

JET RAPID WIRE / WIRE PI

TECHNICAL DATA

EN

JET RAPID
WIRE

JET RAPID
WIRE PI

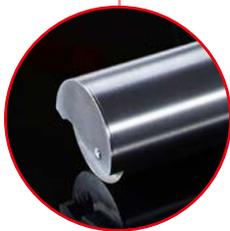
JET RAPID
WIRE



JET RAPID WIRE

High-speed applications for cables, wires, hoses and pipes

- Print speed of up to 1000 m/min
- With replaceable printhead covers

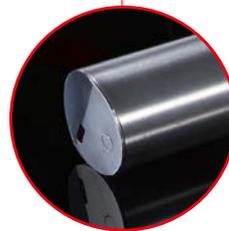


Printhead cover stepped

- **Wire printhead**
- **128 kHz drop frequency**
- **50 µm nozzle**

- Cable printing for cables with a diameter of up to 5 mm
- Print speed up to 1000 m/min
- Single-line printing
- Special high-speed printing modes

Printhead cover replaceable

A diagram showing two circular images of printhead covers. The left image shows a stepped cover, and the right image shows a beveled cover. Two horizontal arrows, one pointing right and one pointing left, are positioned between the two images, indicating that the covers are interchangeable.

Printhead cover beveled

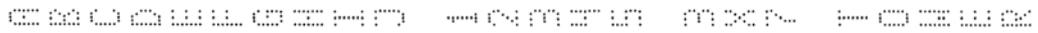
- **Wire printhead**
- **128 kHz drop frequency**
- **50 µm nozzle**

- Cable printing for cables with a diameter of more than 5 mm
- Print speed up to 800 m/min
- Single-line printing
- Special high-speed printing modes

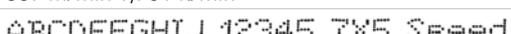
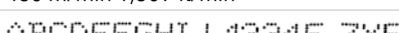
JET RAPID WIRE

	Wire printhead with stepped printhead cover	Wire printhead with beveled printhead cover
Printhead	Wire	Wire
Printhead dimensions		
Umbilical	Length: 3 m	Length: 3 m
Maximum print speed	1000 m/min	800 m/min
Characters per inch [dpi]	6 dpi at 1000 m/min Print mode: 5x5 dot speed	8 dpi at 800 m/min Print mode: 5x5 speed
Oscillator frequency	128 kHz	128 kHz
Nozzle size	50 µm	50 µm
Available print modes	Line Mode 5x5 speed 3x7 tower 5x5 speed small 3x7 tower small 7x5 5x5 7x5 speed 5x5 small	Line Mode 5x5 small 3x7 tower 5x5 speed 3x7 tower small 5x5 speed small 5x5 7x5 5x5 small 7x5 speed
Printable lines	Single-line	Single-line
Compressed air required	Yes. 2 l/min	Yes. 2 l/min

Print sample stroke width: 0.55 mm

3x7 dot tower	 1075 m/min 3,526 ft/min
3x7 dot tower small	 1075 m/min 3,526 ft/min

Print sample stroke width: 0.427 mm

3x7 dot tower	 806 m/min 2,644 ft/min
3x7 dot tower small	 806 m/min 2,644 ft/min
5x5 dot small speed	 645 m/min 2,116 ft/min
5x5 dot small	 537 m/min 1,761 ft/min
5x5 dot	 537 m/min 1,761 ft/min
7x5 dot speed	 460 m/min 1,509 ft/min
7x5 dot	 403m/min 1,322 ft/min

