# The Bridge to Lineprinter
## « Fast and Efficient »

*bridge to the*

PSi Matrix
PRINTER

LINE
PRINTER

- Ruggedized heavy duty 24-wire dot matrix printer

- Max. Performance:
  - 920 characters per second
  - up to 565 lines per minute
  - up to 830 pages per hour

- Plug & Print:
  2 Plug-in tractor cassettes for easy paper loading for multiple job handling

- Flatbed technology for reliable and straight paper transport

- Automatic Gap Control (AGC)

- 1 + 5 excellent copies

- 14 fonts including Box Characters; 13 barcodes

- Uni- and bidirectionalprinting

- Long life ribbon up to 30 million characters

- Optional Silent-Kit for additional noise reduction of ~75%

- Integrated cutter in the Model PP 408 LPM

- Typical print volume 40.000 pages per month

The already well established models in the market for years as PSi PP 407 and PSi PP 408 with the integrated cutting function served as a basis for the performance tuning. The result is: the two new models PP 407 LPM and PP 408 LPM. Thanks tuning the PSi LPM printing models get now to a printing speed up to 470 lines per minute at a line length of 60 characters. PSi Matrix not only closed the gap to the line printers but even surpasses them in speed in certain applications.

The demand for matrix printers with even higher print speed comes first of all from the areas **transport logistics** where loading lists and accompanying documents have to be printed as fast as possible, so that no waiting times arise for the drivers, and furthermore in **automotive industry** where printouts have to run synchronously in time with predetermined cycle times on assembly lines.

A further highlight of the PSi PP 408 LMP printer is the integrated cutting function which allows to separate print jobs or to cut each page to optimize post-processing as best as possible.

PSi Matrix

## TECHNICAL DATA

### Printer Specification

**Technology**: serial impact dot matrix

**Printhead**: 24 wires, 0.25 mm (0.01 inch) needle diameter; life time 400 million characters

**Print mode**: Data (DQ), Near Letter (NLQ) and Letter Quality (LQ)

**Print format**: 136 characters at 10 cpi

**Ribbon**: XXL nylon ribbon cassette, black (up to 30 million characters)

**Dimensions**: 740 x 370 x 325 mm (WxDxH) (29.6 x 14.8 x 13 inches)

**Weight**: ~ 28.5 kg (62 lb)

**Diagnostics**: s elftest, hexdump, remote diagnostics via interface

**Operator Panel**: 16 digit LCD display, trilingual (German, English, French)

**Rated voltage**: 200-240 V, 50-60 Hz (optionally 100-125 V, 50-60 Hz)

**Power input**: 120 W, 20 W standby

**Environmental temperature**: operating: +10 to +35 °C (+50 to +95°F) 20 to 80% rel. humidity
storage: - 40 to +70 °C (-40 to +158°F) 5 to 85% rel. humidity

**Noise level**: 55 dB(A) acc. to ISO 7779

**Agency approvals**: VDE/GS, UL, C-UL, CE, FCC-B

### Performance

**Print speed**: Acceleration = 6g, NFQ = 2400 Hz with HSD 92.0 ips

(at 10 cpi)

| mode cps: | | mode lpm: | |
|---|---|---|---|
| HSD: | 920 | HSD: 40 characters per line | 565 |
| DRAFT: | 767 | HSD: 60 characters per line | 467 |
| NLQ: | 383 | HSD: 80 characters per line | 404 |
| LQ: | 192 | | |

**Throughput**: 

(ECMA 132, letter, 1-ply) fanfold (at 10 cpi)

| mode: | |
|---|---|
| HSD: | 830 pages per hour |
| DRAFT: | 795 pages per hour |
| NLQ: | 560 pages per hour |
| LQ: | 320 pages per hour |

**Duty cycle**: typical 40.000 pages per month

**MTBF**: 10.000 hours at 30% load

### Paper Handling

**Paper paths**: flatbed technology, 2 inputs for fanfold paper, 1 output for fanfold paper, paper path selectable via software or operator panel

