

P7000 LINE MATRIX PRINTER - CARTRIDGE

P7000
LINE MATRIX PLATFORM
leadership by design

PRINTRONIX®

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PRINTRONIX® LINE MATRIX PLATFORM

leadership by design

Printronix has been the global leader in industrial printing solutions for over 35 years, earning a reputation for designing and manufacturing leading edge products and delivering them to market with unsurpassed service and support.

The Printronix P7000™ Line Matrix Printing Platform extends the series of technology innovations that cement Printronix *leadership by design* position. Line matrix printing is Printronix flagship technology, and it remains the workhorse solution for supply-chain and back-office printing applications because of its reliability, lower cost of ownership and flexibility of printing applications.

SCALABLE • INNOVATIVE • BEST OF BREED • BUILT FOR CHANGE

SCALABLE

Designed to meet your printing demands today and adapt to match your future printing requirements. Your investment will be protected with Printronix upgrades to support emerging standards and innovations.

INNOVATIVE

Printronix invented line matrix printing and maintains a reputation as a technology leader in the printing industry, with innovative solutions to real-world challenges.

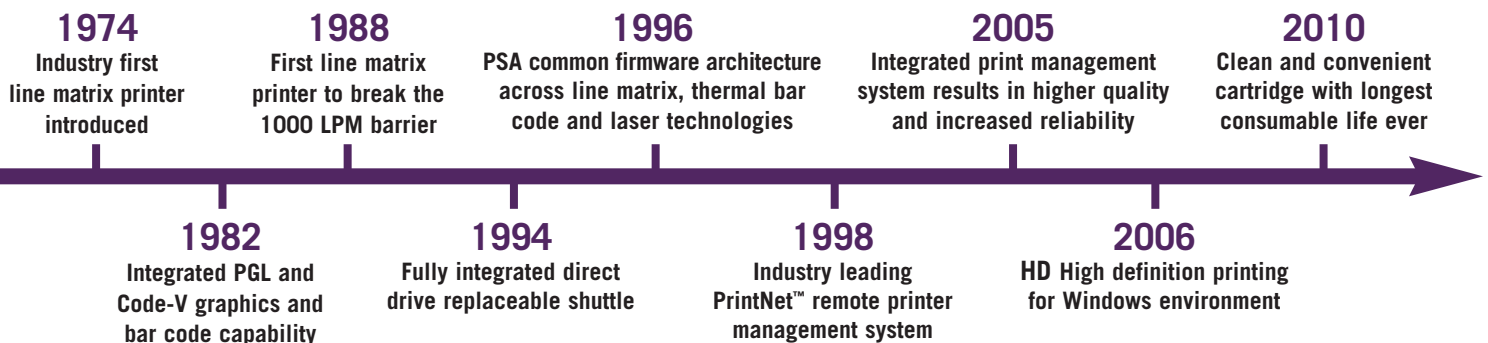
BEST OF BREED

Printronix line matrix printers set the standard in the industry. The P7000 line matrix platform features the lowest service cost, least expensive cost per printed page, easiest user experience and longest-lasting ribbon available.

BUILT FOR CHANGE

By design, this framework has produced the best line matrix printer in Printronix history. The P7000 platform is even more reliable, and is future-proof. Because of its scalability, the P7000 could be the longest-lasting printer any organization will ever own.

Printronix pioneers three decades of leadership by design





RUGGED, COST EFFECTIVE AND VERSATILE

The P7000 offers unsurpassed reliability. When your application cannot be interrupted, look to the P7000 for maximum productivity. For cost control, this technology provides the edge needed, giving you the lowest cost per page output. It handles specialized forms that work for your application – forms that can only be printed on a line matrix printer – information reports, multi-part transaction documents and bar code labels.

P7000 FAMILY

- **Superior reliability** – provides more up time and lower operating costs
- **Cartridge Ribbon** – delivers uniform print quality and longest life while providing clean and convenient ribbon change
- **Integrated print management system** – provides precise control over print quality, print costs, and job planning
- **Pedestal design** – excellent user access and forms handling flexibility
- **Ease of use** – simplifies operation and enhances productivity

RELIABILITY

No other print technology delivers more trouble free high volume printing than a Printronic line matrix printer. The P7000 series continues the tradition of delivering the most reliable Printronic printer ever. The result is more uptime, more mission critical dependability and lower service and operating costs.



