



**Multi-functional. Ergonomically designed. Incredibly quiet.
All in all, a big PLUS for any POS system.**

- Reliable, consistent impact printing.
- Snap-in/snap-out, user-friendly ribbon cassette features Oki® impact technology.
- Optional built-in MICR reader.
- Choose from four different Series 90PLUS models.
- Ready to configure easily into whatever system you're using.

Meet the Ithaca® Series 90PLUS impact printer. Faster, more versatile printers at the register—that's how to keep customers moving. And that's what the Series 90PLUS was designed to do. With an industry-leading speed of 12.5 lines per second, and multi-function print capability all in one smartly designed, incredibly quiet unit, the Series 90PLUS could be the most flexible receipt printer available. Like other Ithaca brand printers, the 90PLUS utilizes Oki® technology, known worldwide for quality, reliability and a snap-in/snap-out, user-friendly cartridge design. Perfect for POS and banking—you can print on the face of a check, validate the back, and use the built-in slip path for oversized forms. The 90PLUS also offers an optional MICR reader, and our standard 2-year warranty offers extended maintenance options. And, of course, the Series 90PLUS is backed by our solid reputation for quality and reliability.

OUR MODELS

- 91PLUS Receipt Only
- 92PLUS Receipt/Journal
- 93PLUS Receipt/Journal/17-line Validation/Slip
- 94PLUS Receipt/17-line Validation/Slip

OUR PRINTING CHARACTERISTICS

Style	Pitch (char./in.)	Maximum (char./line)	Print Speed (lines/sec.)
Condensed	17.1	48	12.5@10 char./line
		48	5.9@40 char./line

OUR INTERFACE OPTIONS

- RS232C:** Bi-Directional Serial (9-Pin)
- IEEE1284:** Bi-Directional Parallel (25-Pin)
- Universal Serial Bus (USB)**

OUR PRINTER DRIVERS

Windows™ 95/98/2000/Me/XP, NT 4.0, OPOS

OUR OPTIONS

- Adjustable Paper Width Options: 76.2 mm, 82.5 mm (3.0 in., 3.25 in.)
- MICR: Fast, accurate verification and slip printing all in one pass. (Supports E13B ANSI standard)
- Banking Validation: 10 lines, drop-in
- Concurrent and Independent Validation (Up to 17 Lines Under Software Control): M93, M94
- Auto-Cut: Partial Cut leaves a 1 mm (.04 in.) tab in center of receipt.
- Journal Lock

OUR SLIP CAPABILITIES

- Rotated Print (4-90° rotations)
- Programmable Top of Form
- Automatic Forms Detection and Feed Under Software Control
- Top of Form to Top of Print Line: 15.8 mm (.625 in.)
- Bottom of Form to Bottom of Print Line: 15.8 mm (.625 in.)

OUR POWER REQUIREMENTS

Internal Universal AC Power:
90 VAC to 264 VAC (Self-Ranging), 47 to 63 Hz

OUR RELIABILITY

Printer in full operation (using all available features)*
MCFB: 4,000,000 to 5,000,000 Print Lines
(Depending on Model)

MTBF: 22,000 to 30,000 Hours (Depending on Model)

Printhead: 200,000,000 Characters

Auto-Cutter: 1,000,000 Cuts

* Reliability data is based on our standard test conditions simulating a normal retail operating environment.

OUR ENVIRONMENTAL SPECS

Operating Temperature:

0 to +50 degrees C (32 to +122 degrees F)

Operating Humidity:

10 to 90% RH non-condensing

OUR SUPPLIES AND SERVICE

For more information, call us at 1.877.7ithaca or visit our Web site at www.transact-tech.com

OUR FEATURES AND BENEFITS

- Print Speed: 12.5 lps. (340 cps.)—On Standard Test Receipt
 - Standard Warranty: Two Years (Extended Maintenance Plan Available)
 - Cash Drawer Drivers: Dual with Status (RJ11)
 - Print Zone: Width: 71 mm (2.8 in.)—Operator Visible
 - Data Buffer: Up to 6K Configurable
 - Custom Logo Print Buffer: (Non-volatile Memory, 2000 Bytes)
 - CPI: 4, 5, 6, 7.5, 8, 8.5, 10, 12, 15, 17.1, 20, 24
 - Portrait or Landscape Printing
 - APA Bit Map Graphics
 - Emulations: Ithaca/IBM, Epson ESC/POS*
 - 67 Language Code Pages
 - Optical Paper Low Switch (Software Sense and Adjustable)
 - Concealed Cable Entry
 - Forms Insertion: Front (Slip) or Top (Validation)
 - Display Pass-Thru (Serial Only)
 - Bar Codes: Code 39, Interleaved 2 of 5, UPC-A & UPC-E, EAN8 & EAN13, Code 128
 - Interface Parameters: Software Configurable via Buttons or Interface Port
- * Automatic Status Back feature available as an option.

OUR REGULATORY COMPLIANCE

FCC Class A CSA 950 CE Mark UL 1950 VDE 950

OUR MEDIA

Paper Roll (one-ply):

- Width: 82.5 mm (3.25 in.) or optional 76 mm (3 in.)
- Diameter: 89 mm (3.5 in.)
- Length Per Roll: 73.1 m (240 ft.)
- One-Ply Maximum Thickness: .11mm (.0045 in.)

Paper Roll (two-ply):

- Width: 82.5 mm (3.25 in.)
- Diameter: 89 mm (3.5 in.)
- Length Per Roll: 38.1 m (125 ft.)
- Maximum Thickness Per Ply: .09 mm (.0035 in.)

Paper Roll (Three-Ply):

- Width: 82.5 mm (3.25 in.)
- Diameter: 89 mm (3.5 in.)
- Length Per Roll: 26m (85 ft.)
- Maximum Thickness Per Ply: .25 mm (.01 in.)

Inserted Forms (1 original and up to 3 copies):

- Minimum form size: 63.5 mm W x 85.73 mm L (2.5 in. W x 3.375 in. L)
- Single sheet thickness: .09 mm - .41 mm (.0035 in - .016 in.)
- Multi-part form maximum thickness: .41 mm (.016 in.)

Ribbons: 3-4.5 Million Character Life

- Ithaca or Genuine Oki Snap-on Ribbon Cassette (Black or Purple)

OUR PHYSICAL CHARACTERISTICS

Dimensions: 185.42 mm W x 311.15 mm D x 152.40 mm H
(7.3 in. W x 12.25 in. D x 6.0 in. H)

Weight: 4.5 kg (10 lbs.)

Shipping Weight: 5.9 kg (13 lbs.)

WHO WE ARE

TransAct Technologies, Inc. (NASDAQ: TACT) designs, develops, manufactures and markets transaction-based printers and related products under the Ithaca® and Magnetec® brand names. The company's printers are used worldwide to provide receipts, tickets, coupons, register journals and other documents. The company focuses on the following vertical markets: point-of-sale (POS) and gaming and lottery. All of TransAct's products are manufactured in ISO9001-certified facilities.



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