





# THE FINAL STEP OF THE PROCESS.

PRESI offers a new vision of hardness with its complete range of micro and macro-hardness testers with dead weights.

For the examination of your samples and the determination of the material characteristics, we design top of the range equipment.

They guarantee perfectly reliable and repeatable results.

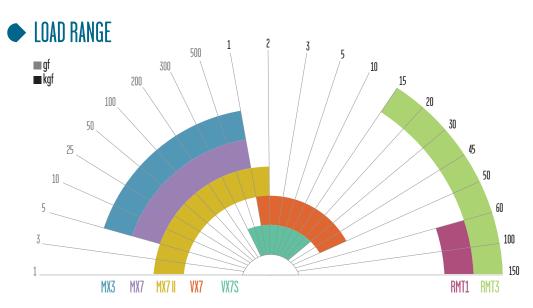
Thanks to our scalable hardware and software solutions, we can cover the whole range, up to the highly specialised needs.

A complete vision, without compromise.

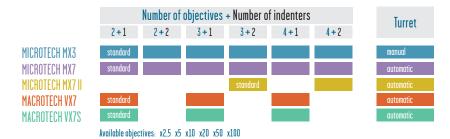
# MAKE THE RIGHT CHOICE

### INDENTER TYPE





### NUMBER OF TURRET POSITIONS



### ■ UPGRADABILITY - PACK VIEW ► PACK TOUCH MANUAL ► PACK TOUCH SEMI-AUTO

	PACK PRESI View	PACK PRES	SI Touch
	View Hardness	Touch Manual	Touch Semi-auto
INDENTATION TYPE			
Single indents	•	•	•
Manual pattern		•	
Semi-automatic pattern			•
EQUIPMENT			
Multilingual software for measurement and image analysis	•	•	•
USB2 digital camera, 1.3M pixels	•	•	•
Automatic light		•	•
Turret control		•	•
Motorized stage and joystick			•
Control box			•
FEATURES			
Manual or automatic measurement	•	•	•
Automatic storage of results and photos	•	•	•
Pattern settings		•	•
Hardness tester / PC communication		•	•
Overview			•
Alerts for measurement errors and load differences		•	•
Analysis reports		•	•



# MICROTECH MX3

### Ref. 71116

The Vickers MX3 hardness tester with manual turret offers a complete solution in order to meet the needs of quality laboratories, as well as on-line controls.



- Manual turret up to 6 positions.
- Vickers and Knoop hardness.
- Automatic load application.
- High-rigidity frame.



PACK PRESI View Hardness



PACK PRESI Touch Manual



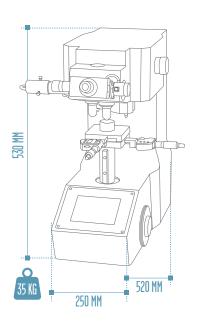
PACK PRESI Touch Semi-auto

# LOAD RANGE (gf)

500 1000

### TECHNICAL FEATURES

	Standard	Option
Manual turret	2 objectives x10 x50 1 Vickers indenter	Up to 4 objectives including x10 and x50, 1 Vickers indenter and 1 Knoop indenter
Load application	Automatic load application	-
Indentation time	5 to 99s	-
Precision	0.01µm (x200 - x1000)	-
Magnification	x100 - x500	x25 - x1000
Max. measurable length	200µm	-
Data output	RS 232C output	-
Memory	999 max. memorized measurements	-
Conversions	Conversion to other scales according to SAE (J-417B), ASTM (E-140)	-
Max. sample height	120mm	-
Power supply	240V 50/60Hz	-
Touchscreen	LCD display with backlight	-
Visualisation/Measurement	Direct measurement in the eyepiece and results display	-
Lighting	LED	-



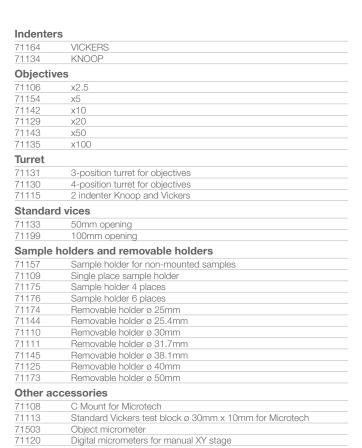
### **AVAILABLE OPTIONS**















Ref. 71113













# MICROTECH MX7 MICROTECH MX7 LOW LOADS

Ref. 71114

Ref. 71105

The Vickers MX7 and MX7 low load hardness testers with automatic turret offer a complete solution in order to meet the needs of quality laboratories, as well as on-line controls.



