

REA JET

INDUSTRIAL CODING AND
MARKING SOLUTIONS –

REA JET HR *pro* 2K

High resolution coding & marking system
based upon HP technology



Coding & marking family REA JET HR is growing: REA JET HR *pro* 2K



REA JET has expanded their successful REA JET HR marking & coding family. Up until now, the HR 2K with the protection class IP 65 for direct on-site operation and HR *pro* 4K with the protection class IP 20 for control cabinet installation were available. The HR 2K can be directly operated over the graphic display with max. 2 print heads. The HR *pro* 4K has a smaller display for parameterizing and is operated using the integrated web server. On the HR *pro* 4K, up to 4 print heads can be operated. The HR *pro* 4K is used with many machines and installations. With the new HR *pro* 2K, a control cabinet device with an IP 20 design for max. 2 print heads is now available. When used with the appropriate applications, costs and space requirements are reduced.

The REA JET HR *pro* 2K is based on the HP TIJ (Thermal Ink Jet) technology which has proven itself billions of times. The REA JET HR *pro* 2K marking & coding system with a max. print height of 25.4 mm, makes the well-known HP technology for marking & coding in the office available for the industrial environment. REA JET has maintained their outstanding position in the field of industrial marking & coding systems with the following characteristics:

- **Small, compact stainless steel control unit with IP 20 design**
Perfectly suitable for control cabinet installation / integration in machines and installations.
- **Stable print head with an aluminum design (milled from solid material)**
This well-thought-out construction optimally protects the cartridge in harsh daily industrial use. One TIJ cartridge can be inserted per print head. With this, a marking height of maximum 12.7 mm per print head is available.
- **Simple cascading of the print heads**
The print heads can be simply and perfectly cascaded thanks to the precise, permanently integrated assembly aids (dowel pins and notches). With these, a print height of up to 25.4 mm can be achieved with the REA JET HR*pro* 2K.
- **Compact dimensions**
Despite the very sturdy design of the print head, it has very small dimensions. This compact print head design enables the integration in almost every machine / system without additional print head variations being necessary.
- **Locking lever for the cartridge with integrated position monitoring**
This wear-free monitoring (using a magnet sensor and not a mechanical switch) enables the removal / exchange of the cartridge without the control device needing to be manually stopped beforehand. The stop of the control device is automatically triggered using the monitored locking lever.
- This guarantees safe handling of the cartridge without additional intervention of the user.
- **Simple parameterizing and control of the device status**
The REA JET HR*pro* 2K is equipped with a full-color graphic display with a diagonal screen size of approx. 8.9 cm (3.5 inches) and an industrial-grade rotary knob with push-button function control element. Using this, the network address of the marking & coding device can be set and jobs can be selected and assigned. Over the display the most important information about the actual JOB and the status of the print heads can be queried.
- **Comfortable and reliable operation using the integrated web server**
The parameterizing and operation take place using the integrated web server. This can be done using every standard web browser. No separate software is required. The use of the current web technology allows a quick and intuitive operation. This reduces the training time to a minimum while maintaining high operational reliability. Just like the device user interface, the web server is equipped with over 20 different operating languages. This, together with the optimally implemented comprehensive graphical interface, makes world-wide use very simple.
- **Modular concept**
The modular concept, which is used for all components, allows problem-free and economical adaption of the marking & coding system that meets various customer requirements.

- **Comprehensive range of accessories**

The well-thought-out range of accessories with many handy components such as brackets, I/O connecting elements, signal lamps, various product sensors, etc., enables simple and quick integration. The optimized I/O connecting element for top hat rail assembly notably simplifies the installation of the **HR pro 2K** in the control cabinet.

- **Control unit with wide-range power supply unit**

The wide-range power supply unit used in the REA JET HR 2K control unit is designed for networks with 95V – 250V AC at a frequency of 50 – 60 Hz. With this, only one control unit is needed worldwide, which simplifies the work of many machine manufacturers and globally active firms.

- **Support of True Type Fonts (TTF) and the Unicode character set.**

The support of true type fonts guarantees that the corresponding TTF can be used directly in the REA JET HR without converting or editing. This also applies to customer specific TTF. The support of Unicode character sets, with existing corresponding fonts, enables the use of variable print contents in every language.

Because of new legal requirements and increasingly higher demands for product safety (e.g. protection against product counterfeiting) the number of necessary product markings and their complexity are continuously increasing. This frequently requires systems which are directly integrated in the production line or production machine. With the new **HR pro 2K**, REA JET now also has a compact and economical control unit, when two print heads are sufficient for the application.

	REA JET HR 2K	REA JET HR 4K	REA JET HRpro 2K	REA JET HRpro 4K
Dimensions (approx.) (L / W / H) Weight	308 x 287 x 142mm 10 kg	355 x 287 x 142mm 9.1 kg	265 x 176 x 100mm 4.1 kg	350 x 176 x 100mm 8 kg
Protection class of the housing	IP 65	IP 65	IP 20	IP 20
Max. attachable print heads	2	4	2	4
Max. marking height	25.4 mm	50.8 mm	25.4 mm	50.8 mm
Digital inputs (24V DC)	6	12	6	12
Digital outputs (24V DC)	4	8	4	8
Processing performance	Standard	Standard	High performance Especially suitable for serialization applications	
Device display - Type - Size	Full-color graphic display Diagonal from approx. 14.4 cm (5.7 inch)		Full-color graphic display Diagonal from approx. 8.9 cm (3.5 inch)	
Operating element	Numeric keypad and cursor keys, the keys Start, Stop, ESC, DEL, OK, HELP, Menu and Backspace, five context dependent functional keys and a rotary knob with push-button function		The network address can be set and a job can be selected and assigned on the device.	
Device operation	Especially suitable for applications where the entries will be made on-site.		Especially suitable for integration in the installation / machine.	
Websserver	Yes	Yes	Yes	Yes
VNC	Yes	Yes	Yes	Yes

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7307 Young Drive
Walton Hills, Ohio 44146
E-Mail: info@reajetus.com
Phone: 440-232-0555
Fax: 440-232-5335
www.reajetus.com