P7000 LINE MATRIX PRINTER – CARTRIDGE

*Plan print jobs with
precise ribbon life
indicated on panel*



Standard and extended life cartridge ribbons

CARTRIDGE RIBBONS

Leadership by design also extends to our consumables. Customers turn to line matrix to get the lowest cost printing of any technology. **Substantially less expensive than laser or serial matrix**, Printronix line matrix delivers significant cost savings in all high volume applications.

The P7000 cartridge leverages Printronix industry leading ink and fabric technology to produce sharp dark print quality. The new design of the P7000 cartridge printer gives users a clean and easy ribbon change. The cartridge options offer customers the choice of matching their printing supplies to the volume of printing and their budget. The economical standard cartridge is rated at 17,000 pages, and the super-value extended version is rated at 30,000 pages.

- Clean and convenient
- More uniform print quality
- Longer ribbon life
- Precise ribbon life indicator

INTEGRATED PRINT MANAGEMENT SYSTEM

This system is designed to constantly monitor print quality - eliminating waste, maximizing ribbon life and reducing printing costs. Printronix has built in the intelligence and auto-sensing capabilities that provide visibility and control without any user set-up. This allows the system administrator to have precise control over print quality, consumable costs, and job planning. Add in PrintNet® Enterprise and the visibility and control, along with instant e-mail alerts, comes right to your desktop – ideal for enterprise management of printing applications.

Rear feed



Top feed



PEDESTAL DESIGN

The pedestal model offers an open format version for the P7000 series.

- The clamshell design allows easy access to all controls, providing faster ribbon replacements and easier paper loading
- Standard oversized casters make movement easier than ever
- Versatility for the paper path to be configured for either top or rear exit
- Using the top paper exit along with newly refined eject key functionality this printer is ideal for short print runs and easy access to output

ENCLOSED CABINET DESIGN

The enclosed cabinet models provide for near silent operation, making these printers perfectly suitable for use in the quietest of office environments. In addition, these models provide the best paper handling for large print runs. All input paper is sealed inside and protected from bumping and contamination. Even more importantly, an elegantly simple, but highly effective combination of moveable fences and chains allows for neat stacking all the way up to a full box of paper. For tougher forms that tend not to refold well, a SureStak power stacker option is available for the enclosed cabinet models. With this option, even the toughest forms can be printed and stacked neatly up to a full box. So, in either configuration, the enclosed cabinet models are your best choice for large unattended production printing applications.

