

Natural gradation and vivid colour expression that you've been looking for!

XpertJet 1681SR Pro

1625mm/64" Roll to Roll Eco-Solvent Inkjet Printer



Media width
Max. 1625 mm



CMYKLcLmOrRe



Product Name: XpertJet 1681SR Pro

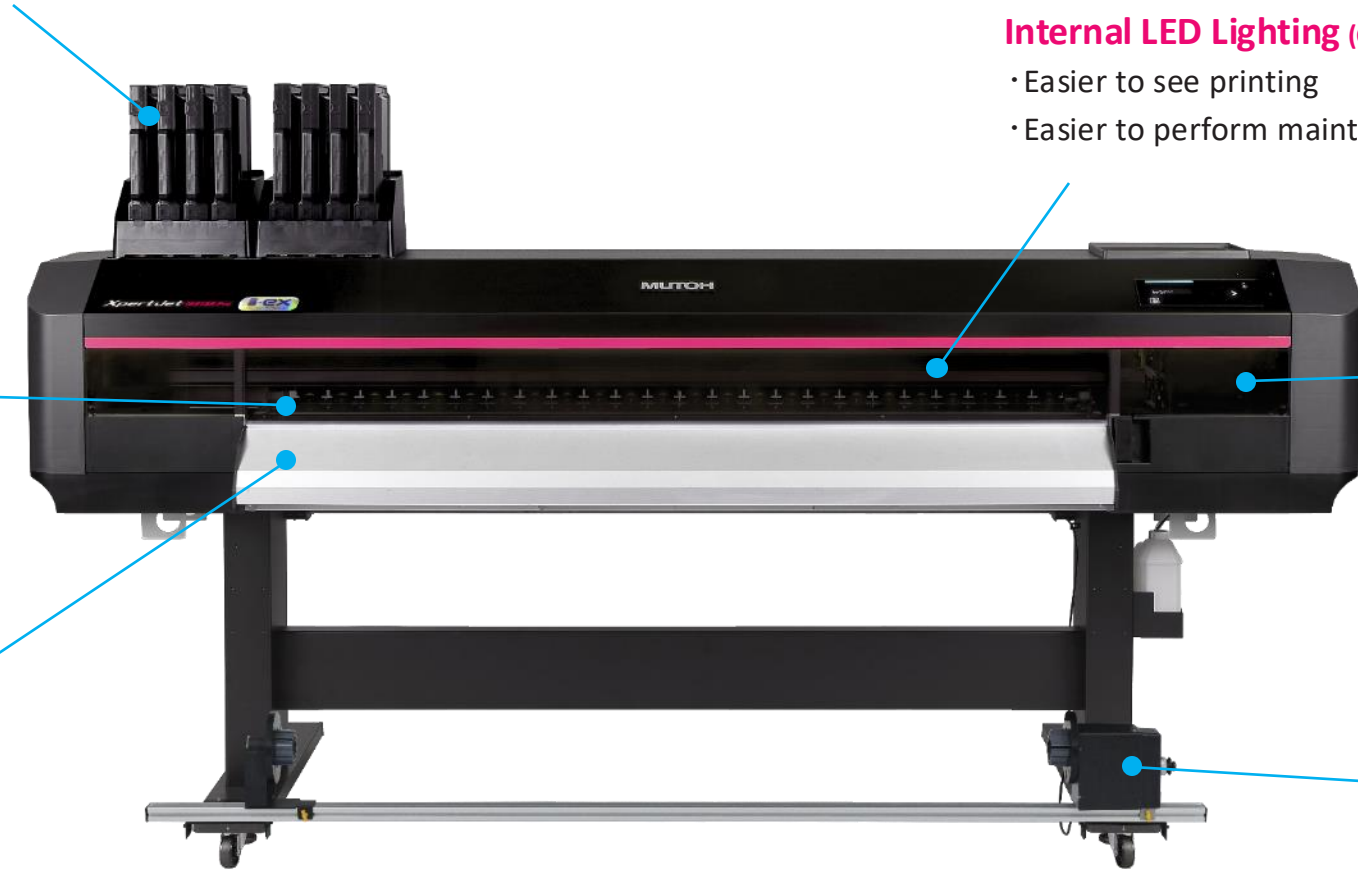
Model Name: XPJ-1681SR-P

Product Overview

XpertJet 1681SR Pro

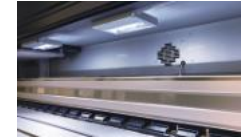
MUTOH Eco-solvent Ink MS51

- **New colours** – Light cyan, Light magenta, Orange, and Red ink – have been added
- 8 colour set (CMYKLcLmOrRe)
- Front access ink holders



Internal LED Lighting (On/Off/Auto)

- Easier to see printing
- Easier to perform maintenance



3-Way Heater

Heats the media to improve image quality or accelerate drying

Flat-type Front Dryer

with good thermal conductivity

Print Head AccuFine HD Pro

- 8 nozzle rows, 8 channels
- 3200-nozzle piezo head
- Single head machine

Take-up Unit (option)

