REA JET

REA JET HR

High-Resolution Coding and Marking System
based on HP-Print Technology
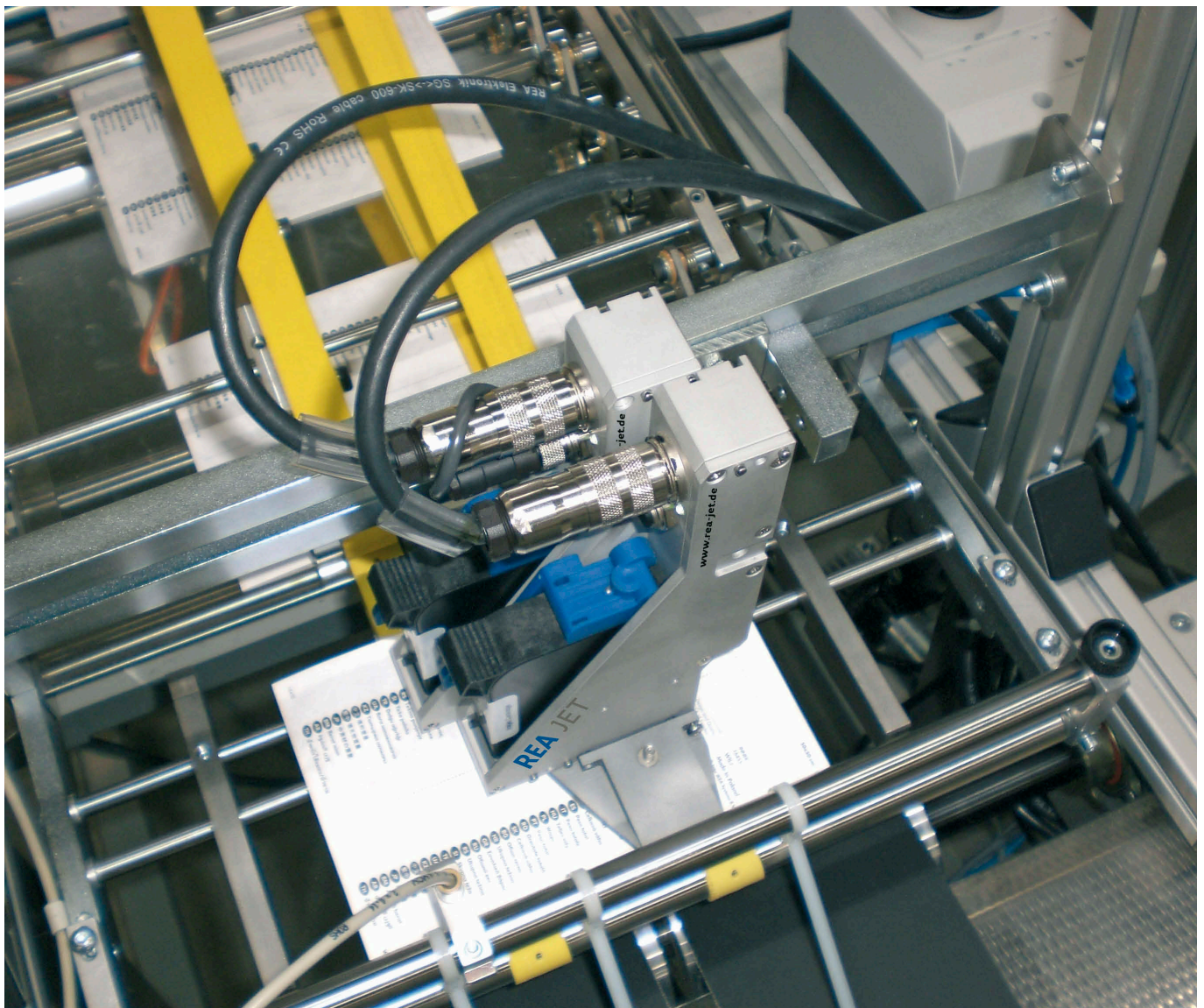
Innovative, Maintenance-Free Product Marking: High Resolution Ink Jet Printers (HP)