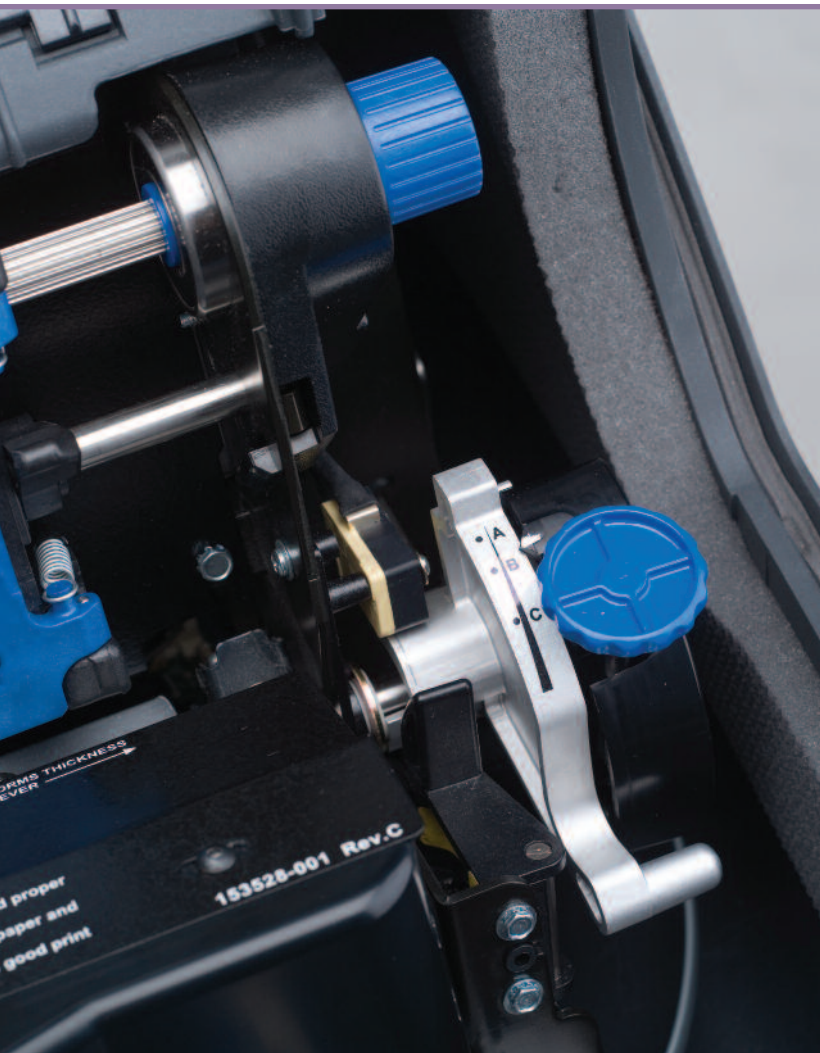
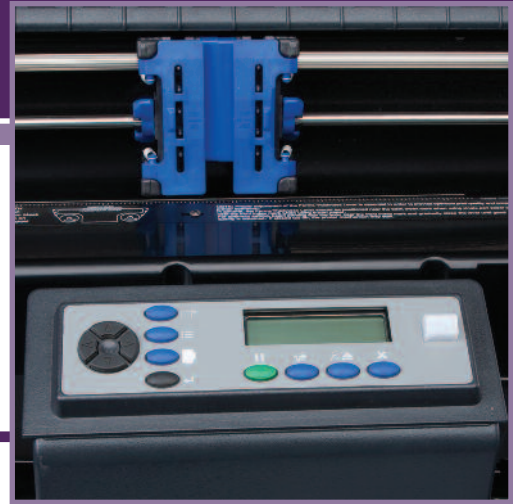


Easy access clam shell design



Enclosed cabinet design

P7000 LINE MATRIX PRINTER – CARTRIDGE



Platen adjustment feature

EASE OF USE

- The cartridge ribbon is easier and cleaner to change
- All user adjustment and control points are blue for fast operator identification
- The control panel is color coded, with faster reacting keys
- A Quick Setup menu simplifies and groups the most common setup parameters into one easily modified section
- Automatic configuration saving prevents settings from accidentally being lost or reset
- The platen gap adjustment system has been designed to separate the functions of opening/closing the platen and setting the gap. The gap is set by a knob to match the form's characteristics; and once set, the platen can then be opened and closed without affecting the gap setting, simplifying the loading of ribbons and forms.



ASSET PROTECTION

Today's IT environment is changing faster than ever and it is impossible to tell what is going to be required of your IT assets in the future. This is why a new PSA®3 controller with expanded memory and capabilities was developed especially for the P7000. P7000's PSA3 controller provides all the base foundation and necessary room to grow with the next generation of IT environment changes. So, whether your needs evolve to new data streams or expanded wireless options, your investment will be protected with the P7000.

CONNECTIVITY AND COMPATIBILITY

The P7000 provides the most connectivity and emulation options available on any impact printer. Mix and match between wired Ethernet, wireless Ethernet, parallel, serial, Coax and Twinax. Couple this flexibility with automatic port switching and you can easily connect your new line matrix printer to multiple systems. Often this is an ideal solution for environments migrating between hosts. Available emulations include P-Series, PGL, VGL (Code-V), DEC LG, PCL 2, ANSI, IPDS, CT, and the most common serial matrix languages. What is most important about all of these emulations and connectivity options is seamless compatibility. By design and through rigorous testing, the P7000 is able to seamlessly replace any previous Printronix line matrix printer and virtually any competing legacy impact product.