The 30kg take-up unit automatically starts and stops with printing

Typical Applications

XpertJet 1681SR Pro



MS51 Ink

XpertJet 1681SR Pro

- GBL and SVHC free, No Hazard Pictograms
- 8 colours (CMYKLcLmOrRe)
- 1,000 ml Ink pack
- Quick Drying for Fast Turnaround
- Equivalent to 3 Years of Outdoor Durability*¹
- Shelf Life After Manufacturing
CMYK: 18 months, LcLmOrRe: 12 months (TBD.) *²
- VOC low emitting regulations, standards, or protocols*³: UL GREENGUARD Gold, AgBB, A+ (France), Belgium VOC, M1, BREEAM, LEED
- Requires Weekly Maintenance



Gusseted 1,000 ml Ink pack



*¹ These results are based on outdoor durability tests conducted using CMYK inks. Tests for orange or red are currently under way.

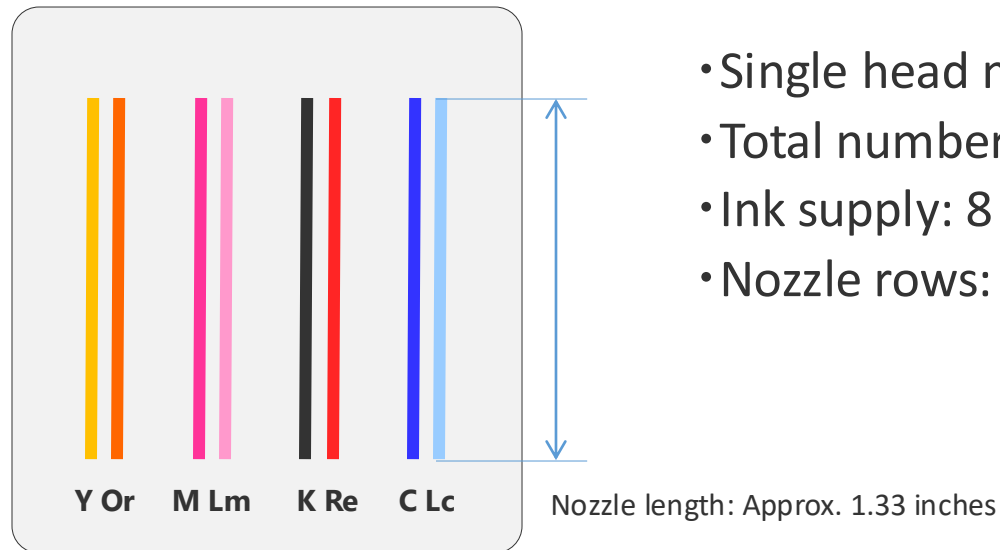
*² Shelf life is based on specifications valid as of March 2026. This is subject to change.

*³ Certifications results are based on CMYK inks valid as of March 2026.

