

JET One: Continuous inkjet technology for high-flyers



JET ONE

JET One offers everything you need at an attractive price. With the JET One, CIJ makes total sense for even more applications. The combination of the best product quality, the highest level of reliability and an unique and broad set of features to run your production more efficiently than ever. The JET One comes with our unique Sealtronic print head technology included. It makes choosing the JET One a no-brainer. Flexible, dynamic, economical.



JET One Specifications

JET ONE



→ Printing performance and function

Always in the lead.

The JET One offers the capability to code a wide-variety of products and substrates with fixed and variable messages, such as best-before dates, lot numbers and even graphics. Up to two lines, using black ink and with the Sealtronic print head technology, the system will run for months without maintenance.

→ Hydraulic concept

Highly efficient to operate.

It eliminates the need for maintenance-intensive, continuously operating gear pumps. In contrast, our low-maintenance diaphragm pump is only triggered at optimized intervals and remains thermally isolated from the electronics unit. Fully automated viscosity and pressure controls give you the reliability and constant quality you would expect from a Leibinger solution.

→ Operation and message editing

Flexibility has never been easier.

An user interface is like a joke; if you have to explain it, it's no good. Leibinger's JET One interface combines intuitive controls with incredible power under the hood. From simple messages to variable components and graphics, the touch screen's job editor offers you everything you need.

→ Data management and back-up

Sealtronic print head technology

Eliminate clogging and the need for frequent head cleaning.

Equipped with the automatic Sealtronic nozzle sealing system, the JET One is ready to print in just a few seconds and always starts with a clean print. This unique technology eliminates clogging of the nozzle – even after prolonged downtime - and keeps the printer running. Productivity loss as a result of coder downtime is a thing of the past!

→ Interfaces

And connected accessories.

The JET One supports the most commonly used accessories to integrate the coder in your production environment, right out of the box. Product sensor? Encoder? Alarm light? No problem – the JET One is ready for you. The JET One also comes with a USB connection for easy back-up of messages.

Printing performance/features

- 70 µm nozzle
- Character height 1.5–8 mm
- SK 6, 3 m umbilical, Sealtronic
- Printing speed up to 268 m/min (10 cpi)
- Country- and industry-specific fonts
- Fonts: from 5 x 5 to 16 x 10 dots, special fonts, chimney font (tower print)
- Fonts multiline from 1–2 lines
- Freely positionable and combinable fonts and graphics
- Proportional function for all fonts
- Adjustable font height and font width
- Time, automatic date, automatic use-by date, weekday update, calendar weeks, Julian calendar, shift ID
- Substitutions: all date, time and counter functions can be freely coded by substitutions
- An individually programmable counter, consecutive numbering, production counter, meter marking
- 3 shift codes
- Multilevel contrast and bold print function, repeat print, print delay, backward print, text rotation/mirroring, inverse, reverse, and alternating print (object-oriented)
- Dynamic backward printing for traversing lines
- Stop function after reaching the preselected number of products

Data management/back-up

- Storage of any number of jobs and graphics
- Data buffering in case of power failure
- Explorer
- Job management with storage of machine parameters
- Datalogging
- Upload and download jobs and graphics via USB stick

Operation/Data entry

- 5.7" color TFT touchscreen display (VGA), illuminated background
- Job creation and editing during ongoing production
- Available menu languages: European languages, Arabic
- Country-specific on-screen keyboard
- Operation also via mouse or keyboard
- Comprehensive diagnostic package and status display with plain text output and help function
- Service menu
- Windows-based interface, WYSIWYG representation

Interfaces/inputs, outputs

- Product sensor input PNP/NPN 24 V
- Incremental encoder input (TTL 5 V, HTL 24 V, RS 422 5 V)
- Digital inputs/outputs:
 - 1 input: horizontal mirror
 - 3 outputs, error, warning, ready
- USB connection

Leibinger hydraulic concept

- Low maintenance, diaphragm pumps with optimized duty cycle
- Fully automatic viscosity and pressure control
- Temperature-decoupled hydraulics
- No external compressed air supply required
- Automatic interval function
- Reservoir tanks – refillable during production
- Fully automatic level monitoring

Print head

- Flexible, break-proof umbilical, length 3 m
- Stainless steel housing
- Fully automatic nozzle and gutter seal
- Fully automatic drop and tear control
- Inkjet monitoring
- Nozzle size Model JET One 70 µm
- Any installation position, also for overhead applications
- Safety switch for head cover lock

Inks

- Ink: 70000-00801 (black)
- Solvent: 77001-00871

Housing, weights

- Housing: width 400 mm, height 430 mm, depth 295 mm
- Print head: length 212 mm, Ø 43 mm
- Weight print head: 1.5 kg
- Weight housing: 17 kg

Connected loads and ambient conditions

- Protection class IP 54
- 100 V–240 V, 50–60 Hz, max. 40 VA
- Temperature range +5 °C to +45 °C
- Relative humidity max. 90 %, non-condensing
- No external compressed air supply necessary

Accessories

- Product sensor, incremental encoder, device stand, print head brackets, alarm lights, etc.

JET One

Print sample overview

One-line print

Print sample at 70 µm nozzle

→ 5 x 5 dot

ABCDEFGHIJ 12345 5X5

→ 7 x 5 dot

ABCDEFGHIJ 12345 7X5

→ 9 x 7 dot

ABCDEFGHIJ 12345 9X7

→ 11 x 8 dot

ABCDEFGHIJ 12345 11X8

→ 16 x 10 dot

ABCDE 12345 16X10

Two-line print

→ 5 x 5 dot

ABCDEFGHIJ 12345
5X5 TWO LINES

→ 7 x 5 dot

ABCDEFGHIJ 12345
7X5 Two Lines

Inverted and mirrored

LEIBINGER REBNI8I8J LEIBINGER
LEIBINGER REBNI8I8J LEIBINGER

Different combinations

LEIBINGER LEIBINGER HOBWQWQWZ
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