TRUSTEAM







INDEX - Measuring Tools

(A) 3D TASTER



(B) TOUCH POINT SENSOR
OPTICAL EDGE FINDER
MECHANICAL EDGE FINDER
CERAMIC EDGE FINDER

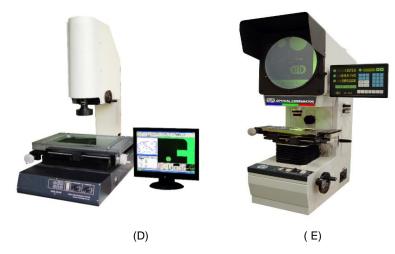


(C) DIGITAL READOUTS & SCALES





(D) Video Measuring Machine



(E) Digital Optical Comparator

Measuring Tools

(A) 3D TASTER

Item No.	Product Description	Product Image
1	UNIVERSAL 3D-TASTER INCLUDING CLAMPING SHANK Ø20MM SHORT PROBE TIP ACCURACY: 0.01MM LENGTH WITHOUT CLAMPING SHANK: 113MM RECOMMENDED HAIMER TOOL HOLDERS	65 mm 82 20 mm 93 mm 94 probe tips 84 long 97.5 mm 97.5 mm 97.5 mm 97.5 mm 97.5 mm 97.5 mm
	OPTIONAL ACCESSORIES A. SHORT PROBE TIP 4MM, SHORT 25MM	
	B. LONG PROBE TIP 8MM, LONG 65MM	

Measuring Tools TOUCH POINT SENSOR (OPTICAL EDGE FINDER)

(B)	TOUCH POINT SENSOR (OPTICAL EDGE FINDER)	
Item No.	Product Description	Product Image
2	TOUCH POINT SENSOR (OPTICAL EDGE FINDER) MODEL: SOE-20LB	Not necessary to rotate while measuring. Quickly locate work edges. Save time to find positions, for milling machine, jig borers, and other machine tools.
3	TOUCH POINT SENSOR (OPTICAL EDGE FINDER) MODEL: SOE-20S	Accuracy 0.005mm IS A HIGH SENSIBLE POSITION MEASURING Uses dry batteries to light the red lamp. The scope of application includes edge suface inside
4	TOUCH POINT SENSOR (OPTICAL EDGE FINDER) MODEL: SOE-32L	SOE-32LB SOE-32L SOE-20LB SOE-20L SOE-20S and outside diameters and high efficiency. There is a safety spring puller which puts the ball precisely back to the positing when ball breaks away from ball seat.
5	TOUCH POINT SENSOR (OPTICAL EDGE FINDER) MODEL: SOE-32LB	Battery type: Um5#, 1.5V x 2pcs (SOE-20L, 32L) Um5#, 23A x 12V x 1pcs (SOE-20S, 32 / 20LB)
6	MECHANICAL EDGE FINDER MODEL : SME-1020 MATERIAL : STEEL CR-MO, ALLOY STEEL HRC: 58°	TZOSP-3MZ OJ-NT OSP-3MZ
7	MECHANICAL EDGE FINDER MODEL : SME-420 MATERIAL : STEEL CR-MO, ALLOY STEEL HRC: 58 °	
8	MECHANICAL EDGE FINDER MODEL : SME-610 MATERIAL : STEEL CR-MO, ALLOY STEEL HRC: 58 °	TZCSOL-3MZ OTH-AID CMC-3MZ OSOT-3MZ
9	MECHANICAL EDGE FINDER MODEL : SME-420ST MATERIAL : STAINLESS STEELHRC: 60°	FEATURES 1. Ø10mm straight shank can be installed directly on milling chuck or drilling chuck. (refer to Fig.1). 2. Press slightly on edge of sensor unit with hands to keep eccentricity at 0.5mm
10	MECHANICAL EDGE FINDER MODEL : SME-1020ST MATERIAL : STAINLESS STEEL HRC: 60 °	(refer to Fig. 2). 3. Rotate with speed of 400-600 rpm. 4. Make sensor unit contact to the end face of workpiece shown as Fig. 2. Then, contact and move gradually, it is going to turn into Fig. 3 and sensor unit keeps still. Furthermore, if fine feed is started, then sensor unit will move according to a specific direction. The start point of this movement is the basis position to look for.
11	MECHANICAL EDGE FINDER MODEL : TN-10 MATERIAL : COATED SURFACE WITH NONMAGNETIC CHARACTERISTIC, THE HARDNESS IS HV 2500°	The position of end face of the workpiece is the coordinate position of sensor unit plus radius 5mm.
12	MECHANICAL EDGE FINDER MODEL : TN-410 MATERIAL : COATED SURFACE WITH NONMAGNETIC CHARACTERISTIC, THE HARDNESS IS HV 2500°	
13	CERAMIC EDGE FINDER MODEL: MEP-10 (WHITE) MATERIAL IS NONMAGNETIC CHARACTERISTIC, AND THE FRONT TIP WHOLLY MADE OF CERAMIC	CER-10 (ACCURACY):±0.002 MEP-10 MEP-1020 MEP-1020 MEP-420

