

General Release
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**HIGHLY ROBUST DROP-ON-DEMAND INK JET EQUIPMENT
NOW AVAILABLE FROM PANNIER**

**Patented REA-JET System Stands Up to Tough Industrial Conditions,
Various Inks While Offering Faster Speeds, Significantly Lower Ink Usage**

PITTSBURGH, March 7, 2003—With patented technology that works in industries where most ink jet marking equipment fails, the REA-JET systems from REA Elektronik GmbH are robust, fast and ink-efficient. These fourth-generation drop-on-demand printers, with their proven track record in extreme operating conditions throughout Europe, are now available in the United States through Pannier Corporation.

"REA-JET is the most advanced family of drop-on-demand ink jet printers available today for industrial manufacturers," said Dean Marlin, director of part marking for Pannier. "Designed to be rugged, these printers can even withstand washdown environments. REA-JET solves many of the traditional problems U.S. manufacturers have faced with ink jet printing technology."

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Rated IP-65, REA-JET ink jet printers can withstand dust, high humidity, extreme temperatures, aggressive materials and vibration. The printers are more than 10 percent faster and use up to 30 percent less ink than the competition, reducing cost of ownership and boosting manufacturing productivity.

REA-JET delivers quality printed images in character sizes ranging from 1/4" to 5 1/4" on most any surface, including carpet backing, concrete, stone, gypsum board, lumber, PVC, vinyl, steel, aluminum, tires and rubber. Its patented print-head technology handles numerous inks, including pigmented and curable, and allows the user to change ink types without affecting the operation of the printer.

"These printers can also be integrated easily into existing manufacturing systems because their software and hardware allow them to be hooked up via a RS-232 serial port," said Marlin. "And because of their design, a module requiring attention can be removed and replaced by the operator in a matter of minutes. This philosophy of 'replacement not repair' ensures the printer is operational in the shortest period of time and the impact to the production cycle is minimal.

For additional information about the REA-JET family of ink jet printers from REA Elektronik GmbH of Germany, contact Pannier Corporation at 412-323-4900 or sales@pannier.com.

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Pannier Corporation is one of the world's leading researchers, designers and manufacturers of industrial marking and identification products and engineered systems. Founded in 1899, the Pittsburgh-based company produces bar-coding, printing, stamping and embossing equipment for high- and low-tech industrial applications; automated identification systems and customized marking machines for specialized applications and modernization; fiberglass signage; and precision machined parts for the aerospace, medical, defense and high-tech industries.

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REA-JET System Specifications

Industrial Environments	Dust, high humidity, extreme temperatures, aggressive materials, vibration
Materials	Carpet backing, concrete, stone, gypsum board, lumber, PVC, vinyl, steel, aluminum, tires and rubber
Inks	Pigmented, curable, water-based, ethyl alcohol, isopropyl alcohol, ethyl acetate, MEK (high-speed drying), and customized
Character Size	1/4" to 5 1/4"
Print Matrix	5x5, 7x5, 10x10, 16x10
Print Speed	7x5 matrix: 140 characters/second 16x10 matrix: 80 characters/second
Mounting Configurations	Top, bottom or side Right-to-left printing or left-to-right printing
Serial Interface	RS-232 (RS-422 optional)
Additional Features	Operator selectable print delay; operator adjustable print height/width; variable text with fixed image in same print; serial numbering; internal clock (production date/time, "Sell by", "Best Before", "Use by", etc.); operator selectable/stored messages; various print options (back to front, inverted, upside down, etc.); water resistant

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