- Automatic turret up to 6 positions.
- Vickers and Knoop hardness.
- Automatic load application.
- High-rigidity frame.

UPGRADABILITY

PACK PRESI View Hardness

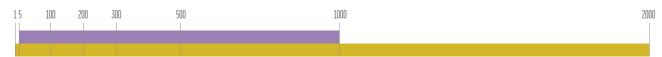


PACK PRESI Touch Manual



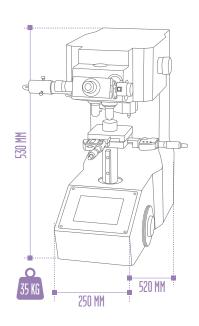
PACK PRESI Touch Semi-auto

# LOAD RANGE (gf)



### TECHNICAL FEATURES

	MX7	MX7 low load
Automatic turret	2 objectives x10 x50 1 Vickers indenter	3 objectives x10 x50 x100 1 Vickers indenter + 1 Knoop indenter
Turret options	Up to 4 objectives including x10 x50 + 2 indenters	Up to 4 objectives including x10 x50 x100
Load application	Automatic load application	Automatic load application
Load application speed	50μm/s	50µm/s
Indentation time	5 to 99s	5 to 99s
Precision	0,1µm (x200 - x1000)	0,1µm (x200 - x1000)
Magnification	x100 - x500	x100 - x500 - x1000
Max. measurable length	200µm	200µm
Data output	RS 232C output	RS 232C output
Memory	999 max. memorized measurements	999 max. memorized measurements
Conversions	Conversion to other scales according to SAE (J-417B), ASTM (E-140)	Conversion to other scales according to SAE (J-417B), ASTM (E-140)
Max. sample height	120mm	120mm
Power supply	240V 50/60Hz	240V 50/60Hz
Touchscreen	LCD display with backlight	LCD display with backlight
Lighting	LED	LED



### **AVAILABLE OPTIONS**

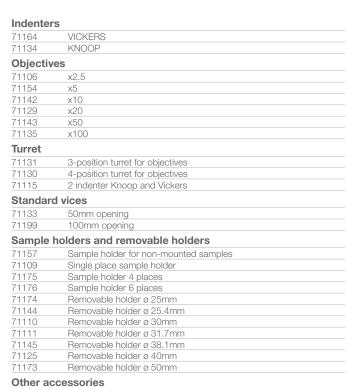


Ref. 71134









Standard Vickers test block ø 30mm x 10mm for Microtech



Ref. 71164

Ref. 71133







Ref. 71109







71108

71503

71120

C Mount for Microtech

Digital micrometers for manual XY stage

Object micrometer







# MACROTECH VX7 MACROTECH VX7S

Ref. 71124

Ref. 71132

The Vickers VX7 and VX7S hardness testers and semi-macro hardness testers with automatic turret offer complete solution to meet the needs of quality laboratories, as well as production line controls.



- 5-position automatic turret.
- Touchscreen.
- Hardness Vickers, Knoop and Brinnel.
- Automatic load application.
- High-rigidity frame.



PACK PRESI View Hardness



PACK PRESI Touch Manual



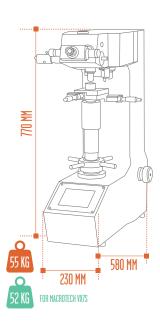
PACK PRESI Touch Semi-auto

# LOAD RANGE (kgf)



### TECHNICAL FEATURES

	VX7	VX7S
Automatic turret	2 objectives x10 x20, 1 Vickers indenter	2 objectives x10 x20, 1 Vickers indenter
Options turret	Up to 4 objectives including x10 x20 + 1 indenter	Up to 4 objectives including x10 x20 + 1 indenter
Load application	Automatic load application	Automatic load application
Load application speed	85µm/s	85µm/s
Indentation time	5 to 99s	5 to 99s
Precision	In accordance with ISO 6507-2, JIS B7725, ASTM (E-384) standards	In accordance with ISO 6507-2, JIS B7725, ASTM (E-384) standards
Magnification	x100, x200	x100 - x200
Max. measurable length	999.9µm - 600µm	999.9µm - 600µm
Data output	RS 232C output	RS 232C output
Memory	999 max. memorized measurements	999 max. memorized measurements
Conversions	Conversion to other scales according to ASTM (E-140) et JIS	Conversion to other scales according to ASTM (E-140) et JIS
Max. sample height	250mm	250mm
Max. sample length	150mm	150mm
Power supply	240V 50/60Hz	240V 50/60Hz
Touchscreen	LCD display with backlight	LCD display with backlight
Lighting	LED	LED



