

# ***PERFORMANCE PRINTERS***

DOT MATRIX &  
THERMAL PRINTERS

solution providers



 **Newbury Data**

# PERFORMANCE PRINTERS

DOT MATRIX &  
THERMAL PRINTERS

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<b>PRINCIPAL ACTIVITY</b>	<b>Manufacturer and Value Added Distributor of:</b> <ul style="list-style-type: none"><li>• Heavy Duty Multi-functional Dot Matrix Printers</li><li>• Industrial Strength Line Matrix, Continuous Form Laser &amp; Thermal Bar Code/Label Printers</li><li>• Low Cost Per Copy Multi-Functional (Print/Scan/Copy/Fax) Network Copier &amp; Laser Printers</li><li>• Genesis-32 Enterprise Edition Network Management &amp; Monitoring Software for Zebra Printers</li><li>• Desktop &amp; Mobile Bar Code Label Design &amp; Print Software</li><li>• Printer Consumables, Supplies &amp; Maintenance</li><li>• Bar Code Scanners/Readers, Data Capture Terminals</li><li>• High Speed Dumb Terminals &amp; "Thin Client" Windows Based Terminal</li><li>• Kyocera "Drum" Refurbishment - PC/Printer Workshop Repair and Configuration</li></ul>
<b>FACILITY</b>	15,000 Sq. Ft of Manufacturing, Distribution & Stores; Full Demonstration & Product Configuration Facility
<b>COMPANY HISTORY</b>	1974 Manufactures OSP Series, Serial Impact Printers 1977 Won H.M Queens Award for Export 1986 Manufactures ND600 Series, Serial Impact Printers 1987 Manufactures ND3000 Series High Speed Dumb Terminals 1989 Manufactures ND800 Series, Serial Impact Printers 1990 Appointed C.I.T.O.H Distributor 1992 Manufactures NDSprint, Serial Impact Printer 1992 Appointed TELEVIDEO Inc, High Speed Dumb Terminal Distributor 1994 Appointed as PRINTRONIX Distributor and Authorised Service Provider 1994 Appointed BULL COMPUPRINT Distributor 1994 Appointed ELTRON Thermal Printer Distributor 1995 Appointed ZEBRA TECHNOLOGIES Distributor 1995 Appointed PRINTER SYSTEMS INTERNATIONAL (PSi) Printer Distributor 1998 Manufactures ND2000 Series, Serial Impact Printers 1998 Appointed Official KYOCERA Drum Refurbishment Center for KYOCERA MITA Europe 1998 Manufactures ND4000 Series, Train Ticket & Encode Printers 1999 Appointed ZEBRA/ELTRON Silver Distributor 1999 Manufactures ND305 Rapide Thermal Label Print & Apply 2000 Appointed as KYOCERA MITA Laser Printer Value Added Reseller 2000 Appointed WELCH ALLYN – HAND HELD Products Distributor 2000 Appointed TELEVIDEO Inc, Thin Client Terminal Distributor 2000 Officially Listed as UK's No:1 PRINTRONIX Distributor 2000 Appointed CITIZEN Printer Distributor 2001 Officially Listed as UK's No:1 PRINTRONIX Distributor for 2nd Consecutive Year 2001 Officially Listed as CITIZEN UK Premier Distributor of Thermal "Label" Printer 2001 Appointed as "ZEBRA Approved Business Partner – Gold Level Distributor" 2002 Appointed as "MICROPLEX" Printer Distributor 2002 Manufactures ND3000 Series, Serial Impact Printers 2002 Officially Listed as UK's No:1 PRINTRONIX Distributor for 3rd Consecutive Year 2003 Appointed Distributor for "RJS", On-line and Hand Held Verifiers & Scanners 2003 Appointed Kyocera Mita Solution Partner for the Multi-Functional Range of digital printers 2003 Officially Listed as UK's No:1 PRINTRONIX Distributor for 4th Consecutive Year 2003 UK's 1st Approved System Integrator for the Genesis-32 network management and monitoring software for Zebra printers
<b>MANUFACTURER</b>	<b>PRODUCTS</b>
Newbury Data	- Heavy Duty Dot Matrix & Thermal Print/Apply Printers
CITIZEN	- Dot Matrix & Thermal "Bar Code Label" Printers
CPG Compuprint	- Dot Matrix Printers, Passbook Printers, Thermal "Bar Code Label" Printers
Eltron	- Thermal "Bar Code Label" Printers & Label Design Software
Kyocera Mita	- Low Cost Per Copy Multi-Functional (Print/Scan/Copy/Fax) Network Copier & Laser Printers
Hand Held Products	- Wireless LAN, RF, Batch & Windows CE "Data Capture" Scanners & Terminals
Iconics	- Genesis-32 Enterprise Edition, network management & monitoring software for Zebra printers
Microplex	- Continuous Forms Laser Printers & Thermal Bar Code Label printers
Printronic	- Internet/Network Ready Industrial Strength Line Matrix , Thermal & Continuous Form Laser Printers
PSi	- Continuous Form Laser Printers
RJS	- On-Line and Hand Held Verifiers/Scanners
Televideo Inc,	- "Thin Client" Windows Based Terminals
Welch Allyn	- Bar Code Scanners & Readers
Zebra Technologies	- Internet/Network Ready Thermal "Bar Code Label" Printers & Label Design Software
Supplies & Consumables	- Consumables to all above Brands
Professional Services	- Installations, User Training, Pre-Sales Printer Programming and Alternative Manufacturer Programming file conversions (Zebra EPL/ZPL/ZBI, Printronix PGL/VGL/PAA/CST, Citizen FGL & Microplex IDOL), Tailored Maintenance Contracts
<b>SERVICES</b>	PC & Printer Workshop Repair & Kyocera Drum Refurbishment 3rd Party Contract Manufacturing On-Site Maintenance Contracts & On-Site Technical Support Lease Hire or Lease Purchase
	Demonstration Facility & On-Site Evaluation Equipment On-Site Product Installations & User Training Label Design Software Training & Printer Programming Language Capability Data Capture Software Consultancy



