

# OPTIONAL ACCESSORIES

CODE No.	ITEM	DESCRIPTION
M-014	KNOOP INDENTER ⑤	Rhombic diamond indenter for Knoop hardness
M-063	BRINELL TEST TUNGSTEN CARBIDE BALL INDENTER ⑥	φ 1mm
M-039	HARDNESS CALCULATION TABLE	FOR HV Standard for FM-100 Series and optional for FM-300 and FM-800 Series
M-040		FOR HK Optional for all models
M-015	OBJECT LENS ③	× 100
M-016		× 40
M-017		× 20
M-019		× 5
M-062	EYEPIECE ④	× 15
M-022	COLOR FILTER ②	φ20 mm : Yellow & Blue (Standard : Green)
M-023	COLOR TEMPERATURE CONVERSION FILTER ②	For color TV measuring device
M-024	APERTURE DIAPHRAGM	φ1~6 mm each selectable (6 kinds)
M-025	FIELD APERTURE	φ1~7 mm each selectable (7 kinds)
M-054	CAMERA MOUNTING TUBE ①	For adapting photographic camera & CCD camera
M-012	DIGITAL CAMERA ATTACHMENT ②	C MOUNT ATTACHMENT (Digital camera is not included)
M-008	TV MEASURING DEVICE	Black & White B & W CCD camera + 8.4" LCD
M-009		Color Color CCD camera + 14" CRT Monitor
M-003	AUTOMATIC READING SYSTEM <AR90> ⑩	After focusing, tow diagonal lengths of indent shall be measured and displayed automatically in a moment. Measurement time : Approx. 0.3 sec / 1 indent Components : CCD camera (B & W) + PC + Printer + AR Software
M-002	AUTOMATIC X-Y STAGE & CONTROL UNIT <AS90> ⑪	Automatic X-Y stage : Max. movement : 50mm Min. micro inching : 1μm Dimensions : 110 x 110 mm Components : Auto-stage + Motor drive unit + PC + Printer + AS Software
M-000	SEMI-AUTOMATIC MEASURING SYSTEM WITH AUTO-STAGE <ASV90> ⑫	The combined system of AS and CCD camera. Operator can measure the indentation manually on the CRT by using two measuring lines. Components : Auto-stage + Motor drive unit + CCD camera (B & W) + PC + Printer + ASV Software
M-001	AUTOMATIC MEASURING SYSTEM WITH AUTO-STAGE <ARS900> ⑬	The combined system of AR and AS Components : Auto-stage + Motor drive unit + CCD camera (B & W) + PC + Printer + ARS Software
M-028	PRECISION VISE ⑭	Max. opening : 100mm
M-029	ROTARY TABLE ⑮	Graduation of rotary angle : 5 degree Table diameter : φ128mm
M-030	THIN SPECIMEN MEASURING DEVICE ⑯	Specimen thickness : 5 mm max.
M-031	FINE SPECIMEN MEASURING DEVICE	VERTICAL TYPE ⑰ Specimen diameter : φ5mm max. (For measuring the cross section)
M-032		HORIZONTAL TYPE ⑱ Specimen diameter : φ5mm max. (For measuring the cylindrical surface)
M-033	SPECIMEN INCLINING DEVICE ⑲	Specimen height : 5 ~ 20 mm (For mounted specimen)
M-034	UNIVERSAL INCLINING VISE ⑳	Inclining device + Vise Max. opening : 45mm
M-004	DIGITAL PRINTER	㉑ RS232C type (For Hardness Tester)
		㉒ Bubble Jet type (For Automatic System)
M-006	LASER PRINTER ㉓	Any models on a market (For Automatic System)
M-007	VIDEO GRAPHIC PRINTER ㉔	By SONY or MITSUBISHI (For TV measuring System)
M-043	VIBRATION INSULATION STAND ㉕	MAGMATE-FT (Magnet floating type) / AIRMATE-FT (Air & Rubber type)
M-057	MECHANICAL PARTS FOR ADDITIONAL OBJECT LENS	Mechanical parts on turret for additional third and fourth object lenses. Additional lenses should be specified when placing order. Possible to install additional lenses only in our factory.
M-065	DUAL INDENTER TURRET (For Series FM-800 Series) ㉖	Specially designed turret could be available for adapting two indenters (HV + HK) simultaneously. Impossible to change a Single Indenter Turret to Dual Indenter Turret at customer's site. Please indicate when ordering.