

# OKI® MICROLINE® 490/491

24-Pin Impact Printers



# Reliable and fast with letter-quality output.



*Narrow Carriage  
MICROLINE 490*



## Highlights:

Rated at 20,000 hours MTBF

3-year standard warranty

Print speeds up to 475 cps<sup>1</sup>

Integrated USB and IEEE Parallel connectivity standard

Available with OkiLAN® 10/100 Base-T Ethernet Internal<sup>2</sup> or External Print Server

Crisp, clear printing – on letterhead or 5-part forms

Expandable head gap – accommodates multi-part forms and cut-sheet stock including labels and stiff index stock

128 KB receive buffer/memory

4 million-character ribbon life

400-million character printhead life

Small footprint – ideal for retail countertops

Uses the same accessories as ML390/391 Turbo Series

<sup>1</sup> Utility/Draft Mode.

<sup>2</sup> Standard on ML490n and ML491n.

<sup>3</sup> Q4 2003 IDC Quarterly Tracker and Evans Research.

## Exceptional forms-printing performance, backed by a 3-Year standard warranty

### High-volume versatility in forms and correspondence.

Whether you need regular output of continuous multi-part forms, fine business correspondence—or combinations of both—24-pin OKI® ML490/491 printers are the commanding solution.

They handle the printing needs of the most demanding environments—including point-of-sale, automation and utility applications such as wholesale or retail sales counters, financial departments, and manufacturing or warehouse sites. Yet they also produce letter-quality type and high-resolution graphics for the office and executive suite.

**Unequaled performance technology.** The ML490/491 sport features that give them a strong edge over their predecessors as well as the competition:

- An internal cooling fan provides continuous airflow for the printhead—maximizing throughput productivity for long, unattended print jobs
- Additional feed rollers provide precise forms handling and printed-character placement accuracy
- 3-piece top cover provides easy access and unsurpassed break resistance

**Fast, with finesse.** ML490/491 printers run the gamut of paper types and envelopes at lightning speed—reaching 475 cps in Utility/Draft mode and 105 cps in Letter-quality. Their rugged printhead (400 million-character average life expectancy) is made up of powerful samarium magnets and stored-energy pins that deliver precise, sharp characters all the way through to the last page of a 5-part form.

The patented OKI closed-loop feedback system assures character placement accuracy. And a zero-tear feature accurately positions continuous forms for a clean tear at the perforation to eliminate wasted stock.

**Sturdy and sophisticated.** Field-proven reliability is just one reason OKI MICROLINE printers are the most widely-used impact printers in North America<sup>3</sup>.

The rugged, reliable OKI ML490/491 printers are sure to win you over, too!

**OKI®**  
PRINTING SOLUTIONS

# OKI® MICROLINE® 490/491

## 24-Pin Impact Printers



**Built to last, inside and out.** The performance-optimized power supply of the OKI® MICROLINE® 490/491 has been enlarged to easily handle harsh printing conditions. Its energy management capabilities match power expenditures to print-job size, maximizing the life of the 24-pin printhead and other components. These are just a few of the reasons why OKI MICROLINE Impact printers are the most widely used in North America.<sup>1</sup>

A long-lasting rack-and-pinion drive system ensures print quality longer than belt or cable systems.

And the ergonomically-designed, impact-resistant chassis protects the ML490/491 from damage, even in the toughest working environments.

**All this performance is user-friendly.** Controls are conveniently placed on the front panel for fast access. The automatic loading of continuous and cut stock makes every print job easier, and the design of the internal sheet separator enables easy loading of tractor-fed paper into the rear push tractor.

OKI provides the edge in performance no competing printer can claim—and backs it with 3 years of warranty coverage<sup>2</sup> and a network of authorized OKI Dealer Service Centers and Service Depots.

The high-quality, highly reliable and highly affordable ML490/491 Impact printers from OKI. Put them to work in your office or behind the counter—and watch them drive your productivity to new limits while they improve the look of your forms printing.



