

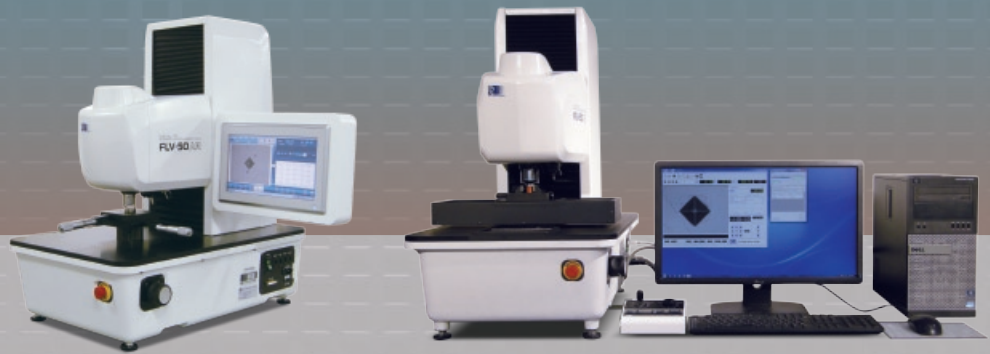
# FLV-50AR

FULL-AUTOMATIC MULTI-VICKERS HARDNESS TESTER



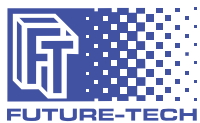
# FULL-AUTOMATIC MULTI-VICKERS HARDNESS TESTER

- A super-wide range from 50gf to 50kgf
- Auto-Focus
- Auto-Reading
- The control PC is built-in main part



ITEM		SPECIFICATIONS
MODEL		<b>FLV-50AR</b>
TEST LOAD	VICKERS	HV 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2, 3, 5, 10, 20, 30, 50 kgf
	KNOOP	HK 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2 kgf
	BRINELL	HBW 1/1, 1/2.5, 1/5, 1/10, 1/30, 2.5/6.25, 2.5/15.6, 2.5/31.25 mm/kgf
	OPTIONAL LOAD SETTING	Possible to set max 64 kinds of test load in a range of 0.05 ~ 50kgf by min 0.01kgf.
LOADING SYSTEM		0.05 ~ 50kgf Test Load : Automatic Direct Loading System with Load-Cell closed-loop feedback
LOAD-CELL TYPE		0.05 ~ 50kgf : by Double Load-Cell
FOCUSING METHODS		Automatic Operation (by integrated Auto-Reading Software) / Manual Operation (by motorized Positioning System)
TURRET ROTATION		Automatic-Motorized (by integrated Auto-Reading Software)
MEASUREMENT OF INDENTATION		Automatic Reading / Manual Reading (by integrated Auto-Reading Software)
LOAD APPLYING SPEED		Initial Descending Speed (to 0.15mm level on specimen surface) : Approx. 180µm/s Effective Loading Speed : Approx. 30µm/s for under 1kgf Test Load and Approx. 80µm/s for over 1kgf Test Load
DWELL TIME		5 ~ 99sec
INDENTER		For Vickers Test (HV) : 1 pc For Knoop Test (HK) and Brinell Test (HBW) : Tungsten Ball $\phi$ 1mm, $\phi$ 2.5mm (OPTION)
OBJECTIVE LENS		Infinity Corrected Long Working Distance (LWD) Lens 2pcs : X10 & X50 Infinity Corrected LWD Lenses / Max. 4pcs : X2.5, X5, X20, X40 or X100 (OPTION)
TOTAL MAGNIFICATION		X100 & X500 X25, X50, X200, X400 or X1000 (OPTION)
INDENTATION MEASUREMENT SYSTEM	CAMERA	Automatic measurement by Built-in Type 1.3 mpixel CMOS Camera
	2th CAMERA	Built-in Type Overview Camera with macro lens to capture the whole image of specimen surface : 1.3 mpixel / Capture Area: 60 x 50mm / Min. Resolution: 48µm (OPTION for ARS9000)
SYSTEM CONTROL	CONTROL PANEL	LCD Touch Panel Computer (on side bracket support) / Display Size : 11.6" W258.13 x H146mm
	OUTPUT SIGNAL	USB (RS232C Converter : built-in)
	DIMENSIONS	110 x 110 mm
	MAX. MOVEMENT	Manual (X)50 x (Y)50mm Automatic X-Y Stage MAX. MOVEMENT : (X)50 x (Y)50mm / (X)150 x (Y)80mm / (X)200 x (Y)100mm (OPTION for ARS9000)
MAX. HEIGHT OF SPECIMEN		250 mm (in case without X-Y stage)
MAX. DEPTH OF SPECIMEN		180 mm
LIGHT SOURCE	BULB	LED Illumination
	FILTER	Manual Adapting /Removing
	APERTURE DIAPHRAGM	Flexible Type Aperture (OPTION)
ACCURACY		For Vickers Test : Conforming to JIS B-7725, JIS B-7734, ASTM E-384 and ISO/DIS6507-2
SAFETY DEVICE		Protection Cover on Turret for Indenter & Each Objective Lens
DIMENSIONS		H 800 x W 455 x D 740mm
WEIGHT		Approx 110kg
POWER SUPPLY		1P AC100 ~ 115V / AC240V (50/60Hz) : Selectable by SW

※ FLV-ARS9000 is full automatic system in combination with ARS9000



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