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Leading Innovation >>>

## CK1 & CK1L

#### 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. Heads are available in large quantities.

## Throughput

The CK1L head is designed for high throughput with large drop volumes – 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 sideshooter architecture guarantees excellent jetting performance and accuracy - air bubbles, drop deflection through sedimentation, and nozzle blockages are all 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.

# High-quality Industrial Inkjet Heads

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# Specifications

Print method	Drop-on-Demand piezo	
Print width	53.657 mm	
Active nozzles	636	
Resolution	300 dpi	
Nozzle pitch	84.5 μm	
Greyscale levels	8 levels (0, 1-7 dpd)	4 levels (0, 5-7 dpd)
Drop volumes	6-42 pl	51-90 pl
Print frequency <sup>1</sup>	4.97 kHz (at max. dpd)	4.8 kHz (at max. dpd)
Linear speed 1	25 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
Jettable fluids	UV-curing & oil-based (consult us for compatibility assurance)	
Standard dimensions (mm) for both CK1 and CK1L		Weight: 161 g
Dimensions (mm) with optional positioning plate <sup>2</sup>	Weight: 185 g	110.8 12.646 ± 0.01 (#318) 12.646 ± 0.01 (

<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. CK1/CK1L heads are designed with a different internal structure from CF1ou/CF1L heads.

#### TOSHIBA TEC CORPORATION