

# LEIBINGER

MI  
Micro  
Printing

100%  
protection  
**SEALTRONIC**  
trouble-free startup,  
every time



UP grade your  
marking process

**JET3 UP**

**MI**

Industrial Inkjet Printer

# 1

## Do you need...

- ... a fast and easy method to mark the smallest of products with precision?
- ... an uncomplicated marking system for fine imprints without hidden costs?
- ... German name brand quality and engineering service?

# 2

## Are you tired of...

- ... losing valuable production time because your inkjet printer has to be cleaned often, is not available or the ink is dried out in the printhead?
- ... being unable to sell your products due to faulty or poor-quality coding or even having it result in expensive recall measures?
- ... your operating costs constantly rising due to the high cost of consumables, energy and service?

# 3

## Do you expect...

- ... a high-performance and 100% reliable device that is ready to use immediately and at any time?
- ... a wide range of practical functions that ease your everyday production and automation?
- ... fast, fair and transparent service – worldwide?



### Continuous inkjet printer (CIJ)

**LEIBINGER inkjet printers** code **all conceivable products and materials**, such as plastic, glass, wood, metal, ceramic, technical composite material, cardboard and paper **without making contact** using **fixed** and **variable data**. Examples of applications include expiration dates, LOT/batch numbers, serial numbers, barcodes, 2D codes and graphics. **Special inks** are used that dry in less than one second. The marking process takes place during production **speeds** up to 10 m/s (36 km/h). **Various product surfaces** do not pose a challenge for the LEIBINGER inkjet printer, regardless of whether they are convex, concave, rough, smooth, flat or structured. Non-contact marking and fast product processing make CIJ technology the most flexible, versatile and cost-effective method of marking products.

LEIBINGER  
has the answer:

THE JET3up MI  
INKJET PRINTER

The reliable solution for  
Micro Printing

# The advantages are obvious!

## Maintenance-free starting without cleaning – guaranteed!

Automated **Sealtronic** nozzle seal. No drying out of ink in the printhead. Ready to print immediately, even after long shut-down periods.

## Reliable production

Consistent prevention of downtime. No daily service work, no forced stops due to scheduled service intervals. 100% availability.

## Made in Germany

Development and production in Germany. Highest level of inhouse production. Decades of experience in precision engineering. German ingenuity. High-quality materials. Premium industrial product.

## No wait times – ready for operation immediately

The **Clean Instant Start and Stop Technology** is used to make the JET3up MI ready for printing in only a few seconds. Always a clean printhead with any number of start and stop cycles.

## More than 2,000 products/minute\*

Marking up to 10 m/s (36 km/h)!

## Intuitive operation

Easy and fast, like your computer at home. Color 10.4" touch-screen display. Windows-based, customizable user interface. Optimized menu navigation.

## Low operating costs

Low ink consumption through small drop size. No solvent consumption during pauses in production, thanks to **Sealtronic**. Minimal solvent consumption via Solvent Recycling System **EcoSolv** (optional). Low maintenance costs. No replacement of expensive modules.

## Countless functions without additional costs

All interfaces and over 800 software functions are standard. Easy integration into the production line. Free lifetime software updates!



**CUSTOMERS REPORT:**

Over 70 million imprints in a real production environment with LEIBINGER printers without having to clean them even once!

## Maximum print quality, wide range of applications

Accurate placement of ink drops using **Drop Position Control**. High-precision and high-contrast printouts. Fixed and variable data such as technical data, special characters, serial numbers, barcodes, 2D codes, graphics and much more.



\* Depending on print type and content

# One printer – infinite possibilities: The JET3up MI from LEIBINGER



Up to 5 lines in various fonts and languages. Fixed and variable data on the smallest of products.

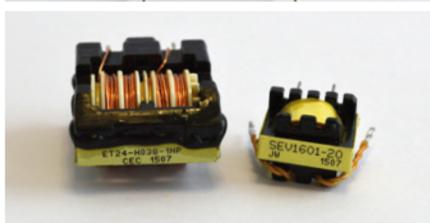


Remote access for tablet and smartphone



## Where do you want to make your mark? The JET3up MI prints on the smallest of products

Technical data, special characters, serial numbers, barcodes, 2D codes, graphics and much more – the JET3up MI marks with precision on the smallest of spaces.