FLEXIBLE AND ADAPTABLE

Understanding that often a simple modification to the application is just not possible, all P7000 printers come standard with the ability to intercept and modify a data stream before printing. Any changes can be corrected or modified to create the desired output without any costly host application modification.

ETHERNET WITH JOB CONTROL

There is a large installed base of coax and twinax connected line printers. Traditionally, migrating away from Twinax or Coax to Ethernet eliminated the costly and inflexible infrastructure, but also eliminated the valuable job control. Now, with TN3270, TN5250, or the latest IPDS, the choice between cost, flexibility and control is eliminated. Using these new options, you can migrate to Ethernet printing and still maintain all the job control these mission critical applications require.

PRINTNET ENTERPRISE

Successful organizations are flexible enough to meet new requirements in a changing marketplace. PrintNet Enterprise provides this flexibility by placing total control of worldwide print operations in your IT network manager's hands. By combining a fully integrated Ethernet adapter and Java-based remote management software, this remote printer management tool provides:



- **Increased IT resource efficiency** – Centrally manage, organize and control Printronix printers remotely on a LAN/WAN and remotely control, configure, manage and monitor printers over the network
- **Reduced downtime costs** – Maximize printer uptime by instant response to printer issues from email, pager or cell phone alerts
- **Maximized security** – Utilize PrintNet Enterprise remote front panel emulation to change, secure and protect printer configurations by locking out unauthorized users
- **Complete compatibility** – Designed for upward compatibility to support and manage the entire Printronix family of future printers in a fast expanding network; these printers are fully compatible with existing Printronix line matrix and thermal bar code printing solutions that frequently operate in the same enterprise network

P7000 LINE MATRIX PRINTER – CARTRIDGE

*Push tractor system
eliminates forms loss*



P7000ZT

P7000ZT

The P7000ZT Series incorporates the industry leading features of the P7000 pedestal model printers – clamshell design, cartridge ribbon consumables and Integrated Print Management. Unique to the P7000ZT is the special push tractor configuration. **This system enables you to print from the very first to the very last line of a form and then tear it off with no loss of forms.**

This series is ideal for applications requiring precise accounting of all forms or where forms are simply too expensive to waste. Especially, when each form is torn off and used individually, the elimination of waste between sheets can yield significant savings.

COST SAVINGS AND RELIABILITY

Often, lighter duty dot matrix printers are used for applications requiring zero form loss impact printing. However, as print volume and mission criticality increases, the economic viability of these printers rapidly diminishes. In contrast, the P7000ZT printers using low cost cartridges and avoiding consumable printheads provide a substantial cost advantage over dot matrix. More importantly, the robustness of P7000ZT sixth generation line matrix technology helps avoid the highest cost of all in mission critical printing – lost production due to downtime. This combination of high reliability and low operating cost makes these printers the ideal solution for demanding production applications.

PAPER HANDLING EASE

The smart paper system automatically ejects the paper for tear off after the page or job is printed, and then retracts it as soon as the next job is sent. Or, at any time, you can use the Eject key to present or return forms as necessary for tear off.



HIGH DEFINITION PRINTING WITH P7000HD

The cost savings, reliability and forms flexibility offered by Printronix line matrix printers continue to make this the best technology option for many critical print applications. The P7000HD extends the reach of applications that can benefit from this technology even further. As existing line matrix applications are migrated to new systems or new applications are developed, the traditional method of hard coding applications for a specific printer is diminishing. Instead, programmers are leveraging more general purpose Windows based tools that take advantage of a virtually limitless array of font styles, sizes and graphics, while avoiding any printer specific coding. The P7000HD provides all the necessary print resolution and system capability to drop straight into these typical laser environments without any application modifications or special accommodations.

PRINT CAPABILITIES

These printers offer such high definition that items such as proportional spacing, complex fonts, logos, PDFs and super small point sizes look just as they are designed and intended at a fraction of the cost of laser. Using the P7000HD high performance Windows drivers, the application programmer designs the output to match their requirements without needing to worry about any limitations of the printer.