Print Head Configuration

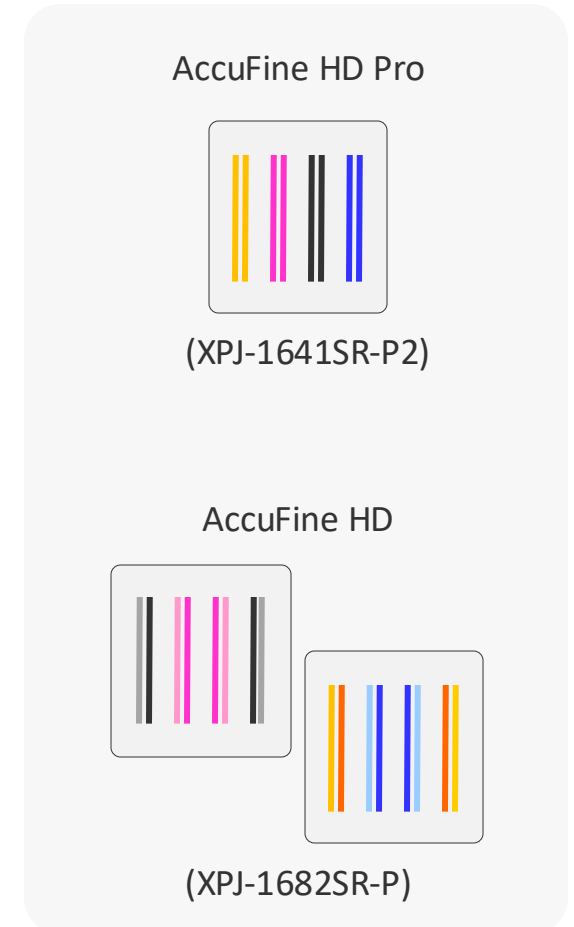
XpertJet 1681SR Pro

8-colour configuration using AccuFine HD Pro print head



- Single head model
- Total number of nozzles: 3200
- Ink supply: 8 channels
- Nozzle rows: 8 rows (400 nozzles)