### ND2500 The High Performance Printer

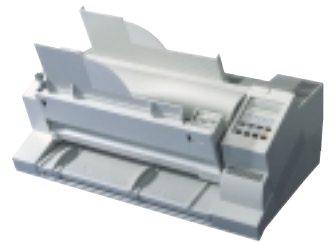
The high performance printer ND2500 offers a fast and cost effective solution printing lists, barcodes labels and multi-part form sets. Additionally, the printer can be equipped with a manual sheet feeder. The ND2500 is designed for reliable and efficient print operation in industrial, logistic, retail, banking, public administration, and office application environments.

- Fast 24-wire dot matrix printer
- Performance:
  - 500 pages/hour
  - 20,000 pages/month
- Flatbed design for reliable paper transport
- Heavy duty tear bar for correct print job separation
- Zero tear off eliminates forms wastage
- Quiet operation: Noise level  $\leq$  53dB(A)
- Automatic gap control
- Original plus 5 copies in high print quality
- 13 scalable fonts
- 12 resident barcodes
- Manual sheet feeder optional

### ND2600 The Professional Multi-Purpose Printer

The multi-purpose printer ND2600 features flexibility in paper handling, allowing it to run several different applications on one printer. Five paper inputs and three paper outputs are supporting fanfold paper, single sheets, and heavy multi-part formsets at a print speed of 600 cps and a throughput of 500 pages per hour.

- Heavy Duty 24-wire dot matrix printer
- Throughput of more than 500 pages per hour
- Workload of 20,000 pages per month
- High quality uni/bi-directional printing
- Flatbed design for straight paper transport
- 5 paper inputs, 3 paper outputs
- Flexible paper management for fanfold paper, single sheets, heavy formsets, labels, and envelopes
- 1 + 5 excellent copies
- Automatic Gap Control
- Cutting device optional
- Quiet operation: Noise level  $\leq$  52 dB(A)
- 13 fonts incl. Block characters, 12 barcodes
- Connectivity to all major host systems and networks
- Fulfills versatile application requirements in business as well as industrial environments.



### ND2700 The Fast and Efficient Fanfold Printer

The ND2700 is designed for continuous batch printing of lists, barcodes, labels and multi-part form sets. The ND2700 fulfils professional applications in retail, financial institutes, logistics and industrial environments. With the modular connectivity concept the ND2700 can be integrated into all major host systems and networks.