PRINT MECHANISM

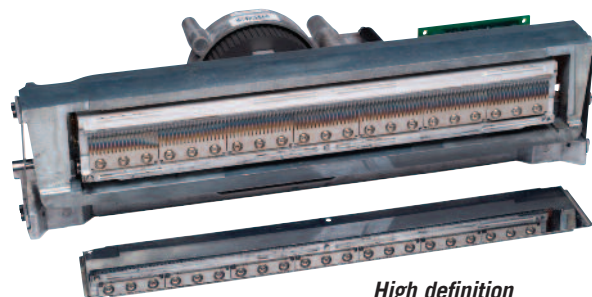
The nominal print density for these printers is 180x180 dots per inch (DPI). Alternately, 120x120 and 90x180 DPI modes are available when image detail can be traded for speed. The printers incorporate special fine tip technology to produce much smaller dots than the standard P7000. All of this is driven by the P7000's PSA3 controller, which provides the necessary power to drive these complex graphics at full speed. The result is the sharpest highest quality image ever produced by Printronix.



Sharp image quality

HD CARTRIDGE RIBBONS

A high definition ribbon cartridge was developed for the P7000HD to handle the unique challenges of high detail fine point printing. The HD cartridge is clean and convenient with uniform print quality and provides the longest life ever. The result is reduced user intervention, improved print quality and the best cost per page. And, like all P7000 ribbons, they are fully supported by the Integrated Print Management system.



High definition shuttle design

P7000 LINE MATRIX PRINTER – CARTRIDGE

SureStak Power Stacker



P7000 OPTIONS

A wide variety of paper handling options are available for the P7000 to help maximize performance in all applications.

- **Front Tray** – For applications that demand mobility, a front paper shelf allows the source paper to move with the printer. Also, raising the paper off the floor helps protect the media from damage. This shelf is strong enough and low enough to support a full box of paper.



- **Low Rear Tray** – This output tray is ideal for large print runs. An adjustable back bar keeps the paper aligned and neat even when stacking large quantities.



- **High Rear Tray** – This tray is ideal for applications where the printer is placed up against a wall and output stacks are limited to short runs. Since the tray is located near the top of the printer, access from the front is easy.



- **Front Paper Access** – This innovative option allows you to load paper and retrieve output from the front of the printer. This dramatically reduces the space required by the printer, since the rear can now be pushed into a corner or up against the wall (a minimum clearance of 4" must remain for the top cover to open). The adjustable front shelf allows you to select the correct balance between size of source stack and size of stack that can be retrieved from the rear.



- **SureStak Power Stacker** – Some forms that do not refeed well or tend to fluff up during printing may not stack properly with the passive stacking aids found in the standard quiet cabinet models. For these applications, a SureStak power stacker option is available. This device actually pulls the printed paper over the top of the print path and pushes it down into the stacking area. There, a series of paddle wheels actually refeed the forms tightly, so even the toughest forms can be printed and stacked neatly up to a full box.

- **Acoustic Shroud** – This assembly mutes the sound emanating from the paper exit slot to quiet the printer by a significant 4 dBA. This is an ideal solution for any pedestal printer operating near people trying to work. The shroud features a self-guiding paper path and easy tilt away design for ready access to the media.



- **Extended Forms Support** – Quiet cabinet models cannot be quiet if forms are too large to allow the doors to shut. To solve this problem, the P7000 can be equipped with optional extended doors. Kits are available with one or two extended doors to fit your application. A single extended door will support forms up to 14" in length. Two doors will allow up to 17" long forms to fit inside with all doors closed.



