

RUBBER PRINTING SYSTEM



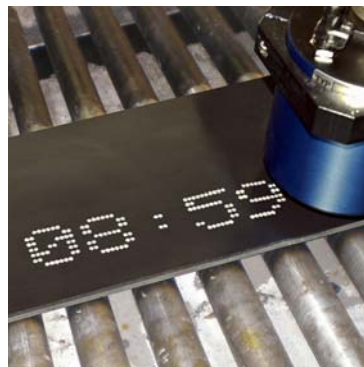
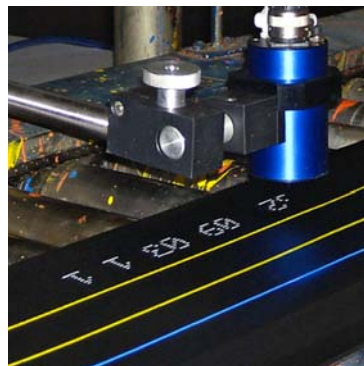
The Rubber Printing System is a specialized ink jet printer developed in partnership with the tire industry for printing on rubber compound and tire components. The system uses a unique print head and ink circulation system designed to print with rubber-based, co-curable inks. The Rubber Printing System is used by tire and rubber manufacturers worldwide for reliable product identification printing.

NON-CONTACT PRINTING

The ink jet print head does not make contact with the product, eliminating any deformation of tread or sidewall profiles.

REAL-TIME INFORMATION

Batch codes and time stamps in printed messages update automatically to ensure precise, mistake-proof product tracking. Batch codes and other manufacturing data can be entered manually or sent from a host computer or PLC.



SPECIFICATIONS

Power Supply	24V DC super extra low voltage (SELV) power supply IP67 external power adapter 100V – 277V AC, 50-60 Hz
Operating Environment	Controller: -5°C to 40°C 23°F to 104°F Other Components: 0°C to 50°C 32°F to 122°F Humidity: 95% maximum, non-condensing
Protection Class	IP65 against ingress of dust and fluids
Languages	English and 31 more selectable languages
Print Heads Per Controller	Up to 512 nozzles (dots) per controller
Print Speed	Up to 600 meters/minute 1,960 feet/minute
Cable Lengths	Controller to PCU: 0.5 to 50 meters 1.6 to 160 feet PCU to Print Head: 3 or 6 meters 10 or 20 feet

PRINT HEADS

Next-generation print heads are redesigned for longer service life in between cleanings or repairs. Heads connect to the controller with 16-dot or 32-dot print head control units (PCUs) for flexible system configuration and easy component replacement.



	7 Dot	16 Dot	32 Dot
Print Height	9* to 27 mm .35" to 1.06"	9 to 67 mm .35" to 2.64"	9 to 140 mm .35" to 5.51"
Lines of Text Per Head	1 line	1 or 2 lines	1 to 5 lines
Fonts (dots tall x dots wide)	5 x 5 (1 line) 7 x 5 (1 line)	5 x 5 (2 lines) 7 x 5 (2 lines) 10 x 10 (1 line) 16 x 10 (1 line)	5x5 (up to 5 lines) 7x5 (up to 4 lines) 10x10 (up to 3 lines) 15x10 (up to 2 lines) 32x20 (1 line)
Dimensions H x W x D	60 x 60 x 101 mm 2.4" x 2.4" x 4"	100 x 100 x 101 mm 4" x 4" x 4"	180 x 73 x 104 mm 7.1" x 2.9" x 4.1"

* Smaller character sizes are possible for special applications.

INKS

A variety of specially formulated co-curable inks can be used with the Rubber Printing System. Curable inks contain rubber, which ensures that the printed message becomes a permanent part of the cured rubber product without transferring or sticking to molds.

Formulations

- Solvent based
- Water based
- Disappearing
- Water removable for finished tire marking

INK SUPPLY & CIRCULATION SYSTEM

The ink supply's 4.5 liter external ink tank is easy to refill, and quick-change tank liners lessen the need to clean and flush the unit. Dual pumps continually mix and circulate inks to prevent settling. No air is required.

Ink supply units are available with an onboard print head flushing tank for manual or automatic print head flushing.



TITAN CONTROLLER

TITAN controllers feature a color graphical display, pushbutton selection dial, and USB port for easy transfer of marking job files.

Data can be entered directly or sent via Ethernet using a simple communication protocol. Integrated web access enables remote monitoring and operation from a PC or mobile device.



The controller includes two print head ports for up to 512 total nozzles, Ethernet, serial, and USB ports, and a freely programmable digital I/O port.



Pannier Corporation
207 Sandusky Street
Pittsburgh, PA 15212 USA
sales@pannier.com
+1 412.323.4900

INDUSTRIAL MARKING SYSTEMS SINCE 1899

Dot Peen Systems
Ink Jet and Flexographic Printers
Laser Marking Systems
Steel Hand Stamps & Marking Dies
Tags, Labels, and Printers