

Arctic Paper Products and Digital Printing

Digital printing is the collective name for a range of printing methods which have in common that text and graphics are transferred directly from computer to paper without any interim media such as printing plates. The digital printing methods can be divided into two main types – laser (xerography) which uses dry toner distributed by electrical charges to generate and transfer the print, and inkjet where drops of a very liquid ink are sprayed onto the paper surface. There are also special techniques which in one way or another differ from these two main types of digital printing methods. HP Indigo is one such example.

Even though the digital printing methods have distinct differences, which put unique demands on the paper compared to the traditional printing methods like offset and flexo, the technical development of both the digital printing machines and paper grades have gone in the direction of multifunctionality. Most new digital printing presses can handle a wide range of papers and many standard papers are, in addition to the traditional printing methods, also compatible with one or several digital printing methods.

Below is an overview of the Arctic Paper product range, with information about which digital printing methods the paper is compatible with.

Multifunctionality of **standard** offset/design/book papers:

Product(s)	Laser (dry toner), colour	Laser (dry toner), b/w	HP Indigo, colour & b/w	Inkjet/HSIJ, colour	Inkjet/HSIJ, b/w
Munken Design	AP guaranteed	AP guaranteed	Limited ¹⁾	Limited	Limited
Munken Premium	Limited	AP guaranteed	Limited ¹⁾	Limited	Limited
Munken Print	Limited	AP guaranteed	Limited ¹⁾	Limited	Limited
Amber Graphic	Limited	Limited	Limited ¹⁾	Limited	Limited
Amber Preprint	AP guaranteed	AP guaranteed	Limited ¹⁾	Limited	Limited
Amber Volume	Limited	Limited	Limited ¹⁾	Limited	Limited
Arctic Matt	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited
Arctic Silk+	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited
Arctic Volume White	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited
Arctic Volume HighWhite	AP guaranteed	AP guaranteed	Limited	Limited	Limited
Arctic Volume Ivory	AP guaranteed	AP guaranteed	Limited	Limited	Limited
Arctic Volume Ice	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited
G-Print	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited
G-Smooth	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited
G-Snow	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited

Multifunctionality of dedicated digital printing papers:

Product(s)	Laser (dry toner), colour	Laser (dry toner), b/w	HP Indigo, colour & b/w	Inkjet/HSIJ, full colour	Inkjet/HSIJ, b/w + spot colour	Inkjet/HSIJ, b/w
Munken Kristall ID	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited	Limited
Munken Polar ID	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited	Limited
Munken Lynx ID	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited	Limited
Munken Pure ID	AP guaranteed	AP guaranteed	OEM certified	Limited	Limited	Limited
Munken Highway Cream	Limited	AP guaranteed	Limited ¹⁾	AP guaranteed	AP guaranteed	AP guaranteed
Munken Highway White	Limited	AP guaranteed	Limited ¹⁾	AP guaranteed	AP guaranteed	AP guaranteed
Munken Kristall Multifunctional ²⁾	AP guaranteed	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Polar Multifunctional ²⁾	AP guaranteed	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Lynx Multifunctional ²⁾	AP guaranteed	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Pure Multifunctional ²⁾	AP guaranteed	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Premium Cream Multifunctional ²⁾	Limited	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Premium White Multifunctional ²⁾	Limited	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Print Cream Multifunctional ²⁾	Limited	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Munken Print White Multifunctional ²⁾	Limited	AP guaranteed	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed
Amber Highway Super	Limited	Limited	Limited ¹⁾	AP guaranteed	AP guaranteed	AP guaranteed
Amber Highway Regular	Limited	Limited	Limited ¹⁾	Limited	AP guaranteed	AP guaranteed

Definitions:

- **OEM certified** = The paper is tested and approved by the Original Equipment Manufacturer, OEM.
- **AP guaranteed** = Arctic Paper guarantees that the paper under normal conditions is compatible with the application. Machine suppliers' recommendations should be observed.
- **Limited** = Compatible only under special conditions, test and own approval by the customer is required. For further information contact the Customer Technical Service at each mill.

Examples of machines within each category:

- **Laser (dry toner), colour:** Xerox iGen, Xeikon, Canon imagePRESS
- **Laser (dry toner), b/w:** Océ VarioStream, Xerox Nuvera, Ricoh Pro
- **HP Indigo, colour & b/w:** HP Indigo 5000, HP Indigo 7800, HP Indigo 12000
- **Inkjet/HSIJ, colour / full colour / b/w + spot colour:** HP T300, Kodak Prosper 5000XL, Océ ColourStream
- **Inkjet/HSIJ, b/w:** HP T200, Kodak Prosper 1000, Océ JetStream, Timson T-Press

Remarks:

- 1) Requires pre-treatment with Sapphire
- 2) Digital printing version of the product (indicated by "Multifunctional" in order documentation) available as special making upon request.