### **AVAILABLE OPTIONS**

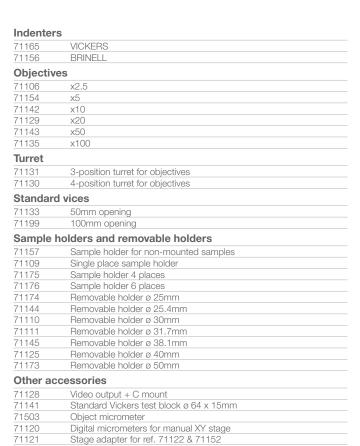


Ref. 71156 Ref. 71165









Manual XY stage 25 x 25mm movement







Ref. 71109









71122

Ref. 71120



# MACROTECH RMT1 MACROTECH RMT3

Ref. 71199

Ref. 71117

Rockwell RMT1 and RMT3 hardness testers cover all scales in order to meet the needs of quality laboratories, as well as controls on the production line.



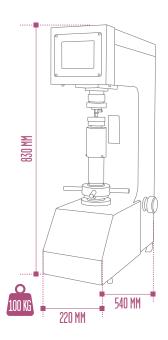
- Automatic indent.
- Direct digital reading.
- Assisted pre-charge.
- Very easy settings.
- New LCD screen.

# LOAD RANGE (kgf)



# TECHNICAL FEATURES

	MACROTECH RMT1	MACROTECH RMT3
Preload mode	Assisted preload (LCD Visual and BIP sound)	Assisted preload (LCD Visual and BIP sound)
Load application	Automatic	Automatic
Starting cycle	Automatic start / Possible in manual	Automatic start / Possible in manual
Indentation time	3 to 99s	3 to 99s
Measurements on plastics	Standard	Standard
Measurement scales	CDAGBFKEHP MLVSR	15N 30N 45N 15T 30T 45T 15W 30W 45W 15X 30X 45X 15Y 30Y 45Y C D A G B F K E H P M L V S R
Data output	RS 232C output	RS 232C output
Memory	999 max. memorized measurements	999 max. memorized measurements
Conversions	In accordance with SAE J417b, ASTM E 140 standards	In accordance with SAE J417b, ASTM E 140 standards
Precision	In accordance with JIS B7726, ASTM (E-18) standards	In accordance with JIS B7726, ASTM (E-18) standards
Max. sample height	200mm	200mm
Max. depth piece	165mm	165mm
Alimentation	240V 50/60Hz	240V 50/60Hz
Touchscreen	LCD display with backlight	LCD display with backlight



# **AVAILABLE ACCESSORIES**





Ball indenter	Diam 1/8", 1/4", 1/2", 3/4"
Steel balls	Diam 1/8", 1/4", 1/2", 3/4"
Round stage	Diam 200mm
Other stage	V table (small), stud, diamond stud
JIG tests on long samples	Vari-Rest & Jack-Rest
Micrometric displacement stage for the Jomini tests	Maximum displacement: about 55 mm Mini scale: 1/10mm or 1/160"

# **AVAILABLE OPTIONS**





Standard vices

Otanidan	Otalidala vices		
71133	50mm opening		
71199	100mm opening		
Other ac	ccessories		
71167	Standard Rockwell C test block ø 64 x 15mm		



# PRESI VIEW & PRESI TOUCH

PRESI View and PRESI Touch softwares have been developed by our engineers around a new generation of digital cameras, to meet the needs of digital imaging laboratories and users.

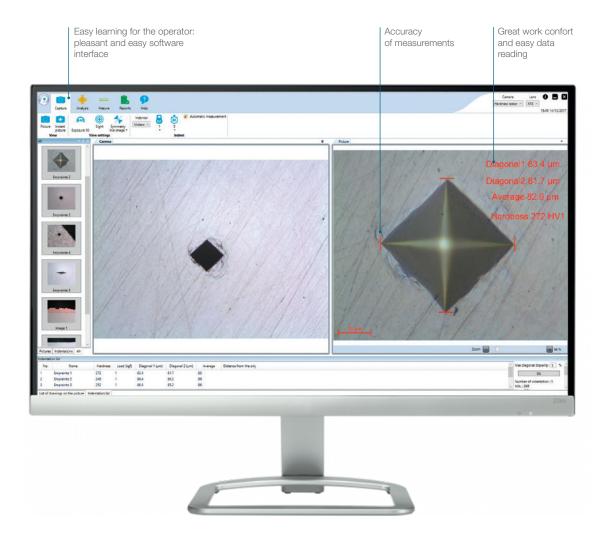
**Very intuitive,** they handle the acquisition, treatment and editing of images.

