

# PP 405

## The Professional Multi-Purpose Printer



PP 405 with printer stand and 3 ASF-Cassettes

The multifunctional 24 needle high performance printer PP 405 convinces by extreme flexible paper management and a variety of modular interfaces (Personality Modules) allowing easy integration into different system and network environments. The printer can be equipped with up to three ASF (auto sheet feeder) cassettes, one single sheet feeder and one tractors for fanfold paper. Because of its low noise emission the printer fits excellent for office and industrial environments. The robust printing device and durable cabinet design guarantees strong reliability in professional printing applications with typically print volume of up to 20.000 pages a month. In combination with PSi well-priced ribbons the PP 405 keeps the total costs of ownership (TCO) at a minimum.

- Heavy Duty  
24-wire dot matrix printer
- Flatbed design for straight and reliable paper transport
- Robust design
- Performance :  
600 cps (10 cpi)  
507 pages per hour  
20,000 pages per month
- Quiet operation:  
Noise level  $\leq 52$  dB(A)
- 5 paper inputs  
3 paper outputs
- Up to 5 excellent copies (1+5)
- Heavy duty tear bar for correct print job separation
- Automatic gap control
- Flexible paper management for fanfold paper, single sheets, heavy form sets, labels and envelopes
- Fulfills versatile application requirements as well as in business and industry
- Modular interface concept (Personality Modules) for major host systems and network environments

## TECHNICAL DATA

### Printer Specification

<b>Technology:</b>	serial impact dot matrix
<b>Printhead:</b>	24 wires, 0.25 mm (0.01 inch) needle diameter; life time 400 million characters
<b>Print mode:</b>	data (DQ), near letter (NLQ) and letter quality (LQ)
<b>Print format:</b>	136 characters at 10 cpi
<b>Ribbon:</b>	nylon ribbon cassette, black, more than 16 million characters
<b>Dimensions:</b>	635 x 390 x 273 mm (WxDxH) (25.4 x 15.6 x 10.9 inch)
<b>Weight:</b>	22.7 kg
<b>Diagnostics:</b>	selftest, hexdump, remote diagnostics via interface
<b>Operator Panel:</b>	16 digit LCD display, trilingual (German, English, French)
<b>Rated voltage:</b>	200-240 V (100-125 V opt.), 50-60 Hz
<b>Power input:</b>	120 W, 15 W Standby
<b>Environmental temperature:</b>	operating: +10 up to +35 °C (+50 to +95°F) 20 up to 80% rel. humidity storage: -40 up to +70 °C (-40 to +158°F) 5 up to 85% rel. humidity
<b>Noise level:</b>	52 dB(A) acc. to ISO 7779
<b>Agency approvals:</b>	VDE/GS, UL, C-UL, CE, FCC-B, CCC

### Performance

<b>Print speed:</b>	DQ: 600 cps at 10 cpi		
	NLQ: 300 cps at 10 cpi		
	LQ: 150 cps at 10 cpi		
<b>Throughput:</b> (ECMA 132, letter, 1 ply)	mode	fanfold	cut sheets
	DQ:	507	490
	NLQ:	398	386
	LQ:	251	248
			pages/hour
			pages/hour
			pages/hour
<b>Duty cycle:</b>	20,000 pages per month		
<b>MTBF:</b>	10,000 hours at 25% duty cycle		

### Paper Handling

<b>Paper paths:</b>	flatbed technology, up to 5 input and 3 output possibilities, selectable via software or operator panel
<b>Automatic Gap Control (AGC):</b>	optimizes automatically the distance between printhead and paper according to paper thickness
<b>Copies:</b>	1 + 5 copies, max. paper thickness 0.5 mm (0.02 inch)
<b>FANFOLD PAPER</b>	
<b>Paper input:</b>	integrated push tractor with park position
<b>Paper output:</b>	rear side, zero tear-off
<b>Paper width:</b>	4 to 16 inch (100 to 400 mm)
<b>Paper weight:</b>	60 to 90 g/m <sup>2</sup> , formsets up to 350 g/m <sup>2</sup>
<b>Form feed:</b>	11 inch/second
<b>Paper run control:</b>	for unattended printing mode
<b>CUT SHEETS</b>	
<b>Paper input:</b>	manual front insertion; automatic sheet feeders (opt.)
<b>Paper output:</b>	user selectable paper exit at the front or face down stacker at the top of the printer with a capacity of 360 sheets
<b>Paper width:</b>	4.2 to 12.2. inch ( 105 to 305 mm)
<b>Paper weight:</b>	refer to options, cassettes

