
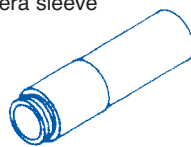
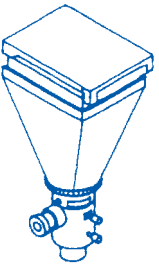
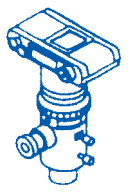
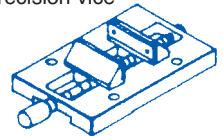


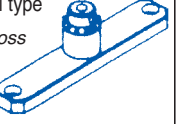
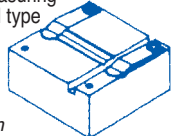
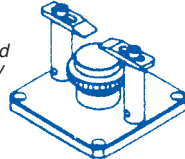
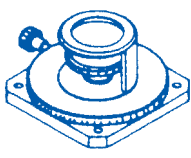
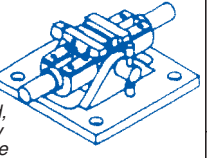
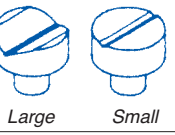
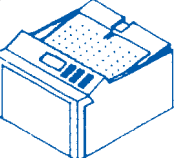
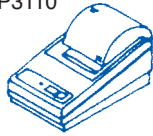
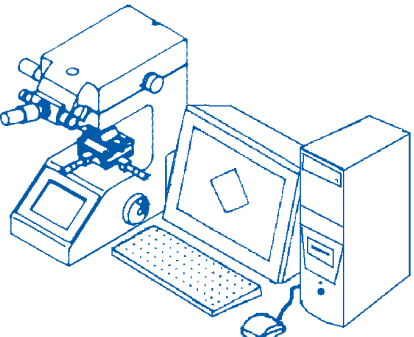
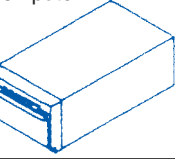
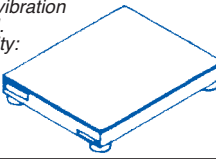
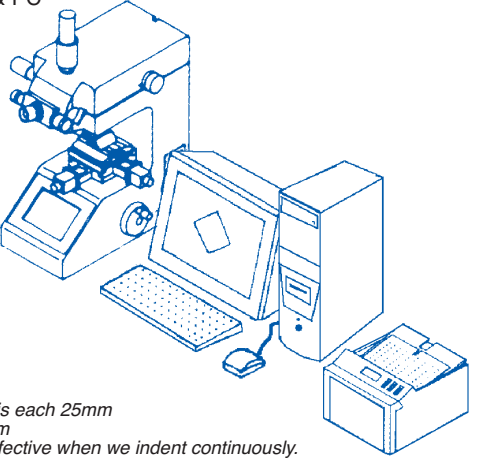
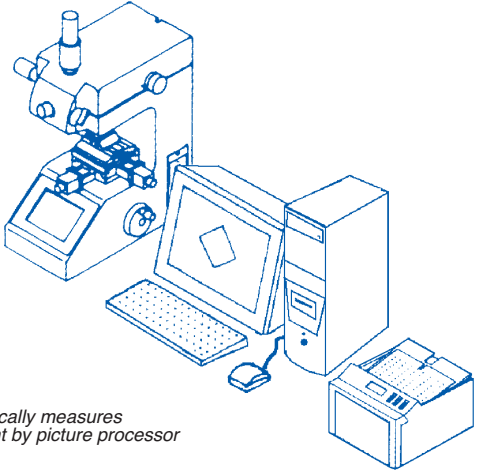


