

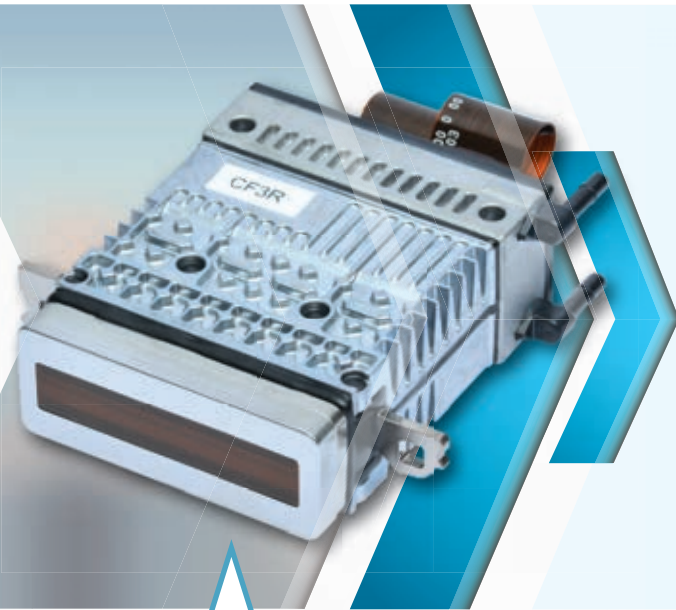
TOSHIBA

Ink re-circulating type inkjet head

CF3/CF3R 600dpi:1color/300dpi:2colors

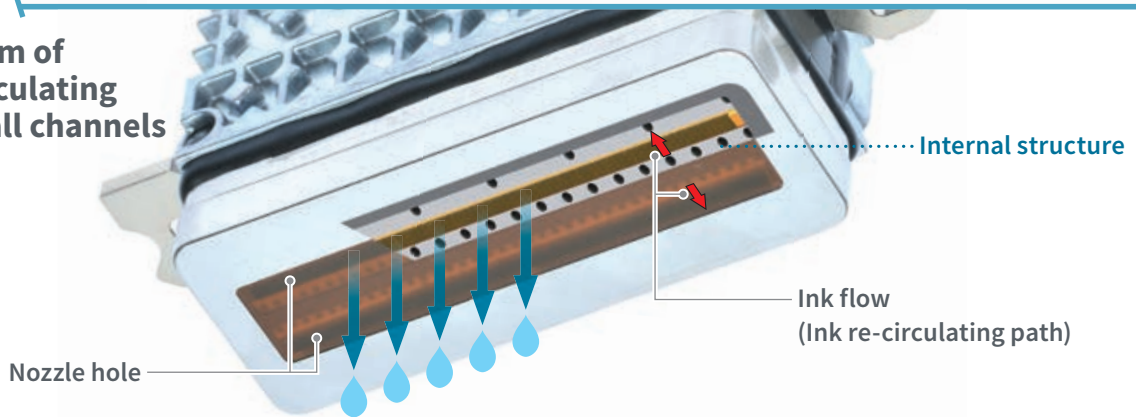
Unique and only industrial inkjet head having both 300dpi/row (twice as much) with ink re-circulation through all channels

- Inherits **high jetting reliability and eco-friendly** enabled by ink re-circulation through all channels
- Suitable for jetting ink with **larger particle size and higher gravity**
- Use of 2 colors in one head **enabling the printer be more compact**
- **Nozzle by nozzle drop volume control** to minimize density variation



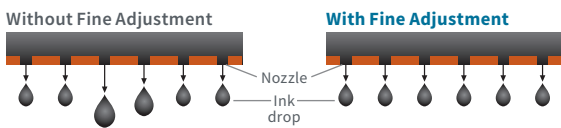
Mechanism of ink re-circulating through all channels

[Image Chart]



Nozzle by nozzle drop volume control (Fine Adjustment)

The function to control firing drop volume control nozzle by nozzle, contributes to enhance image quality much further.



Variation in drop volume and drop speed

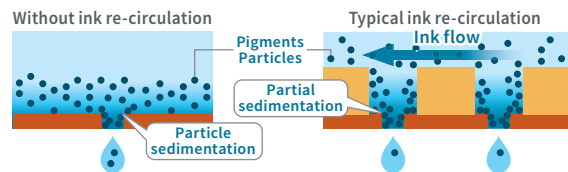


Uniformed quality by Fine Adjustment !!



[Image graphics]

Feature of TOSHIBA TEC ink re-circulating through all channels inkjet head



Stable jetting of ink that easily sediments with higher viscosity and gravity

TOSHIBA TEC ink re-circulation



- Ink is re-circulated through all channels, preventing sedimentation and reducing nozzle blockages drastically.
- Because the ink path is simple, it is excellent at eliminating air bubbles or unwanted particles.

Specifications



CF3 / CF3R

	1 color	2 colors
Print Method	On-Demand piezo technology	
Ink Re-circulation Structure	Ink re-circulation through all channels	
Print Width	53.95mm	53.91mm
Nozzles	1278	639×2 colors
Nozzle Resolution	600dpi	300dpi×2 colors
Number of Lows	2	
Nozzle Spacing (Row to row distance)	7.94mm	
Grayscale Level	6 levels/0~5drops	
Drop Volume	20pL/5drops	
Minimum Drop Volume	3~4pL	
Frequency	9.2kHz/5drops	
Power Supply Voltage for Driving the Head	+7V~-+15V, -7V~-15V	
Power Supply Voltage for Driving Circuit	5V, 24V	
Ink Type	UV-curing & oil-based (consult us for compatibility assurance)	
Built-in Temperature Sensor	Included	
Head Cooling Method	CF3:Air-cooling	CF3R:Water-cooling(include water cooling port)
Size, Weight	CF3:96.7mm(W)×29.3mm(D)×100.7mm(H), 255g	CF3R:96.7mm(W)×31.3mm(D)×100.7mm(H), 285g

Dimensions (mm)

CF3



CF3R



※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 colors are offset accordingly.

※2 Gradation levels and drop volumes depend upon the type of ink used. Maximum printing speed and linear frequency can be increased by reducing the number of drops per dot (dpd).
The specifications above may change.

TOSHIBA TEC CORPORATION

Inkjet Business Group

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