Thanks to an ergonomic architecture, the software is user-friendly.

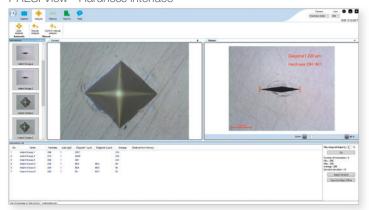
Monochrome or color, our digital cameras are equipped with 1/2" CMOS sensors, with Rolling or Global Shutter, depending on the model. Our USB2 1.3 to 5 Mpixels cameras offer excellent **fluidity** and are **easy to install.** 

# THE RIGHT SOFTWARE FOR THE RIGHT USAGE

	PRESI View	PRESI Touch
Manual indent analysis	•	•
Automatic indent analysis	•	•
Single indent management	•	•
Multi-language software	•	•
Pattern management		•
Integrated report		•
Hardness tester control		•



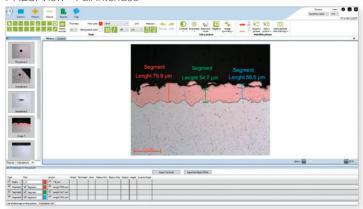
#### PRESI View - Hardness interface



### HARDNESS CONTROL

Image analysis and manual reading. Vickers and Knoop measurement.

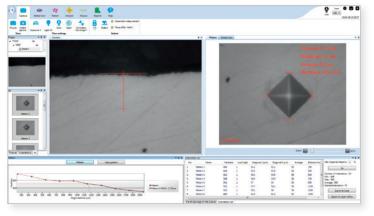
#### PRESI View - Full interface



# **DIMENSIONAL CONTROL**

Lenght measurements, angles, diameters, surfaces on cuts of pieces such as layers painting, surface treatments, deposits, etc.

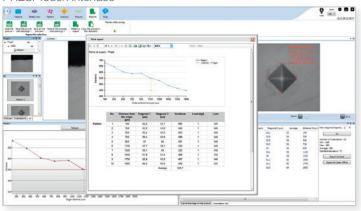
#### PRESI Touch interface



# THERMAL TREATMENT CONTROL

Depth control for heat treatments by direct measurement or by using composed measuring tools, such as projection.

#### PRESI Touch interface



### PRODUCTION CONTROL

Precise, intuitive and fast software for obtaining results in production controls.



# PRESI VIEW HARDNESS PACK

# ACCESSIBLE AND INTUITIVE DIGITAL IMAGERY FOR SINGLE INDENTS

Specially designed for single indent analysis, the PRESI View Hardness software has a simple interface and a pleasant workspace. Thanks to easily identifiable icons, the software is user-friendly and the operator is quickly autonomous on his tasks. On-screen visualisation of the indent, as well as the assisted analysis, offer a great work comfort.

### **FUNCTIONALITIES**

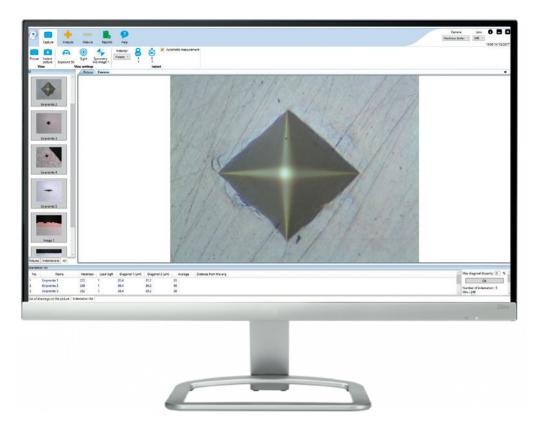
Language	Software available in 3 languages: English + French + German
Indentation type	Single indent
Software	Simultaneous functioning with multiple cameras on different acquisitior means (macro lens, stereomicroscope, microscope, hardness tester and Vickers micro hardness tester)
	Manual or automatic measurement
	Miniature view of pictures
	Customizable formatting
	Streamlined and intuitive interface
Setup menu	Easy and fast camera settings Calibrations achievable in seconds
	Presets of the measurement display
Exploitation of results	Many recording formats
	Automatic storage of results in database
	Pictures exportation in format: JPEG / PNG / BMP / GIF
	Data exportation in format: Excel / Open Office
Compatibility	The software is compatible with all our Microtech, Macrotech VX7 and VX7S hardness testers, and all brands equipped with a video output and C mount