### ND2700C The Professional High Speed Fanfold Printer With Integrated Cutting Device

The ND2700C offers a professional solution for heavy duty, flexible, and cost effective printing. Covering a wide range of applications, the ND2700C is perfect for business and industrial users working in shared-resource environments

- Heavy Duty 24-wire dot matrix printer
- Performance:
  - 750 pages/hour
  - 400 lines/minute
  - 30,000 pages/month
- Plug & Print: Plug-in tractor cassettes for easy paper loading
- Two fanfold papers alternatively accessible
- Flatbed technology for reliable and straight paper transport
- Automatic Gap Control
- 1 + 5 excellent copies
- 13 fonts incl. Block characters
- 12 barcodes
- High quality uni/bi-directional printing
- Connectivity to all major host systems and networks



### ND3106 Professional Dot Matrix Printer for Industry Logistics & Administration

The ND3106 printer offers a professional solution for heavy duty, flexible, cost-efficient printing. The rugged metal design, the paper run control and the ribbon run control guarantee reliable unattended printing. The Intellidrive™ Technology guarantees a perfect print quality with crisp letters and barcodes with highest readability. The long-life print head fires the wires against a print bar and can produce up to 9 copies.

### ND3106C with Integral Cutting Device

Professional fanfold printer with integrated cutting device, 600 cps, more than 500 pages per hour, separates print jobs and cuts fanfold paper into single sheets, two continuous forms alternatively accessible, workload up to 40,000 pages/month.

- Heavy duty 24-wire dot matrix printer with Intellidrive™ Technology
- Real flatbed technology using print bar, 92 column @ 10cpi.
- Performance:
  - 600 cps (10 cpi)
  - 500 pages/hour
  - 40,000 pages/month
- Up to 9 copies (1+8)
- Precise print registration
- Easy user operation via macro functions
- Low cost per page through 15 Million character ribbon
- Ultra rugged design
- Personality Modules (interfaces) for major host and network environments.



### ND3207 The High Speed Multifunctional Printer

The ND3207 printer offers a professional solution for heavy duty, flexible, cost efficient printing. The rugged metal design, the paper run control, and the ribbon run control guarantee reliable unattended printing. With its proven connectivity concept the ND3207 is prepared for any network environment.

- Heavy duty 24-wire dot matrix printer
- Flatbed technology using a print bar, 60 columns @ 10 cpi
- Performance:
  - 700 cps (10cpi)
  - 580 pages/hour
  - 40,000 pages/month
- Modular design: up to 6 paper inputs, alternatively accessible, up to 3 paper outputs
- Lower cost per page through 30 Million character ribbon
- Wide print format up to 17.7 inches (165 col.)
- Easy user operation via macro functions
- Precise print registration
- Personality Modules (interfaces) for major host and network environments

### ND3210 High Performance Fanfold Matrix Printer

The ND3210 combines the performance of a line printer with the flexibility of a dot matrix printer. The rugged design and the Intellidrive™ Technology guarantee reliable unattended printing and a workload of up to 40,000 pages per month. Two accessible tractor cassettes give a high flexibility for the print production. The precise print registration allows printing also on multi-part form sets with high speed and accuracy.

#### The ND3210 is a cost-effective alternative to line printers.

- Heavy duty 24-wire dot matrix printer
- Flatbed technology using print bar, 160 columns @ 10 cpi
- High Performance:
  - 1000 cps (10 cpi)
  - 800 pages/hour
  - 500 lines/minute (60 cpi)
  - 40,000 pages/month
- Dual paper input: 2 tractor cassettes and manual paper feed
- Lowest cost per page through 30 Million character ribbon
- Wide print format up to 17.7 inches (165 col.)
- Easy user operation via macro functions
- Precise print registration
- Personality Modules (interfaces) for major host and network environments



## ND2000 & ND3000 Series Exchangeable Personality Module Concept

Newbury Data offers a wide range of Personality Modules (PM) for the ND2000 & ND3000 Series of high performance impact printers. Simply plugged into the printer, the PM combines interfaces, emulation's and protocol converters.

A PM establishes the intelligent connection between printer and system environment. It offers maximum flexibility and grants access to all printer features and functions. Specific variants of hardware interfaces, printer emulation's and protocol converters provide direct connection to IBM, HP and Digital systems as well as PCs and Local Area Networks (LANs).

All PM contain a basic module with different printer emulation's and associated character tables with a selection of fonts and bar codes.

Additionally, the system specific PM contain a protocol converter with system specific printer emulation's, character tables, fonts, and conversion routines for system or network protocols in ASCII control sequences.

The unique functions of the printer as e.g. paper management capabilities, can be mapped to system specific control sequences by appropriate set ups of the internal configuration tables.

The PM concept is highly beneficial: The user receives an integrated solution, which can be exchanged at any time to adapt to new system requirement. For instance, the printer could migrate from a traditional serial/parallel connection to local network integration, such as Ethernet, simply by exchanging the PM Serial/Parallel with PM Ethernet.

