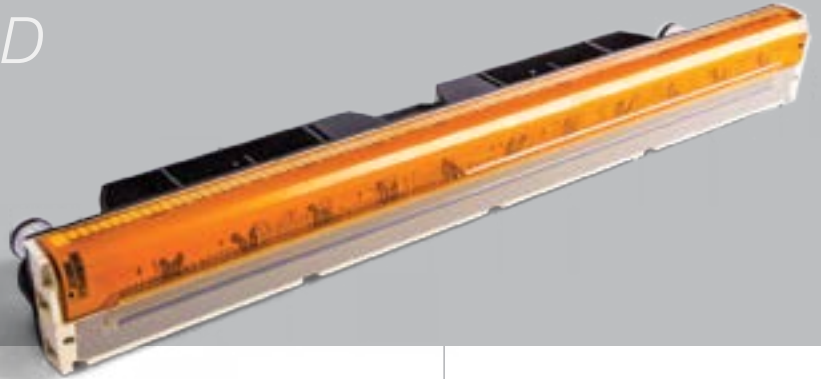# DURALINK PRINTHEAD

The essential component of
DuraLink: the 70,400-nozzle
inkjet printhead

## REMARKABLE RELIABILITY AND ROI

The new DuraLink printhead is a 1600 dpi, 222.8 mm (8.77 in) wide, mono-color printhead, with 70,400 nozzles and 5 times nozzle redundancy, designed together with durable by DuraLink aqueous pigment inks.

Excellent print quality is sustainable for 1 billion ejections per nozzle for each CMYK color. In the below image, magnified images of lines that are 1 dot wide, with rectangles 1/100 inch (16 dot pitches) wide, comparing a print at the start of life of a printhead (top) to a print after 1 billion ejections (bottom). Even after a billion ejections, the print quality is exceptional.

| | |
|---|---|
| Print quality at start of printhead life |  |
| Print quality after 1 billion ejections |  |

### Designed for Quality and Durability

The new DuraLink printhead design replaces the suspended heater with a bonded heater, which has a durable coating. With pigment inks, the new design contributes to longer life, ejection stability, and excellent print quality.

## PRINTHEAD
## MAIN FEATURES

- Produces 2.2 pL drops up to the recommended maximum nozzle firing frequency of 15.5 kHz

- Improved bubble tolerance and priming robustness via "open" fluidic architecture

- New MEMS structure improves the consistency of the chamber depth and the droplet size

- Systematic chamber design (patented) improves drop trajectory consistency

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**DURA**LINK
*BY MEMJET*

## DURALINK PRINTHEAD

**TECHNICAL SPECIFICATIONS:**

| | |
|---|---|
| Print Width: | 222.8 mm (8.77 in), up to 2563.60 mm for 12 printheads |
| Printhead Type: | Single-color, user replaceable |
| Nozzle Redundancy: | 5-times nozzle redundancy |
| Drop Size: | 2.2 pL |
| Firing Frequency: | 15.5kHz |

**Calculating Required Number of Printheads**

| Width of Printing (mm) | No. of PHs/Color | For Duplex | Example |
|---|---|---|---|
| 222.80 | 1 per color | x 2 | |
| 435.60 | 2 per color | x 2 | |
| 648.40 | 3 per color | x 2 | |
| 861.20 | 4 per color | x 2 | Example calculation for a DuraLink-based printer: |
| 1074.00 | 5 per color | x 2 | -with a printing width of 1000 mm |
| 1286.80 | 6 per color | x 2 | -4 colors |
| 1499.60 | 7 per color | x 2 | -duplex printing |
| 1712.40 | 8 per color | x 2 | |
| 1925.20 | 9 per color | x 2 | 5 printheads wide x 4 colors x 2 for duplex |
| 2138.00 | 10 per color | x 2 | |
| 2350.80 | 11 per color | x 2 | = 40 printheads |
| 2563.60 | 12 per color | x 2 | |