JET RAPID WIRE TECHNICAL SPECIFICATIONS

PRINT OUTPUT/FUNCTIONS

- Print speed up to 1000 m/min
- Character height 1.0 to 2.4 mm, depending on nozzle size and head type
- Country- and industry-specific fonts: Arabic, Cyrillic, Chinese, Persian, etc.
- Print modes: from 3x7 to 7x5, special fonts, user-programmable fonts, vertical printing, line mode. Which print modes are available depends on the selected options
- Single-line printing
- Fonts and graphics can be positioned and combined in print jobs as required
- Proportional function for all fonts
- Adjustable font height and font width
- All standard barcodes (print height: 7 dots)
- Time, auto-adjustable date, auto-adjustable expiration date, weekdays, calendar weeks, Julian calendar, shift identification
- Replacements: all date, time and counter functions can be set using user-programmed replacements
- 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 text, inverse, reverse and alternating prints (object-dependent)
- Dynamic backward printing for traversing lines
- Programmable batch production and interlinking of multiple jobs
- "External text" function from scanner or interface
- Processing of variable data from external files on USB stick or interface
- Function to stop printing when preselected amount has been reached
- Product jam detection, product position monitoring
- Autostart function
- Prompt function (quick access)
- Solvent saving mode
- Self-test function

DATA MANAGEMENT/SECURITY

- Data buffer in case of power failure
- File manager
- Job management with saved machine parameters
- Data logging, production log
- Upload and download of jobs and graphics from USB stick or over network
- Select jobs (1023 jobs can be selected via the PLC or scanner)

HANDLING/DATA INPUT

- 10.4" color TFT touchscreen display (SVGA)
- Create and edit jobs during production
- User-defined button for direct access
- Menu languages: European languages, Vietnamese, Arabic, Chinese, Thai, Korean, Cyrillic, Persian, etc.
- Integrated font and graphics editor
- Illustrated operator instructions
- Alternative control using the data interface (serial, Ethernet)
- Country-specific on-screen key pad
- Operation optionally using mouse or key pad
- Comprehensive self-diagnosis and status display with easy-to-understand text, help function, printer status display
- Storage of any number of jobs and graphics
- Password function and service menu
- Windows-based interface, WYSIWYG, real-time display updates
- Remote control via VNC

INTERFACES, INPUTS/OUTPUTS

- Product detector input PNP/NPN 24 V, FIFO buffered
- Incremental encoder input (TTL 5 V, HTL 24 V, RS422 5 V)
- 9 digital inputs and 8 digital outputs. Freely selectable
- Printer alarm, low fluid, print ready, print finished, external job selection, etc.
- Serial port RS232 up to 115,200 baud
- USB port
- Ethernet (industry standard M12D), script protocol
- Sensor for product monitoring and speed measurement
- Optional: Special interface for connecting multiple printers

LEIBINGER HYDRAULIC SYSTEM

- Low maintenance diaphragm pumps with optimized on-time
- Fully automatic viscosity and pressure control
- Thermally isolated hydraulics
- No external compressed air supply necessary
- Automatic interval function
- EcoSolv - solvent recycling system (optional)

PRINTHEAD

- Supplied with 2 printhead covers
- Flexible break-resistant umbilical, length: 3 m
- Stainless steel cabinet
- Fully automatic "SEALTRONIC" nozzle and gutter seal
- Fully automatic drop charging, drop break off
- Nozzle size: 50 µm
- Any installation location, even for overhead applications
- Safety switch for locking the printhead
- External head ventilation
- Options: umbilical at 45° to 90° angle, various printhead versions
- Automatic inkjet monitoring

STORAGE TANK

- Capacity of non-pressurized ink and solvent storage tank: 1.3 l, can be topped up during production
- Fill level display with fully automated monitoring
- Display for pending printouts

INKS

- Which inks are available depends on the printer type and the selected options
- Ink consumption: up to 160 million characters/l (matrix 5x5 / nozzle 50 µm)
 - Solvent consumption: Can be reduced to less than 1.2 ml/hour using EcoSolv (depending on nozzle size, solvent base and ambient temperature)
 - Fast-drying solvent inks (<1 sec)

WEIGHTS AND PROTECTION CLASSES

- Weight: Printhead 1.5 kg, cabinet 20.5 kg
- IP 54 protection class

POWER RATINGS AND AMBIENT CONDITIONS

- 100 - 240 V, 50 - 60 Hz, typically 20 W
- Temperature range + 5 °C to + 45 °C
- Relative humidity max. 90%, non-condensing

ACCESSORIES

- Product detector, incremental encoder, printer stand, printhead brackets, alarm lamps, etc.
- Software for remote control and multi-head control



