

LEIBINGER

JET₂neo



 MARSH
MICRO SYSTEMS

Maximum performance in a minimum space

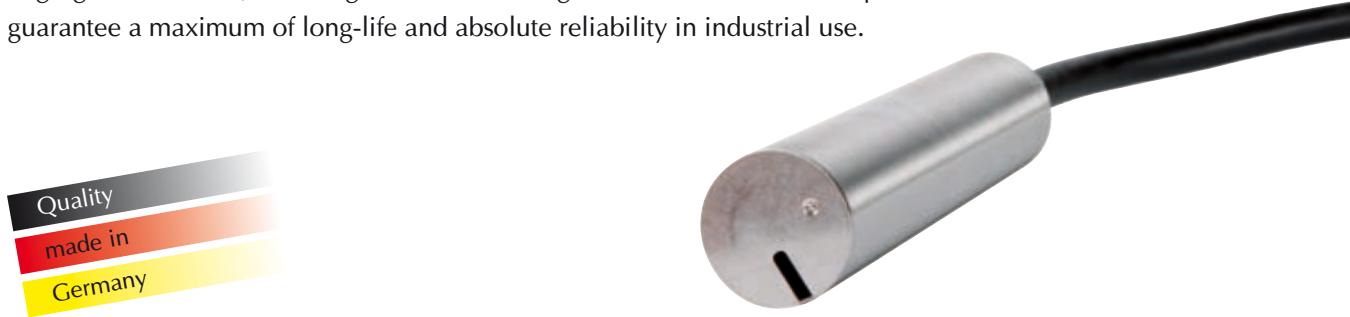
The completely new inkjet printer **JET²neo** was developed to be compact. Packaged in a highly modern stainless steel cabinet, latest technology is combined with components well-proven thousands of times.

The high-performance multitalented printer is the ideal partner for all daily duties in product coding and marking. Quickly integrated and installed, the LEIBINGER **JET²neo** fulfills all needs with perfect satisfaction.

Developed and produced in Germany, the **JET²neo** is a robust inkjet printer with latest technology „made in Germany“.

LEIBINGER is world famous for high quality and reliable inkjet printers with perfect combination of design, the comfort of use and latest technology.

Highest quality and consequent reliability are most important for LEIBINGER. High-grade material, well-engineered technologies and best workmanship guarantee a maximum of long-life and absolute reliability in industrial use.



Your advantage: advance through technology



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Performance data

The **JET²neo** works with a resolution of 24 drops vertical and can print three lines with a 7x5 matrix in top quality. All formats of date, time and counter are adjustable. Text together with graphics, barcodes, and DataMatrix codes are printed reliably.



High...performance.....

Speed

The **JET₂neo** prints up to 3200 characters per second. At a printing speed of up to 6,6 m/s (10 cpi), the **JET₂neo** is the ideal partner for all applications.



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For each the right ink

For the **JET₂neo** there is a wide ink portfolio available for numerous surfaces and applications. The portfolio includes different dye-based inks, ketone or alcohol based inks as well as special inks for sterilisation, color-changing, PE- and soft-pigmented inks and even a "wet-bottle-ink".



Longest operating time - easy refill

The sealed 1 quart refill bottles are simply screwed into the reservoir and empty themselves completely.

With one bottle of ink the **JET₂neo** prints more than 120 million characters.



Automatic nozzle seal „Sealtronic“

The printer easily starts and stops with a keystroke. No cleaning before or after the print start, no drying up, always ready to print.



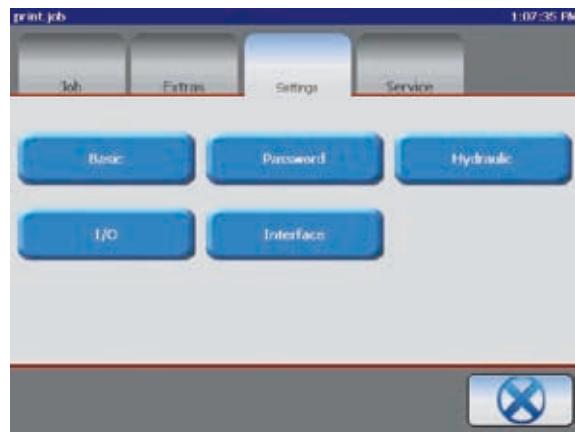
Intuitive operation

Use it with the slightest effort

The Windows® operating system enables an intuitive and error free handling. The user encounters Windows®-typical control elements such as drag & drop, copy/paste or pull-down menus and can create print jobs immediately and easily.