The high resolution ink jet printers with HP print technology utilize the thermal ink jet technology that is trusted by millions of users of office printers. The robust stainless steel housing, the intuitive operation and well-conceived print head design make this coding and marking system suitable for unlimited industrial-strength applications. The system particularly proves its worth in the pharmaceutical, food, wood, paper and packaging industries. For marking at a print height of 12.7 mm per cartridge. If greater print heights are required, several print heads can be cascaded. With its integrated Ethernet interface and full Unicode support (UTF 8), the HR print system is the system of choice for serialization tasks and track & trace projects. Up to 4 print heads are supported, depending on type of equipment.

Applications:

- protection against counterfeiting and traceability
- ideally suited for serialization and track & trace applications
- for absorbent and non-absorbent surfaces
- alphanumeric texts, barcodes, 2D codes, DataMatrix codes and logos
- variable data such as date, time, counter, shift code, database contents
- highest print resolution up to 600 dpi, configurable in 16 levels

Controller

Advantages:

- utilizes the HP thermal ink jet technology (TIJ) that is trusted by millions of users of office printers
- maintenance-free – every time you change a cartridge, you receive a new print head
- permanent storage of the various cartridge fill levels
- monitoring of cartridge locking
- highest operational reliability
- easy and intuitive operation due to central push-turn jog-dial knob
- international, due to Unicode character set (UTF 8) and multi-voltage power supply
- XML-based data structure and communication
- lowest (ink) consumption due to precisely scalable font size and rasterization
- state of the art interface technology, for integration into machinery and equipment
- easy cascadability of print heads: Due to precise, permanently installed mounting aids the print heads can be easily and accurately cascaded
- controller in stainless steel housing with IP65 protection class
- optional accessories such as robust, easy-to-configure parallelogram for distance offset in different product positions during printing

Print Head

Inkjet Technology by
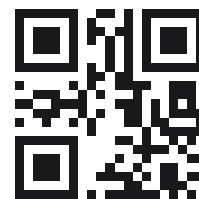
Functions*:

- static Text- and Bitmap-Objects: No limitation in number of objects, text length only limited by the layout length
- dynamic Objects like: date, time, working shift code, counter, barcode, 2D-Code
- variable Objects: Object content replaced by the host system for every new print

Print parameters:

- max. print height: 50,8 mm
  HR 2K = 2 print heads, each 12,7 mm= ½"
  HR 4K = 4 print heads, each 12,7 mm = ½"
- max. print length: 1330 mm layout length
- printing speeds: 38 to 762 m/min.
- vertical resolution: 300 and 600 dpi
- horizontal resolution: 60 to 600 dpi in 16 steps:
  60 dpi, 100 dpi, 120 dpi, 150 dpi, 180 dpi, 200 dpi, 220 dpi, 240 dpi, 260 dpi, 300 dpi, 360 dpi, 420 dpi, 450 dpi, 480 dpi, 540 dpi, 600 dpi

Communication-interfaces:

- Ethernet, USB, (RS232): included

Operation:

- display: 14,4 cm (5.7") full colour graphic display, + direct status indication with 6 LEDs
- input: Jog dial, five menu-dependent function keys, decimal key block, four cursor keys, keys ESC, DEL, OK ONE, Help, Alt, Menu and backspace
- integrated WebGUI

PLC Connection:

- input: 6 x 24V DC/PNP (rising edge switching)
- output: 4 x 24V DC/PNP, max. 250 mA each
- shaft encoder: voltage 24V DC

Mechanical Data (Controller):

- width x depth x height: 30 cm x 28 cm x 14 cm
- weight: 8,7 kg
- protection class: IP65

Mains Power:

- voltage: 95 V to 250 V AC
- frequency: 50/60 Hz

* The availability of the individual functions depends on the available software status of the equipment.

Marking of wood

Marking of flour bags

Cardboard box coding using DataMatrix code

Coding of plastic profile plates

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