

# MUTOH

## XpertJet 1681SR Pro



### 64" Roll-to-Roll Eco-Solvent Inkjet Printer

The XpertJet 1681SR Pro is MUTOH's 64" eco-solvent roll-to-roll printer, engineered for high productivity and consistent, high-quality output in professional large-format production environments. It combines advanced inkjet technology, an expanded colour gamut and intelligent automation to support a wide range of day-to-day production needs.

It is supplied with MS51 in an 8-colour configuration: CMYK + Lc + Lm + Orange + Red, extending the gamut and improving tonal reproduction. Light inks deliver smoother gradations and reduced graininess for refined image transitions and natural skin tones, while Orange and Red reinforce warm hues and red reproduction – supporting more vivid brand colours and higher impact commercial graphics.

### Product Highlights

- **AccuFine HD Pro print head:** Single-head piezo system with 3,200 nozzles, 8 nozzle rows / 8 channels for precise droplet control and high-definition output.
- **Mutoh MS51 eco-solvent ink (EU):** Compliant with key low-VOC indoor air quality schemes<sup>(\*)</sup>: UL GREENGUARD Gold, AgBB (Germany), A+ (France), Belgium VOC, BREEAM, LEED and M1 (Finland), GBL-free ink, no CLP/GHS hazard pictograms
- **8-colour expanded gamut:** CMYK + Light Cyan + Light Magenta + Orange + Red for wider colour gamut and smoother gradation.
- **Enhanced colour reproduction:** More natural skin tones, refined tonal transitions and stronger warm hues; improved brand colour accuracy – especially in reds and oranges.
- **3-way heater system:** Conditions media for optimum, stable ink reception, improved image quality and faster drying.
- **Flat-type front dryer:** Even, efficient heat transfer for consistent drying and reliable results across long runs.
- **Front-access ink system:** Quick ink replacement and straightforward maintenance to reduce downtime.
- **Internal LED lighting**

<sup>(\*)</sup> Certifications & results are based on CMYK inks.



Mutoh Europe | [www.mutoh.eu](http://www.mutoh.eu)



Mutoh Deutschland | [www.mutoh.de](http://www.mutoh.de)



Mutoh North Europe | [www.mutohnorth.eu](http://www.mutohnorth.eu)

# MUTOH



64" Wide



Piezo Variable Drop



Indoor / Outdoor

## Specifications

|  |  |
|--|--|
| Maximum Media Width                                | 1625 mm – 64"  |
| Maximum Print Width                                | 1615 mm – 63.58"   |
| Number of Print Heads                              | 1 AccuFine HD Pro (staggered)  |
| Resolutions  | 900 x 1200 dpi   900 x 900 dpi   900 x 600 dpi   |
| Variable Head Height                               | 1.5 / 2.0 / 2.5 / 4.0 mm   |
| Media Thicknesses                                  | 0.3 / 0.8 / 1.3 / 2.8 mm - Recommended 1.0 mm  |
| Standard non-motorized roll-off system             | Roll-off Ø 200 mm / core 2" and 3" / max. 30 kg  |
| Take-up 30 kg*1                                    | Roll-up Ø 150 mm / max. 30 kg  |
| Take-up 40 kg*1                                    | Roll-up Ø 250 mm / max. 40 kg  |
| Motorized (un-)winder*1                            | Roll-up & Roll-off side Ø 250 mm / max. 100 kg   |
| <b>Productivity</b>                                |  |
| Draft  | 17.04 m <sup>2</sup> /h  |
| Banner   | 12.85 m <sup>2</sup> /h  |
| Production   | 8.47 m <sup>2</sup> /h   |
| Quality  | 6.42 m <sup>2</sup> /h   |
| High Quality                                       | 4.91 m <sup>2</sup> /h   |
| Ex High Quality                                    | 3.14 m <sup>2</sup> /h   |
| Top Engine Speed                                   | 25.06 m <sup>2</sup> /h  |
| <b>Inks</b>  |  |
| Type   | MS51: 8 colours  |
| UV durability*2                                    | Up to 3 years outdoor without lamination   |
| Indoor air quality compliance*3                    | UL GREENGUARD Gold, AgBB (Germany), A+ (France), Belgium VOC, BREEAM, LEED, M1 (Finland) |
| Composition & Safety                               | GBL-free, no CLP/ GHS hazard pictograms  |
| Colours  | CMYK, Light Cyan, Light Magenta, Orange, Red   |
| Ink Containers                                     | 1000 ml ink bag  |
| RIP  | ONYX RIPCenter   |
| External dimensions (with 1000 ml ink cases incl.) | (W) 2770 mm x (D) 895 mm x (H) 1611 mm   |
| Weight   | 174 kg   |
| Body   | 142 kg   |
| Stand  | 32 kg  |

\*1 Three winder types available. Order configuration requires selecting 1 type.

\*2 For heavy duty applications where mechanical stress or environmental impact is involved (floor, vehicle and marine graphics), lamination is required. Stabilisation is required prior to lamination. Outdoor durability tests are conducted using CMYK inks. Tests for orange and red inks are currently underway.

\*3 Certifications & results are based on CMYK inks



### For more vivid reds and deeper blacks!

Introducing **MUTOH Wide Color Choice** - the new input profile that expands the colour gamut and boosts reproduction in previously hard-to-print dark areas.

It unlocks the full potential of MUTOH inks for richer, more accurate colours than ever before.

## Unrestricted Level of Use



Our MS51 ink is certified to leading indoor air quality standards - including UL GREENGUARD Gold, AgBB, A+ France, Belgian VOC, and M1 - MS51 meets stringent low-emission requirements and supports compliance with major building programs such as BREEAM and LEED.

# XpertJet

## 1681SR Pro



## Application possibilities

- Outdoor advertising
- Posters & indoor signage
- Wall graphics
- Vehicle graphics & full wraps
- Window graphics & decals
- High-impact commercial & advertising prints



### New printing control i-screen EX System that realizes high image quality.

By controlling the screen, you can improve the unevenness of solid dark areas and reduce unevenness.



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