Display

The operation of the **JET₂neo** is carried out on the colour touch-display with high resolution and back-light. All information relevant to production is clearly arranged and directly reachable. The WYSIWYG-design shows the operator the current print content in an up-to-date picture. Extensive function keys guarantee easy operation with just one finger touch.



Functions

Numerous functions and tools are available to the operator in order to solve almost every print issue. Functions such as loading and editing of jobs, password management or the explorer function are clearly arranged and directly available on the display. The most frequently used functions can individually and comfortably be accessed via the programmable „Macro“-keys.



Numerous interfaces

By means of the versatile interfaces on the *JET2neo* cabinet side, the inkjet printer can be integrated in every production line and can even control external machines.

Inputs and Outputs

In the diagnosis menu all signals of the inputs and outputs are currently displayed. This means diagnosis without measuring instruments. In addition to this, inputs and outputs can be freely assigned to functions such as „external print start“ or „final value reached“.



Easy...integration...

360° print direction

From top to bottom, from bottom to top or from the side:
By means of encapsulated electronics and automatic jet monitoring, the printhead can be integrated in any position.

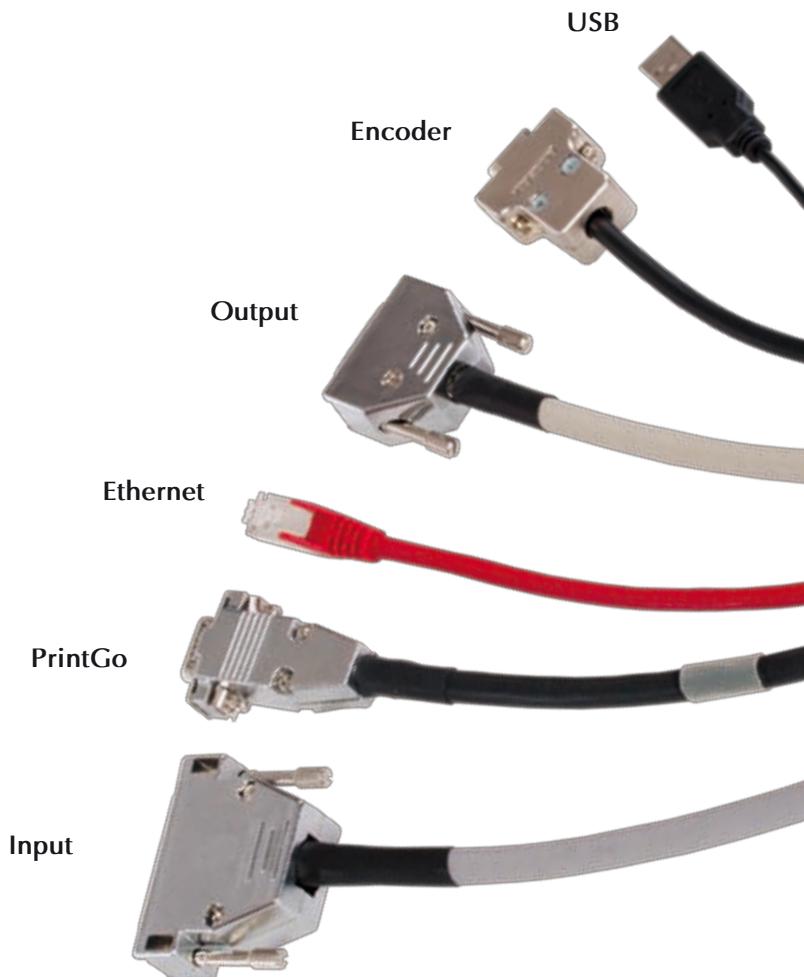
Small dimensions of the cabinet

In the functionally designed **JET²neo** cabinet latest technology and electronics are concealed. Because of its small external dimensions, the compact inkjet printer can easily be integrated in every environment.



