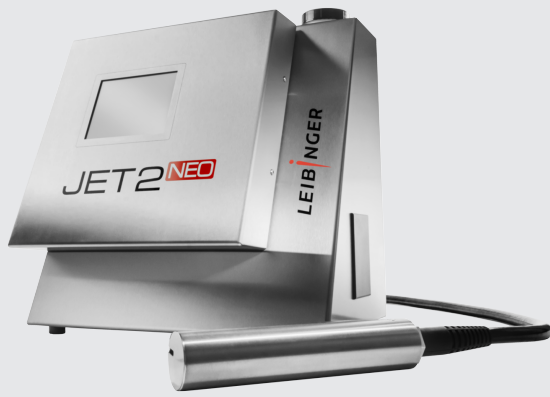




Technical data sheet

JET2^{NEO}

Device Variants

- JET2neo
- JET2neo **S** (for higher speeds)
- JET2neo **D** (for dusty environments)
- JET2neo **EP** (for marking eggs)

Device Descriptions and Functional Features

Cabinet

- Dust- and spray water-protected stainless steel cabinet (IP54)
- Separate cabinet area for printer control, thermally separated from the hydraulic area

Operation

- 5.7" color TFT touch display (VGA), backlit
- Creating and editing jobs during production
- Available menu languages: European languages, Arabic, Chinese, Vietnamese, Thai, Korean, Cyrillic, Persian, etc.
- Integrated graphics editor
- Alternative control via interface (Ethernet)
- Country-specific on-screen keyboard
- Can also be operated using a mouse or keypad
- Comprehensive self-diagnosis display and status screen with plain text output and help function, printer status screen (fill level indicator)
- Password function and service menu
- Windows-based interface, WYSIWYG style
- Remote control via VNC connection to external job editor (JETedit3)

Data management/backup

- Storage of any number of jobs and images
- Data buffer in case of power failure
- Explorer
- Job management with machine parameter storage
- Data logging
- Upload and download of jobs and images via USB stick
- JobSelect (255 jobs can be selected externally via digital inputs)

Consumables exchange

- Pressureless ink and solvent reservoir tank
- Refillable during production
- Fully automatic fill level monitoring

Hydraulic concept

- Low maintenance, diaphragm pumps with optimized on-time
- Fully automatic viscosity and pressure control
- Thermally isolated hydraulics
- Automatic interval function
- Option (variant-dependent): EcoSolv – solvent recovery system

Printhead

- Inkjet monitoring
- Flexible break-resistant umbilical
- Stainless steel cabinet
- Fully automatic **Sealtronic** nozzle sealing system
- Fully automatic drop charging and drop break off control
- Various nozzle sizes (depending on variant)
- Any installation position, even for overhead applications
- Safety switch for printhead lock
- Option (variant-dependent): Internal printhead ventilation, external printhead ventilation, air dryer

Printing functions

- Country- and industry-specific fonts, e.g. Arabic, Cyrillic, Chinese, Persian
- Special fonts
- Tower print
- Multiline fonts
- Fonts and images can be positioned and combined as required
- Proportional function for all fonts
- Adjustable font height and font width
- All major barcodes and DataMatrix codes (ECC 200), GS1 DataMatrix (EAN/ECC)
- Time, auto-adjustable date, auto-adjustable best before date, weekdays, calendar weeks, Julian calendar, shift identification
- Replacements: all date, time and counter functions can be set using user-programmed replacements
- Three individually programmable counters, consecutive numbering, product counter, meter marking
- User-programmable images/logos can be created in the integrated editor
- Multistage contrast and bold function, print repetition, print delay, backward print, rotation of font/mirroring of text, inverse, reversed and alternating prints (object-dependent)
- Dynamic backward printing for traversing lines
- **ExternText** function (printing of external data via interface)
- Stop function after reaching preselected amount
- Eco-Mode

Interfaces, inputs/outputs

- Product detector input PNP/NPN 24 V
- Incremental encoder input (TTL 5 V, HTL 24 V, RS422 5 V)
- Freely selectable digital inputs/outputs; 3 inputs, 4 outputs
- Alarm, refill, print ready, print finished, external job selection, etc.
- USB port
- Network, Ethernet (RJ45)
- For EP variant: Special interfaces for MOBA and Diamond egg sorting machines

Consumables

- Various dye-based inks and soft pigmented inks
- Various ink colors (black, yellow, red, blue, etc.)
- Fast-drying inks (<1 sec.)
- MEK-free inks
- Alcohol-based inks
- MIPK-based inks
- Heat-resistant inks
- Security inks
- Thermochronic-inks
- Adhesive inks
- Glass ink
- Fluorescent inks
- Washable inks (lye)
- Alcohol-resistant inks
- Sterilization-resistant inks
- Inks for food packaging
- Customer-specific special inks
- Halogen-free inks

Accessories

- LEIBINGER Connect
- V-check vision system
- JETmotion portal axis
- Product detectors
- Incremental encoder
- Printer stand
- Printhead brackets
- Alarm lamps
- ...

