Introducing DuraFlex™

A powerful, low-cost, compact single-pass print solution that opens new market segments and creates new business opportunities for OEMs.

Component or Feature | Specifications
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DuraFlex Printhead | • A3+ = 324.4 mm (12.77 in.) with 163,840 Nozzles  
• A4 = 222.8 mm (8.77 in.) with 112,640 Nozzles  
• Four Colors (CMYK) in One Printhead with 2x Redundancy  
• User Replaceable

DuraFlex Inks | • Aqueous Pigment Inks  
• CMYK  
• Fast Drying Ink with No Need for External Drying Capability

Data Pipeline | • Custom FPGA and Embedded Software/Firmware to RIP PDF Files for Printing  
• Optional Pipeline for OEM-Supplied RIP and Dot-Level Control of Print Stream to Printhead

DuraFlex Software | • Print Engine Supervisor Software/Interface for OEM Control  
• Basic Reference Windows 10 Printer That Generates PDF Files (Only for 1-Wide Applications)  
• Host Utility That Sends PDF Files to the DuraFlex Printer (Only for 1-Wide Applications)

DuraFlex Modules and Consumables

<table>
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<th>Modules</th>
<th>Consumables</th>
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| • Print Module  
• Ink Delivery System Module  
• Ink Management Module | • Printheads  
• Inks  
• Printhead Wiper Cartridge

Support

| Business Development  
| Marketing Services  

Print Resolution and Speed

<table>
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<th>Print Bar Configurations</th>
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| • A3+ = 324.4 mm  
• 9 mm stitches between A3+ printheads for a maximum print width of 1270 mm (50 in.)

DuraFlex can stitch up to four A3+ printheads with a 9 mm stitching overlap for a maximum print width of 1270 mm (50 in.).
**The Future of Print: PRINTING TECHNOLOGY FOR NEW MARKETS AND APPLICATIONS**

**Powering New Markets, Applications and Opportunities**

**Office & Document**
Increase the effectiveness of office communications through color and speed with lower print costs and interventions.

**Labels**
Increase efficiency, productivity, and flexibility in manufacturing with short-run color labels on demand.

**Mailing & Addressing**
Generate unmatched high quality/low cost edge-to-edge color envelopes and direct mail. Memjet technology makes it easier to print on wider and thicker envelopes and direct mail envelopes.

**Light Production**
Print your commercial applications faster and more profitably than ever before. High-speed color printing at 1600 dpi with full variable data and market-leading Memjet print quality.

**Packaging**
Evolve packaging to create a more personalized interaction between consumers and brands with custom, full-color corrugate, folding carton, and flexible packaging solutions.

**Wide Format**
With print widths up to 1270 mm (50 in), a wide range of applications and substrates can now be addressed with market-leading image quality, durability, and speed of Memjet printing technology.

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**Printhead**
The user-replaceable printhead leverages Memjet’s revolutionary economical and flexible printhead technology. It is engineered to deliver increased speed, outstanding image quality and longer life in both A4 and A3+ formats. Up to four A3+ printheads can be stitched together to enable wide format printing applications easily.

**Print Module**
The Print Module manages all functions around printing including datapath, printhead maintenance, and ink delivery. This module houses two power distribution boards that transfer print data and supply power to the printhead. Ink supply components prime the printhead while an integrated vapor system provides automated servicing. Each Print Module will house one printhead, furnishing interfaces to the rest of the printer components.

**Ink Delivery System Module**
The Ink Delivery System Module draws ink from the bulk ink supply (Ink tanks 500 mL, 2L, 10L) and channels the ink to the Print Module for printing. It also filters the ink and provides sufficient storage for hot swap and large job sizes.

**Ink Management Module**
The Ink Management Module extracts remaining ink from the printhead modules’ printhead washer and printhead cap for disposal in the OEM waste tanks.

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**The Benefits of DuraFlex**
DuraFlex is the newest pigment-based print system that offers a unique business model driving hardware and consumables opportunities for our OEMs. It provides multi-color A4 and A3+ printhead options and a modular set of compact components. It enables OEMs to build desktop, light production, and cost-sensitive wide format solutions that enable fast, full-bleed color printing with market leading durability and image quality.

**Low Cost**
Memjet’s modular technology provides OEMs the fastest time to market and lowest development costs:
- **Competitive hardware cost and TCO advantages through longer life printheads**
- **Lower cost 4 color printhead solution**
- **Custom applications (Up to 1270 mm / 50 in)**

**Quality**
- **Image quality consistency across a broad range of run lengths, print environments and substrates**
- **High optical density and chroma**
- **Small drop sizes for sharp lines and crisp text**
- **2x nozzle redundancy**

**Speed**
- **Faster print mode at 27 m/min (18 in/sec) at 1600 x 1600 dpi or 46 m/min (30 in/sec) at 1600 x 954 dpi**
- **Powerful print pipeline renders highest resolution at speed**

**Simplicity**
- **Flexible set of modules - designed for fast integration and ease of use**
- **Greater printhead life with low intervention rate**
- **Improved reliability and robustness via pigment ink maintenance system**

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**OEM Support**
We have created a proactive approach that goes beyond just support. Our dedicated team has expertise in all the disciplines required to create a state-of-the-art print system, including software, hardware, mechanical design and fluidics. Memjet also provides a wide range of marketing support working closely with our partners to build joint integrated marketing campaigns that amplify their brand and showcase their solutions.

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**DuraFlex Configurations**
Memjet’s DuraFlex technology provides the ultimate flexibility for different media handling and configurations such as cut sheet, roll-to-roll, or belt-driven applications. It delivers speed and simplicity of integration plus cost advantages in a variety of segments and applications.

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