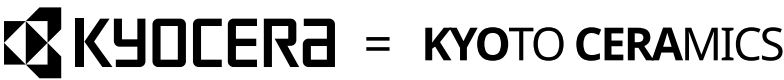


ABOUT KYOCERA

KYOCERA Europe GmbH is a company of the KYOCERA Corporation headquartered in Kyoto/ Japan, a world leader in semiconductor, industrial and automotive components as well as electronic components, printing and multifunction systems, and communications technology. The technology group is one of the world's most experienced manufacturers of smart energy systems, with more than 45 years of industry expertise. The Kyocera Group is comprised of around 300 subsidiaries.

Kyocera produces the piezo actuator, which is the core component in inkjet printheads. The production is based on Kyocera's technical expertise in fine ceramics ever since the company was established in 1959.

With the combination of the piezo technology and printing device technology, Kyocera inkjet printheads have realized high-speed printing, high resolution, grayscale and wide printing width.



PRINTING TECHNOLOGIES

and the resulting synergy

Inkjet printing & UV curing systems

Digital printing offers the advantage of immediate, customizable printing in any quantity while reducing environmental impact by eliminating the liquid waste that occurs in plate-cleaning processes. As a result, the demand for digital printing, including inkjet printing, is rapidly expanding from traditional paper media into new applications such as textiles, food-grade packaging, and building materials.

Thermal printing

The simple structure of Kyocera's thermal printheads facilitates easy-to-maintain thermal printers for essential everyday use in a wide range of applications, from high-speed monochrome printing to full-colour photo printing.

Electrophotography

Amorphous silicon photoreceptor drums provide an opportunity to change the role of the photoreceptor drum from a consumable item to a component with a long product life equivalent to that of the printer. Kyocera's robust product line meets the needs of electrophotographic method printing, from office to high-speed commercial applications.



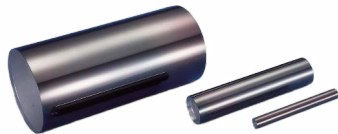
Inkjet printheads



Air cooled LED-UV curing system



Thermal printheads



a-Si photoreceptor drums

A STRONG PARTNER

The global Kyocera corporation



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PRINTHEADS FOR INKJET PRINTING

Key devices beyond the standard

PRINTHEADS FOR INKJET PRINTING

Enabling transformation with eco-friendly inkjet technology

Kyocera's inkjet printheads fulfill a wide variety of requirements – including superior jetting performance – by combining our proprietary fine ceramic materials and advanced flow-channel design technologies.

- ▶ High-performance piezoelectric actuators produce ultra-high speed printing through Kyocera's unique fine ceramic technologies.
- ▶ Flow-channel design technology allows a wider printhead with high resolution.
- ▶ Stainless-steel laminated structure ensures robust operation in demanding industrial applications.

DESIGN CENTER INKJET TEST LAB IN GERMANY

Accelerating new developments

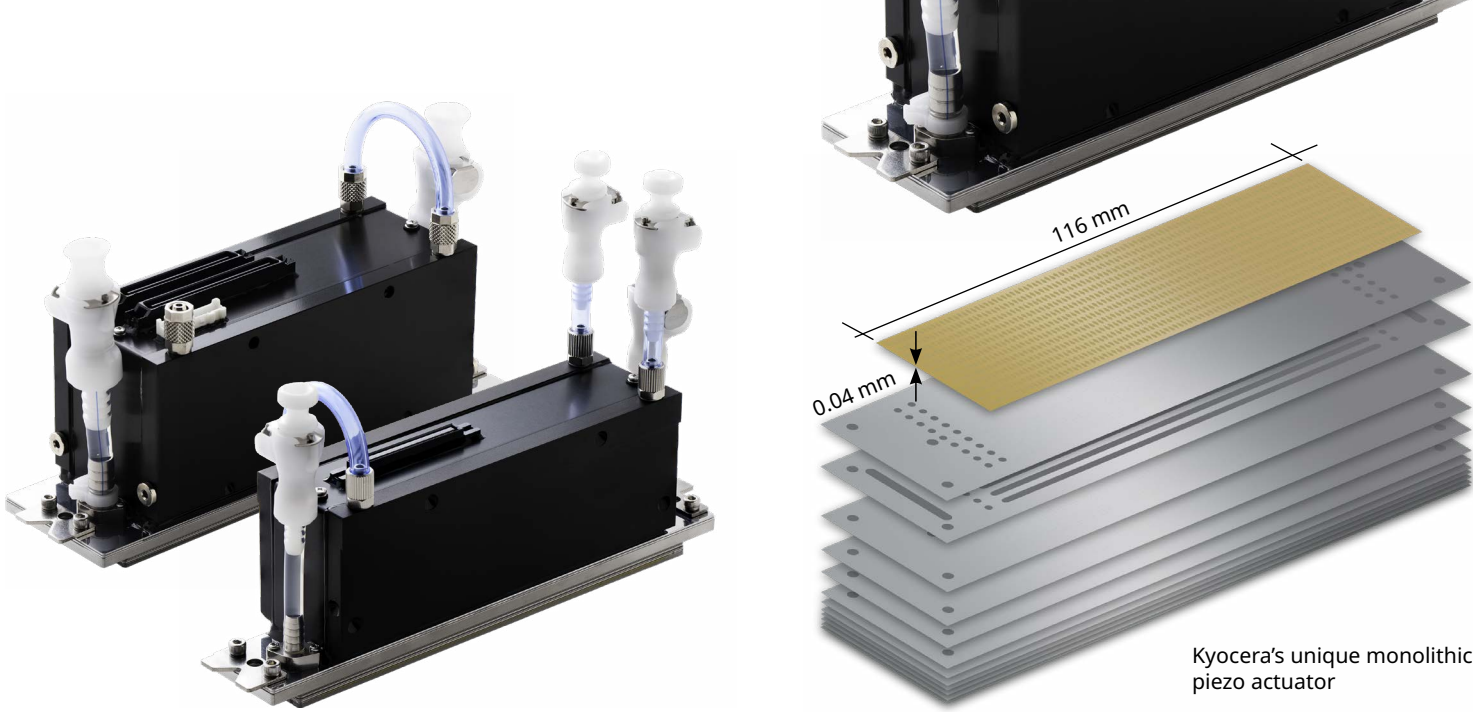
- ▶ Fast and reliable, on-site technical support.
- ▶ Customized solutions to exceed the digital standard.
- ▶ Visit us to experience the world of inkjet printing.