Listed below is the table identifying which PM is available for the ND2000 Series printers.

	ND2500	ND2600	ND2700	ND2700C	ND3106	ND3106C	ND3207	ND3210
SERIAL/PARALLEL	✓	✓	✓	✓	✓	✓	✓	✓
ETHERNET/SERIAL	✗	✓	✓	✓	✓	✓	✓	✓
TOKEN RING	✗	✓	✓	✓	✗	✗	✗	✗
TWINAX IPDS	✗	✓	✓	✓	✓	✓	✓	✓
TWINAX SCS	✗	✓	✓	✓	✗	✗	✗	✗
COAX SCS	✗	✓	✓	✓	✗	✗	✗	✗
DEC SERIAL/PARALLEL	✓	✓	✓	✓	✗	✗	✗	✗
DEC ETHERNET/SERIAL	✗	✓	✓	✓	✗	✗	✗	✗
HP SERIAL/PARALLEL	✗	✓	✓	✓	✓	✓	✓	✓
HP ETHERNET/SERIAL	✗	✓	✓	✓	✓	✓	✓	✓

✓ = Available ✗ = Not Available (✗ may be available via external print servers, please call sales for details)

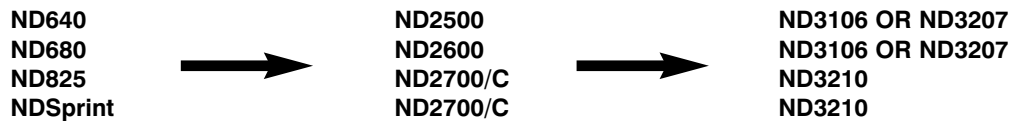
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**ND2000 & ND3000 Specifications:** Specifications are subject to change without prior notice. All registered trademarks are the property of their respective companies.