JET RAPID WIRE PI

High-speed applications for cables, wires, hoses and pipes

- For pigmented and non-pigmented ink
- Print speed of up to 700 m/min

JET RAPID
WIRE PI

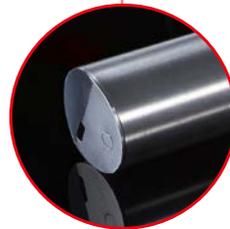


Printhead cover stepped

- Wire printhead
- 96 kHz drop frequency
- 60 µm nozzle

- Cable printing for cables with a diameter of up to 5 mm
- Print speed up to 700 m/min
- Single-line printing
- Special high-speed printing modes

Printhead cover replaceable



Printhead cover beveled

- Wire printhead
- 96 kHz drop frequency
- 60 µm nozzle

- Cable printing for cables with a diameter of more than 5 mm
- Print speed up to 600 m/min
- Single-line printing
- Special high-speed printing modes

JET RAPID WIRE PI

	Wire printhead with stepped printhead cover	Wire printhead with beveled printhead cover
Printhead	Wire	Wire
Printhead dimensions		
Umbilical	Length: 3 m	Length: 3 m
Maximum print speed	700 m/min	600 m/min
Characters per inch [dpi]	7 dpi at 700 m/min Print mode: 5x5 dot speed	8 dpi at 600 m/min Print mode: 5x5 dot speed
Oscillator frequency	96 kHz	96 kHz
Nozzle size	60 µm	60 µm
Available print modes	Line Mode 5x5 speed 3x7 tower 5x5 speed small 3x7 tower small 7x5 5x5 7x5 speed 5x5 small	Line Mode 5x5 speed 3x7 tower 5x5 speed small 3x7 tower small 7x5 5x5 7x5 speed 5x5 small
Printable lines	Single-line	Single-line
Compressed air required	Yes. 2 l/min	Yes. 2 l/min

Print sample stroke width: 0.427 mm

3x7 dot tower		604 m/min 1,981 ft/min
3x7 dot tower small		604 m/min 1,981 ft/min
5x5 dot small speed		483 m/min 1,584 ft/min
5x5 dot small		403 m/min 1,322 ft/min
5x5 dot		403 m/min 1,322 ft/min
7x5 dot speed		345 m/min 1,131 ft/min
7x5 dot		302 m/min 990 ft/min

JET RAPID WIRE PI TECHNICAL SPECIFICATIONS

PRINT OUTPUT/FUNCTIONS

- Print speed up to 700 m/min
- Character height 1.0 to 2.4 mm, depending on nozzle size and head type
- Country- and industry-specific fonts: Arabic, Cyrillic, Chinese, Persian, etc.
- Print modes: from 3x7 to 7x5, special fonts, user-programmable fonts, vertical printing, line mode. Which print modes are available depends on the selected options
- Single-line printing
- Fonts and graphics can be positioned and combined in print jobs as required
- Proportional function for all fonts
- Adjustable font height and font width
- All standard barcodes (print height: 7 dots)
- Time, auto-adjustable date, auto-adjustable expiration date, weekdays, calendar weeks, Julian calendar, shift identification
- Replacements: all date, time and counter functions can be set using user-programmed replacements
- 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 text, inverse, reverse and alternating prints (object-dependent)
- Dynamic backward printing for traversing lines
- Programmable batch production and interlinking of multiple jobs
- "External text" function from scanner or interface
- Processing of variable data from external files on USB stick or interface
- Function to stop printing when preselected amount has been reached
- Product jam detection, product position monitoring
- Autostart function
- Prompt function (quick access)
- Solvent saving mode
- Self-test function

DATA MANAGEMENT/SECURITY

- Data buffer in case of power failure
- File manager
- Job management with saved machine parameters
- Data logging, production log
- Upload and download of jobs and graphics from USB stick or over network
- Select jobs (1023 jobs can be selected via the PLC or scanner)

