

# Technical specifications

## PRINT PERFORMANCE/FUNCTIONS

- » Printing speed up to 17 m/s (1000 m/min)\*
- » Printing height 1 to 10 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
- » 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
- » Automatic monitoring of compressed air (only with option IP65)
- » Automatic daily interval function (Auto ink circulation)

## PRINTHEAD

- » Flexible umbilical, length: 3 m
- » Stainless steel cabinet
- » Fully automatic nozzle and gutter seal "Sealtronic"
- » Fully automatic drop charging, drop break off control
- » Nozzle size: 50 µm and 55 µm
- » Upside down - 360° operation
- » Safety switch for print head locking
- » External head ventilation, options: 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 200 million characters/l. (matrix 5x5/nozzle 50 µm)
- » Fast-drying solvents inks (<1sec)
- » Several dye-based inks\*
- » MEK-free and ketone-free inks \*
- » Halogen-free inks \*
- » Ink colors: black, red and more on request \*

## WEIGHTS AND PROTECTION CLASS

- » Weight: print head 1.5 kg, cabinet 20.5 kg
- » Protection class: IP54, optional IP65

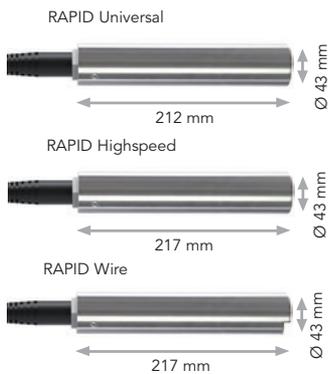
## SUPPLIES AND ENVIRONMENTAL CONDITIONS

- » 100-240 V, 50-60 Hz, typical 20 VA
- » Temperature range +5°C to +45°C
- » Relative humidity max. 90%, non-condensing
- » Plant air connection (only with print head RAPID Highspeed and RAPID Wire): 1,4 bar / 20 l/min
- » Plant air connection (only with option IP65): 1,4 bar / 100 l/min

## ACCESSORIES

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

\*Depends on printhead version



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# Do you have specific requirements? LEIBINGER is the customized solution

The JET3up RAPID adjusts entirely to your needs and production environment. For this purpose, LEIBINGER provides three high-speed printheads that are suitable for different applications and industries. But they all have one thing in common: They will substantially accelerate your production process!

## Printhead version



### RAPID Universal

Der JET3up RAPID with Universal printhead achieves its high print speed through an accelerated discharge of drops in the printhead. This makes the printhead able to code different surfaces and products with 2D codes, graphics, barcodes, or characters in 1 to 5 lines (32 drops) considerably faster than comparable printer models.



### RAPID Highspeed

Der JET3up RAPID with Highspeed printhead was developed for extremely fast print applications up to a maximum font height of 2,5 mm (5x5 and 7x5 matrix or tower printing). It can be used flexibly for all product surfaces and materials.



Original print sample at 1000 m/min.

### RAPID Wire

In order to meet the high demands of the wire and cable industry, Paul LEIBINGER offers a special cable printhead. Thanks to the innovative design in the printhead, cables and wires as well as other long, narrow products can be optimally positioned and marked. The result is cable printing that is even faster, more precise and more effective.

## Options & Accessories

- » Various nozzle sizes and head versions
- » Expanded PC software solutions
- » JETmotion linear system
- » Product detector, shaft encoder, status lights

and many more ...