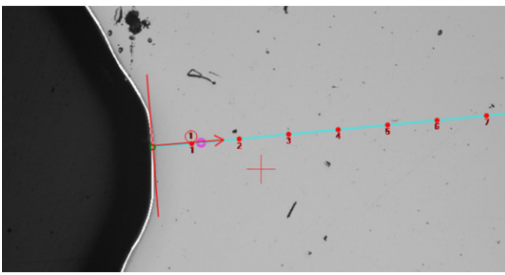
Contour Scanning Module



Automatically scans the full contour of the samples using edge detection

- ☑ Allows automatic pattern placement according to template.
- ☑ Automated placement of indents along the specimen contour.

Automatic Edge Detection



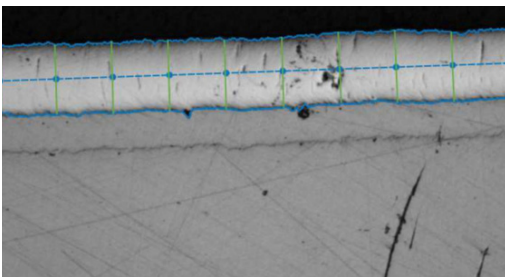
Module for edge recognition for creating test pattern parallel to the specimen edge.
For quick positioning of indents at specific

Barcode Module



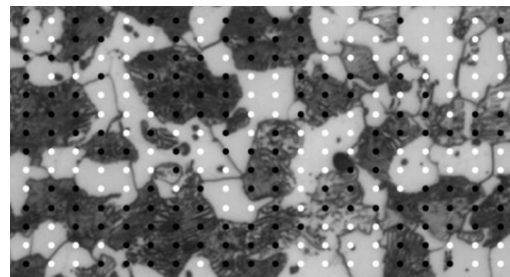
Links scanned QR barcodes to predefined test programs. Simply scan an item and the correct program loads automatically. With seamless data transfer of serial numbers and other key parameters.

Coating Thickness Module



To determine layer thickness according to ISO standards. Automatic measurement of single and multiple layers and coatings. Part of DuraSoft-Met.

Phase Analyses Module



Analytics module for calculating Volume Fraction or Phase Analysis. Grid counter presents the Black Fraction and White Fraction. Part of DuraSoft-Met.

See all software modules on our website

Scan QR code for more information



BRING YOUR IDEAS TO LIFE



Validating product designs takes more than the best tools and consumables, it takes insight and knowledge that only 150+ years of metallographic expertise can provide.

ENSURING CERTAINTY



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EQUIPMENT OVERVIEW

DuraVista always comes with:

- Loadcell based load range, selectable between 0.1 gf and 62.5 kgf.
- Integrated PC
- 27" touchscreen
- 20 Megapixel high-resolution camera, auto-illumination and auto-focus.
- Controller for the motorized Z-axis and optional motorized XY-stage
- 1 indenter position (excl. indenter)
- 10x and 50x objectives
- Software modules for manual & automatic indent measurement, auto-focus, user level management and reporting

DuraVista-40 With motorized 6-position measurement turret, for up to 2 indenter positions and 4 objectives		Item number
DuraVista-40M	Micro/macro hardness tester for Vickers, Knoop and low-load Brinell. Loadcell based load range, selectable between 0.1 gf and 62.5 kgf	06606131
DuraVista-40A	Micro/macro hardness tester for Vickers, Knoop and low-load Brinell. Loadcell based load range, selectable between 0.1 gf and 62.5 kgf. Including 13 Megapixel overview camera, and software modules Test Point Editor, hardness depth patterns (CHD, NHT, SHD DuraSoft-Met Metallography software pack	06606133
Duravista-80 With motorized test head and motorized 8-position angled measurement turret, for up to 2 indenter positions, 4 objectives, standard touch probe and positioning laser		Item number
DuraVista-80M	Micro/macro hardness tester with motorized test head for Vickers, Knoop and low-load Brinell. Loadcell based load range, selectable between 0.1 gf and 62.5 kgf	06716101
DuraVista-80MT	Micro/macro hardness tester with motorized test head and motorized spindle for Vickers, Knoop and low-load Brinell. Loadcell based load range, selectable between 0.1 gf and 62.5 kgf	06716111
DuraVista-80A	Micro/macro hardness tester with motorized test head for Vickers, Knoop and low-load Brinell. Loadcell based load range, selectable between 0.1 gf and 62.5 kgf. Including 13 Megapixel overview camera, and software modules Test Point Editor, hardness depth patterns (CHD, NHT, SHD DuraSoft-Met Metallography software pack	06716102