Small printhead

Integration in a minimum of space. The state-of-the-art technology together with the automatic nozzle seal are stored efficiently. The advantage: The printhead can also be integrated in limited space.



The **JET²neo** can communicate via diverse interfaces with external machines.



LEIBINGER two-component cabinet

The closed, tight electronic unit inside the **JET²neo** is thermally separated from the hydraulic area. By optimal heat dissipation, air filters are unnecessary and the heat will not be transferred to hydraulics. This guarantees a precise automatic adjustment of viscosity and a low solvent consumption.



Oscillator technology

The newly developed oscillator technology in the printhead is shock-proof and provides reliable marking even at worst conditions.

Convenience...in...design...

Hydraulic concept

In the **JET²neo**, the well-proven, low-maintenance LEIBINGER hydraulic design is used. Cost-intensive, external compressed air can be omitted as well as maintenance-intensive gear-wheel pumps. This reduces costs and maintenance.

Functions

Versatile functions support the user in installing the print job. Plenty of possibilities for text, logos, graphics or barcodes are available, such as mirroring, rotating, matrix, size or bold type. In addition to this a "replacement-menu" offers the opportunity of replacing figures, date or time elements by any character.

Barcode Print

In the job-editor there are different barcodes available such as code 39, 2 of 5, EAN 8, EAN 13 or UPC A12. Furthermore the DataMatrix-Code ECC 200 and GS1 DataMatrix (EAN/ECC) can be printed.

Graphics editor

For creating small logos and graphics, the graphic editor is available. All desired logos or graphics can directly be created on screen, saved and printed.