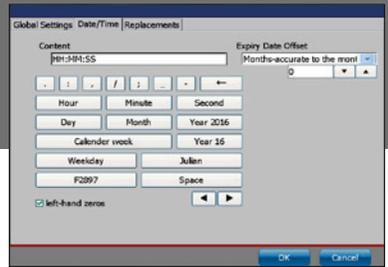
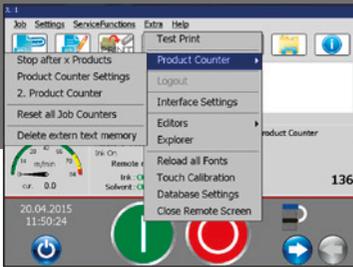




# The JET3up MI: Easy, intuitive and reliable

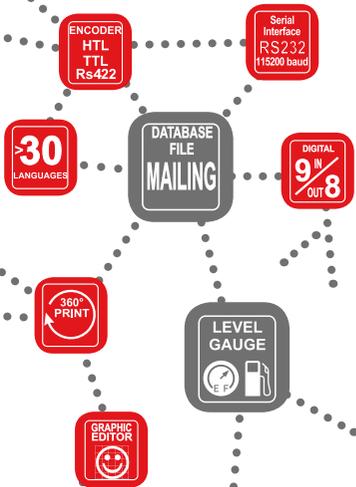
With its large 10.4" touch-screen color display and Windows-based user interface, the JET3up MI is just as easy to use as your computer at home:

- » Typical functions such as drag and drop
- » Illustrated operator instructions
- » User-defined interface with buttons for direct access



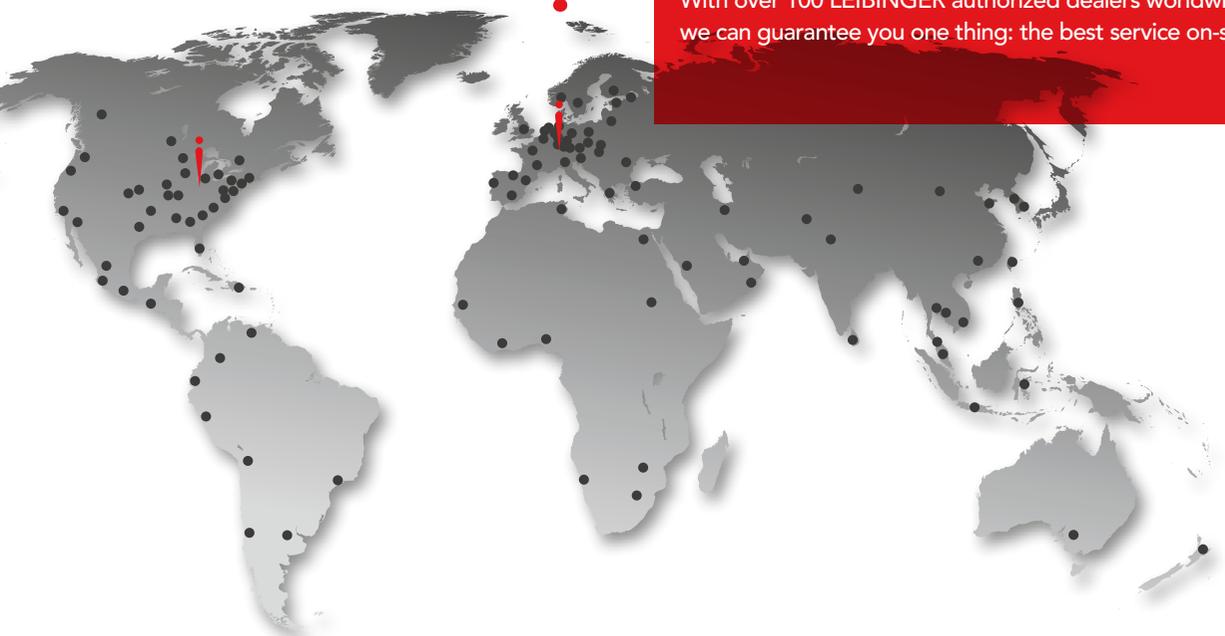
## Increase your efficiency and lower your costs

- » Extremely low energy consumption (A+++)
- » Easy automation integration through a wide variety of interfaces
- » 8 years guaranteed replacement part availability
- » Easy, cost-efficient maintenance and long service intervals
- » No external compressed air, no air filters
- » Minimal solvent consumption using **Solvent Saving Mode**, **Sealtronic** and the **EcoSolv** option
- » Low ink consumption through small drop size
- » Consistent prevention of production interruptions using LEIBINGER technology
- » Free software updates



## We are there for you – worldwide!

With over 100 LEIBINGER authorized dealers worldwide, we can guarantee you one thing: the best service on-site.



# Technical specifications

## PRINT PERFORMANCE/FUNCTIONS

- » Printing speed up to 10 m/s (600 m/min)
- » Printing height 0.8 to 12 mm, depending on nozzle size
- » Country and industry-specific fonts: Arabic, Cyrillic, Chinese, Persian, etc.
- » Fonts: from 5x5 to 32x20, special fonts, user-programmable fonts, tower printing
- » Multi-line fonts (1 to 5 lines)
- » Fonts and graphics can be positioned and combined in the print jobs as desired
- » Proportional function for all fonts
- » Font height and font width adjustable
- » All major barcodes and DataMatrix codes (ECC200), GS1 DataMatrix (EAN/ECC), QR-Code, PPN-Code
- » Time, auto-adjustable date, auto-adjustable expiration date, weekdays, calendar weeks, Julian calendar, shift identification
- » Replacements: all date, time and counter functions can be replaced and user-programmed
- » 32 individually programmable counters, consecutive numbering, production counter, meter marking with "Meter Go" function
- » User-programmable graphics/logos can be created in the integrated editor
- » Multi-stage contrast and bold function, print repetition, print delay, backward print, rotation/mirroring of font, inverse, reverse and alternating prints (object-related)
- » Dynamic backward printing, for traversing lines
- » Programmable batch production and interlinking of multiple jobs
- » "External text" function via scanner or data interface
- » Printing variable data from external files via USB stick or data interface
- » Stop function after reaching preselected value
- » Product jam detection / monitoring of product alignment
- » Autostart function
- » Prompt function (fast edit)
- » Solvent Saving Mode
- » Self-test function

