

VARDHAN SPM07 S

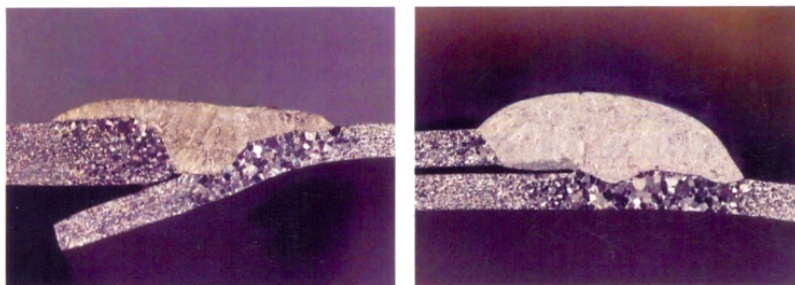
MEASURE WELD PENETRATION DEPTH



**Microscope SPM07 S** is specially designed to view & measure the weld penetration depth in welded samples by software . The test sample is mounted using cold setting resin. The surface is polished using polish papers of different grades & then with a disc polishing machine using either diamond paste or lavigated alumina powder to get scratch free mirror finish. The specimen is then etched electrolytically using an electrolytic polisher or with a chemical reagent.

**Measure by software** - Microscope SPM07 S is interfaced with your computer & the images can be viewed & saved on the computer hard disk. A user friendly software then measures the weld penetration depth & generates report which can be printed on line or stored for record . Oblique light Illumination (from side) is provided by a high power LED. The SPM07 S stand & LED Lamp has adjustments for focusing as well as correct aligning of the sample surface with respect to the microscope optical axis.

**Vardhan Microscopes** are always very rugged & designed to work on the shop floor itself & are backed by easy availability of spares & an efficient after sales service network.



Dealers For: **VARDHAN WORKS PVT. LTD.**



A-4 Woodland Society, Welasly Road, Behind Nabard,  
Shivajinagar, Pune, Maharashtra, India, Pin Code : 411005

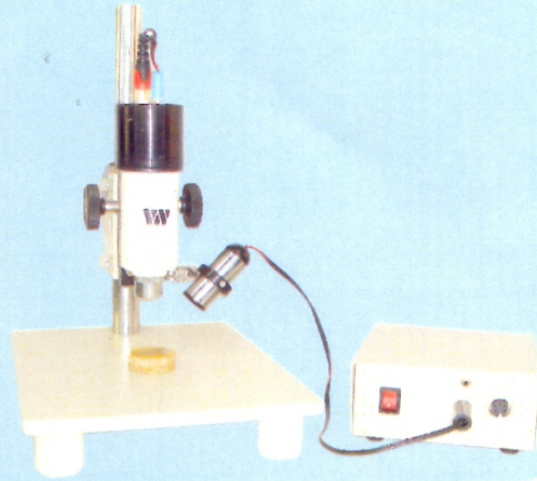
Phone : +91-020-65285508, Mobile : +91 9823076590, Email ID : vidyeshme@gmail.com

# VARDHAN SPM07 S

# MEASURE WELD PENETRATION DEPTH

## Technical Specification

<b>Base</b>	Plate type Size 200 x 250 (L X B)
<b>Vert Column</b>	Dia. 25 mm L 450 mm
<b>Bracket</b>	Can be moved up & down
<b>Camera</b>	Up & down by Rack & Penion
<b>Alignment</b>	Horizontal distance adjustment For centering roller center with Optical axis of the Microscope
<b>Illumination</b>	From Side by one high power LED
<b>Power Supply</b>	Input 220 V A/C Output 12.0 V DC for Camera 4.5 V,DC for LED
<b>Magnification</b>	System Magnification 15 x
<b>Size</b>	200 x 250 x 450 (L x B x H) mm
<b>Net Weight</b>	5 Kg



## Computer interface attachment

- Converts optical image from the Microscope & sends it to the computer. Images with outstanding clarity can be seen on the computer monitor & also be saved for record. In absence of a computer images can be seen on a TV.
- The camera with its opto mechanical coupler acts as an eyepiece with microscope.
- Computer interface attachment consists of CCD Camera, microscope to camera opto mech. coupler, Frame grabber card ( fits into computer PCI slot), Camera power & video out cord & regulated power supply for camera.

## Following Material is to be provided by you

- Computer 2.6 GZ ,1GB RAM , 100GB HDD, CD ROM Drive with Windows XP & Printer HP PSC 1410 or equivalent.

## Measuring Software

- User Friendly
- Calibration Facility
- Measurement of Distance, Angle, Circle properties (Radius), Straightness, Parallelism, Perpendicularity
- Full Fledge Help Facility
- SPC (statistical process control), Cause effect Pareto Analysis, X Chart, R Chart, X Bar Chart, Histogram, Cause effect chart, Process statistics & SPC Help
- Cross hair tool, Rectangle tool, Circle & double line tool
- Line width, type & color change, Annotation & Edit Mode
- DRO function, Cartesian / polar Coordinates
- Rotatable Image & also Rotatable Coordinates
- Report Generation & Printing
- Original Licensed Software

## Camera Specifications

CCD Camera	AVC 550 Japan or Equivalent
Pick up element	1/3" CCD Image sensor
Number of pixel	512(H)x582(V) PAL
Resolution	640 TV lines
Min.Illumination	5 Lux/F2.0
S/N Ratio	More than 45db (AGC off)
Electronic shutter	1/60(1/50) to 1/100000 auto
BLC function	Auto detect
White balance	Auto
Video balance	1 Vpp, 750
Power source	DC 12V
Current consumption	150 ma



\* Due to Continuous R & D, Specifications are subject to change without notice.

Dealers For: VARDHAN WORKS PVT. LTD.



A-4 Woodland Society, Welasilly Road, Behind Nabard,  
Shivajinagar, Pune, Maharashtra, India, Pin Code : 411005

Phone : +91-020-65285508, Mobile : +91 9823076590, Email ID : vidyeshme@gmail.com