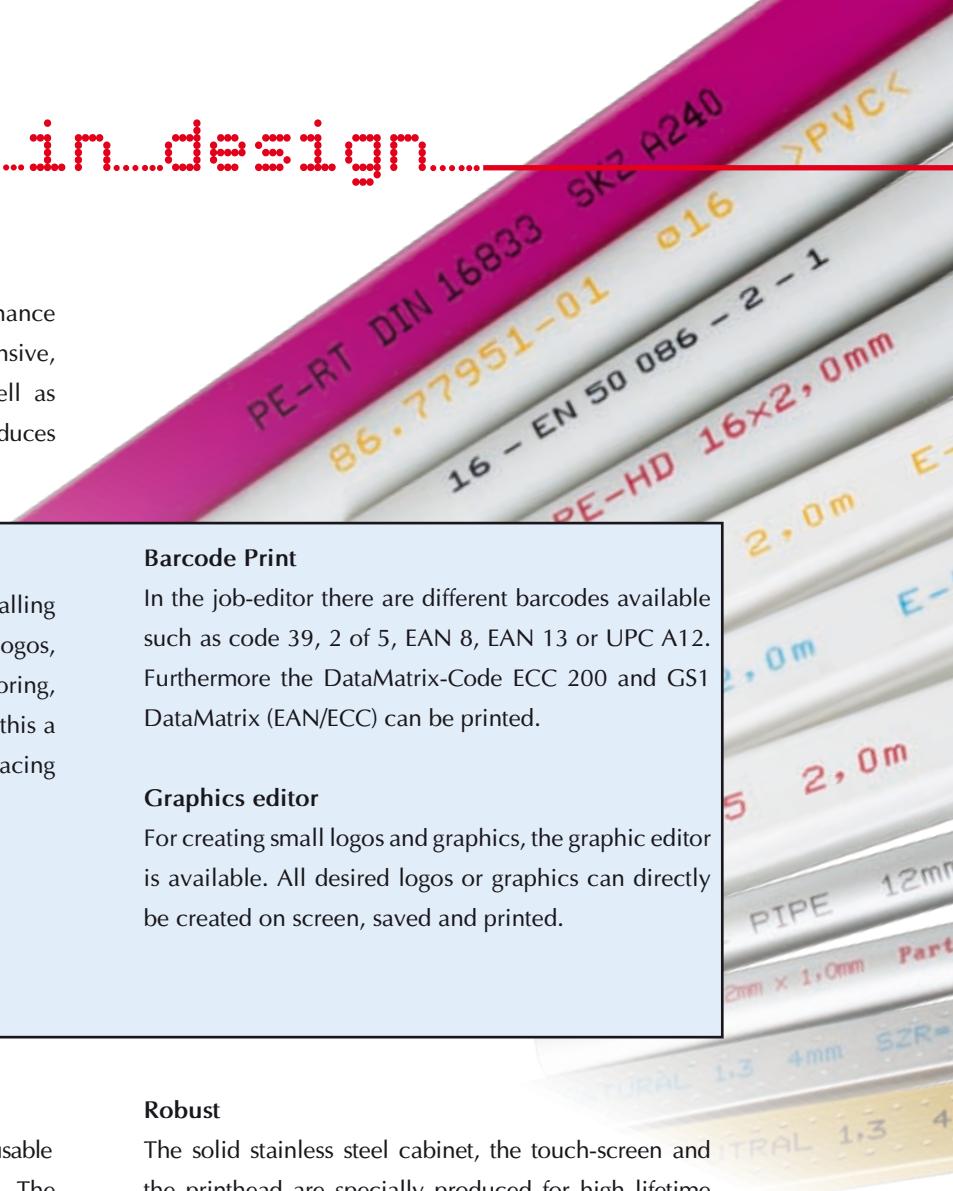


Stainless

The **JET²neo** is universally usable for all kinds of applications. The corrosion free stainless steel cabinet overcomes all challenges. It is easy to clean and fulfills the hygienics requirements of the food industry.

Robust

The solid stainless steel cabinet, the touch-screen and the printhead are specially produced for high lifetime in industrial use, both for hygienical food sector and for dusty environments.



neo
No cleaning

headcover closed

Speed inch/min

cur.

max.

0000

0029

Print busy

No clog

Product Order

000000845

Reliable

Ready for any-time-operation in no time – these are the definite advantages of the **JET²neo**. The automatic nozzle seal "Sealtronic" reliably prevents a drying of ink. No cleaning, no drying up - always ready to print.



With
automatic
nozzle seal
„Sealtronic“

Nozzle Seal Sealtronic

Unique and world famous

- No drying of ink in nozzle and suction tube
- No cleaning or rinsing before start
- Immediate availability

„Sealtronic“

With only one key press, **JET²neo** starts and is ready for printing in shortest possible time. The full automatic LEIBINGER nozzle seal “Sealtronic” reliably prevents the drying of ink in nozzle and suction tube and guarantees an immediate start even after long shut-down periods.

Before shut-down of the printhead, the gutter moves automatically to the nozzle and closes it airtight. This way a hermetically sealed ink cycle is created, no air can penetrate the nozzle or the suction tube and a drying of ink is prevented.

The LEIBINGER **JET²neo** doesn't need any expensive manual or automatic cleaning procedures during start. Just switch on and print.

„Sealtronic“ is like ...

...a can of lacquer, being closed airproof with a lid.



...without the
airproof lid, the
lacquer is useless in
no time!



...with airproof lid,
the lacquer can
never dry up.

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Optimal accessibility

Compact dimensions and optimal accessibility are united in the **JET₂neo**. The clearly arranged components enable fastest and efficient access to single modules.

Economical maintenance.....

Generous maintenance intervals

The unique LEIBINGER hydraulic concept was specially developed for a minimum of wear and a maximum of lifetime. It consists of high-quality components. The pressure pump for example will only be started on demand every 5-10 seconds for one stroke, so the abrasion is minimized and long maintenance intervals are guaranteed.

Honest and efficient exchange of wearing parts

While doing the maintenance of a **JET²neo**, only those parts are exchanged, that are really worn out. For schedule maintenance these are only a few reasonable parts. No cores, cubes, ink modules or expensive assembly units need to be exchanged or replaced.



Easy nozzle disassembly and assembly

According to the LEIBINGER way, the nozzle in the printhead can quickly be disassembled and assembled. The nozzle is simply unscrewed. After the reassembly, the nozzle fits accurately in the originally adjusted position. No readjustment is necessary.



The protection of the environment is a major concern of LEIBINGER for years. Since 1999 energy is produced using the own solar power system. The LEIBINGER products are technically efficiently constructed, energy saving and provide an economical use of resources and materials.



Cost-effectiveness.....