Wide-carriage MICROLINE 491

### Specifications

#### Technology, Speed and Print Characteristics

- **Printhead:** 24-Pin SIDM
  - **Graphics Resolution:** 360 (H) x 360 (V) dpi maximum
  - **Feed Rate:** 4.5 ips (11.4 cm/sec.)
  - **Print Speed and Character Matrix:**
  - **Print Speed and Character Matrix:**
- | Mode           | Letter Quality<br>(12 cpi) | Utility<br>(12 cpi) | Hi-Speed Draft<br>(10 cpi) | Utility<br>(15 cpi) |
|----------------|----------------------------|---------------------|----------------------------|---------------------|
| Speed (in cps) | 126                        | 380                 | 420                        | 475                 |

#### Emulation, Interface and Memory

- **Emulation:** Epson® LQ, IBM® ProPrinter®, IBM AGM, IBM XL24
- **Interface: Standard** – IEEE Parallel and USB; OkiLAN® 10/100 Base-T Internal Print Server (ML490/n, ML491/n); **Optional** – RS-232C Serial and Ethernet® via OkiLAN 10/100 Base-T Internal or External Print Servers
- **Memory:** 128K

#### Compatibility

- **Operating Systems:** Windows® Vista® 32/64, XP, 2000, 98/95, 3.x and NT® 4.0; MS-DOS®

#### Paper Handling

- **Paper Input:** Single-part, Multi-part, Continuous forms, Cut sheet, Index stock, Envelopes, Labels
- **Number of Copies:** 5
- **Thickness:** 0.017" (0.43 mm) maximum
- **Paper Feeding:** Rear Push and Friction Feed
- **Options:** Bottom Push Tractor, Top Pull Tractor, Cut Sheet Feeder, Roll Paper Stand

#### Warranty and Reliability

- **Limited Warranty:** 3-Year parts and labor, 2-Year printhead
- **MTBF:** 20,000 hours (25% duty cycle/35% page density)
- **Reliability:**
  - ML420 – 20,000 pg./mo. duty cycle
  - ML421 – 12,000 pg./mo. duty cycle
- **Printhead Life:** 400 million characters
- **Ribbon Life:** 4 million characters

#### Environmental

- **Size (WxDxH):**
  - ML490 – 15.7" x 13.6" x 6.0" (39.8 cm x 34.5 cm x 15.2 cm);
  - ML491 – 21.7" x 13.6" x 6.0" (55.1 cm x 34.5 cm x 15.2 cm)
- **Net Weight:**
  - ML490 – 16.4 lb. (7.43 kg); ML491 – 21.2 lb. (9.6 kg)
- **Acoustic Noise:** 56 dBA
- **Power Requirements:**
  - 120V Model: 120 VAC +6%, -15%;
  - 230V Model: 230 VAC +15%, -14%

### Ordering Information (Part Number)

Description	Part Numbers
MICROLINE 490/Parallel/120V	62418901
MICROLINE 490/Parallel/230V	62418902
MICROLINE 490-n/120V	62418903
MICROLINE 491/Parallel/120V <sup>4</sup>	62419001
MICROLINE 491/Parallel/230V <sup>4</sup>	62419002
MICROLINE 491-n/120V <sup>4</sup>	62419003

#### Accessories

Top-Mount Pull Tractor Kit with acoustic cover:	
ML490	70030501
ML491	70030601
Bottom Push Tractor Kit:	
ML490	70030701
ML491	70030801
Cut Sheet Feeder	70030101
Roll Paper Stand (ML490 only)	70023301
RS-232C Serial Interface (19.2K baud max.)	70012801
OkiLAN® 6120i 10/100 Base-T Ethernet Internal Print Server	70046502
OkiLAN® 6020e+ 10/100 Base-T Ethernet External Print Server	70036002
Self-inking Ribbon Cartridge	42377801

#### OKIcare® Depot Warranty Extensions<sup>3</sup>

	U.S.	Canada
OKI ML400 Series 4-Yr. Depot	38000801	38000811
OKI ML400 Series 5-Yr. Depot	38000802	38000812

#### OKIcare® Overnight Exchange Warranty Extensions<sup>3</sup>

	U.S.	Canada
Upgrade to 3-Yr. Overnight Exchange	38000803	38000813
OKI ML400 Series 4-Yr. Exchange	38000804	38000814
OKI ML400 Series 5-Yr. Exchange	38000805	38000815

**For more information** on OKI Impact Printers and supplies, including OKIcare® Extended Service Programs: **1-800-OKI-DATA** (800-654-3282).

<sup>1</sup> Q4 2003 IDC Quarterly Tracker and Evans Research.

<sup>2</sup> 3-year standard warranty parts and labor/2-year printhead.

<sup>3</sup> Available in the U.S. and Canada only.

<sup>4</sup> Has earned the ENERGY STAR.

All specifications subject to change without notice.

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