Knoop indenter <i>Effectively measures thin material</i> 	Camera sleeve <i>Adapter for a camera</i> 	Photographic device <i>Polaroid camera: PM-10M-pola</i> 	Photographic device <i>35mm camera: PM-10M with FXx3.3 relays lens</i> 
Precision vice <i>Max. opening: 100 mm</i> 	Rotary table <i>This table is usually used on the micro test table with the precision vice</i> 		
This specimen measuring device <i>Specimen thickness: 0-5mm</i> 	Fine specimen measuring device vertical type <i>For measuring the cross section of fine specimens. Specimen diameter: 0.1-4mm</i> 	Fine specimen measuring device horizontal type <i>For measuring the cylindrical surface of fine specimens. Specimen diameter: 0.5-4mm</i> 	Specimen inclining device type II <i>Vice is not used and specimen is directly clamped. The measuring surface always shows a horizontal level and causes an extremely efficient measuring operation. Specimen height: 5-21mm</i> 
Rotary inclining device <i>Inclining device + rotary table (Special use for mounted specimen). Sample diameter: 25,31.5,37.5mm (When ordering, please specify the above size)</i> 	Universal inclining vise <i>Inclining device+vice. When the specime's surface is inclined or curved, this device is very effective to get the correct level.</i> 	V-shape anvil <i>For measuring the cylindrical surface together with the vice</i> 	
		Laser printer <i>Two functions, printing and making chart, are available. (For DM-1000PC)</i> 	Printer iDP3110 <i>From hardness tester adding up results to data output</i> 
TV measuring device  <p><i>A Tv camera may be mounted on the ocular. Enlarged indents are measured on the TV monitor and metal structures are observed easily</i></p>		Video graphic computer <i>High-resolution pictures of all information on TV monitor with excellent contrast are printed out.</i> 	Printer iDP3110 Vibration insulated stand (QUIET 21) <i>Magnetic float vibration insulated stand. Loading capacity: 25-40kg. Dimensions: W400xL500 xH110mm Weight: 10kg</i> 
Automatic X-Y stage & PC type controller DM-1000PC  <p><i>Measuring range: X&Y axis each 25mm Min. movement: 1/1000mm These devices are very effective when we indent continuously. PC controls all operations.</i></p>		Automatic micro-hardness test system DM-Auto8  <p><i>This system is automatically measures diagonal length of indent by picture processor</i></p>	

Changement of data can be effected without notice



DM-8



O.M.A.G.®
Via M. Tagliaferro, 8
I-21056 INDUNO OLONA
CEE - VARESE - ITALIA
Tel. +39 0332 200546
Fax +39 0332 203621
E-Mail info@affri.com
www.affri.com

Headquarter:
AFFRI
Via M. Tagliaferro, 8
I-21056 INDUNO OLONA
CEE - VARESE - ITALIA
Tel. +39 0332 201533 - Fax +39 0332 203621
E-Mail info@affri.com
www.affri.com

Nord Europe: Sales & Service
AFFRI BENELUX
613/B39 Leuvensesteenweg
B-1930 ZAVENTEM
Tel. ++32 2 7576520
Fax ++32 2 7599073
E-Mail affri@skynet.be
www.affri.com

04_01-DM 8

**MOTORIZED
DIGITAL
MICROHARDNESS
TESTER**

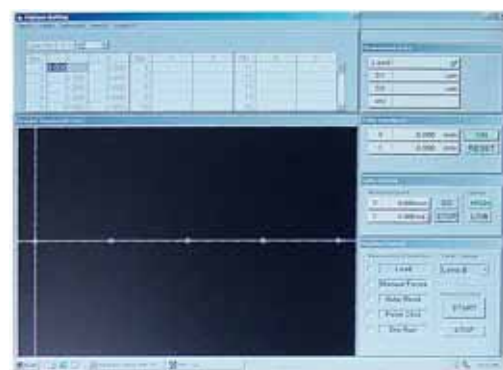
DIGITAL MICROHARDNESS TESTER SERIES



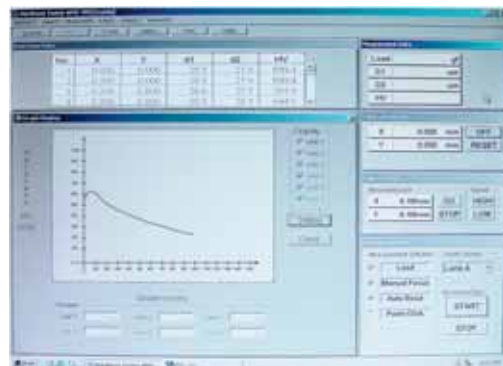
X-Y table 100 x 100 mm 0,01 mm division for easy research of test surface or Zig-Zag tests.
AS OPTIONS: 2 Digital micrometers



