

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.
- Country-specific on-screen keypad
- Can also be operated using a mouse or keypad
- Comprehensive self-diagnosis and status display with plain text output and help function, printer status display (fill level indicator)
- Password function and service menu
- Windows-based interface, WYSIWYG style

Data management/backup

- Storage of any number of jobs and graphics
- Data buffer in case of power failure
- Explorer
- Job management with machine parameter storage
- Data logging
- Upload and download of jobs and graphics via flash drive

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
- No external compressed air supply necessary
- Automatic interval function

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
- Any installation location, even for overhead applications
- Safety switch for printhead lock

Printing functions

- Country- and industry-specific fonts, e.g. Arabic, Cyrillic, Chinese, Persian
- Special fonts
- Tower print
- Multiline fonts
- Fonts and graphics can be positioned and combined as required
- Proportional function for all fonts
- Adjustable font height and font width
- 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
- Two individually programmable counters, consecutive numbering, product counter, meter marking
- Multistage contrast and bold function, print repetition, print delay, backward print, rotation/mirroring of text, inverse, reverse and alternating prints (object-dependent)
- Stop function after reaching preselected amount

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, 1 input, 3 outputs
- Alarm, refill, print ready, print finished, external job selection, etc.
- USB port

Consumables

- Black dye-based inks
- Fast-drying inks (<1 sec.)
- Halogen-free inks
- MEK-free inks

Accessories

- 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	Not required
Display	5.7" TFT touch display
Umbilical length	9.8 ft
Umbilical bend radius	> 2.36" (fixed routing), > 3.94" (movable routing)
Umbilical type	extruded
Umbilical printhead connection	straight, designed with an extruded fitting
Printhead type	SK6
Printhead nozzle size	70 µm
Printhead material	Chassis: aluminum, Printhead cover: V2A
Printhead weight	approx. 3.3 lbs (with umbilical)
Printer cabinet material	V2A
Printer cabinet weight	37.5 lbs (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

Printing performance data

Character height	0.07" to 0.31"
Fonts	5x5 to 16x10 drops
Max. speed	879 ft/min
Max. number of lines	3 lines
Max. vertical resolution (stroke height)	24 drops

Consumption

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

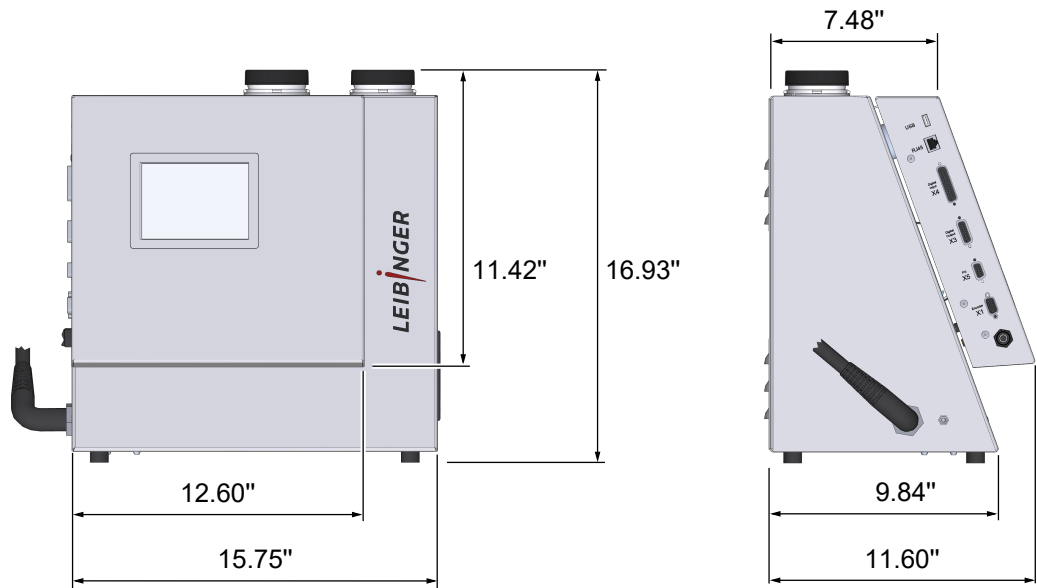
USB	For general data exchange Version: Type A
Rotary encoder (X1)	For connecting incremental encoders Version: HD-D-SUB, socket, 15-pin, TTL, HTL, RS-422
Digital outputs (X3)	3 freely configurable outputs Version: D-SUB, 15-pin, socket
Digital inputs (X4)	1 freely configurable input, two preset inputs 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

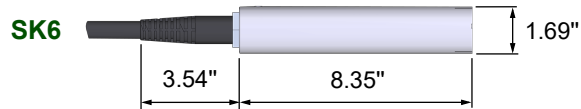
Certification marks	CE, UKCA
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Dimensions

Printer cabinet



Printhead



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