we leave
a mark.

semket ®

Labelling systems

SPM 4

Defect Marking

automatic positioning, printing and applying of labels

Reliable, accurate, 365 days a year

SPM 4 - Defect Marking

Characteristics

▶ Solid mechanical construction.

▶ Label dispensing independent from webspeed. Reliable labelling also at high speed of operation.

▶ Thermotransfer printhead with 300dpi resolution.

▶ Batch size 1 - Last printed label will be applyed.

▶ Webedge detection and positioning.

▶ Warning end of labels / ribbon.

semket-Software

▶ SPLC with touch panel.

▶ Software is controlled via touch panel. The state of the machine is also displayed.

▶ A manual dispense process and manual positioning can be started via touch panel.

▶ Communication with the superior controller (PLC) respectively with the fault detection system is realized via potential-free in / outputs.

Options

▶ Adaption of the semket-software is possible to your requirements.

▶ Connecting to Profibus, CAN-bus, EtherCAT, TCP/IP, etc. is possible.

Technical data - SPM 4

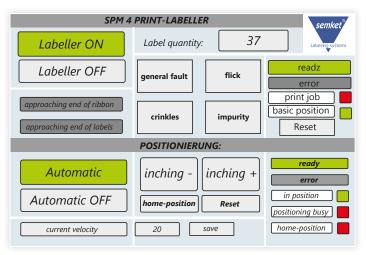|	
Admission width	up to 116 mm
Label length	min. 30 mm
Label roll	max. 200 mm external diameter
Dimensions	approx. 400 x 400 x 600 mm
Response time / cycle time	approx. 2,0 sec. / 2,5 sec.
Profile length / positioning range	up to 4000 mm / 1200 mm
Positioning speed	up to 30 mm/sek.

Technical data - Control

Weight	approx. 25 Kg
Type	SPS with touch panel 5,7"
Voltage	230V / 50Hz
Electrical supply	max. 6 A
Power input	approx. 1500 W
Protection type	IP 54
Case	Stealsheet - cubicle (Rittal)
Dimension	approx. 380 x 380 x 200 mm

Right of technical modification at any time reserved.

Defect Marking System SPM 4

The SPM 4 - system is designed especially for the fully automatic printing and applying applications in the industrial area. The system can be installed in all different positions.

Characters, barcodes and grafics are printed out with a high-class printing head in a fast and brilliant manner.

Labels are printed and despensed by means of a high accuracy.

semket provides high quality and efficient service.

Labels and ribbons in all different dimensions and materials can be provided.

Please send us your enquiry.

Technical Data

Printing principle
Thermal / Thermal Transfer

Print head version	Thin film
Printhead resolution	300 dpi
Printing speed	75 - 250 mm/sec.
Printing width	105,6 mm

Character Fonts
5 bitmap fonts incl. OCR-A, OCR-B, 3 vector fonts available internal, upload of speedo and true-type fonts are possible.

Character sets
Windows 1250 bis 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBCDIC 500, ISO 8859-1 bis -10 u. -13 bis -16, WinOEM 720, UTF-8 Macintosh Roman DEC MCS, K018-R, European and latin special characters are available, euro sign capable.

Character size
Vector fonts: Width can be scaled up stepless between 0.9 and 128 mm

Bitmap fonts: Height and width 1 - 3 mm can be scaled from factor 2 - 10.

Character format
Fat, in italics, underline, outline, invers, grey, vertical depending on the different fonts.

Print directions
Bitmap fonts and barcodes: 0°, 90°, 180°, 270 Speedo and Truetype fonts can be turned 360° in steps from 1°. Labels can be printed mirror-inverted.

Grafic elements
Line, arrows, box, circle, ellipse, filling elements

Grafic format
PCX, IMG, BMP, TIF, MAC, GIF, PNG

Barcodes

CODE 39, CODE 93	Interleaved 2/5
CODE 128 A, B, C	Ident- and leadcode
Codabar	of Deutschen Post AG
EAN 8, 13,128	JAN 8, 13
EAN/UCC 128	MSI
EAN/UPC Anhang 2	Plessey
EAN/UPC Anhang 5	Postnet
FIM	UPC A, E
HIBC	UPS Maxicode

2-D Barcodes: QRCode, Aztec, Data Matrix, PDF 417, UPS Maxicode Height, width and ratio of all barcodes can be scaled up. If necessary all barcodes can be printed with checksum or start/stop code.

Interfaces

Serial 8-bit:	RS-232 bis 115.200
	Ethernet

Testing facilities
When switching on the system the controller runs a self-test of memory and print head. Error messages are printed out indicated on the display.

Process materials / Labels
Thermo paper, standard paper, Syntethic foil of: PE, PP, PVC, PA, HTR, Capton, Polyimide

Ribbon

Length:	450 m
Width:	25 - 114 mm
Core diameter	25 mm
Outer diameter of roll	up to 80 mm
Ink inside or outside	

Label retreat
To make sure that the print is starting in a defined distance from the front edge of the label, it is possible to pull the next label back after an executed printing job and to restart automatically positioning. To avoid any damage of the ribbon and abrasion between label and ribbon the printing head is lifted up while moving.

Internal rewinder
For winding up the liner after dispensing the labels.

Diameter of roll:	up to 150 mm

Control of labels and ribbon
End of ribbon, end of labels/endless media and the position of the printing head is controlled continiously. Any error stops the machine and is indicated on the display.

Label sensor
The positioning is made by evaluation of reflection or transparence of the label/liner material.

Further features
Time and date can be generated by the CPUclock and can be printed out. The actual printing job is indicated on the display.

Navigator Pad
5 keys with LED and illuminated LCD with 2x16 characters. All reports can be indicated in 34 different languages.

Dimensions	H x W x D
	400 x 400 x 600 mm
Weight SPM4	25 kg

Power supply
230 V/115 V ~ switchable/50 – 60 Hz

Operation temperature
The printer operates in a range of temperature between 10 – 35°C and a humidity between 30 – 85%

Safety regulations	CE, FCC

Options

Speicherkarten
Compact Flash

Etikettierer
Fragen Sie bei uns an, unser Produktspezialist berät Sie gerne.

Sensoren
Vorwarnsensor Etikettenende
Vorwarnsensor Transferfolienende

semket ®

Labelling systems

we leave a mark.

Labelling Systems

a complete range from labels to industrial labelling systems

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