Thermically separated cabinet

In the **JET₂neo** cabinet, the electronic area is separated from the hydraulic area. The occurring heat is emitted via the cabinet and doesn't heat up the hydraulics. This solution saves the use of fans or filter mats and additionally reduces the solvent consumption.



Low use of energy, high life-time

Single components in the **JET₂neo** are run at ideal runtime. This way the main pump is started only on demand, at intervals of 5-10 seconds. This extends the lifetime of the single components and reduces the use of energy to a minimum.



One **JET₂neo** uses only one third of the energy of a standard light bulb.



No compressed air

The **JET₂neo** doesn't need costly external compressed air to produce the ink pressure.



Nozzle seal

The famous automatic LEIBINGER nozzle seal "Sealtronic" prevents a drying of ink in nozzle and suction tube. This saves time and solvent. Cleaning of the nozzle before and after production is omitted completely.



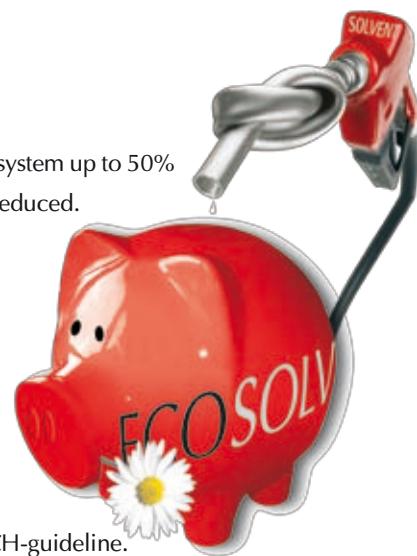
EcoSolv

With the LEIBINGER solvent recycling system up to 50% of solvent can be saved and emission reduced.



REACH

All LEIBINGER consumables are tested and registered conforming to the REACH-guideline.



RoHS 2002/95/EC

According to LEIBINGER's green line, all products from LEIBINGER meet the RoHS requirements.



Good...reasons...for...LEIBINGER.....

- // Easiest operation
- // Automatic nozzle seal – „Sealtronic“
- // Quality made in Germany
- // Robust printer for every application
- // No cleaning, no drying up, always ready to print
- // Enormous variety of functions
- // Excellent print quality
- // Low consumption
- // No compressed air
- // Long maintenance intervals, transparent service
- // Innovative printhead
- // Highest reliability

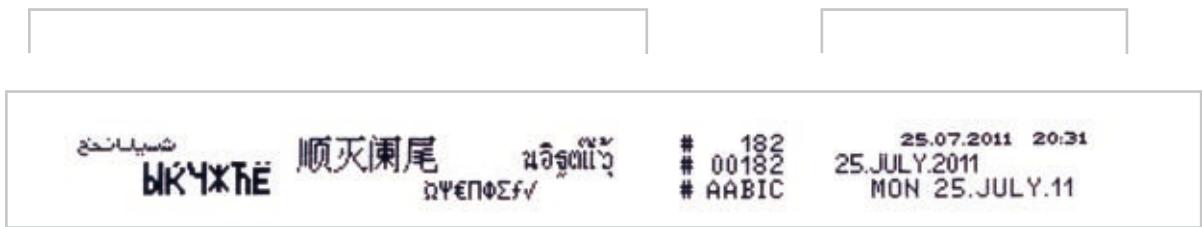
24 MONTHS WARRANTY

simply carefree printing

L E I B // N G E R

The **JET₂neo** includes language and country-specific fonts, such as Cyrillic, Chinese, and Arabic, as well as many special characters.

Date information can be programmed flexibly and encoded with replacements.



Multiple counters can be programmed in one job simultaneously, where the format can be selected for each object as desired. The examples show counters without leading zeros, with leading zeros, and encoded with replacements.

Barcodes can also be shown inverted.



For barcodes, it can be selected whether to display plain text. If plain text is selected, you can position it as desired.

The high 24-dots resolution enables to create DataMatrix-Codes that contain a large volume of information. Each object can be selected individually and positioned as required. This allows DataMatrix-Codes to be placed between texts, above, below or to the side.

Print...pattern...

For all fonts, the proportional font size can be selected. This allows maximum information density in the least space.



