**Industrial Inkjet** 



# RICOH MH5420/5440



## Single-pass 600dpi high-resolution printing and support for multiple ink colors

With 1,280 nozzles configured in 4 x 150dpi rows, this head achieves high-resolution 600dpi printing. Additionally, the ink paths are isolated, enabling a single head to jet up to four ink colors.

## Excellent durability and extended service life

Ricoh inkjet print heads are made of stainless steel. These heads are highly robust and offer excellent anti-corrosion properties for multiple inks, resulting in excellent durability and extended service life.



### Support for different inks

With its built-in heater, these heads are capable of jetting high-viscosity inks. Additionally, the ink path is isolated from the actuator (piezo elements), i.e. no ink contact.

## Support for grey-scale

Achieves excellent gray-scale rendering with up to 4 scales per dot.

### Variable drop volume capability

The multi-drop capability allows the creation of a range of drop sizes enabling grey-scale printing.

## Inkjet head with support for multiple nozzles and colors

Choose from two-color or four-color models to suit your application.

## MH5420 (two-color model)



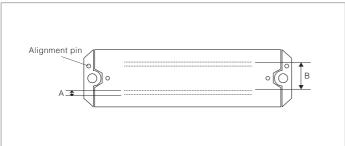
## MH5440 (four-color model)



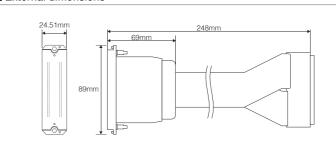
	MH5420	MH5440		
Method	Piston pusher with metallic diaphragm plate			
Print Width	54.1 mm(2.1")			
Number of nozzles	1,280 (4 x 320 channels), staggered			
Nozzle spacing (4 color printing)	1/150"(0.1693 mm)			
Nozzle spacing (Row to row distance)	0.55 mm			
Nozzle spacing (Upper and lower swath distance)	11.81mm			
Compatible ink	UV, Solvent, Aqueous, Others.			
Total printhead dimensions	$89(W) \times 69(D) \times 24.51(H)$ mm (3.5" $\times$ 2.7" $\times$ 1.0") excluding cables & connectors			
Weight	155 g			
Max.number of color inks	2 colors	4 colors		
Operating temperature range	Up to 60°C			
Temperature control	Integrated heater and thermistor			
Jetting frequency	Binary mode : 30kHz / Grey-scale mode : 20kHz			
Drop volume	Binary mode: 7pl / Grey-scale mode: 7-35pl *depending on the ink			
Viscosity range	10-12 mPa·s			
Surface tension	28-35mN/m			
Grey-scale	4 levels			
Total Length	248 mm (standard) including cables			
Ink port	Yes			
Number of ink ports	MH5420 : 2 × dual ports / MH5440 : 4 × dual ports			
Alignment pin direction	Front (standard)			

<sup>\*</sup> Results obtained from continuous jetting test using standard Ricoh test ink.

#### ■ Nozzle



#### ■ External dimensions



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