### Connectivity

#### PERSONALITY MODULE SER/PAR/USB

<b>Interfaces:</b>	parallel IEEE 1284, serial RS-232C/OF, USB 2.0
<b>Emulations:</b>	IBM Proprinter XL24 (AGM), Epson LQ 2550/1060, ESC/P2, Philips GP 310/490
<b>Buffer:</b>	selectable up to 176 KByte
<b>Character sets:</b>	ISO 8859/1, ISO 8859/9, 8859/15; IBM Set 1/Set 2 in 14 national versions; IBM Code Pages 437, 850, 857, 858, 860, 863, 865; Epson Ext. Char. Set in 15 national Versionen; Eastern European character sets 771, 773, 774, 775, 852, 1125, 1251; Baltic RIM, Greek, CZ, HUN, Russia, Win Lat 2
<b>Fonts:</b>	draft quality: High Speed Draft, Data and Data Large; Near letter and letter quality: Courier, OCR-A, OCR-B, Orator, Prestige, Roman, Script, Sans script
<b>Character attributes:</b>	bold, italic, shadow, outline, double strike, underline, double underline, overline, strike through, sub/superscript, double to octuple, for Data Large 99-fold size
<b>Pitches:</b>	10, 12, 15, 17.1, 18 and 20 cpi, proportional
<b>Line spacing:</b>	2, 3, 4, 6, 8, ... 360 lpi
<b>Barcode:</b>	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
<b>Graphics:</b>	360 x 360 dpi max.
<b>Macros:</b>	parameter settings for up to four individual printer configurations, selectable via software or Operator panel

#### OTHER PERSONALITY MODULES

<b>RS-422:</b>	SER RS-422/PAR/USB
<b>Ethernet:</b>	Ethernet 10BaseT / 100BaseTX RJ45
<b>IPDS:</b>	Ethernet
<b>IGP:</b>	SER/PAR with Printronix IGP 10/20/40 emulation
<b>HP:</b>	SER/PAR or Ethernet with HP2934/2235 emulation
<b>GENICOM:</b>	SER/PAR or Ethernet with Genicom 3840 emulation
<b>Stringchange:</b>	SER/PAR or Ethernet

Printer drivers for Windows and SAP R/3 device types are available for download at <http://www.psiprinters.com>.

### Options

<b>ASF cassettes:</b>	up to three automatic sheet feeders (ASF); paper size: DIN A4 portrait and landscape, A5, A6, B5, Letter, Legal
<b>Cassette A1:</b>	cut sheets 70 to 100g/m <sup>2</sup> , formsets up to 260g/m <sup>2</sup> ; capacity: 180 sheets (80g/m <sup>2</sup> )
<b>Cassette B1:</b>	paper 100 to 150 g/m <sup>2</sup> , formsets up to 300 g/m <sup>2</sup> ; envelopes from 70 to 90g/m <sup>2</sup> ; capacity: 40 envelopes (70g/m <sup>2</sup> )
<b>Cassette C1:</b>	cardboard and massive envelope up to 300g/m <sup>2</sup>
<b>Extended manual feeder:</b>	facilitates input of single sheets and formsets for frequent users, particularly when ASF Cassettes are mounted
<b>Printer stand:</b>	for handling of dual fanfold paper input, dimensions: 450 x 660 x 840 mm (WxDxH) (17.7 x 26.4 x 33.6 inch); weight: approx. 16 kg

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