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ACCESSORY ITEM OVERVIEW

DuraVista-80AT	Micro/macro hardness tester with motorized test head and motorized spindle for Vickers, Knoop and low-load Brinell. Loadcell based load range, selectable between 0.1 gf and 62.5 kgf. Including 13 Megapixel overview camera, and software modules Test Point Editor, hardness depth patterns (CHD, NHT, SHD DuraSoft-Met Metallography software pack)	06716112
DuraVista-40 options		Item number
Indenter actuator	Second indenter actuator post, factory installed	06606912
Overview Camera	Overview view zoom camera + software functionality, field of view 35x50mm up to 200x180mm, includes overview lights, 13 megapixels full color	6606911
DuraVista-80 options		Item number
Indenter actuator	Second indenter actuator post, factory installed	06710030
Rockwell kit	Depth Measuring Kit for Rockwell- & Superficial Rockwell scales	06710031
Overview Camera	Overview view zoom camera + software functionality, field of view 35x50mm up to 200x180mm, includes overview lights, 13 megapixels full color	06606911
DuraVista-40 & DuraVista-80 load options		Item number
Load range 10gf - 2kgf	Allows your DuraVista to apply loads within the range of 0.098 N – 19,62 N (10gf - 2kgf)	06703035
Load range 10gf - 10kgf	Allows your DuraVista to apply loads within the range of 0.098 N – 98,1 N (10gf - 10kgf)	06703036
Load range 10gf - 31.25kgf	Allows your DuraVista to apply loads within the range of 0.098 N – 306,6 N (10gf - 31.25kgf)	06703037
Load range 10gf - 62.5kgf	Allows your DuraVista to apply loads within the range of 0.098 N – 613.1 N (10gf – 62.5kgf)	06703038
Load range 200gf - 62.5kgf	Allows your DuraVista to apply loads within the range of 1.962 N – 613.1 N (200gf – 62.5kgf)	06703039
Load range extension 0.1gf - 1gf	Load range extension 0.1gf - 1gf, steps of 0.05gf, only in combination with option 06703030	06703040
Load range extension 1gf - 10gf	Expands the load range of your DuraVista with 1gf - 10gf. Requires a connecting load range. Note: <10gf indents are smaller than standards permit	06703030
Load range extension 10gf - 200gf	Expands the load range of your DuraVista with 10gf - 200gf. Requires a connecting load range	06703034
Load range extension 2kgf - 10kgf	Expands the load range of your DuraVista with 2kgf - 10kgf. Requires a connecting load range	06703031
Load range extension 10kgf - 31.25kgf	Expands the load range of your DuraVista with 10kgf - 31.25kgf. Requires a connecting load range	06703032