P7000 SERIES

P7000HD SERIES

PRINTER MODELS	P7205 P7005 P7005ZT	P7210 P7010 P7010ZT	P7215 P7015 P7015ZT	P7220
Print Speed (LPM, upper case characters, lower case characters)				
High Speed	500/428	1000/856	1500/1289	2000/1700
Data Processing	375/300	750/600	1125/900	1500/1200
Near Letter Quality	200/154	400/306	600/459	800/615
Graphics Speed (IPM)				
60 x 48 dpi	63	125	187	250
60 x 72 dpi	42	83	127	167
90 x 96 dpi	21	42	61	83
Paper Feed Speed (IPS)	12	20	25	38.5
Character Pitch (char. per inch)	10,12,13.3,15,17.1,20 (except NLQ for 20 pitch)			
Line Spacing (lines per inch)	6, 8, 10.3, n/72, n/216			
Graphics Resolution	180 dpi Horizontal, 144 dpi Vertical - (max)			
Dot Size	16.7 mil (.42mm)			
Emulations Standard	Printronix P-Series, P Series XQ, Serial Matrix, IBM ProPrinter III XL, Epson FX-1050			
Emulations Optional	PGL/VGL, ANSI 3.64, IPDS (Twinax and Ethernet), TN5250, TN3270, PCL 2, DEC LG, Twinax and Coax. Twinax - IBM 5225 Models 1, 2, 3, 4, IBM 4234 Model 2, 12, Printronix transparent mode available for special functions. Coax - IBM 3287 Models 1 and 2, IBM 4234 Model 1, Supported modes BSC, SCS/LU1, DSC, and DSE Printronix transparent mode available for special functions			
Print Attributes	Bold, italic, double wide, double high, overstrike, underline, subscript and superscript			
Resident Character Sets	Unicode UTF-8 and over 100 multinational sets including IBM World Trade, ECMA Latin 1, DEC Multinational, IBM Code Page 437 and 850, OCR A, OCR B			
Fonts	NLQ Serif, NLQ Sans Serif, Data Processing, High Speed, OCR A, OCR B			
Resident Bar Codes	30 resident symbologies, including Code 39, EAN 8/13, UPC A/E, Intelligent Mail, Postnet, Royal Mail, Interleaved 2 of 5, PDF 417			

PRINTER MODELS	P7000HD P7000HDZT P7200HD
Print Speed	
180 x 180	79 inches per minute*
120 x 120	165 inches per minute*
90 x 180	147 inches per minute*
90 x 120	200 inches per minute*
90 x 90	236 inches per minute*

* Specification is based on 25% vertical page density, meaning print image exists on 25% of the available vertical dot rows. If the vertical coverage is higher or lower, the speed will decrease or increase proportionately. The width of the image has no effect on print speed.

Paper Feed Speed	32 inches per second
Graphics Resolution	180 x 180 dpi - maximum - default 90 x 90 dpi - minimum
Dot Size	11 mil (0.28 mm)
Print Attributes	Full graphics capability to accurately reproduce TrueType™ fonts down to 6 point, along with lines, logos, limited gray scale shading and bar codes

System Connectivity
Windows Drivers: Microsoft® Windows Vista™, Microsoft Windows® (95/98/NT/2000/XP/Vista), Windows® 7

All printing is done via P7000HD high performance Windows drivers, this will allow for seamless printing of PDF documents and other popular Windows based WYSIWYG applications; in most cases, a P7000HD can be used in place of a typical Windows connected laser printer with no application modifications

The following specs are for both the P7000 Series and the P7000HD Series

PRINTER SOFTWARE AND DRIVERS

Printronix PrintNet Enterprise remote management software

SAP Device Types

Windows Drivers: Microsoft® Windows Vista™, Microsoft Windows® (95/98/NT/2000/XP/Vista), Windows® 7

POWER	P7205 P7005 P7005ZT	P7210 P7010 P7010ZT	P7215 P7015 P7015ZT	P7220 P7000HD P7200HD P7000HDZT
Watts Typical	175	260	390	475
Line (+/- 10%)	Auto Ranging 100-120 VAC, 200-240 VAC, 50/60 Hz ENERGY STAR - Less than 14 watts (energy saving mode)			

DIMENSIONS	PEDESTAL	ZT
Height	36" (914mm)	42.5" (1080mm)
Width	26" (660mm)	26" (660mm)
Depth	21.2" (538mm)	21.2" (538mm)
Shipping Weight	170 lbs. (77.2kg)	176lbs. (79.8kg)

