



High-quality Industrial Inkjet Heads

CF3 – 600npi: 1 colour / 300npi: 2 colours

Excellent Print Quality

The CF3 printhead offers 600 nozzles per inch (2 rows of 300) and small drop sizes, resulting in excellent print quality and smooth grey-scales that satisfy even the most demanding customer requirements.

High Productivity

Robust head design with through-channel fluid recirculation achieves high productivity by eliminating misfiring, thus reducing idle time.

High Reliability

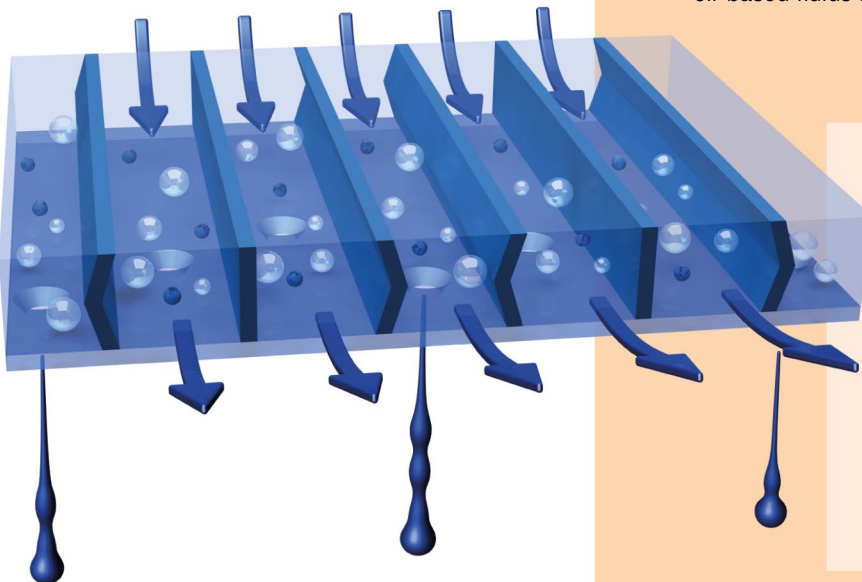
The through-channel fluid recirculation system, combined with side-shooter architecture guarantees excellent jetting performance and accuracy - air bubbles, drop deflection through sedimentation, and nozzle blockages are eliminated.

Efficiency

The 2 rows of 300 nozzles can be used independently, with different ink supplies, allowing 2-colour printing with a single head. This feature will allow manufacturers to build compact and competitive printers with economical efficiency.

Versatility

Capable of handling high viscosity and gravity fluids. UV-curing and oil-based fluids are supported. The range of applications is extensive.



Through-channel fluid recirculation benefits:

1. Air bubbles and unwanted particles are carried away from the nozzle.
2. Continuous fluid motion across nozzles prevents sedimentation, eliminating drop deflection and blockages.
3. A constant fluid temperature is maintained, ensuring consistent drop formation.
4. Auto-recovery from nozzle blockages minimizes fluid and substrate wastage.

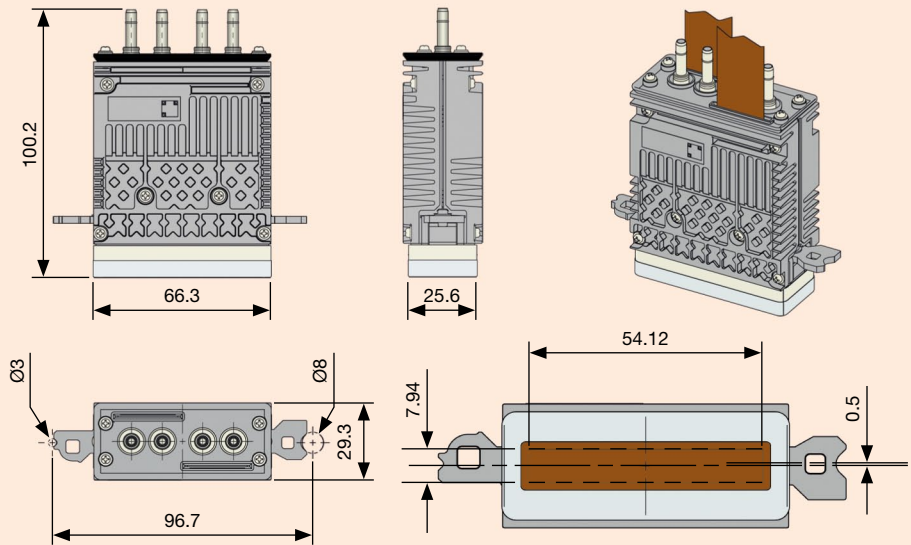


Specifications

CF3

	1 Colour	2 Colours
Print method	Drop-on-Demand piezo, shared-wall, shear-mode technology	
Print width	53.95 mm	53.91 mm
Active nozzles	1278 / colour	639 / colour
Resolution	600 npi	300 npi ¹
Full-coverage greyscale levels ²	4 levels (0, 1-3 dpd)	7 levels (0, 1-6 dpd)
Full-coverage drop volumes ²	11pl (4 levels)	24 pl (7 levels)
Print frequency ²	16 kHz @ 4 levels	8 kHz @ 7 levels
Driving sequence	3-cycle drive	
Piezo driving voltage	+7V to +15V, -7V to -15V (+ and - supplies required)	
Jettable fluids	UV-curing & oil-based (consult us for compatibility assurance)	

Dimensions (mm)



¹ CF3 is a native 600 dpi head with 1st and 2nd row nozzles laterally offset from each other by 1/600". Dot positions for 2 colours are offset accordingly.
² The number of levels and drop volumes required to reach full print area coverage depends upon the type of ink used. Maximum print speed and linear frequency can be increased by reducing the number of drops per dot (dpd). The above specifications may change. Please confirm when ordering.

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