Load range extension 31.25kgf - 62.5kgf	Expands the load range of your DuraVista with 31.25kgf - 62.5kgf. Requires a connecting load range	06703033
Indenters for DuraVista-40 & DuraVista-80		Item number
Vickers diamond	Vickers indenter with accr certificate ASTM and ISO	06709121
Knoop diamond	Knoop indenter with accr certificate ASTM and ISO	06709130
Brinell 1,0mm ball	Brinell ball indenter, 1 mm with accr certificate ASTM and ISO	06709114
Brinell 2,5mm ball	Brinell ball indenter, 2.5 mm with accr certificate ASTM and ISO	06709115
Brinell 5,0mm ball	Brinell ball indenter, 5 mm with accr certificate ASTM and ISO	06709121
Indenter actuator	Second indenter actuator post DuraVista-40, factory installed	06606912
Indenter actuator	Second indenter actuator post DuraVista-80, factory installed	06710030
Optics DuraVista-40		Item number
2,5x objective	Objective lens for Duramin-4/-40/-100/-600/-650, 2.5x	06709001
5x objective	Objective lens for DuraVista-40 and Duramin-4, 5x	06709008
10x objective	Objective lens for DuraVista-40 and Duramin-4, 10x	06709009
20x objective	Objective lens for DuraVista-40 and Duramin-4, 20x	06709010
50x objective	Objective lens for DuraVista-40 and Duramin-4, 50x	06709011
100x objective	Objective lens for DuraVista-40 and Duramin-4, 100x	06709012
Ring light 2,5x	LED ring light for 2.5x objectives	06709054
Ring light 5x & 10x	LED ring light, multi use for 5x and 10x objectives	06709052
Overview Camera	Overview view zoom camera + software functionality, field of view 35x50mm	06606911
Optics DuraVista-80		Item number
2,5x objective	Objective lens for DuraVista-80, 2.5x (infinite corrected)	06710014
5x objective	Objective lens for DuraVista-80, 5x (infinite corrected)	06710010
10x objective	Objective lens for DuraVista-80, 10x (infinite corrected)	06710015
20x objective	Objective lens for DuraVista-80, 20x (infinite corrected)	06710013
40x objective	Objective lens for DuraVista-80, 40x (infinite corrected)	06710012
50x objective	Objective lens for DuraVista-80, 50x (infinite corrected)	06710011
100x objective	Objective lens for DuraVista-80, 100x (infinite corrected)	06710016
Ring light 2,5x	LED ring light for 2.5x objectives	06709054
Ring light 5x & 10x	LED ring light, multi use for 5x and 10x objectives	06709052
Overview Camera	Overview view zoom camera + software functionality, field of view 35x50mm up to 200x180mm, includes overview lights, 13 megapixels full color	06606911
Manual Stages for DuraVista-40M & DuraVista-80M(T)		Item number
Stage 100x100mm, 60kg	Manual XY-stage, 100x100mm, 60kg max load with analogue metric micrometers, 25x25mm travel NOTE! DuraVista-40 DuraVista-80 require 06709249 mounting plate	06709419

Stage 100x100mm, 100kg	Manual XY-stage, 100x100mm, 100kg max load with analogue metric micrometers, 25x25mm travel NOTE! DuraVista-40 DuraVista-80 require 06709249 mounting plate	06709260
Stage 180x160 mm, 300kg	Manual XY-stage, 180x160 mm, 300kg max load with analogue metric micrometers, 25x25mm travel NOTE! DuraVista-40 DuraVista-80 require 06709230 mounting plate	06709215
Digital micrometer	Digital micrometer, 1 pc. Digital micrometer with coordinate read-out in Duramin software (via USB connection) or directly on micrometer. 25 mm travel	06709216
Bluetooth micrometer S	Digital Micrometer with bluetooth, 1 pc. 25mm travel	06709288
Bluetooth micrometer L	Digital Micrometer with bluetooth, 1 pc. 50mm travel	06709287
XY-stage mounting plate	Mounting plate for manual 100x100mm XY stages	06709249
XY-stage mounting plate	Mounting plate for manual 180x160mm XY stage	06709230
Motorized Stages for DuraVista-40 & DuraVista-80		Item number
NOTE! DirectConnect motorized stage require quick connect foot 06709248		
Stage 215x160mm	DirectConnect motorized stage with built-in encoders, 215x160mm Travel: 75x75mm, resolution 0.001mm, repeatability +/-0.015mm, max. load 400kgf	06709280
Stage 260x205mm	DirectConnect motorized stage with built-in encoders, 260x205mm Travel: 120X120mm, resolution 0.001mm, repeatability +/-0.015mm, max. load 400kgf	06709281
Stage 360x205mm	DirectConnect motorized stage with built-in encoders, 360x205mm Travel: 220X120mm, resolution 0.001mm, repeatability +/-0.015mm, max. load 400kgf	06709282
Stage 490x224mm	DirectConnect motorized stage with built-in encoders, 490x224mm Travel: 340X120mm, resolution 0.001mm, repeatability +/-0.015mm, max load 400kgf. Not compatible with DuraVista-40	06709283
Quick connect foot	DirectConnect motorized stage with built-in encoders quick connect foot	06709248
Sample holders for DuraVista-40 & DuraVista-80		Item number
Single sample holder	Specimen holder 1x50mm/2in	06709301
Four fold sample holder	Specimen holder, 4x50mm/2in. Note: with 50mm (2") mounts, outer rim of samples out of reach on stage 06709282	06709302
Six fold sample holder	Specimen holder, 6x50mm/2in	06709303
Single sample holder	1 position sample holder, diameter 50mm or 2" with front operation elevator knob	06709320
Four fold sample holder	4 position sample holder, diameter 50mm or 2" with front operation elevator knob	06709321
Six fold sample holder	6 position sample holder, diameter 50mm or 2" with front operation elevator knob	06709322
Insert 25mm	Insert ring specimen holder, 25mm	1x 06709350
Insert 30mm	Insert ring specimen holder, 30mm	1x 06709351
Insert 40mm	Insert ring specimen holder, 40mm	1x 06709353
Insert 1"	Insert ring specimen holder, 1"	1x 06709355

