

Technical specifications

PRINT PERFORMANCE/FUNCTIONS

- » Printing speed up to 10 m/s (600 m/min)
- » Printing height 1.5 to 16 mm, depending on nozzle size and head type
- » 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
- » Multistage 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 of external files from USB stick or data interface
- » Stop function after reaching preselected amount
- » 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
- » Explorer
- » Print jobs saved with printing data and machine parameters
- » Data logging, production protocol
- » 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, etc.
- » Integrated font and graphic editor
- » Illustrated operator instructions
- » Alternative control using the data interface (serial or Ethernet)
- » Country-specific on-screen key pad
- » Operation also by mouse or key board
- » Comprehensive self-diagnosis 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

LEIBINGER HYDRAULIC SYSTEM

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

PRINT HEAD

- » Flexible umbilical, length: 3 m, optional: 6 m or 10 m
- » Stainless steel body
- » Fully automatic nozzle and gutter seal "Sealtronic"
- » Fully automatic drop charging, drop break off and inkjet control
- » Nozzle size from 50 to 70 µm, depending on the model
- » Upside down - 360° assembly
- » Safety switch for print head locking
- » Options: Head ventilation, 45° to 90° bent umbilical, various print head versions
- » Automatic ink jet monitoring

FLUID RESERVOIRS

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

INKS

- » Ink consumption: up to 160 million characters/ltr. (matrix 5x5/nozzle 50 µm)
- » Solvent consumption: Can be reduced to 1.2 litre using EcoSolv (depending on nozzle size, type of solvent and ambient temperature)
- » Several dye-based inks and soft pigmented inks
- » Fast drying inks (<1sec)
- » MEK, ketone-free, alcoholbased inks
- » Ink colours (black, yellow, red, blue, green, grey, etc.)
- » Temperature and transfer-resistant inks
- » Security, colour changing, sterilisation, adhesive and alcohol resistant inks, fluorescent
- » Food-grade ink and food packaging inks
- » Customized inks, functional inks

WEIGHTS AND PROTECTION CLASS

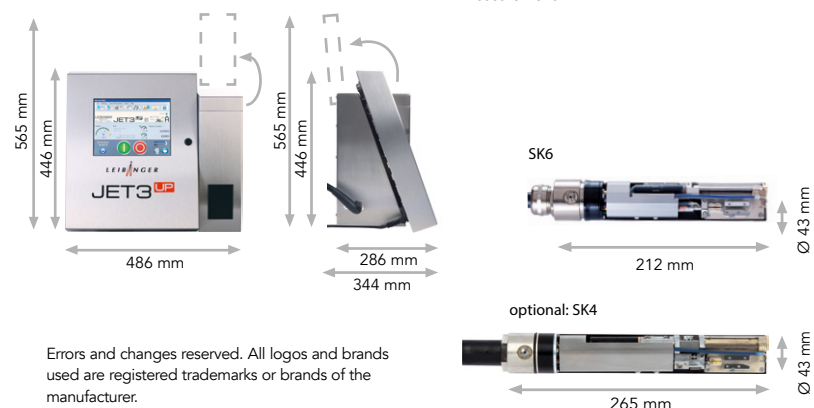
- » Weight: print head 1.5 kg, cabinet 20.5 kg
- » Protection class: IP 54

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



UPgrade your marking process



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JET3up-A-001

Industrial
Inkjet Printer

JET3

UP

1

Do you need...

- ... a fast and easy method to mark products flexibly?
- ... an uncomplicated marking system 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 use your batch 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 practically oriented functions that ease your everyday production and automation?
- ... fast, fair and transparent service – worldwide?

LEIBINGER
has the answer:

THE JET3up
INKJET PRINTER

The reliable solution for all
of your requirements



Continuous inkjet printer (CIJ)

LEIBINGER inkjet printers label **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, barcodes, 2D codes or even graphics. Special inks are used for this that dry in less than one second. The marking process takes place during running production at **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.

The advantages are obvious – benefit from them!

Maintenance-free starting without rinse cycles – 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 downtimes. No daily service work, no forced stops due to scheduled service intervals. Nearly 100% availability.

