

REA JET

INDUSTRIAL CODING AND
MARKING SOLUTIONS -
MADE IN GERMANY

REA JET HR *pro* OEM

High-resolution coding and marking system
Fully integrated for demanding serialisation tasks



The REA JET HR coding and marking family is growing: REA JET HR *pro* OEM for Machine and Systems Engineering

Throughout all industry segments there is a growing need for coding and marking. Nowadays, hardly any product leaves the factory without printed information: Best-before dates as well as 1D and 2D codes for automatic identification and control of logistics processes. Serialisation for traceability, counterfeit protection, printing of gaming codes, personalised printing and the implementation of new coding and marking directives throughout various industry segments call for innovative and industry-4.0 compatible technologies.

REA JET's HR product family offers high-resolution coding and marking systems using especially developed inks to facilitate clean, environmentally-friendly and solvent-free marking on even non-porous surfaces. HR series systems are maintenance-free. They represent an economical alternative to Continuous Ink Jet (CIJ) systems for numerous applications offering an even enhanced marking quality.

The **REA JET HR *pro* OEM** is the latest member of the HR product family and was especially developed for a fully-integrated installation in machines and systems. With the smallest dimensions in its class, the **REA JET HR *pro* OEM** controller fits into any type of machine and control cabinet. The **HR *pro* OEM** accommodates connection of up to 4 print heads, and its extremely high-performance processor is powerful enough to meet future coding and marking demands. The **HR *pro* OEM** is the first choice for rapid serialisation applications and complete machine integrations.

Small and compact device controller (IP 20 protection class)

Ideally suited for installation in control cabinets and integration into machines and systems – only 36 mm mounting depth.

Sturdy print heads in aluminium design (milled from solid material)

This smart construction offers optimal protection for the cartridge in clean and even demanding daily industrial use. Each print head accommodates one TIJ cartridge. For bar-codes, graphics and human readable texts this allows a font height of max. 12.7 mm per print head. Print heads and sliding plates are available for special requirements.

Simple print head cascading capability

Thanks to the exact, firmly integrated installation accessories (dowel pins and notches) the print heads can be simply and precisely cascaded. This allows for a font height of up to 50.8 mm using four cascaded print heads.

Compact dimensions

Despite the the very robust design of the print head, its dimensions are surprisingly small, which is especially important for cascading multiple print heads. The compact print head design facilitates integration into virtually all machines and systems.

Locking lever for cartridge with integrated position monitoring

This wear-free monitoring by magnetic sensor allows removal and exchange of cartridges without the need to manually stopping the controller. This is triggered automatically by the monitored locking lever. This ensures safe handling of the cartridge without operator intervention.

Checking device status

At a glance, the **REA JET HR *pro* OEM** reliably informs the user via status LEDs about pending signals and the device status (digital I/Os, shaft encoders, their rotation direction, print head status with cartridge detection, job start etc.).

Automatic ink level monitoring

The cartridge chip continuously provides information on current ink level, fire parameter settings and use of the correct ink. If ink filling level in cartridge is running low, you are automatically informed and can react promptly.

Safe operation via integrated web server or your machine control panel

Safe parameterisation and operation of the **HR *pro* OEM** can be performed via the integrated web server or directly via the machine control panel (HMI – Human Machine Interface).

The web server can be operated through any standard web browser, no separate software is required. Use of current web technologies facilitates rapid and intuitive operation. This ensures operational safety and reduces the training period to a minimum. The web server operates in over 20 languages, which makes worldwide use very easy. Operational safety is ensured by the HTTPS protocol, authentication via security token and the integrated user management.

The operation of the printing system via the machine control panel (HMI) is achieved by an interface which uses a modern communication protocol (asynchronous / event-driven). User guidance is completely integrated and realised via the machine operation panel. The choice is up to you.

Modular concept

The modular concept running through all components facilitates smooth and economical adaptation of the coding and marking system to various application requirements.

Simple installation in switching cabinet

Separable plug connectors facilitate simple pre-wiring in switching cabinet and if required a rapid device exchange.

Controller for switching cabinet installation

Power supply for the **REA JET HR pro OEM** is provided by the 24V DC inlet, which enables simple integration into the switching cabinet with very low heat generation and independent of mains supply on global site.

Full True Type Font (TTF) and Unicode Character Set support

Full True Type Font support guarantees that all corresponding TTFs can be used directly with the **REA JET HR pro OEM** without conversion or further processing. This also applies to client-specific TTFs. As long as the corresponding font is available, the fully supported Unicode Character Set enables the use of variable print content in any desired language.

Future Proof Investment

The use of high-performance future-proof components assures you to be best prepared for upcoming serialisation tasks.

New legal conditions and ever-increasing requirements placed on product safety (e.g. against counterfeits) mean an increasing number of necessary product coding and marking options with added complexity. At an increasing number, coding and marking systems are directly integrated into the production line or production machine. With the new **HR pro OEM** REA JET presents an ultra-flat control device for demanding coding and marking tasks, compact enough to be mounted into the smallest spaces.

| REA JET | HR 2K | HR 4K | HR pro 2K | HR pro 4K | HR pro OEM |
|--|---|----------------|--|----------------|---|
| Typical target group and application areas | Industrial enduser for direct and package printing requesting complete device operation. Variable data and codes in high-resolution quality on absorbent and non-absorbent surfaces. | | Machine manufacturers integrating the coding and marking solution directly. Most important operating and monitoring functions are possible on controller display. Volume requirement < 30 pieces per year. | | Machine manufacturers, fully integrating the printer into the machine control. Large series > 50 pieces per year. |
| Dimensions (L/W/H) | 308x287x142 mm | 355x287x142 mm | 265x176x100 mm | 350x176x100 mm | 310x195x36 mm |
| Weight | 10 kg | 9.1 kg | 4.1 kg | 8 kg | 2.8 kg |
| Housing protection class | IP 65 | IP 65 | IP 20 | IP 20 | IP 20 |
| Max. number of print heads | 2 | 4 | 2 | 4 | 4 |
| Max. print height | 25.4 mm | 50.8 mm | 25.4 mm | 50.8 mm | 50.8 mm |
| Digital input (24V DC) | 6 | 12 | 6 | 12 | 4 |
| Digital output (24V DC) | 4 | 8 | 4 | 8 | 4 |
| Processor power | Standard | Standard | High performance Especially suited for serialisation applications. | | Super high performance, best suited for high-speed serialisation. |
| Status display / device display - Type - Size | Full-colour graphic display Diameter approx. 14.4 cm (5.7 inches) | | Full-colour graphic display Diameter approx. 8.9 cm (3.5 inches) | | Display of relevant system parameters on status LEDs |
| Operation | Number pad and cursor block, Start, Stop, ESC, DEL, OK, HELP, Menu and backspace keys, five related function keys and dial with pushbutton function. | | The device permits setting network address and job selection/allocation. | | Job selection and assignment as well as selection of network address. |
| Webserver | Yes | Yes | Yes | Yes | Yes |

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