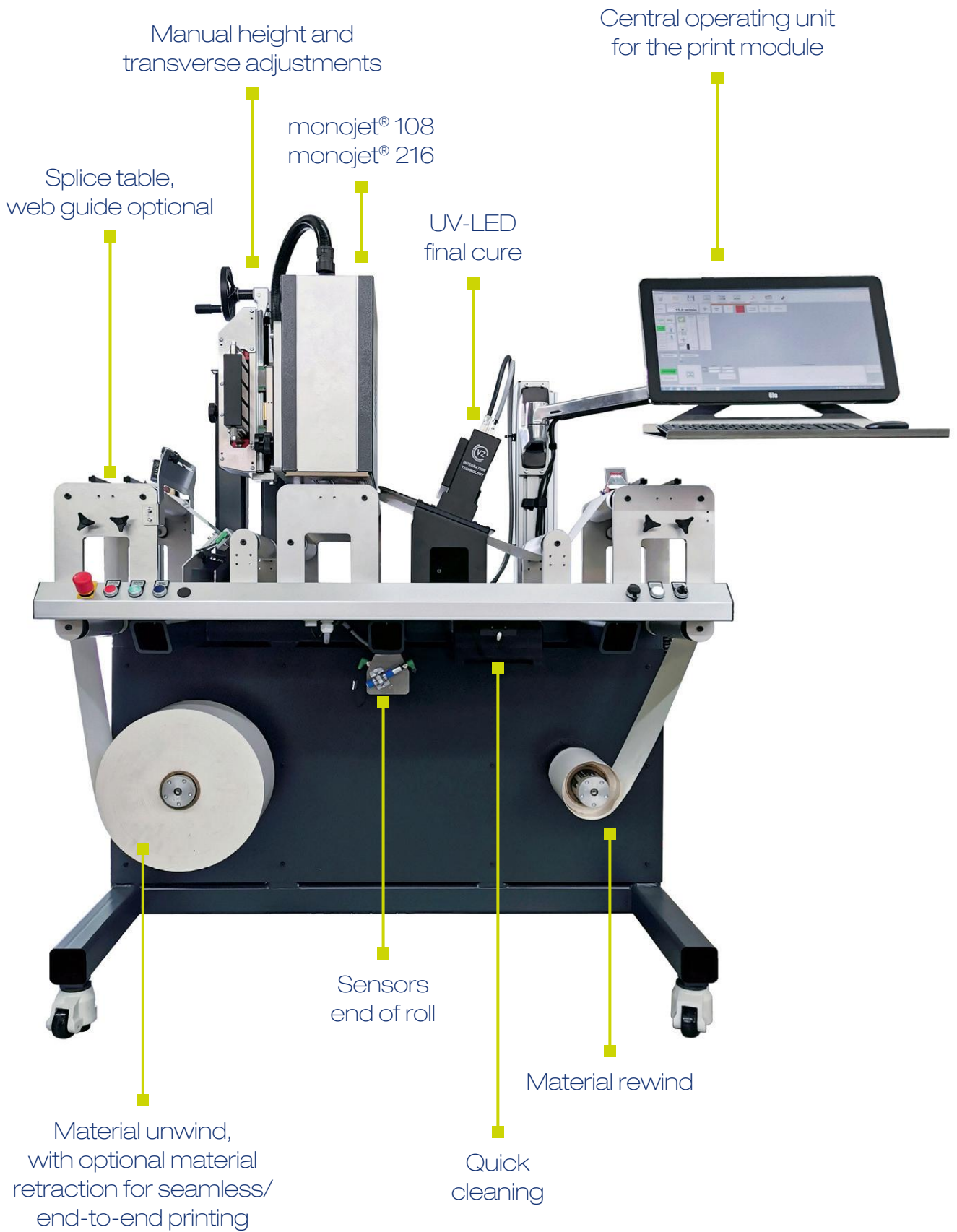




# MJETeco

the highly economical solution for variable data printing



## State-of-the-art UV-LED inkjet printing system

- Simple system, extremely quiet and with exceptional print quality and efficiency because of its clever and compact design
- Print speeds of up to 75m/min (246 ft/min) allow for large number of labels to be produced within a short time
- Resolution up to 1200 dpi, ideal for critical substrates
- Application: late-stage imprint of variable data or small batch runs for pre-cut and/or pre-printed labels (text, barcodes, QR and datamatrix codes). Imprinting of special features for anti-counterfeiting
- Perfect for just-in-time use in industrial areas directly next to the final production line

### The system: compact and powerful

The MJETeco is the smallest machine of the MJET product line and is focused on customizing converted and pre-printed labels. Using the MJETeco as last step for late-stage customization, it is suited to run offline in the print shop or near-line next to, for example, bottling equipment.

