EBS: Innovations since 1977

BOLTMARK® SERIES

EBS-6800P

CONTINUOUS INK-JET CODER FOR PIGMENTED INKS

The all-round pigment ink coder with full printing options

EBS-6800P is an industrial single-head INK-JET coder designed for labeling of objects moving on a factory conveyor without requiring direct contact. Prints are produced with colored **pigment-based inks**. The feature that differentiates this coder from others is the fact that **it does not need to be supplied from a compressed air system**.

Printers on offer differ in maximum print height (MPH, the maximum height of a vertical row) which can be **16**, **25** or **32** dots.

Choosing from a variety of printer capabilities, only the most important features are specified below:

Contrast overprint

The pigment inks used in our printers, such as white or yellow ink, allow print on a variety of dark substrates. Other inks, such as green or blue ink, allow high contrast and good coverage overprint of any surfaces, also work well on multi-colored substrates.

Efficiency and durability of printing

EBS pigment inks have excellent adhesion to many difficult surfaces, while retaining the durability required by many applications. Excellent for printing on cables, rubber hoses and plastic articles, insulating sleeves, and also on all other surfaces where the use of homogeneous (non-pigment) inks gives unsatisfactory intensity and contrast.

Very simple-changing of consumables & iModule$^\square$

The EBS-6800P printer is fitted with an integrated ink system, which can be changed in 3 simple steps in less than a minute: Open the flap, remove used iModule®, insert new iModule® – done! No technician and no tools needed. Equally, the quick change of ink and solvent bottles works in the same way. No interruption of printing, no unscrewing of the bottle cap and no dirty fingers: Remove the used bottle, insert the new one – click!

Ecological and efficient

Environmentally friendly - the undisputed feature of the EBS-6800P BOLTMARK® I series printer. An extremely low power consumption (only 22 watts) creates a new quality in the CIJ printers segment. Low consumption of consumables provides EBS-6800P printer with a leading position among eco-friendly marking devices.

Product specifications

Parameter	Value
Physical properties	
Housing	stainless steel
Housing dimensions	width: **300 mm**, height: **470 mm**, depth: **211 mm**.
Printhead dimensions	- straight: diameter φ **40 mm**, length **198 mm** - angular (option): diameter φ **40 mm**, length **127 mm**, height **130 mm**
LCD dimensions	**5.7"/144.8 mm**
Weight	about **13.8 kg** without fluids
IP Protection class	Printer casing (excluding the printhead): - **IP44** (standard), - **IP54** (option).
Feeder cable length	**2.2 m**
Technical data *)	
Number of print-heads	**1**
Printer position during printing	vertical
Printhead position during printing	any
Head cable	- head cable length: **3m** (standard), **4m**, **6m** (option). - minimum cable bend radius: **75mm**.
Distance from the printhead to an object	from **0** to **30 mm**
Connections	- **USB**, - **ETHERNET**, - **PHOTO**: photodetector input, - **SHAFT**: shaft-encoder input, - optional connections (e.g. RS-232).
Terminal	a built-in terminal equipped with an air tight, splash proof, chemicals resistant alphanumerical keyboard and a big touch control LCD (touch screen)
Print release	photodetector other detectors can be connected, if required by a user
Timing of print columns	- internal generator, - shaft-encoder.
Working conditions	
Environment	- working temperature: from **+5** to **+40°C** (from **+41** to **+104°F**), - relative humidity: to **90%** without condensation.
Acceptable exposure to vibration and impacts	- vibration: **max.: 1 g, max. 10 Hz**. - shocks: **max. 1 g, max. 2 ms**.
Power supply	- supply voltage: **100 - 240 VAC, 50/60 Hz**. - max. current consumption (in normal working conditions): **0.65 - 0.3 A**.
Compressed air supply	· **not required!!!**
Required inactive time	**none**; the device can run uninterruptedly for 24 hours
Specifications	
Print height	from **1.4** to **12 mm**
Maximum print height (MPH, the maximum height of a vertical row)	**16** (or optionally **25** or **32**) dots

Maximum number of texts	- **1024** (standard). - **2020** (optional).
Types of subtexts	- **CHARACTER STRING**, - **GRAPHICS**, - **BAR CODE**, - **TEXT NAME**. Subtexts whose contents are: - static, - dynamic (so called special registers: counters, date, expiration date, time, shift identifier, external data, variable field, text contents).
Character matrices	-Latin: **5x5, 7x4, 7x5, 9x5, 9x7, 11x7, 12x6, 12x7, 14x9, 16x9, 16x10, 16x14, 21x15, 25x15, 32x18** and any combination of the a/m matrices can be used within the restrictions imposed by a selected text profile. (including national characters: German, Polish, Danish, Spanish, Swedish, Turkish, Portuguese, Greek, Czech, Slovak), - Cyrillic: **5x5, 7x6, 9x7, 12x7, 12x9, 16x10, 25x19, 32x24** (including Ukrainian, Kazakh characters), - Arabic, - special, - Armenian, - Japanese, - Chinese.
Bar codes	- 1-dimensional (1D) codes: **Datalogic, Matrix, 2/5 5 Bars, 2/5 IATA, Interleaved, Code 39, EAN-8, EAN-13, EAN-13 +EAN5, UPC-A, UPC-A EBS, UPC-E, Kod 128, EAN-128, Kod 128B, ITF8, ITF14**. - 2-dimensional (2D) code: **Data Matrix ECC-200** (an option).
Graphics	- edited with graphics editor. - its maximum height is determined by a selected text profile.
Maximum print rate for **Speed=FAST** printing parameter	- 2083 cps - 1 line 5x5, - 1890 cps - 2 lines 5x5, - 607 cps - 3 lines 5x5, - 809 cps - 4 lines 5x5, - 489 cps - 5 lines 5x5, - 1785 cps - 1 line 7x4, - 1247 cps - 2 lines 7x4, - 728 cps - 3 lines 7x4, - 792 cps - 4 lines 7x4, - 709 cps - 1 lines 11x7, - 304 cps - 2 lines 11x7, - 312 cps - 1 line 16x9, - 76 cps - 1 line 25x15, - 31 cps - 1 line 32x18. with 1 space row between characters.
Consumables	
Type of ink	**pigment**, based on methyl-ethyl ketone or ethanol
Ink color	multicolor, provided that ink of one type only is used
*) note - the manufacturer reserves that:	the range of available features, options and printer parameters may vary and depend on the option you have negotiated