XpertJet 1681SR Pro

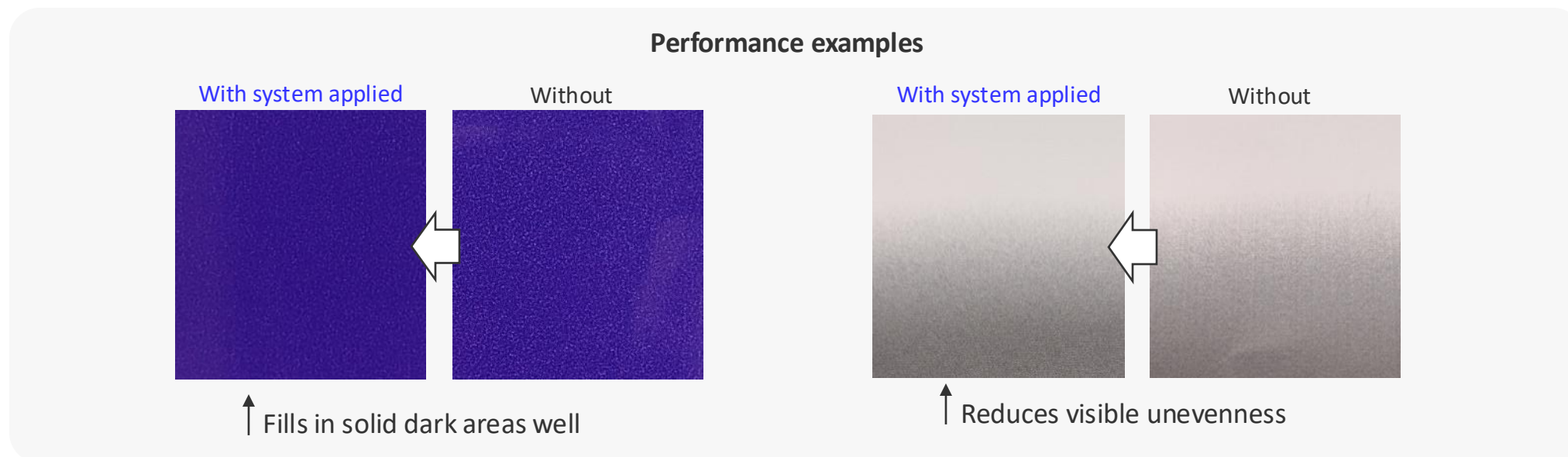


Supports i-screen EX System

XpertJet 1681SR Pro

Improve solid dark areas and banding

- Latest print control system extending the conventional MUTOH Print Server (MPS) technology
- Applies more advanced print effects to printing passes, contributing to higher print quality and faster print speeds



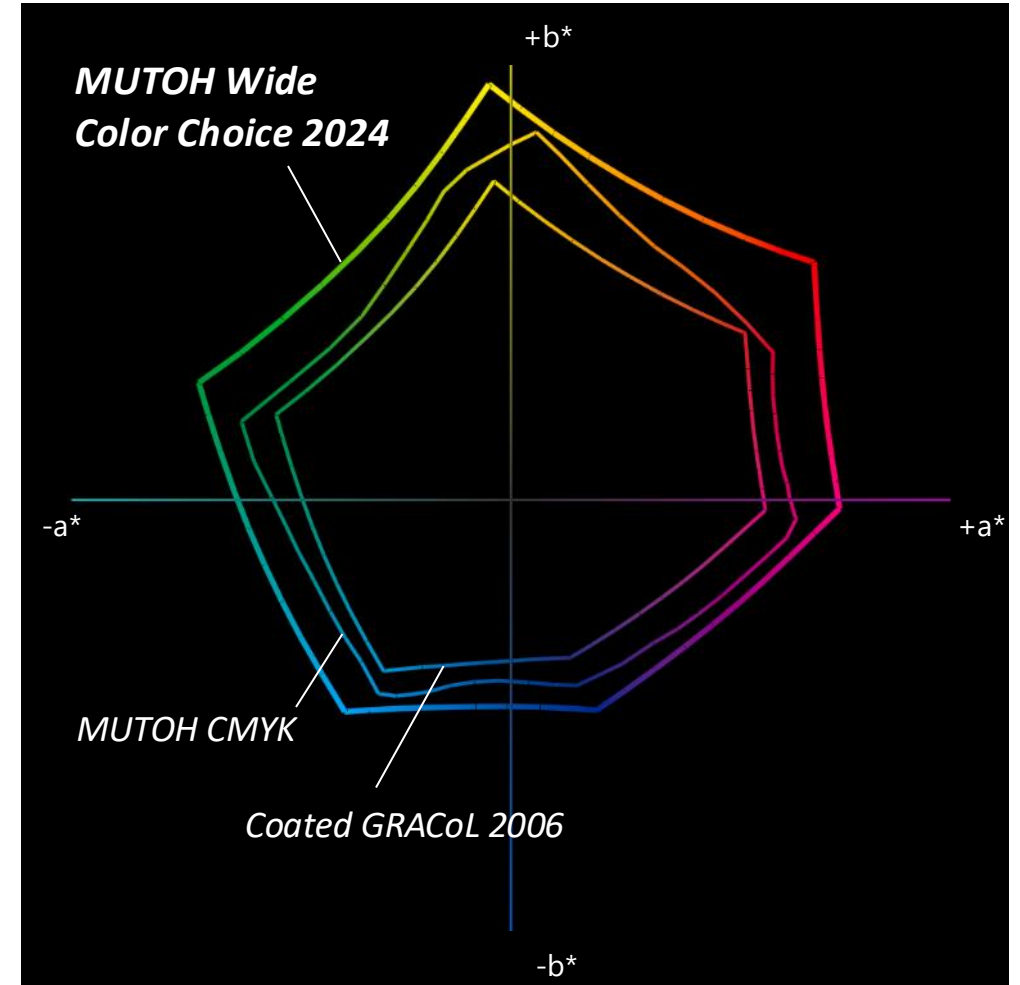
MUTOH Original Colour Profile

XpertJet 1681SR Pro

Specifically designed for more **vivid reds** and **deeper blacks**



- Target Profile MUTOH Wide Color Choice
- A newly developed, original wide colour gamut profile that maximises the performance of the printer and ink