PRODUCT OVERVIEW & TECHNICAL SPECIFICATIONS

NEW EX-SERIES PROMISE TO THE NEXT LEVEL

- ▶ Phenomenal productivity
- ▶ Outstanding print quality
- ▶ High stability



Kyocera's unique monolithic piezo actuator

KJ4B-SERIES



- ▶ designed for high-speed printing of water-based inks
- ▶ optimal for e.g. transaction printing, document printing, textile, MICR printing, 3D printing, building materials and others

KJ4A-SERIES



- ▶ designed for UV-curable inks or other high viscosity inks
- ▶ optimal for e.g. label/package, sign graphics, offset surprint

Model	
Ink type	
Max. drive frequency	[kHz]
Standard resolution	[dpi]
Printing speed*	[m/min]
Min. droplet volume	[pL]
Max. droplet volume	[pL]
Circulation mechanism	
Dimensions (W × D × H)	[mm]
Number of nozzles	
Effective recording width	[mm]
Recommended ink viscosity	[mPa*s]

NEW	NEW					
KJ4B-EX600-RC	KJ4B-EX1200-RC	KJ4B-EX600	KJ4B-1200	KJ4B-0300	KJ4B-YN (YH)	KJ4B-QL (QA)
AQ	AQ	AQ	AQ	AQ	AQ	AQ
40	80	30	64	30	40	30
600 x 600	1200 x 1200	600 x 600	1200 x 1200	300 x 600	600 x 600	600 x 600
101.6	101.6	76.2	81.3	76.2	101.6	76.2
5	2	5	1.5	5	5	5
14	4	16	5	12	12	12
Yes	Yes	-	-	-	-	-
200 x 41.6 x 68.2	200 x 55.5 x 79.1	200 x 25 x 68.1	200 x 58.4 x 79.1	200 x 36 x 68.5	200 x 30 x 69.1	200 x 25 x 57.9
2656	5116	2656	5312	2656	2656	2656
108.33	108.27	108.33	112.42	112.35	108.25	108.25
5.0 - 6.0	5.0 - 6.0	5.0 - 6.0	5.0 - 6.0	5.0 - 6.0	5.0 - 6.0	5.0 - 6.0

*Standard reference value, depends on the conditions.
Enables up to 7 greyscales.
The ink viscosity can be adjusted to the recommended range using the heater in the printhead.

NEW				
KJ4A-EX 1200-RC	KJ4A-0300	KJ4A-RN (RH)	KJ4A-AL (AA)	KJ4A-TL (TA)
UV	UV	UV	UV	UV
64	30	30	20	20
1200 x 1200	300 x 600	600 x 600	600 x 600	600 x 600
81.3	76.2	76.2	50.8	50.8
2	4	3	3	6
4	14	14	17	14
Yes	-	-	-	-
200 x 55.5 x 79.15	200 x 36 x 68.8	200 x 30 x 69.4	200 x 25 x 57.9	200 x 25 x 57.9
5116	2656	2656	2656	2656
108.27	112.35	108.25	108.25	108.25
6.0 - 7.0	6.0 - 7.0	6.0 - 7.0	6.0 - 7.0	6.0 - 7.0