Because of its compact dimensions, simple installation, and nearly noiseless operation this machine can be placed anywhere, from an office to the shop floor.

Of course, blank materials up to 250 mm web width (10 in) or materials that are pre-printed but not yet converted can also be printed with the MJETeco up to a print width of 215 mm (8.5 in).

### The technology: uncompromising

In order to build the MJETeco as compact as possible MPRINT forewent anything not absolutely necessary for the printing process except for salient technology. It allows a high degree of variability where necessary, while utilizing the newest servo drive technology integrated into a rugged and low vibration steel frame, combined with a support of highly flexible aluminum profiles. Wide rolls of material with a diameter of up to 500 mm can be processed as easily as small rolls of 20 mm (0.8 in) wide labels. Two splice tables with clamps, an optional web guide, and sensors for print marks or converted label rolls allow for a remarkable ease of operation.



- ① Splice table (web guide optional)
- ② Web clamping
- ③ Print mark sensor
- ④ Label sensor
- ⑤ Operating the base machine

### The print: proven monojet® technology

MPRINT's well-known and proven monojet® is the centerpiece of the MJETeco.

All relevant control components as well as the ink supply are integrated into the actual print engine. This has tremendous advantages because it makes the print engine nearly autonomous from the base machine.

Some of these advantages are the upgrade of the print bar from 108 mm to 216 mm print width when it becomes necessary, or the swap with a print engine for another color (e.g. White) whenever required.



Of course, the outstanding print quality for which the monojet® technology is known remains untouched. The monojet® contains a manual quick cleaning system for a fast and safe cleaning of the print heads. Its ease of use reduces the time needed for a head cleaning while preventing damage to printheads through misuse. The UV-LED curable inks are well suited to print on conventionally (flexo, offset) or digitally (dry or liquid toner, UV inkjet) pre-printed labels.

### The Curing: future-proof with UV-LED

The monojet® integrated into a MJETeco offers several options for the fast and safe pinning and curing of the print image:

- UV-LED pinning unit, integrated in the monojet® housing, saves space
- Powerful, air-cooled UV-LED final curing unit
- Thanks to the UV-LED ink and curing technology the printing system is completely mercury-free and does not produce any ozone, therefore making a complicated exhaust obsolete.

### The software: all-inclusive

The comprehensive software package provides the printer control all functionality required to print variable information or flood coat a label. An interface



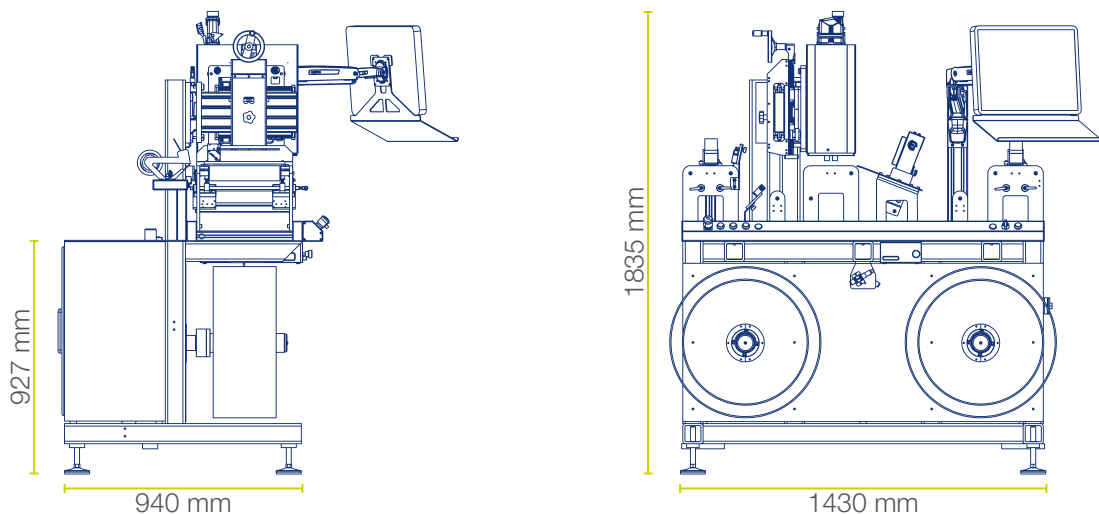
for PDF print files allows the use of a wide range of standard software apps.