User Comfort

XpertJet 1681SR Pro

DropMaster 2

Automated bi-directional alignment through built-in colour sensor *



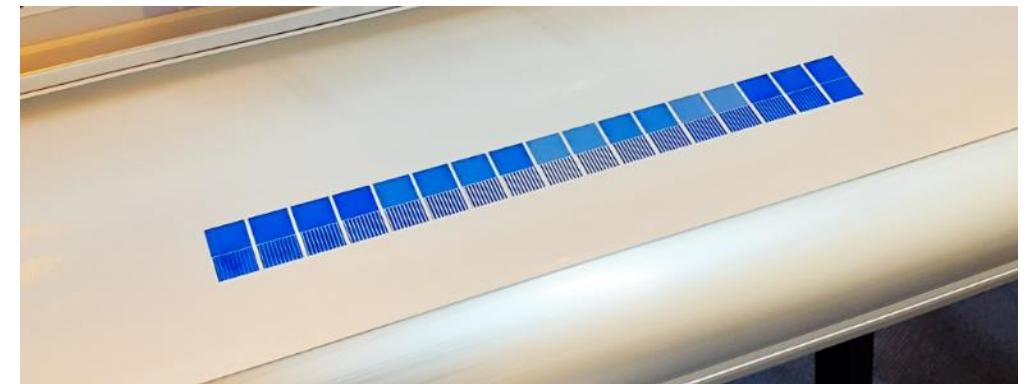
FEED MASTER

Automated paper feed adjustment through built-in colour sensor *



Benefits:

- Save time
- Reduce waste
- Consistent adjustments across operators



* Manual calibration is always possible

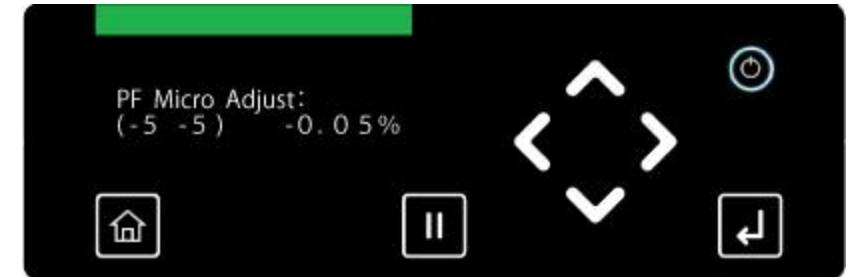
User Comfort

XpertJet 1681SR Pro

Real-time paper feed adjustment during printing

While printing, you can also operate the panel to adjust the feed correction value on the spot while checking the printed output

- Real-time improvement of print quality (reducing banding)
- Reduction of media waste
- Shortening of processing time and increased efficiency



User Comfort

XpertJet 1681SR Pro

30 kg Take-up : IJ-TUP30-01

- 30 kg synchronous torque-controlled take-up system
- Maximum roll-up diameter : **Ø150 mm**
- Gentle handling of thin media – Automatic Start/Stop linked to printing



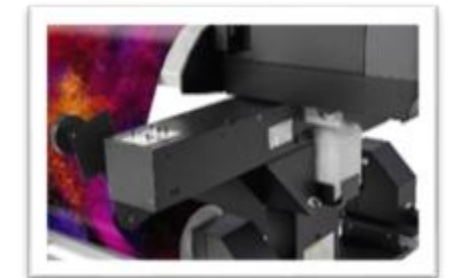
40 kg Take-Up : VJ1619-TUP40

- 40 kg Take-Up system – Stepless speed adjustment
3-Step Torque Setting – Power saving function
- Maximum roll-up diameter : **Ø250 mm**
- Ideal to manage full rolls and/or to print **overnight**