Insert 1 1/4"	Insert ring specimen holder, 1 1/4"	1x 06709356
Insert 1 1/2"	Insert ring specimen holder, 1 1/2"	1x 06709357
Automation Software for DuraVista-40 & DuraVista-80		Item number
Test point editor	Module for defining and setting up basic test patterns (line, square, zigzag, triangle) on testers with a motorized stage. Create simple patterns in a few seconds. Possibility to set up multiple patterns for automatic testing on multiple samples	06703005
Hardness depth module	Hardness depth test module for machines with automatic stages. Enables CHD, SHD and NHD patterns. Automatic test termination to save time	06703004
Weld module	Dedicated Weld Hardness measurement module for defining patterns according to base material, HAZ and Weld zone. Adaptable to any weld geometry. Allows accurate positioning of the indents along the Fusion Line with specific distance from the surface	06703001
Edge Detection Module	Automatic edge detection module for edge recognition for creating test pattern parallel to the specimen edge. For quick positioning of indents at specific distance and angles with respect to the sample contour	06703008
Contour Scan Module	Module for scanning the full contour of the specimen, builds a 2D model of the sample within seconds. Allows to measure the surface hardness around the sample or position the measurement points according to the geometry. Incl. Edge Detection	06703009
Hardness Mapping Mod.	Module for 2D or 3D hardness mapping over areas or scanned contours. Creates a heat map of the full surface, allowing to identify hardness variations and criticalities in the sample. Incl. Edge Detection and Contour Scan	06703010
Image stitching module	Module for scanning and stitching for a full stage overview or detailed images of larger areas of a test sample, such as big welds and large mechanical components. Use for positioning patterns or to visualize reporting. Works with standard objectives	06703018
Cartridge testing module	Module for testing shells/casings according to ammunition industry demands. Easy data management for multiple indents along the length of the cartridge. The fully automatic test procedure generates a detailed report, providing single readings and statistics	06703003
Screw Threads Module	Module for detection and analysis of fastener threads according to the three-point ISO 898-1 pattern. Incl. automatic contour detection of the thread	06703006
Tap Screw Module	Module for fully automatic testing according to ISO 2702 for screw thread measurement of (de)-carbonized parts	06703021
Various Software for DuraVista-40 & DuraVista-80		Item number
DuraLink Module	DuraLink Remote Control Module – Control your DuraVista directly from your desktop or laptop within your secure company network, enabling convenient, safe, and efficient remote operation	06703024
KIC module	Module for measuring Fracture Toughness K _{IC} using Nihara's formulation. Different formulations for Palmqvist and Median fracture models	06703002
Brinell AI Module	AI-driven Brinell testing module. Uses machine learning from numerous indents to accurately detect and measure even shallow or rough-surface impressions, continuously improving precision and reliability	06703022