# EXTENDED FEATURES WITH PRESI VIEW MEASURE

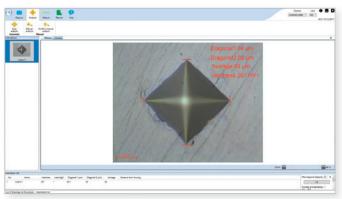
engths, thicknesses, markers, angles..

Rays, diameters, perimeters, surfaces, circles, arcs..

Text boxes insertions, titles and arrows

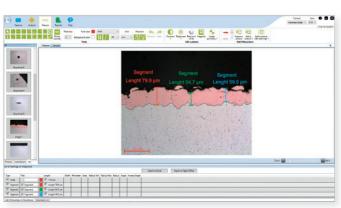


- **EASY AND INTUITIVE**
- **▼ IMAGE FLUIDITY**
- **AUTOMATIC ANALYSIS**
- **DATA STORAGE**



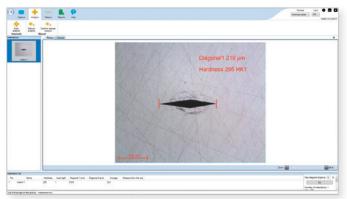
#### PRESI View hardness

Automatic or manual measurement of Vickers indents.



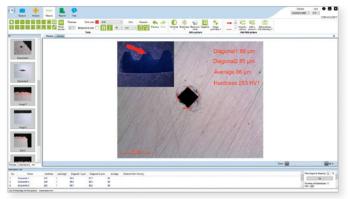
#### **PRESI View Full**

The optional measurement module provides a large number of measurement tools such as measuring angles, polygons, projections, etc.



#### **PRESI View hardness**

Automatic or manual measurement of Knoop indents.



#### **PRESI View Full**

The addition of a thumbnail enriches the number of information on a photo. The drafting of the report is thus facilitated.



# PACK PRESI TOUCH MANUAL

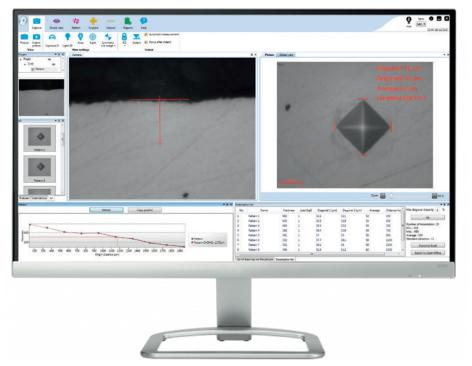
# CREATE AND EASILY MANAGE YOUR HARDNESS FILIATIONS

**The PRESITouch Manual Pack** is the 2<sup>nd</sup> level of computerization, allowing the creation and management of hardness patterns. The integrated image analysis in the software allows an easy and reliable interpretation.

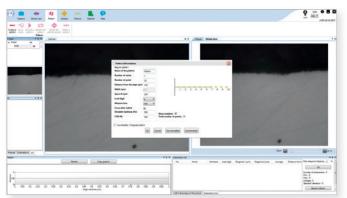
Designed to facilitate manual patterns and guarantee a perfect repeatability of the results, the PRESI Touch Manual software distinguishes itself by a clear, uncluttered and fully customizable interface. It has numerous features such as automatic measurement or manual indenting. The navigation is simplified, thanks to contextual menus, for a quick start by the operator.