Measuring Tools Digital Readout & Scales

(C)	Digital Readout & Scales
Item No.	Product Description
1	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0050(5 μ)
2	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0100(5 μ)
3	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0150(5 μ)
4	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0200(5 μ)
5	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0250(5 μ)
6	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0300(5 μ)
7	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0350(5 μ)
8	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0400(5 μ)
9	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0450(5 μ)
10	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0500(5 μ)
11	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0600(5 μ)
12	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0700(5 μ)
13	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0800(5 μ)
14	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-0900(5 μ)
15	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-1000(5 μ)
16	Sealed Standard Type Linear Scale (LE series) Sealed Slim Type Linear Scale (LS series) MODEL : LS/E-1100(5 μ)
17	Sealed Standard Type Linear Scale (LE series) MODEL : LE-1200(5μ) -LE3000
18	SW-4000-2 TWO-AXIS DIGITAL READOUT
19	SW-4000-3 THREE-AXIS DIGITAL READOUT
_	



Product Image



Measuring Tools

(D) Video Measuring Machine

Item No.	Product Description	Product Image

Manual Type Video Measuring Machine

■ VMM-S/D Series Specifications :

Model	VMM-2010S/D	VMM-3020S/D	VMM-4030S/D	
Stage Size (mm)	404 × 228	500 × 330	606 × 466	
Glass Size (mm)	260 × 160	350 × 250	450 × 350	
X/Y Travel (mm)	200 × 100	300 × 200	400 × 300	
Weight (kg)	110	140	240	
Dimensions (mm)	540 × 560 × 860	760 × 600 × 900	970 × 670 × 940	
Z axis travel (mm) 200 mm Z working range (mm) VMM-S series: 92 mm VMM-D series: 105 mm				
			105 mm	
Accuracy	(3 + L/75)µm; L: measuring length (mm)			
Digital Display				
Measuring Software				
Video System	VMM-D series			
	CCD Camera:Colour 1/3" CCD Camera Zoom Lens: Magnification of field lens 0.7X, 1X, 2X, 3X, 4X, 4.5X Total Magnifications 33X-195X Object View 8.1mm-1.3mm			
Lightening System	Adjustable LED Surface and Transmission illumination			
Power Supply	Power Supply AC220V/110V 50/60 Hz			

Function-enhanced options as below , please refer to accessories of video measuring machine.

- Standard Zoom Lens Option
- Precision Zoom Lens Option
- Touch Probe Option

Features:

- 1. High accuracy with fixed working table and granite pedestal:
- 2. RS-232 interface can do communication between measuring software and computer.
- 3. High resolution 1/3" color CCD camera and NAVITAR zoom lens with sharp images;
- 4. The user can manage and output the graphs as bmp or DXF (AutoCad) format by connecting with PC and running the program.
- 5. One-click edge detection.



DARLING MACHINE TOOLS CO., LTD.

Measuring Tools

(E) Digital Optical Comparator

No.		Product Description			Product Image		
1	PV-3000 serie PV-3000E seri	s (Reverse es (Erect in	0 <i>1</i>				
		Model		PV-3010(E)		PV-3015(E)	
		Stage size (mm)		306 x 152		340 x 152	
		Glass table size (mm)		175 x 100		196 x 96	
		X-axis travel (mm)		100		150	
		Y-axis travel (mm)		50		50	
		Z-axis travel (mm)		90 (for focusing)		90 (for focusing)	
	-	Measuring accuracy (µm)		3.0 + L/50 L: measuring length (mm)		4.0 + L/25 L: measuring length (mm)	
		Resolution (X/Y-axis)		0.5 µm			
			Size (mm)		12" (Ø312) , usab	ole range > Ø300	
		ojector creen	Rotation range	0 ~ 360°			
	Screen	CICCII	Angle resolution	1' or 0.01°			
		Objective Lens	Magnification	10X(Standard)	20X(Opt.)	50X(Opt.)	100X(Opt.)
	0.5		Object view (mm)	Ø30	Ø15	Ø6	Ø3
			Working Dist. (mm)	77.7	44.3	38.4	25.3
			Max. work-piece height (mm)	80	80	80	80
DC-3000 multi-function data processing system : Coordinate skew, mm/inch conversion, ABS/INC conversion Setting 1/2 calculation 0° 90° 270° 360° conversion linear of					in the second se		

setting, $\frac{1}{2}$ calculation, 0° 90° 270° 360° conversion, linear compensation,

Rotary table, swivel center support, edge detector and so on, please refer to accessories of optical comparator for more detail.

Transmission and reflection light source : 24V/150W-halogen lamp

110V/220V(AC), 50/60Hz, 400W total power

Forced air cooling

770 x 550 x 1100

125

■ Vertical Standard Type Digital Optical Comparator PV-3000 series (Reverse image) PV-3000E series (Erect image)

RS-232 data output

770 x 550 x 1100

120

Features:

Illumination

Power
Light source cooling

Instruments dimension (mm)

Weight (kg)

Option

- Excellent optical measuring system to project precisely magnified image.
- 2. Accuracy of the contour measuring is under 0.08%.
- 3. Equipped with Mini-printer and DC-3000 data processing system and foot-switch for measuring.
- 4. Erect image measuring for different requirements.



770 x 550 x 1100

130



TRUSTEAM

Darling Machine Tools Co., Ltd.

Add: No.18, Ln.35, Wuguang Rd., Wuri Dist., Taichung City 41470, Taiwan

TEL: +886 4 2337 6697 **FAX:** +886 4 2256 9203

e-mail: sales@trusteam.com.tw

skype: trust.team

http://www.trusteam.com.tw