Made in Germany

Development and production in Germany. High production depth. Decades of experience in precision engineering. German engineering ingenuity. High-quality materials. Premium industry product.

No wait times – ready for operation immediately

The **Clean Instant Start and Stop Technology** is used to make the JET3up 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 on your computer at home. Color 10.4" touch-screen display. Windows-based, customizable user interface. Optimized menu navigation.

Low operating costs

No solvent consumption in production shutdowns using **Sealtronic**. Minimal solvent consumption via Solvent Recycling System **EcoSolv**. Low maintenance costs. No replacement of expensive assembly units.

Countless functions without additional costs

All interfaces and over 800 software functions included ex works. Easy integration into the production line. Lifetime, free software updates!

CUSTOMERS REPORT:

Over 14 million printouts in a real
production environment without
needing to clean the printer 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 fonts, barcodes, LOT/batch numbers, 2D codes, expiration dates, graphics and much more.



* Depending on print
type and content

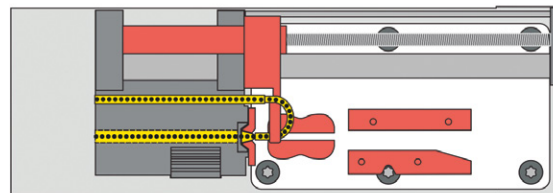
Sealtronic makes the difference

The automated Sealtronic nozzle seal is one of a kind

- » due to its accurate precision engineering.
- » in its operating principle.
- » in its effectiveness.

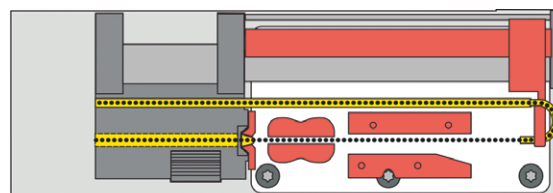
LEIBINGER printhead with nozzle seal

The gutter is moved to the nozzle automatically when shutting down the printer, forming a hermetically sealed, airtight circuit. The result: 100% secure protection from ink drying out!



Switched-off LEIBINGER printer

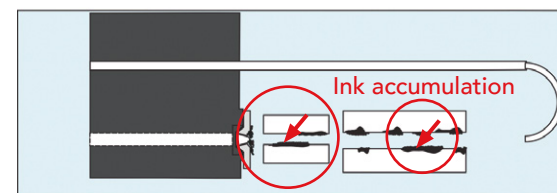
Still closed, the stream of ink builds up in a stable manner. Then, the gutter starts up automatically. This happens within a few seconds and guarantees a fast and error-free start. The printhead remains absolutely clean in this process.



LEIBINGER printer in the startup phase

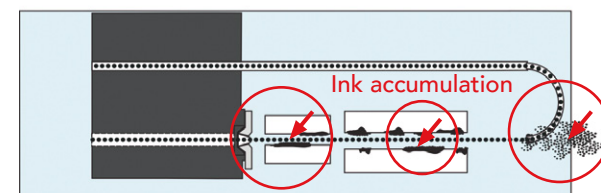
Conventional printhead without nozzle seal

Nozzle and gutter are open. The remaining ink is exposed to the air unprotected and dries out. This causes problems the next time the printer is started.



Switched-off conventional printer

The conventional design causes an unchecked buildup of the ink stream. The result: the printhead gets dirty regularly and there is an initial scattered „spitting“ of ink. Thus, the printhead already starts to get dirty right after starting.



Conventional printer in the startup phase

The advantages for production

- » Immediate, reliable starting
- » No delays in the start of production
- » No cleaning cycle required
- » No production interruptions
- » Long availability



One printer – infinite possibilities: The JET3up from LEIBINGER



Up to 5 lines in various fonts and languages. Fixed and variable data.

Where do you want to make your mark? The JET3up can be used anywhere

Fonts, barcodes, LOT/batch numbers, 2D codes, expiration dates, counters, graphics and much more – the JET3up can be used in any industry and for any marking task.



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