Like barcodes, text objects and graphics can be displayed inverted.



1234 AB LEIBINGER OIHLMIH WKLPD 1a2b3c

Individual objects can be rotated in various directions (in steps of 90°) and flipped (horizontally and vertically).



Each object can be displayed in various increments of the font thickness (bold value).



JET2 neo * © CE      

24-dots resolution provides a clear print image, even for large letters and graphics, and enables precise details. This allows accurate printing, even of complex applications.

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Print performance/functions

- Printing speed up to 6.6 m/s (21.65 ft/s) (10 cpi)
- Printing height 1.2 (0.04") to 11 mm (0.43"), depending on nozzle size and head type
- Country and industry-specific fonts, e.g. Arabic, Cyrillic, Chinese, Persian
- Fonts: from 5x5 to 24x18 dots, special fonts, tower printing
- Multiline fonts (1 to 3 lines)
- Fonts and graphics can be free positioned and combined
- Proportional function for all fonts
- Font height and font width adjustable
- All major barcodes and DataMatrix-Codes (ECC200), GS1 DataMatrix (EAN/ECC)
- 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
- Three individually programmable counters, consecutive numbering, production counter, meter marking
- 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
- "External text" function (printing of external data via interface)
- Stop function after reaching predefined amount

Data administration/security

- Storage of countless jobs and graphics
- Data buffer in case of power failure
- Explorer
- Print jobs saved with printing data and machine parameters
- Data logging
- Up- and download of jobs and graphics using USB stick
- Job select (255 jobs selectable from external via digital inputs)

Operation/data input

- 5.7" colour TFT touch-screen display (VGA), background illuminated
- Creating and editing of jobs during production
- Available menu languages: European languages, Arabic, Chinese, Vietnamese, Thai, Korean, Cyrillic, etc.
- Integrated graphic editor
- Alternative control using the data interface (Ethernet)
- Country-specific on-screen keypad
- Operation also by mouse or keyboard
- Comprehensive self-diagnosis and status display with easy-to-understand text, help function, printer status display ("traffic lights")
- Password function and service menu
- Windows-based interface, WYSIWYG-display

Fluid reservoirs

- Capacity of the pressureless ink and solvent tanks is 1.3 quart
- Refillable while printing
- Automatic level control

Interfaces, inputs/outputs

- Product detector PNP/NPN 24V
- Shaft encoder input for printing speed synchronisation (TTL 5V, HTL 24V, RS422 5V)
- Digital inputs/outputs user-selectable, 5 inputs, 4 outputs
- Printer alarm, low fluid, print ready, print finished, external job selection etc.
- USB port
- Network, Ethernet (RJ45)

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)

Technical Specifications.....

Print head

- Flexible umbilical, length 3 m (9.84 ft)
- Stainless steel body
- Fully automatic nozzle and gutter seal
- Fully automatic drop charging, drop break off
- Inkjet control
- Nozzle size model JET2neo: 60 µm or 70 µm
- Upside down - 360° assembly
- Safety switch for print head locking
- Option: Head ventilation

Inks

- Ink consumption: more than 120 million characters/ltr. (matrix 7x5/nozzle 60 µm)
- Several dye-based inks and soft pigmented inks
- Fast drying inks (<1sec)
- Ketone inks, MEK-free inks, alcoholbased inks
- Ink colours (black, yellow, red, blue, etc.)
- Temperature- and transfer-resistant inks
- Security inks, colour changing inks, adhesive inks, alcohol- and sterilisation-resistant inks
- Food packaging inks
- Customized inks

Cabinet, dimensions and weights

- Weight print head: 1.5 kg (3.30 lbs)
- Weight cabinet: 17 kg (37.47 lbs)
- Protection class: IP 54

Supplies and environmental conditions

- 100 V-240 V, 50-60 Hz, max. 40 VA
- Temperature range +5°C (41°F) to + 45°C (113°F)
- 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: remote controlled via external software control



320 mm (12.60")
400 mm (15.75")



430 mm (16.93")

290 mm (11.42")

250 mm (9.84")
295 mm (11.60")



190 mm (7.48")



Ø 43 mm (1.70")

212 mm (8.35")

We...print...the...World



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