



RANGER PRINTING SYSTEM

**Your Needs.
Our Solution.**



Leader Delivers What You Need. . . Today

The Ranger ink jet printing system offers the durability, versatility and productivity that you have come to rely on from Leader. Whether you are printing lot codes on aspirin bottles, bar codes on blister packs or product information and logos on corrugated cases, you're sure to find the right solution with Leader's new Ranger.

Our Innovations Make Your Job Easier

Tired of messing with expensive inks and make-ups for small character CIJ printing? Tired of daily maintenance and downtime? Are initial equipment costs destroying your budget? Leader's innovative Ranger offers an alternative for your small character product marking applications. Ranger users can print up to four lines of text on any porous or non-porous surface. No matter what product you need to print, Ranger has the functionality to get the job done right.

Superior Resolution Makes You Look Your Best

Using industry proven shared-wall piezo technology, Ranger offers better print quality than competitive dot-matrix, CIJ or high-resolution printing systems. With 128 addressable jets, Ranger boasts 180 dpi print resolution. The result is a system that produces razor-sharp text, scannable bar codes, and the cleanest logos and graphics of any industrial ink jet printing system on the market.

Printing As Easy As 1-2-3

Ranger is designed to work as an integral part of your day-to-day packaging operation. A simple, easy-to-use input device provides quick and easy message programming and retrieval for up to 128 different messages. Resident software in the input device walks the user through a series of prompts to program and save each message for printing on demand. Best of all, the user-friendly software is designed for people who run packaging lines, not computers, and makes everyone involved a smooth operator.

Less Maintenance = Less Downtime

The Ranger is engineered inside and out for industrial-strength operation. Heavy-duty cabinetry and printhead bracketry ensure continuous operation in the most abusive industrial environments. Gasket seals and protected data connections make the Ranger splash-proof and resistant to dust. In addition, the Ranger was designed as a modular system. Quick and easy-to-install replacement printheads, circuit boards and ink system modules minimize downtime and eliminate service calls. A fix can be completed in less than 5 minutes.

Totally Affordable Ink Jet Printing

If you've wanted to begin coding your products or expand your operation, but felt your budget restricted you from doing so, the Ranger offers a new level of economy. As the newest addition to Leader's family of marking and coding systems, the Ranger makes industrial ink jet printing totally accessible for a broader range of applications. Any way you look at it, Leader's Ranger provides users with an affordable solution to meet their product marking needs.

The Right Solution

Innovative systems. Rugged design. Lower cost of ownership. Your benefits go on and on. When it comes to industrial ink jet printing, rely on Leader's Ranger to provide the right solution for your marking and coding needs.

RANGER PRINTING SYSTEM

Ranger Printing System Components

- Controller system with detachable ink reservoir
- One printhead with data cable and ink line
- Photocell product sensor and photocell mounting bracket
- Industrial-strength handheld input device



Ranger offers better print quality than competitive ink jet printing systems.



An industrial-strength input device provides quick and easy message programming.



ImageMaster PC software provides users with complete control of their printing system.



Ranger utilizes oil-based or solvent-based inks for printing on a wide range of porous and non-porous surfaces.

Ranger Printing System Specifications

Print Technology - Third generation piezo impulse printhead technology with porous and non-porous ink capability

Print Speed - Up to 200 feet/minute (61m/minute) line speed at 200 dpi resolution with high-speed printheads

Vertical Print Resolution - 185 dpi capable of printing razor-sharp graphics, small characters and scannable bar codes

Horizontal Print Resolution - 200 dpi

Maximum Print Height - .7" (1.8cm)

Clock - Real time with battery backup

Low Ink Indicator - LED indicates low ink supply; warning light beacon optional

User Interfaces - ID3 Handheld Terminal – standard user interface for local system programming, message storage and message retrieval; PC – optional interface utilizing ImageMaster® software for loading graphics, bar codes and additional fonts

Product Sensor - Reflective type standard; proximity, thru-beam or other type optional

Communication Interfaces - System includes three female DB-9 connectors for photocell, encoder, input device or other RS-232 device, one male DB-9 connector for laser scanner, auto data or alarm out feature, and one ethernet port for PC or network connection

Electrical Requirements - Universal input, 90 - 240 VAC, 50/60 Hz, less than 0.5 amp

Component Modularity - Eliminates the need for costly service calls and minimizes downtime; printheads and components can be replaced in less than 5 minutes

Printhead Dimensions - 3.0" (7.6cm) L x 1.0" (2.5cm) W x 2.0" (5.0cm) H

Dimensions are for the printhead only - an additional 5" (12.7cm) is needed for the printhead mounting bracket which extends from the back of the printhead.

Ranger Optional Accessories

ImageMaster Software - For bar code and graphics capability; messages with bar codes and/or graphics can be recalled with ID3 handheld input device

Trigger - Two-wire trigger cable or photocell

Encoder - For operation with variable speed conveyors; required for printing bar codes

Bar Code Laser Scanner - Allows scan and print message retrieval

Conveyor Mounting Bracket - L-Bracket for complete system

Floor Stand - Includes mounting brackets and legs with leveling feet; 57" (1.5m) total height

Drying System - Facilitates quick drying of solvent-based inks

Starter Kit - Includes ink, cleaner and flush solution, flush kit, printhead wipes, hand cleaner and latex gloves

Installation and Training - On-site installation and training available from your local distributor

Controller Dimensions - 10.6" (26.9cm) L x 6.25" (15.9cm) W x 2.5" (6.4cm) H

Cabinet Construction - Anodized aluminum, splash-proof design features gasket seals and protected data connections

Operating Environment - 34°F (-1°C) to 120°F (50°C)

Substrate Capabilities - Porous and non-porous surfaces

Ink Capabilities - Several Leader formulations available to meet your application needs for adhesion and dry time

Ink System - 500ml cartridge, mechanical purge bulb, simple ink system design features no moving parts

Ranger Software Specifications

Software Features - Counter, lot counter, 24-hour clock, 8- or 12-hour programmable shift code, Julian date, 3-letter month name, 3-letter weekday name, expiration date, expiration month, expiration day, expiration year, expiration Julian date, print delay, character width, photocell on/off/repeat, invert print, reverse print, bold print

Message Capability - Up to 4 lines of text per message

Number Of Messages - Up to 128 messages

Message Length - Up to 128 characters per message standard, up to 120 inches using ImageMaster software

Fonts - Three resident fonts standard (Arial, Courier and Lucida); additional fonts can be loaded via FontMaster software

Text Sizes - 7 resident font sizes ranging from .06" (1.6mm) to .7" (18mm) tall

Bar Codes - UPC-A resident, additional bar codes can be downloaded with ImageMaster software

Logos - Logos can be downloaded with ImageMaster software

Ink Usage - Automatically calculated for each message