- Full multipage PDF functionality to continuously print up to 2.5 million PDF pages
- Integrated RIP with several adjustable parameters to process static elements
- Integrated editor to design and define variable data fields, such as barcodes, datamatrix and QR codes, number ranges, variable images, text, as well as complex text/number combinations
- Connection to the local network to process automatically provided data via TCP/IP interface
- Generating and saving of job specific templates incl. all process relevant parameters in a job library
- To ensure highest machine uptime MPRINT can access the control remotely when necessary to potentially correct operator mistakes or adjust machine settings

# MJETeco – technical data

<b>Print technology:</b>	Single pass UV inkjet technology (DoD Piezo)
<b>Ink system:</b>	UV-LED inks (low migration UV inks available)
<b>Physical resolution:</b>	600 x 600 dpi (a higher resolution in feed direction is possible if the print speed is reduced)
<b>Print width:</b>	monojet® 108: 108mm (4.25 in); monojet® 216: 216mm (8.5 in)
<b>Drop sizes:</b>	3, 7, 11, 14 pl
<b>Print speed:</b>	3 m/min to 75 m/min (10 – 246 ft/min) with max. resolution (reducing the print resolution increases the print speed)
<b>Inks supply:</b>	Integrated ink bag, optional bag-in-box
<b>Pinning/Curing:</b>	integrated UV-LED pinning system for initial arrest of ink flow, powerful UV-LED final curing system (air cooled)
<b>Cleaning:</b>	innovative quick cleaning incl. sealing unit with integrated inks tray and wipers
<b>Printable materials:</b>	Self-adhesive materials (also pre-cut labels), paper, film
<b>Material width:</b>	20 - 250 mm (0.8 – 10 in)
<b>Material thickness:</b>	30 - 500 µm (1.2 – 19.7 mils)
<b>Max. roll diameter:</b>	500 mm (20 in)
<b>Shaft diameter:</b>	76 mm (3")
<b>Web drive:</b>	Servo motors
<b>Operation:</b>	User-friendly HMI with touchscreen
<b>Operating languages:</b>	German, English, French (other languages on request)
<b>Software:</b>	Own software development, software license includes all current extensions at the time of ordering, e.g. <ul style="list-style-type: none"> <li>• Multipage PDF (up to 2.5 million pages)</li> <li>• Batch processing of multiple jobs in queue</li> <li>• Combination of static image and variable data</li> <li>• Creating various layouts</li> <li>• Generation of variable barcodes from CSV files</li> </ul>
<b>File formats:</b>	pdf, tif, bmp, eps
<b>Barcode types:</b>	All popular barcode types can be generated in the print software
<b>Standard configuration:</b>	Unwind; splice table; print sensor; label sensor; monojet® print engine; air-cooled UV-LED curing system; splice table; rewind (left or right turn selectable)
<b>Options:</b>	Web guide; material retraction for seamless/end-to-end printing; web inspection; slitter; heavy-duty rolls
<b>Air supply:</b>	6 bar (~87 psi), dry, clean
<b>Ambient temperature:</b>	18 - 28 °C (64 - 82 F)
<b>Electrical connections:</b>	3 x 400 VAC / N / PE / 50 Hz / 16 A, with 16 A CEE plug

## Dimensions:



DIGITAL PRINT  
SIMPLE.  
INTUITIVE.  
POWERFUL.



[www.mprint.de](http://www.mprint.de)



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