## DATA ADMINISTRATION/SECURITY

- » Data buffer in case of power failure
- » File Explorer
- » Print jobs saved with printing data and machine parameters
- » Printer data logging, production run logging
- » Up- and download of jobs and graphics using USB stick or network
- » Job select (1023 jobs selectable from scanner or PLC)

## OPERATION/DATA INPUT

- » 10.4" colour TFT touch-screen display (SVGA)
- » Creating and editing jobs during production
- » Customizable user interface
- » Available menu languages: European languages, Arabic, Chinese, Vietnamese, Thai, Korean, Cyrillic, Persian, etc.
- » Integrated font and graphic editor
- » Illustrated operator instructions
- » Alternative control using the data interface (serial or Ethernet)
- » Country-specific on-screen key pad
- » Operational available by mouse or keyboard
- » Comprehensive self-diagnostics and status display with easy-to-understand text, help function, printer status display
- » Storage of numerous jobs and graphics
- » Password function and service menu
- » Windows based interface, WYSIWYG, real-time updating of display
- » Remote control over VNC

## INTERFACES, INPUTS/OUTPUTS

- » Product detector PNP/NPN 24V, FIFO buffer
- » Shaft encoder input for printing speed synchronisation (TTL 5V, HTL 24V, RS422, 5V)
- » 9 digital inputs and 8 outputs, user-selectable
- » Printer alarm, low fluid, print ready, print finished, external job selection etc.
- » Serial interface RS232 up to 115200 baud
- » USB port
- » Ethernet (industry standard M12D), script protocol
- » Sensor for product monitoring and speed measurement
- » Option: Special interface to connect several printers

## LEIBINGER HYDRAULIC SYSTEM

- » Low maintenance, diaphragm pumps with optimized run time
- » Fully automatic viscosity and pressure control
- » Thermally isolated hydraulics
- » No external supply of compressed air is required
- » Automatic daily interval function (Auto ink circulation)
- » EcoSolv – Solvent Recycling System (optional)

## PRINT HEAD

- » Flexible umbilical, length: 3 m or 6 m
- » Stainless steel cabinet
- » Fully automatic nozzle and gutter seal "Sealtronic"
- » Fully automatic drop charging, drop break off control
- » Nozzle size from 35 µm to 40 µm
- » Upside down - 360° operation
- » Safety switch for print head locking
- » Options: Head ventilation, 45° to 90° bent umbilical, various print head versions
- » Automatic inkjet monitoring

## FLUID RESERVOIRS

- » Capacity of the ink and solvent tanks are 1.3 liters, refillable while printing
- » Level gauge with fully automated monitoring
- » Remaining prints are displayed

## INKS

- » Ink consumption: up to 270 million characters/l. (matrix 5x5/nozzle 35 µm)
- » Solvent consumption: Can be reduced to 4 ml/h using EcoSolv option (depending on nozzle size, type of solvent and ambient temperature)
- » Fast drying inks (<1sec)
- » Ink color: black

## WEIGHTS AND PROTECTION CLASS

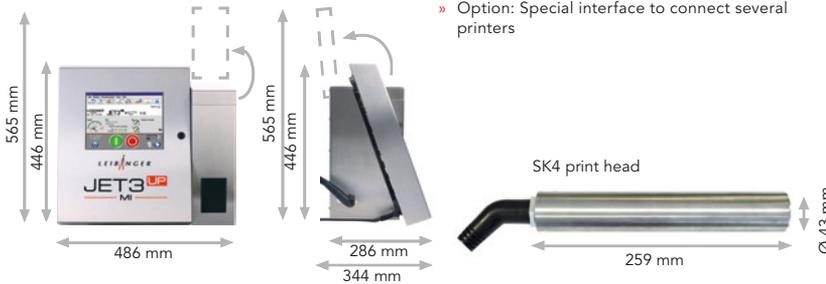
- » Weight: print head 1.5 kg, cabinet 20.5 kg
- » Protection class: IP 54 (option: IP 65)

## SUPPLIES AND ENVIRONMENTAL CONDITIONS

- » 100-240 V, 50-60 Hz, typical 20 VA
- » Temperature range +5°C to +45°C
- » Relative humidity max. 90%, non-condensing
- » No external air pressure necessary

## ACCESSORIES

- » Product detector, shaft encoders, printer stand, print head bracket, alarm lamps etc.
- » Software for remote control, multi-head control



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