Overview of Technical Data

Printer and printhead

Voltage range	100–240 V AC
Supply frequency	50–60 Hz
Current consumption	max. 0.33 A (at 100 V AC); max. 0.20 A (at 240 V AC)
Power consumption during operation	max. 35 VA (at 100 V AC); max. 33 VA (at 240 V AC)
Power consumption in standby	3 W (at 100 V AC); 4 W (at 240 V AC)
Compressed air supply	Only required for JET2neo D or for the "external printhead ventilation" option.
Display	5.7" TFT touch display
RFID reader	Frequency: 13.56 MHz Power: -18,878 dBμA/m (field strength at a distance of 10 m)
Umbilical length	3 m, 6 m (optional)
Umbilical bend radius	> 60 mm (fixed routing), > 100 mm (movable routing)
Umbilical type	extruded
Umbilical printhead connection	straight, designed with an extruded fitting

Printhead type	SK6, SK6 ELBOW, SK6 ELBOW left
Printhead nozzle size	JET2neo: 70 µm JET2neo S: 60 µm JET2neo D: 60 µm, 70 µm JET2neo EP: 60 µm, 70 µm
Printhead material	Chassis: aluminum, Printhead cover: V2A
Printhead weight	approx. 1.5 kg (with umbilical)
Printer cabinet material	V2A
Printer cabinet weight	17 kg (empty, without printhead and umbilical)
Protection type	IP54

Ambient conditions

Temperature range	+5 °C–+45 °C (no sudden temperature changes)
Relative humidity	max. 90% (non-condensing)

Volume of reservoir tanks

Ink reservoir tank	1300 ml
Solvent reservoir tank	1300 ml

Print performance data

Character height	JET2neo: 1.5 to 14 mm JET2neo S/D/EP: 1.2 to 12 mm (Depending on the nozzle size and printhead version)
Fonts	5x5 to 24x18 dots
Max. speed	268 m/min
Max. number of lines	4 lines
Max. vertical resolution (stroke height)	25 drops

Consumption

Ink consumption	max. 117 million characters per 950 ml bottle (matrix 5x5; nozzle 60 µm) max. 74 million characters per 950 ml bottle (matrix 5x5; nozzle 70 µm)
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Interfaces

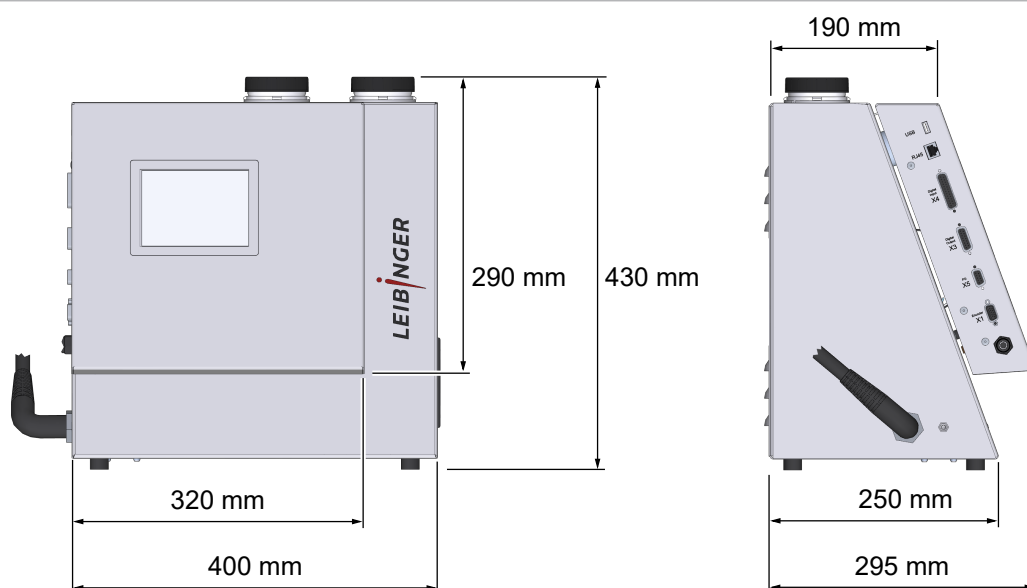
Ethernet	For general data exchange Version: RJ45
USB	For general data exchange Version: Type A
Rotary encoder (X1)	For connecting incremental encoders Version: HD-D-SUB, socket, 15-pin, TTL, HTL, RS-422
Digital outputs (X3)	4 freely configurable outputs Version: D-SUB, 15-pin, socket
Digital inputs (X4)	8 inputs for job selection 3 freely configurable inputs, two preset inputs Version: D-SUB, 25-pin, pin
Print start (PrintGo) (X5)	For connecting to the product detection sensor and, if needed, also the print release sensor or monitoring sensor Version: D-SUB, 9-pin, socket, NPN/PNP 24 V

Tests

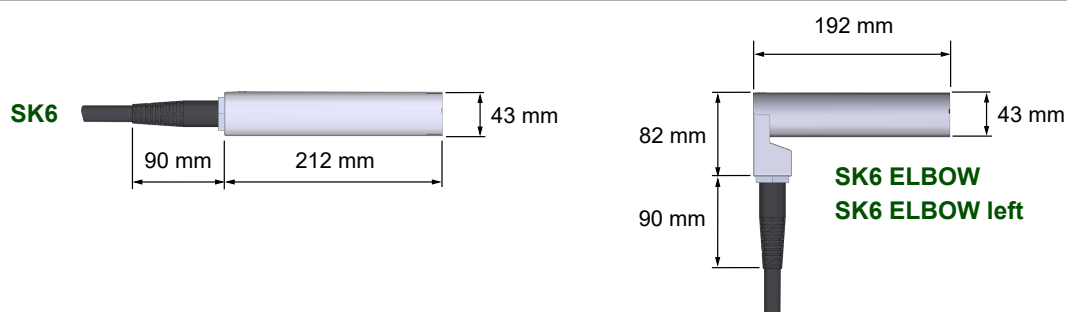
Certification marks	CE, UKCA
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Dimensions

Printer cabinet



Printhead



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