Vickers AI Module	AI-driven Vickers testing module. Uses machine learning from numerous indents to accurately detect and measure even shallow or rough-surface impressions, continuously improving precision and reliability	06703029
Force/Depth/Time Diagram	This feature will show the depth of the indenter in the material while performing a Rockwell measurement. Contains the visualisation of the relation between indenter depth and the force applied	06703019
DuraSoft-Met Module	Module that turns your hardness tester into a metallography microscope. Includes: - Coating thickness measurements acc. DIN EN ISO 1463 - Grain size measurement acc. to DIN EN ISO 643 and ASTM E112 - Volume fraction acc. to ISO 9042	06703028
Park & Pause function	Module that allows to add a Park & pause action with user prompt after every pattern. Can be used to allow flipping specimens like crank shafts or Jominy rods	06703023
Q-DAS Module	Module for exporting test results in QDAS format (Aq def or Dfd/Dfx)	06703012
Manual Stage Software for DuraVista-40 & DuraVista-80		Item number
Manual Hardness depth	CHD, SHD, NHD testing module for testers with manual XY-stage. Ideal for simple hardening depth tests which do not require an automatic stage	06703015
Manual adv. point editor	Advanced 3 axis coordinate & free style indent pattern configurator, +CHD, SHD, NHD and edge detection. Enables advanced testing even on manual stages	06703016
Additional items for DuraVista-40 & DuraVista-80		Item number
Keyboard QWERTY	Wireless system Keyboard & wireless mouse US-International QWERTY	06703900
Keyboard AZERTY	Wireless system keyboard & wireless mouse, French AZERTY	06703930
Keyboard QWERTZ	Wireless system keyboard & wireless mouse, German QWERTZ	06703931
Dust Cover L	Dust cover DuraVista, size L (W380 x L640 x H1100 mm)	06709912
Cabinet 71	Base cabinet, 71x75x80cm	06709903
Cabinet 150	Base cabinet, 150x75x80cm	06709904
Anti vibration stage	Passive vibration isolation stage for DuraVista-40	06709229
Anti vibration stage	Passive vibration isolation stage for DuraVista-80	06709270
Rockwell kit	Depth Measuring kit for Rockwell- & Superficial Rockwell scales. For DuraVista-80 only	06710031

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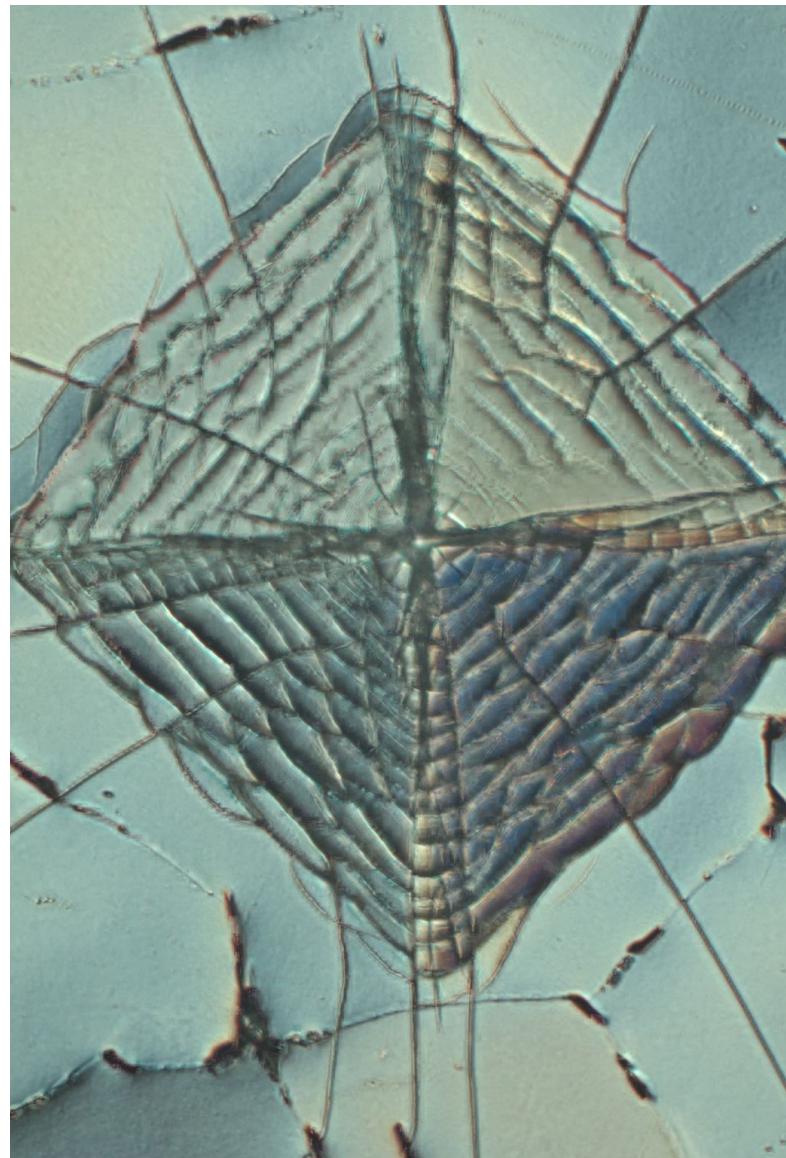
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