**Paper input**: two independent, easy to plug-in tractor cassettes for fanfold paper; push tractor with park position

**Paper output**: PP 407: to the rear with zero tear-off
PP 408: (integrated cutter) cutted sections to the top and contininous or cutted sections to the rear, formsets up to 350 g/ m² (14 oz/ m²),
60 to 90 g/m² (2.4 to 3.6 oz/ m²) per sheet; single-layer up to 240 g/m²

**Paper weight**:

**Paper width**: 4 to 16 inch (100 to 400 mm)

**Form feed speed**: 20 inch/second; 25 ms per line feed

**Automatic GAP Control (AGC)**: optimizes automatically the distance between print head and paper according to paper thickness

**Paper run control**: allows unattended printer operation

**Copies**: 1 original + 5 copies, maximum paper thickness 0.5 mm (0.02 inch)

### Connectivity

**PERSONALITY MODULE SER/PAR/USB**

**Interfaces**: parallel IEEE 1284, serial RS-232 (DSUB 9), USB 2.0

**Emulations**: IBM Proprinter XL24 (AGM), Epson LQ 2550/1060, ESC/P2

**Buffer**: selectable up to 176 KByte

**Character sets**: ISO 8859/1, ISO 8859/9, 8859/15; IBM Set 1/Set 2 in 14 national versions; IBM Code Pages 437, 850, 852, 857, 858, 860, 863, 865; Epson Ext. Char. Set in 15 national versions; Eastern European character sets 771, 773, 774, 775, 1125, 1251; Baltic RiM, Greek, CZ, HUN, Russia, Win Lat 2

**Fonts**: Draft quality: Data and Data Large; Near letter and letter quality: Courier, OCR-A, OCR-B, Orator, Prestige, Roman, Script, Sans serif

**Character attributes**: bold, italic, shadow, outline, double strike, underline, double underline, overline, strike through, sub/superscript, double to octuple, for Data Large 99-fold size

**Pitches**: 10, 12, 15, 17.1, 18 and 20 cpi, proportional

**Line spacing**: 2, 3, 4, 6, 8, ... 360 lpi

**Barcode**: EAN 8, EAN 13, UPC-A, UPC-E, Postnet, KIX Code, Code 39, Code 93, Code 128 (incl. EAN 128), Codabar, 2 of 5 industrial, 2 of 5 interleaved, and MSI Mod 10/10 (horizontal or vertical)

**Graphics**: 360 x 360 dpi max. (uni-/ bidirectional)

**Macros**: parameter settings for up to four individual printer configurations, selectable via software or operator panel

**PERSONALITY MODULES**

**Emulations / Interface**

**IBM/Epson**: Serial/Parallel/USB or Serial/Ethernet/USB

**IPDS**: Ethernet

**IBM-IGP 10/20/40**: Parallel or Ethernet

**HP 2934/2235**: Serial/Parallel/USB or Serial/Ethernet/USB

**Genicom**: Serial/Parallel/USB or Serial/Ethernet/USB

**Stringchange**: Parallel or Ethernet

Printer drivers for Windows and SAP R/3 device types are available for download at http://www.psi-matrix.eu

### Options

**Tractor Cassette**: Additional tractor cassettes for quick exchange of loaded media.

**Printer Stand**: Dimensions: 635 x 660 x 840 mm (WxDxH), weight: approx. 25 kg (55 lb)

**Stacker Option**: System to be integrated into the stand for orderly stacking of fanfold paper, capacity: ~ 2.000 pages

**Sound Cover**: For an optimal sound insulation in application with the Printer Stand, dimensions: 910 x 575 x 420 mm (WxDxH), weight: approx. 33 kg

**Sound Cabinet**: Replacement of Printer Stand and Sound Cover, dimensions: 900 x 715 x 1.150 mm (WxDxH), weight: approx. 80 kg

**Sound reduction kit**: To reduce the noise level by 75 %