



PRINTSTAR

LARGE CHARACTER INK JET PRINTING SYSTEM

Reliable.
Versatile.
Affordable.



High Quality Print On Any Type Of Product

Leader's PrintStar ink jet printing system allows manufacturers to print high quality dot-matrix characters on a variety of products at a cost-effective price. In fact, the PrintStar offers the lowest price per printed character in the industry today. Users can choose between two models: a water-based system for printing on porous surfaces like corrugated cartons, paper or wood, or a solvent-based system for printing on non-porous products like plastics, stretch wraps, metals, glass or more.

User Flexibility

PrintStar users also have the option of choosing from several printhead configurations. Three different print sizes are available: 3/4", 1/2" or 3/8" character height. All printheads are capable of printing both a 7 x 5 and 5 x 5 character matrix, offering print sizes ranging from 1/4" to 3/4" in height. Users also have the flexibility to run one or two printheads at any time. All of these components are field-installable for future upgrade to meet your application's changing requirements.

User-Friendly System

The PrintStar is designed for simple day to day operation. PrintStar's state of the art input device provides quick and easy message programming and retrieval for up to 64 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. The system can also be programmed and maintained with a PC through a standard RS-232 port.

Innovative Technology And Proven Reliability

Patented micro-channeling technology eliminates the need for a costly array of fluid valves. Leader uses its own proven plunger technology and distributes ink through a series of channels, keeping production and maintenance costs to a minimum, especially when compared to the costly valve technology common in most ink jet printers today.

No More Service Calls

The PrintStar was engineered inside and out for industrial-strength operation. Heavy-duty gauge coated steel cabinetry ensures continuous operation in harsh, real world environments. If the printer does fail, a fix can be completed in less than five minutes. Quick and easy-to-install replacement printheads, PC cards and air pump modules minimize downtime and eliminate costly service calls. Best of all, the water-based PrintStar utilizes Leader's patented SQ-60™ no-clog ink, allowing users to leave the ink in their printheads for an extended period of time without flushing or cleaning, making it the most cost-effective, low maintenance ink jet printing system available today.

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PrintStar Printing System Components

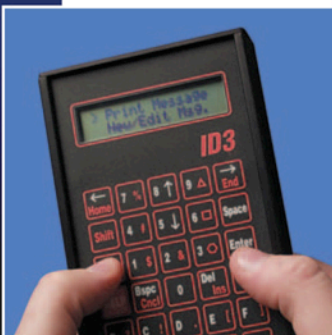
- Controller cabinet and ink delivery system
- One or two printhead(s) and printhead mounting bracket(s)
- Printhead data cable(s) and ink line(s)
- Photocell product sensor and photocell mounting bracket
- Industrial-strength hand-held input device



Leaders's patented SQ-60™ no-clog ink allows users to leave ink in their printhead without having to flush their system.



Run one or two printheads; select from three different printhead sizes; all components are field-installable.



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



The PrintStar utilizes water-based or solvent-based inks for printing on a wide range of porous and non-porous surfaces.

PrintStar Printing System Specifications

Printer Type	Large character ink jet printer
Character Height	.75" (1.9cm) in 7 x 5 matrix; .5" (1.3cm) in 5 x 5 matrix, or .5" (1.3cm) in 7 x 5 matrix; .375" (1cm) in 5 x 5 matrix, or .375" (1cm) in 7 x 5 matrix; .25" (.6cm) in 5 x 5 matrix
Character Set	61 character ASCII set
Print Speed	20 feet/minute (6.1m/minute) to 200 feet/minute (61m/minute) line speed; optional extended character width firmware allows for print speeds slower than 20 feet/minute
Message Length	60 characters per message; 64 memory locations
Communication	RS-232C, 9600 baud, 8 data bits, 1 start, 1 stop, Asynch
Software Features	24-hour clock, Julian date, counter, lot counter
Operating Features	Dot size, print delay, character width, photocell on/off, invert print, reverse print, purge routine
PrintStar Exchange Program	Eliminates the need for costly service calls and minimizes downtime; troubled printheads and components can be replaced in less than 5 minutes
Controller Dimensions	12" (31cm) H x 12" (31cm) W x 5.25" (13cm) D
Controller Weight	10.5 lbs. (4.8kg)
Printhead Dimensions	3" (7.6cm) H x 1.6" (4.1cm) W x 7" (17.8cm) L; dimensions are for the printhead only – an additional 3" (7.6cm) is needed for the ink line and cabling which extends from the back of the printhead
Product Sensor	Diffuse beam photocell (24v) or hardware sinking signal
Electrical Requirements	110/120 VAC, 50/60Hz, 1.6 amp
Cabinet Construction	Industrial gauge coated steel
Operating Environment	38°F (3°C) to 122°F (50°C)
Substrate Capabilities	Porous or Non-Porous surfaces
Air Requirements	No external air needed
Ink Capabilities	Porous: Leader SQ-60™ no-clog ink Non-Porous: Several Leader solvent based fluids to meet adhesion and dry time needs
Ink Volume	.5 (1.89 liters) gallon bottle standard; available upgrade (water-base ink only) to 5.0 gallon pail (18.93 liters)

PrintStar Optional Accessories

Spare Parts Kit	Includes spare printhead, card cage and PC board pack, air pump module, data cable and master cap
Starter Kit	Includes ink, cleaner for flushing the system, spray bottle for cleaner, hand cleaner and lint-free wipes for the printhead
5-Gallon Pail Upgrade	Upgrades ink supply to 5.0 gallons (water-base ink only)
PC Software	Communications software for PC integration
Repeat Print Firmware	Allows continuous printing of messages
Extended Character Width Firmware	Allows for print speeds slower than 20 feet/minute
Rollaway Stand	Provides mount for the PrintStar controller, designed with caster wheels for transportation within plant
Installation and Training	On-site installation and training available from your local distributor



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