HANDLING/DATA INPUT

- 10.4" color TFT touchscreen display (SVGA)
- Create and edit jobs during production
- User-defined buttons for direct access
- Menu languages: European languages, Vietnamese, Arabic, Chinese, Thai, Korean, Cyrillic, Persian, etc.
- Integrated font and graphics editor
- Illustrated operator instructions
- Alternative control using the data interface (serial, Ethernet)
- Country-specific on-screen key pad
- Operation optionally using mouse or key pad
- 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 display updates
- Remote control via VNC

INTERFACES, INPUTS/OUTPUTS

- Product detector input PNP/NPN 24 V, FIFO buffered
- Incremental encoder input (TTL 5 V, HTL 24 V, RS422 5 V)
- 9 digital inputs and 8 digital outputs. Freely selectable
- Printer alarm, low fluid, print ready, print finished, external job selection, etc.
- Serial port RS232 up to 115,200 baud
- USB port
- Ethernet (industry standard M12D), script protocol
- Sensor for product monitoring and speed measurement
- Optional: Special interface for connecting multiple printers

LEIBINGER HYDRAULIC SYSTEM

- Low maintenance diaphragm pumps with optimized on-time
- Fully automatic viscosity and pressure control
- Thermally isolated hydraulics
- No external compressed air supply necessary
- Automatic interval function
- EcoSolv - solvent recycling system (optional)

PRINthead

- Supplied with 2 printhead covers
- Flexible break-resistant umbilical, length: 3 m
- Stainless steel cabinet
- Fully automatic "SEALTRONIC" nozzle and gutter seal
- Fully automatic drop charging, drop break off
- Nozzle size: 60 µm, depending on model
- Any installation location, even for overhead applications
- Safety switch for locking the printhead
- External head ventilation
- Options: umbilical at 45° to 90° angle, various printhead versions
- Automatic inkjet monitoring

STORAGE TANK

- Capacity of non-pressurized ink and solvent storage tank: 1.3 l, can be topped up during production
- Fill level display with fully automated monitoring
- Display for pending printouts

INKS

Which inks are available depends on the printer type and the selected options

- Ink consumption: up to 160 million characters/l (matrix 5x5 / nozzle 50 µm)
- Solvent consumption: Can be reduced to less than 1.2 ml/hour using EcoSolv (depending on nozzle size, solvent base and ambient temperature); various pigmented and soft pigmented inks
- Fast-drying solvent inks (<1 sec)

WEIGHTS AND PROTECTION CLASSES

- Weight: Printhead 1.5 kg, cabinet 20.5 kg
- IP 54 protection class

POWER RATINGS AND AMBIENT CONDITIONS

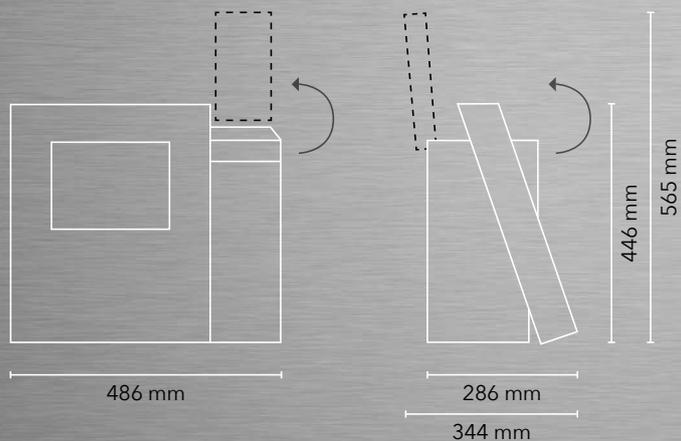
- 100 - 240 V, 50 - 60 Hz, typically 20 W
- Temperature range + 5 °C to + 45 °C
- Relative humidity max. 90%, non-condensing

ACCESSORIES

- Product detector, incremental encoder, printer stand, printhead brackets, alarm lamps, etc.
- Software for remote control and multi-head control



JET RAPID WIRE Dimensions



Paul Leibinger GmbH & Co. KG
Daimlerstraße 14
78532 Tuttlingen
Germany

Phone +49 (0) 74 61 / 92 86-0
Fax +49 (0) 74 61 / 92 86-199
info@leibinger-group.com

www.leibinger-group.com