

Industrial Inkjet

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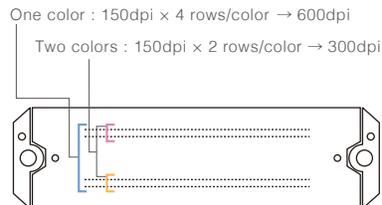
# RICOH MH5220

**This is a print head with drop size of between 2.5 - 9 pl and 600 dpi native resolution.**



## Drop size of 2.5pl and Single-pass 600dpi high-resolution printing and support for multiple ink colors

2.5 pl drop size allows excellent print quality without graininess. 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 two ink colors.



## Support for grey-scale

Achieves excellent gray-scale rendering at up to 4 levels.

\*Although controls for up to 4 scales are provided, actual jetting depends on ink characteristics.

## 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

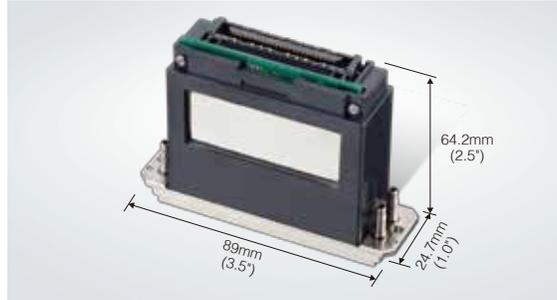
With its built-in heater, these heads are capable of jetting high-viscosity inks. Additionally, the ink path is isolated from the actuator (piezo elements), i.e. no ink contact.

## Variable drop volume capability

Ricoh's open waveform policy allows tailored multi-drop printing of between 2.5 - 9 pl, enabling high quality gray-scale printing.

# Inkjet head with support for multiple nozzles and colors

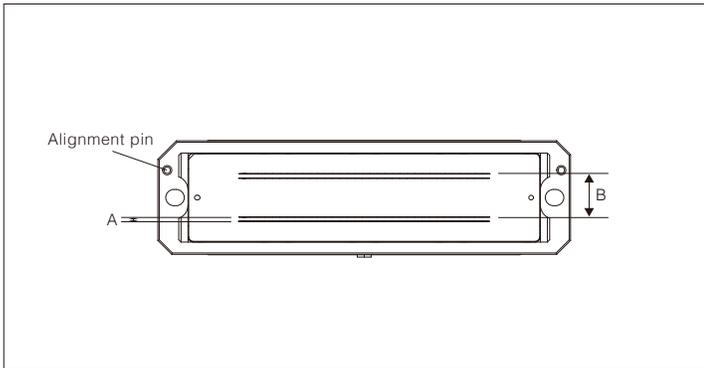
## MH5220



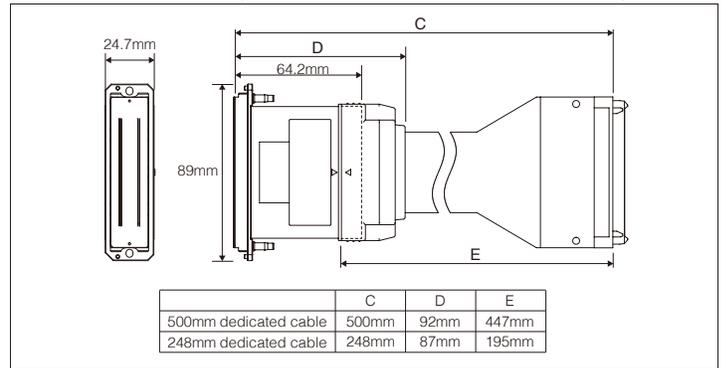
MH5220	
Method	Piston pusher with metallic diaphragm plate
Print Width	54.1 mm(2.1")
Number of nozzles	1,280 (4 x 320 channels), staggered
Nozzle spacing	1/150"(0.1693 mm)
Nozzle spacing A (Row to row distance)	0.93 mm
Nozzle spacing B (Upper and lower swath distance)	9.31mm
Compatible ink	UV
Total printhead dimensions	89(W) x 64.2(D) x 24.7(H) mm (3.5" x 2.5" x 1.0") excluding cables & connectors
Weight	148 g
Max.number of color inks	2 colors
Operating temperature range	Up to 60°C
Temperature control	Integrated heater and thermistor
Life	100 billion actuations per nozzle
Jetting frequency	30kHz
Drop volume	Binary mode: 2.5pl / Grey-scale mode : 2.5-9pl *depending on the ink
Viscosity range	10-12 mPa·s
Surface tension	28-35mN/m
Gray-scale	4 levels
Ink port	Yes
Number of ink ports	2 x dual ports
Alignment pin direction	Front (standard)
Separately sold parts	MH5220 dedicated cable

\* Results obtained from continuous jetting test using standard Ricoh test ink.

### ■ Nozzle



### ■ External dimensions (MH5220 connected to dedicated cable)



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Specifications as of June 2016.