### **FUNCTIONALITIES**

Language	Software available in 3 languages: English + French + German
Indentation type	Single indent  Manual pattern with travel assistant: indication of the coordinates of the moves to be made
Equipment	Measurement and analysis software
	USB2 digital camera, 1.3M pixels: the transmitted image on the computer screen is accurate and fluid
	Automatic or manual brightness: the software offers an optimal brightness setting on the sample to be analyzed
	Turret management:  - Manual: the software indicates via pop-up which position to select  - Motorized: the software automatically controls the change of position
Features	Automatic or manual measurement: the operator can choose to let the PRESI Touch software automatically analyze the indents, or manually perform the interpretation
	Automatic storage of results and photos into the database
	Search engine: allows you to quickly find already completed projects
	Pattern settings: graphical and dynamic menu, allowing real time monitoring of the programming
	Hardness tester / PC communication: the operator can control and interact directly with the hardness tester via the software
	Difference of load alert: in case of a difference between the programmed load via the software and the manually defined load by the operator, an alert pops up on screen
	Analysis reports: numbers, graphs and statistics can be exported in one click in Word, Excel or PDF formats
Compatibility	PRESI Touch Manual software is compatible with all Microtech, Macrotech VX7 and VX7S hardness testers

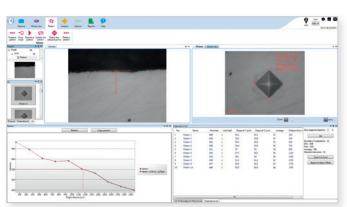


- **INTEGRATED MEASURING TOOLS**
- PRECISION AND REPEATABILITY OF MEASUREMENTS
- **☞ GREAT WORK COMFORT** AND EASY DATA READING
- **₩ USER-FRIENDLY SOFTWARE**



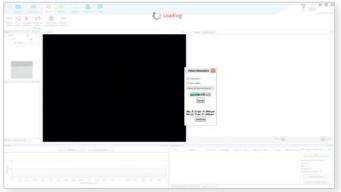
#### **Pattern creation**

A graphic and dynamic assistant allows pattern visualisation during its programing.



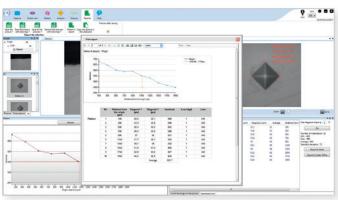
#### Interface

The fully configurable interface allows the visualization of all results, regardless of the selected function.



#### **Pattern execution**

The operator is guided by the software. XY coordinates of the indentations to perform are shown on the screen.



#### **Automatic report**

In one click, a report formats the results.

This report is printable or recordable in many formats.



# PACK PRESI TOUCH SEMI-AUTO

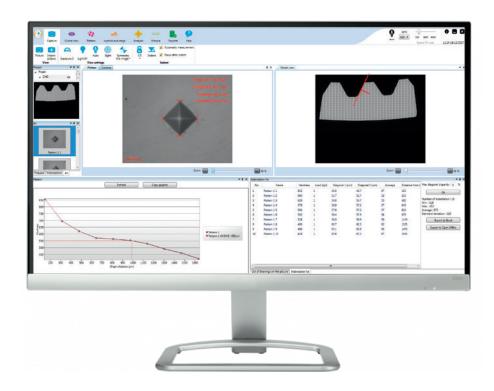
# THE XY AUTOMATIC DISPLACEMENT SERVING YOUR PATTERNS

Developed in an effort to optimize efficiency and to free the user from tedious operations and increase productivity, **the Semi-Auto Pack** incorporates a motorized stage, driven by joystick.

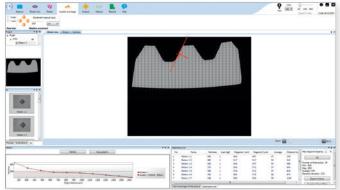
Its XY automatic displacement accuracy offers real time saving, repeatability and guarantees consistency in the interpretation of the results. PRESI Touch pattern storage facilitates the operator's work. The software allows pattern creation in no time and instant editing of a hardness profile. Easy and automatic measurements, ideal for serial checks.