100 kg Take-Up : IJ-TUP100-01

- 100 kg Media Feed and Take-Up system
- Front & rear diameter: **Ø250 mm**
- Ideal to manage maximum capacity rolls and/or to print **overnight**



User Comfort

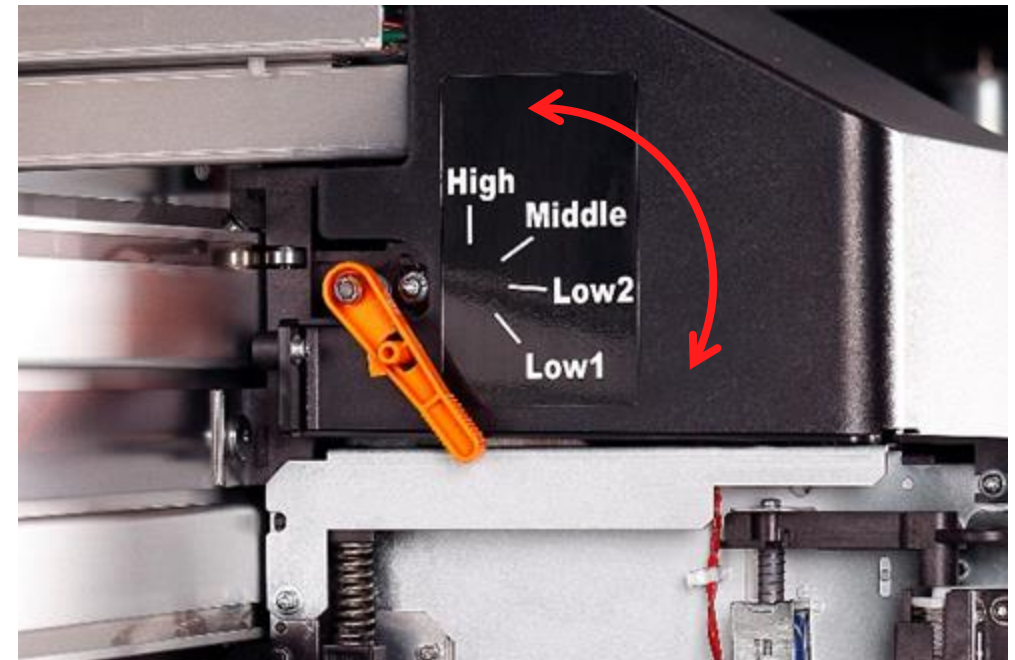
XpertJet 1681SR Pro

One-touch head height change

4-step head height adjustment

Low1 1.5 mm, Low2 2.0 mm, Middle 2.5 mm, High 4.0 mm

One-touch switching is possible with the carriage in home position



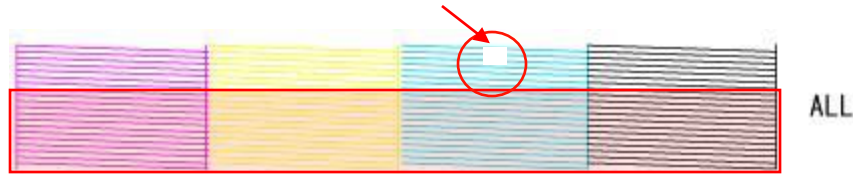
No Downtime – Nozzle Area Selection Feature



Printing temporarily using blocks of active nozzles when clogged nozzles fail to recover

It enables continuous printing with minimal downtime

Confirm nozzle clogging with nozzle check process



ALL : Print using all nozzles (all blocks)

Check the active nozzle block and select the printable block
(Printing can continue without replacing the print head)



A : Print using only the front section of the nozzles

Note

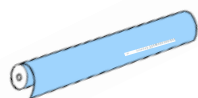
- Printing Speed will be lower than when using all nozzles
- When using this feature, the i-screen EX System is not applied, so image quality may be inferior compared to when using all nozzles
(Planned for future firmware updates and improvements)

