

## CF1 Family

### High-quality Industrial Inkjet Heads



#### Quality

Smooth greyscales and excellent print quality, achieved by consistent drop formation and volumes, combined with accurate and repeatable dot placement.

#### Productivity

Robust head design and precise manufacturing tolerances ensure high print production yields.

#### Throughput

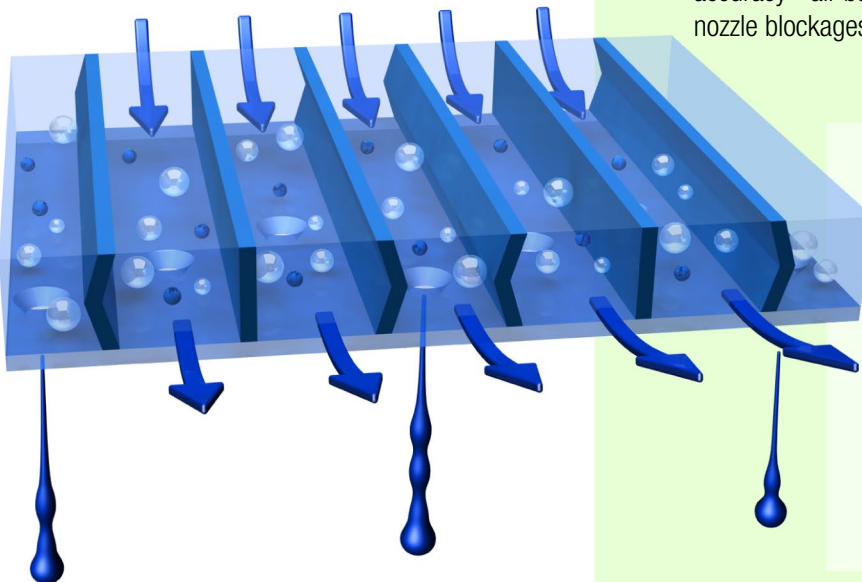
The CF1L and CF1XL heads are designed for high throughput with large drop volumes, making them ideal for applications such as ceramic decoration.

#### Versatility

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

#### 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.



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

## CF1

## CF1L

## CF1XL

Print method	Drop-on-Demand piezo, shared wall, shear mode technology		
Print width	53.7 mm		
Active nozzles	636 (2 rows of 318)		
Resolution	300 dpi		
Nozzle pitch	84.5 µm		
Greyscale levels	8 levels (0, 1-7 dpd)	4 levels (0, 5-7 dpd)	6 levels (0, 1-5 dpd)
Drop volumes	6-42 pl	64-90 pl	36-180 pl
Print frequency <sup>1</sup>	4.97 kHz (at max. dpd)	4.8 kHz (at max. dpd)	4.8 kHz (at max. dpd)
Linear speed <sup>1</sup>	25 m/min (at max. dpd)	24 m/min (at max. dpd)	24 m/min (at max. dpd)
Piezo driving voltage	14-31 Volts		
Drop velocity	9-11 m/s	7-9 m/s	7-9 m/s
Jetable fluids	UV-curing & oil-based (consult us for compatibility assurance)		
Standard dimensions (mm) for the CF1 family			
Dimensions (mm) with optional positioning plate <sup>2</sup>			

<sup>1</sup> Maximum print speed and linear frequency can be increased by reducing the number of drops per dot (dpd).

<sup>2</sup> A factory-fitted option enabling easy and accurate head positioning with a precision of 10 µm to the 1st nozzle.

## TOSHIBA TEC CORPORATION

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European TOSHIBA TEC Inkjet Technology Centre  
 +32 499 268 977 info@iacs.be www.iacs.be