### **FUNCTIONALITIES**

Indent type  Single pattern Semi-automatic pattern  Multilingual software for measurement and image analysis  USB2 digital camera, 1.3M pixels: the image retransmitted on the computer screen is accurate and fluid  Automatic or manual brightness: the software offers an optimal brightness setting on the sample to be analyzed  Control box, motorized stage and joystick: a set of peripherals ai fast and precise movements on the surfaces to be analyzed  Features  Manual or automatic measurement: the operator can choose to the PRESI Touch software automatically analyze indents or manumanage the control  Pattern settings: graphical and dynamic menu, allowing real time monitoring of the programming  Hardness tester / PC communication: the operator can control and interact directly with the hardness tester via the software  Overview: possibility to photograph all or part of the sample to be analyzed and to directly place the patterns in the right place.  Deformed indent alert: a colored line appears in the result table when d1 = d2 +/- x% (adjustable tolerance)  Difference of load alert: in case of a difference between the progrand at the software and the manually defined load by the opera an alert pops-up on screen  Analysis reports: numbers, graphs and statistics can be exported in one click in Word, Excel or PDF formats  Image analysis: automatic or manual indent analysis on etched or non-etched samples  Single indents, regular or irregular patterns: in order to meet nume needs, the software allows the execution of isolated points, the programming, the backup and the loading of a pattern or of a of patterns	an
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Compatibility  The PRESI Touch Semi-auto software is compatible with all our Microtech, Macrotech VX7 and VX7S hardness testers	

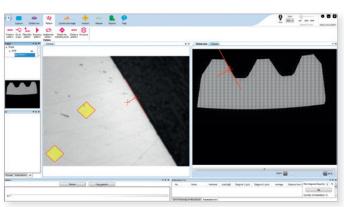


- **COMPLETE, RELIABLE AND POWERFUL**
- **▼ VERY HIGH QUALITY IMAGE**
- **INTUITIVE NAVIGATION**
- TIME SAVING

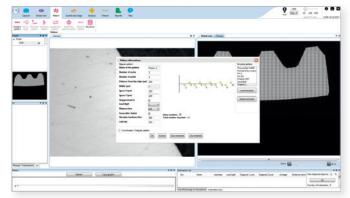


#### Overview

The motorized stage makes it possible to reconstruct, by photos, the sample to be analyzed.

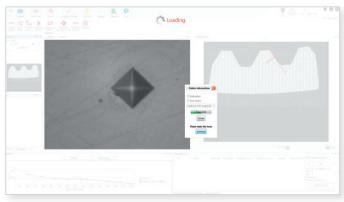


**Virtual pattern**Once the pattern is programmed, it virtually appears on the camera view.
It is possible to visualize the location of the different indents, as well as their estimated size.



#### Programmation

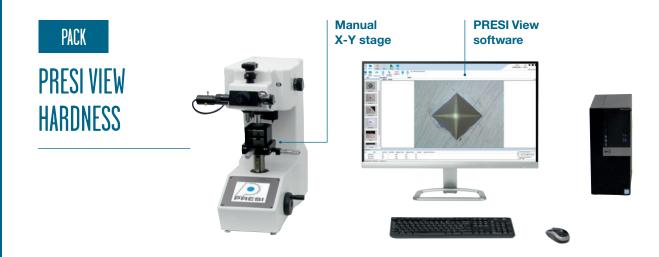
A graphic and dynamic assistant allows pattern visualisation during its programming. It is possible to place the pattern directly on the overview.



Measuring cycle (automatic or manual)
A pop-up window asks the operator to check the focus of the indent, before measurement.



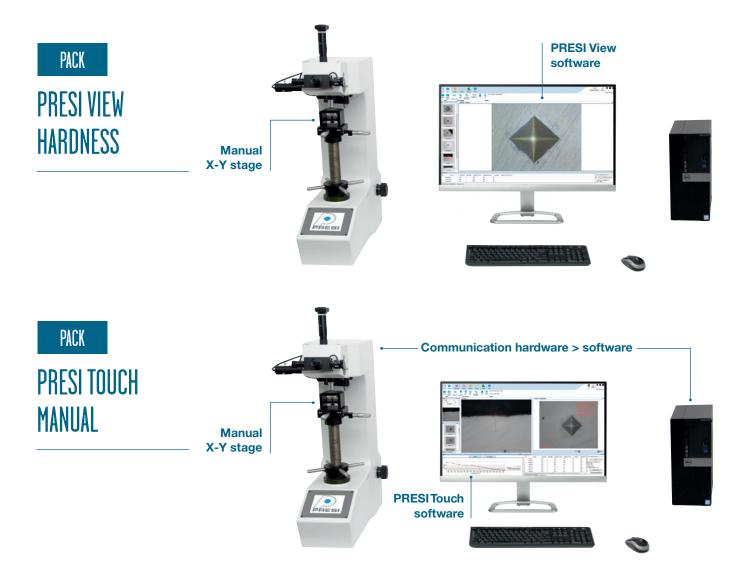
# MICROTECH MX3 - MX7 - MX7 LOW LOADS







# MACROTECH VX7- VX7S





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