User Comfort

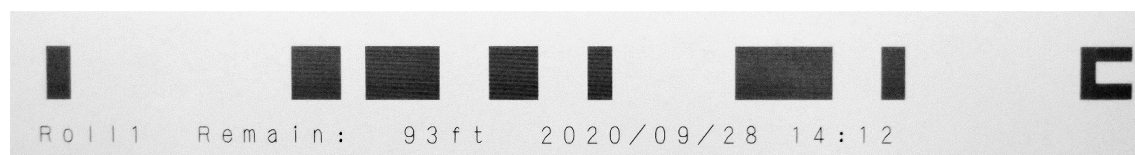
XpertJet 1681SR Pro

Media Tracker

Efficient media consumption with barcode control of the remaining media

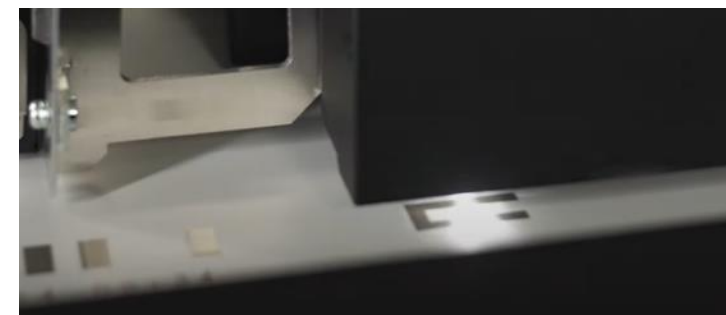


- 1 Enter media length upon loading new media roll
- 2 Print barcode and information text before removing roll
- 3 Upon reloading roll, printer will read barcode and detect how much media is left on roll



* It is also possible to print only text information without printing barcodes

Read the barcode



Product Specifications

XpertJet 1681SR Pro

Product name		XpertJet 1681SR Pro
Model name		XPJ-1681SR-P
Print head	Print method	On-demand piezo drive system
	Head height	Low1: 1.5 mm / Low2: 2.0 mm / Middle: 2.5 mm / High: 4.0 mm (When using the High head height, please replace the wiper unit to High ver.)
	Number	1
Roll media	Roll media width	Maximum: 1,625 mm (Minimum: 500 mm)
	Recommended media thickness	1.0 mm or less
	Maximum media thickness	Low1: 0.3 mm / Low2: 0.8 mm / Middle: 1.3 mm / High: 2.8 mm – Recommended: 1,0 mm
	Outer diameter	≤ Ø200 mm (Printer roll-off) / 30 kg Take-Up: ≤ Ø150 mm / 40 kg Take-Up: ≤ Ø250 mm / 100 kg Feed & Take-Up: Both ≤ Ø250 mm
	Core diameter (inner diameter)	2 or 3 inches
	Media roll weight	30 kg or less (Incorporated printer roll-off) – 100 kg (in combination with 100 kg Feed & Take-Up)
Maximum printable width		1,615 mm
Ink (Ink slots: 8)	Type	Eco-solvent ink MS51
	Colour	8 colours: Cyan, Magenta, Yellow, Black, Light Cyan, Light Magenta, Orange, Red
	Capacity	1,000 ml ink pack
Interface		Gigabit-Ethernet (1000BASE-T) Recommended cable category is 6 or later
Power supply		AC100–120 V (±10 %) (90–132 V) or 200–240 V (±10 %) (180–264 V), Frequency: 50/60 Hz (±1 Hz)
Environmental conditions	Printer operation	Temperature 20–32 °C, Humidity 40–60 % RH (no condensation)
	Accuracy guaranteed	Temperature 22–30 °C, Humidity 40–60 % RH (no condensation)
Power consumption		Operation: 812.0 W or less (Peak: 2.3 kW), Standby: 52.0 W or less, Power off: 4.0 W or less
External dimensions		W 2,770 mm x D 895 mm x H 1,611 mm (with 1,000 ml ink cases installed)
Product weight		174 kg (Printer body: 142 kg, Stand: 32 kg)
Supported RIP software *As of March 2026		ONYX (supported RIP software) Development of other RIP Drivers is in progress (Caldera...) VerteLith (support planned for the future)