Motorized X-Y table connected with CNC computer for automatic tests (**DM-8 Auto**)



Software auto measure



Auto turret: an intelligent and motorized turret avoid operator to select indenter and objective. With auto-start the turret automatically select objective, indenter. At end test it return on objective position.



DM-8A
DM-8B

Light magnifications 100x and 400x high definition for easy measures till 4 objectives.

Colour tough screen very large and friendly with integrated functions. Ideal for factory and laboratory use. It indicates load force applied, Load time, D1 and D2, Hardness results, number of measures stored, average, statistic, Self conversion data. Manual instruction configuration setup utility and many friendly functions. HV and HK Knoop test can be calculated just selecting switch and applying extra Knoop indenter.

CCD flat camera transmit the image to computer and AFFRI EASYDUR® Software for fast and automatic Vickers measure eliminating human errors, saving data, perform statistic, print out results (only for DM-8 Auto).



Function	DM 8 Auto	DM 8 SEMIAUTO	DM 8 EASY
Auto measure	●	●	
Auto measure by mouse			●
Auto focus	●		
Auto X-Y	●	●	

SPECIFICATIONS

		DM-8				DM-8 Auto							
TYPE A	mN	49.03	98.07	245.2	490.3	980.7	1961	2942	4903	9807			
	(gf)	5	10	25	50	100	200	300	500	1000			
TYPE B	mN	9.807	29.42	49.03	98.07	245.2	490.3	980.7	1961	2942	4903	9807	19614
	(gf)	1	3	5	10	25	50	100	200	300	500	1000	2000
	Loading mechanism		Automatic loading and releasing method										
	Load applying speed		50 μm/sec										
Dwell time		5~99 sec											
Measuring microscope	Max. measuring length	250 μm				CCD camera, computer and software							
	Min. graduation	0.01 μm											
	Min. measuring unit	0.01 μm											
Auto-turret (6 positions)		Yes: 2 indenters, 4 objectives											
LCD type touch panel		Yes											
256 data memory		Yes											
Hardness conversion		Possible in compliance with ASTM (E-140), JIS											
OK/NG criteria		Yes											
Data editing		Yes											
Loads		12 steeps											
Max. height of specimen		120 mm											
Max. depth of specimen		160 mm											
Data output		Centronics.....Standard RS232C or Serial output selectable.. Factory setting: RS232C											
Accuracy		According to JIS B 7734 and ASTM E-384											
Photographic device		Possible to mount at anytime (camera sleeve:option)											
Dimensions and Weight		Main body only: W220xD400xH500 - 28kg											
Power supply		Single phase AC100~240V 50/60Hz available											

STANDARD ACCESSORIES

	DM-8	DM-8 Auto
Manual X-Y stage (Built in)	1	1
Precision vice	1	1
Standard test block (HMV700)	1	1
Diamond indenter for HV (Built in)	1	1
Measuring microscope (with x10 Eyepiece) Electronic type	1	-
Object lens (Built in)	x10	1
	x40	1
Level adjusting leg	4	4
Light source bulb (12V 18W)	2	2
Fuse	100~240V 2A	2
	200~240V 2A	2
Power cord (3P-2.5m)	1	1
Auxiliary tools	1 set	1 set
Instruction manual	1	1
Accessories box	1	1

OPTIONS

	DM-8	DM-8 Auto
Objective 60x	1	1
Objective 100x	1	1
Knoop indenter	1	1
Knoop test block	1	1