ML600 Series

The ML600 Series from OKI: high-volume versatility in forms and correspondence.

Whether your output is continuous multi-part forms or fine business correspondence—you'll find your solution in the Dual 9-pin ML620/ML621 or the 24-pin ML690/ML691 dot matrix printers.

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, manufacturing and warehousing.

Yet they also produce letter-quality type and high-resolution graphics for the office and executive suite.

Unequaled performance – ML600 Series printers have features that give them a strong edge over the competition:

• Print speeds of up to 700 cps1
• An MTBF rating of 25,000 hours
• Ribbon life of up to 13 million characters2

And they offer other features that will improve your working conditions, including:

• A convenient front paper path (tractor feed and friction feed)
• Printing on forms up to 7 parts3
• Versatile connectivity and paper handling

Fast, with finesse – ML600 Series printers run the gamut of paper types and envelopes at lightning speed. Their rugged printheads have a 400 million-character average life expectancy, with powerful samarium magnets and stored-energy pins that deliver precise, sharp characters through to the last page of a 7-part form1.

Sturdy and sophisticated – Field-proven reliability is just one reason OKI MICROLINE® printers are the most widely-used impact printers in North America4. The rugged, reliable OKI ML600 Series printers are sure to win you over, too!

Step up to superior performance – OKI provides products that increase performance without increasing the budget.

You can expect more from ML600 Series printers: faster speeds... better performance... greater reliability.

Highlights:

• Dual 9-pin and 24-pin dot matrix printing
• Best-in-class reliability: 25,000-hour MTBF
• Convenient front paper feed
• Fastest-in-class print speeds: up to 700 cps1
• Up to 13 million-character ribbon life2
• USB and Parallel connectivity standard
• Crisp, clear printing – on letterhead or up to 7-part forms3
• 128 KB receive buffer/memory
• 400-million character printhead life
• Options include internal Ethernet and Serial connectivity; front/back tractors; top pull tractor; cut sheet feeder; roll paper stand6
• 3-year standard warranty with extensions5
• Live, toll-free technical support5

1 ML620/ML621 SuperSpeed Draft; ML690/ML691 up to 480 cps.
2 ML621/ML691; ML620/ML690 at 8 million-character life.
3 7 sheets max, depending on paper path and tractor used.
4 IDC Quarterly Tracker, 2019.
5 Available in the U.S. and Canada only.
6 Roll paper stand for ML620/ML690 only.
Specifications

Technology, Speed and Print Characteristics

- **Print Method:** Serial Impact Dot Matrix ML620/ML621 – Dual 9-pin (0.3 mm diameter)
- **Print Method:** Serial Impact Dot Matrix ML620/ML621 – Dual 9-pin (0.2 mm diameter)
- **Print Speed (cps):**
  - NLQ & LQ
  - Draft
  - HS Draft
  - SS Draft
  - ML620/ML621
    - 113 (NLQ)
    - 450
    - 600
    - 700
  - ML690/ML691
    - 120 (LQ)
    - 360
    - 480
    - N/A
- **Graphics Resolution (max):**
  - ML620/ML621 – 288 (H) x 72 (V) dpi OKI® MICROLINE®;
  - 240 (H) x 72 (V) dpi Epson®/IBM®
  - ML690/ML691 – 360 (H) x 360 (V) dpi Epson/IBM
- **Feed Rate:** ML620/ML621 – 5.25 ips;
  - ML690/ML691 – 5.5 ips

Emulations, Interface and Memory

- **Emulation:** ML620/ML621 – Epson® FX(ESC/P), IBM® PPDS, OKI MICROLINE
  - ML690/ML691 – Epson LQ (ESC/P2), IBM PPDS, IBM AGM
- **Interface:** Standard – IEEE Bi-directional Parallel, USB 2.0;
  - Optional – Ethernet® via OkI® LAN® 7130E 10/100 Base-T
- **Receive Buffer/Memory:** 128 KB

Compatibility

- **Fonts/Characters:**
  - ML690/ML691 – Courier, Roman and Swiss 8-64 pt.
- **Bar Codes:** 11