DIMENSIONS	CABINET	SURESTAK
Height	41" (1041mm)	41" (1041mm)
Width	27.0" (686mm)	27.0" (686mm)
Depth	29.0" (737mm)	33.75" (857mm)
Shipping Weight	275lbs. (124.8kg)	305lbs. (138.5kg)

ENVIRONMENTAL

Acoustic Noise - dBA (per ISO 7779)	P7005 - 62 P7010 - 65 P7015 - 68 P7000HD - 68	P7205ZT - 66 P7010ZT - 70 P7015ZT - 70 P7000HDZT - 70	P7205 - 50 P7210 - 50 P7215 - 52 P7220 - 55 P7200HD - 55
Operating Temperature	50° to 104° F 10° to 40° C		

LINE MATRIX PRINTERS

GENUINE PRINTRONIX CARTRIDGE RIBBONS – P7000

Standard Life Offers lower purchase price per ribbon plus the convenience of ordering in smaller quantities for moderate use environments. 17,000 pages

Extended Life* Offers the lowest total cost of printing and longest ribbon life for the highest productivity. Ideal for high volume report and label printing applications. 30,000 pages

* Not compatible with 500 LPM printer models

GENUINE PRINTRONIX CARTRIDGE RIBBONS – P7000HD

Extended Life Developed to handle the unique challenges of high definition printing. The formulation delivers a sharper, darker image for an extended life. 30,000 pages

FORMS HANDLING – P7000 AND P7000HD SERIES

Type Continuous, fan folded, edge-perforation
 Paper Path Straight through paper path with easy-load dual adjustable tractors
 Feed Bottom feed
 Forms Control 14 and 12 channel electronic vertical format unit, paper-out detector and alarm, paper motion detector and alarm
 Print Width 13.6" (345mm)

MEDIA TYPES – P7000ZT AND P7000HDZT SERIES

Form Thickness Maximum 100 lbs. up to 0.025" (0.64mm)
 Minimum as defined below
 Form Length 3" (76mm) to 12" (305mm)
 Form Width 6" (152mm) minimum
 12" (305mm) maximum 17" (432mm) maximum
 (maximum is a function of paper types)
 Carbon Multipart 4 copies maximum 3 copies maximum
 Carbonless Multipart 6 copies maximum 4 copies maximum
 Single Part 18 lbs. minimum 20 lbs. minimum
 (67.7 gm/mm) (75.2 gm/mm)

Note: The forms guidelines above must be followed closely; these models push the paper and will not work if the form is very light weight or has other special features which make feeding difficult. If your form is questionable, it is best to send a sample to your dealer for review prior to purchasing a unit.

MEDIA TYPES – P7000 AND P7000HD SERIES

Width 3" (76mm) to 17" (432mm)
 Copies P7000 - Up to 6 parts
 P7000HD - Up to 4 parts
 Weight 15 to 100 lbs. up to 0.025" thickness
 56 to 163 gm/mm up to .64mm thickness

MTBF

Hours at 25% duty cycle & 25% page density
 P7000HD, P7200HD, P7000HDZT, P7220 – 8,000 hours
 All other models – 10,000 hours

PRINTER FEATURES

Standard Integrated print management automatic ribbon life monitor
 Optional SureStak on P7210, P7215 and P7220
 Optional Extended doors for 14" (356mm) and 17" (432mm) forms support
 Optional Black back forms paper out sensor
 Optional Slide out paper tray for easy loading and unloading
 Optional Cabinet front access/load/retrieval
 Optional Pedestal front paper tray
 Optional Pedestal high rear paper tray
 Optional Pedestal acoustic shroud

INTERFACES

Serial RS-232 (RS-422 optional)
 Parallel IEEE-1284/Centronics (standard)
 Data Products (optional)
 Ethernet PrintNet Enterprise 10/100 Base T (optional)
 Wireless PrintNet Enterprise 802.11b (optional)
 Twinax Integrated Twinax interface for attachment to IBM Systems 36/38 and AS/400 directly or via IBM 5394 or 5494 workstation controller (optional – except P7000HD Series)
 Coax Integrated Coax interface for attachment to IBM 3174, 3274, or 3276 cluster controller (optional – except P7000HD Series)
 Auto Switching Between active ports