Paper Handling

- **Paper Input:** Single/Multi-part, Continuous forms, Cut sheet, Roll paper1, Envelopes, Card stock, Labels
- **Number of Copies:**
  - Original = up to 6 copies max1
- **Thickness (Max):** Front/Back push 0.014” (0.36 mm);
  - Front/Back pull, Front/Back push-pull 0.017” (0.44 mm);
  - Top pull 0.019” (0.48 mm)
- **Paper Feeding:**
  - Front/Top Friction Feed,
  - Front/Back Push Tractor, Front/Top Pull Tractor
- **Standard Tractor:**
  - Front/Back Push with Zero Tear,
  - Auto Park and Auto Loading standard
- **Options:** Top Pull Tractor, Cut Sheet Feeder, Roll Paper Stand2

Environmental

- **Size (WxDxH):**
  - ML620/ML690 - 16.3” x 12.6” x 6.3”
  - (41.4 cm x 32.0 cm x 15.9 cm)
  - ML621/ML691 - 22.4” x 12.6” x 6.3”
  - (56.8 cm x 32.0 cm x 15.9 cm)
  - Note: Sizes do not include platen knob, paper separator and guide pull up.
- **Net Weight:**
  - ML620/ML690 – 16.8 lb. (7.7 kg)
  - ML621/ML691 – 22.0 lb. (10 kg)
- **Power Consumption:**
  - ML620/ML621 – Operation approx. 52W (ISO/IEC 10561 Letter, Draft, Range 1); Idle 15W max;
  - Sleep Mode – with options 3.7W max, without options 1.5W max
  - ML690/ML691 – Operation approx. 52W (ISO/IEC 10561 Letter, Roman, Range 1); Idle 15W max; Sleep Mode –
    - with options 3.7W max, without options 1.5W max
- **Electrical:** 120V
- **Operating Temperature:** 5˚C to 35˚C
  - (41˚F to 95˚F); 20% to 80% relative humidity
- **Noise:** ML620/ML621 – Silent Mode 52.0 dBA, Quiet Mode 55.0 dBA, Normal Mode 57.0 dBA
  - ML690/ML691 – Silent Mode 49.0 dBA, Quiet Mode 52.0 dBA, Normal Mode 57.0 dBA

Reliability and Warranty

- **MTBF:** 25,000 hours
- **Monthly Duty Cycle:**
  - ML620 – 28,000 pages; ML621 – 20,000 pages
  - ML690 – 23,000 pages; ML691 – 14,000 pages
- **PrintHead Life:**
  - ML620/ML621 – 230,000; ML690/ML691 – 140,000
- **Ribbon Life:**
  - ML620/ML621 – 25,000 hours
  - ML690/ML691 – 12,000 hours
- **Ribbon Cartridge (ML620/ML690):** 44173403
  - ML691 (24-Pin) – 120V 62434101
  - ML620 (24-Pin) – 120V 62433801
- **Supplies:**
  - Ribbon Cartridge (ML620/ML690) 44173403
  - Ribbon Cartridge (ML620/ML691) 44173404
- **OkiCare® Depot Warranty Enhancement Program**
  - ML620/621 ML690/691
  - 4-Year Extension 38022215 38022615
  - 5-Year Extension 38022215 38022615

Ordering Information

<table>
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<tr>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>Printers</td>
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<tr>
<td>ML620 (Dual 9-Pin) – 120V</td>
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<td>ML691 (24-Pin) – 120V</td>
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<td>Cut-Sheet Feeder (ML621/ML691)</td>
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<td>Front/Back Push Tractor (ML620/ML690)</td>
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<td>Front/Back Push Tractor (ML621/ML691)</td>
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<td>Top Pull Tractor (ML620/ML690)</td>
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<td>Top Pull Tractor (ML621/ML691)</td>
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<td>Roll Paper Stand (ML620/ML690 only)</td>
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Note: All Warranty Enhancement Program options extend the total warranty coverage period from the date of purchase to the number of years listed for each order number above.

1 Super-Speed Draft rated at 12 cpi only; all other print speeds apply to 10 cpi.
2 ML620/690 only.
3 Depending on paper path and additional tractor used.
4 Available in the U.S. and Canada only.

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