PRINTER SPECIFICATION	ND2500	ND2600	ND2700	ND2700C	ND3106	ND3106C	ND3207	ND3210
Technology	Serial Impact Dot Matrix							
Print head	24 wires, 0.25mm needle diameter; life time: 400 million characters							
Print mode	High speed draft (HSD) data, (DQ) near letter (NLQ) and letter quality (LQ)							
Print format	136 characters at 10cpi				92 characters at 10cpi		160 characters at 10 cpi	
Ribbon	Black nylon ribbon cartridge, 15 million characters, optional 30 million ribbon for ND2700 & ND2700C				Black nylon ribbon cartridge, 15 million characters		Black nylon ribbon cartridge, 15 million characters	
Dimensions (mm) (WxDxH)	635 x 390 x 274		740 x 370 x 325		740 x 455 x 327		550 x 280 x 295	
Weight (approx.) KG	20.7	22.7	28.5	33	15.7	15.9	20	20
Diagnostics	Selftest, hexdump, remote diagnostics via interface							
Operator Panel	16 digit LCD display, trilingual (German, English, French)							
Rated Voltage	100-240 V, 50-60 Hz							
Power Input	200W, 40W standby				Standby: <30 W, operating <200 W			
Operating Temperature	+10 to +35C (+50 to +95F) 20 to 80% rel. humidity							
Storage Temperature	-40 to +70C (-40 to +158)							
Noise Level (according to ISO 7779)	<53dBA	<52dBA	55dBA	55dBA	<53dBA			55dBA
Agency Approvals	VDE/GS, UL, CE, FCC-B							
Print Speed HSD @10cpi							700	1000
Print Speed DQ @10cpi	500	600	700	700	600	600	600	750
Print Speed NLQ @10cpi	250	300	350	350	300	300	300	430
Print Speed LQ @10cpi	125	150	175	175	150	150	150	216
Throughput ECMA 132 HSD								800
Throughput ECMA 132 DQ	470	507	750	750	500	500	580	760
Throughput ECMA 132 NLQ	350	398	520	520				580
Throughput ECMA 132 LQ	210	251	320	320			260	370
Duty Cycle	30,000 Pages Per Month				40,000 Pages Per Month			
MTBF	10,000 Hours at 25% duty cycle				15,000 Hours at 30% duty cycle			
Paper Handling	Push Tractor	Push Tractor, manual sheet and 3 x ASF	Dual Push Tractor	Dual Push Tractor with Integral Cutter	Push Tractor	Push Tractor with Integral Cutter	Dual Push	Dual Push
Paper output	Rear with push tractor and zero tear, top if using ASF's							
Automatic Gap Control (AGC)	Automatically optimises the distance between print head and paper based on paper thickness							
Paper Weight	60-90 g/m2				60-150 g/m2		60-120 g/m2	60-100g.m2
Paper Width	4 – 16 inch				4 – 10.625 inch		4 – 17.7 inch	
Form Feed	11 inch/second			20 inch/second				
Copies	1 + 5				1 + 8		1 + 6	1 + 3
Standard PM (Serial/Parallel)	Parallel Centronics & Serial RS232C/V.24 including shared mode							
Emulations	Epson ESC/P & DECLA120/210				IBM Proprinter XL24 (AGM) & Epson LQ2550/1060/ESC/P2			
Buffer	Upto 48 bytes				Upto 64 bytes			
Character Sets	ISO 7-bit, in 11 national versions incl. ASCII: IS) 8859/1; IBM Set1/Set2 in 14 national versions; IBM Code Pages 437, 850, 860, 863, 865; Epson Ext. Char Set. In 15 national version							
Fonts	Draft quality: Data, Data Block and Data Large (block characters); near letter quality and letter quality: Courier, Letter Gothic (italic), Micro, OCR-A, OCR-B, Orator, Orator-C, Prestige, Roman, Script							
Character Attributes	Bold, italic, shadow, outline, double strike, underline, double underline, overline, strike through, sub/superscript, double to octuple, for data large 99 fold							
Pitches	10, 12, 15, 17.1., 18 and 20 cpi, proportional							
Line Spacing	2, 3, 4, 6, 8, ... 360dpi							
Bar Codes	EAN 8, EAN 13, UPC-A, UPC-E, Code 39, Code 93, Code 128 (incl. EAN 128), Codeabar, 2 of 5 Industrial, 2 of 5 interleaved, MSI Mod 10/10, and Postnet, all horizontal and vertical							
Graphics	Max 360 x 360 dpi							
Macros	Parameter settings for up to four individual printer configurations, selectable via software or operator panel							
Interface Options	N/A	Ethernet, Token Ring, Twinax, Coax			Ethernet, Twinax, 802.11b RF			
Printer Stands	Allows front handling of fanfold paper input and output 635 x 670 x 730 mm		Allows front handling of fanfold paper input 635 x 660 x 840 mm		Allows front handling of fanfold paper input 450 x 660 x 840 mm		Allows front handling of fanfold paper input 635 x 660 x 840 mm	
Stacker Option	N/A		Stacking system integrated into the printer stand, approx. 2000 sheets		N/A		Stacking system integrated into the printer stand, approx. 2000 sheets	
Tractor Cassettes	N/A	Additional tractor cassettes can be loaded with paper to be ready for quick plug-in once required, very useful if several different types of media are used						
ASF Cassettes	N/A	Upto 3			N/A		Upto 3	N/A
Cassette A	N/A	70-100g/m2			N/A			N/A
Cassette B	N/A	100-150 g/m2			N/A			N/A
Cut sheet Stacker	N/A				N/A		YES	N/A

## Upgrade Path for ND640, ND680, ND825 & NDSprint Printers



### SPEED OF THROUGHPUT:

ND640 - 400 cps	ND2500 - 500 cps	ND3106 – 600 cps or ND3207 – 700 cps
ND680 - 800 cps	ND2600 - 600 cps	ND3106 – 600 cps or ND3207 – 700 cps
ND825 - 250 lpm	ND2700/C - 700 cps	ND3210 – 1000 cps
NDSprint - 350 lpm	ND2700/C - 700 cps	ND3210 – 1000 cps

Even though the ND2600 and ND2700 printers appear to be slower they perform faster in real time printing applications; the following ECMA figures give real time performance. In fact the ND2600 is only 6% @80 column and 2% @132 column slower than the ND825 whilst being 3.5% faster than the NDSprint @80 Column printing applications. Compare the printing speeds of the ND2700's, ND3207 and ND3210 and you will see they are faster in real time applications compared to 500 lpm line matrix printers at average of 40% lower in price!!

### Draft ECMA 132 Column Spreadsheet @ 10 cpi Draft (\*pph - pages per hour)

```
graph LR; A["ND640 - 234 pph  
ND680 - 341 pph  
ND825 - 410 pph  
NDSprint - 528 pph"] --> B["ND2500 - 470 pph  
ND2600 - 500 pph  
ND2700/C - 750 pph  
ND2700/C - 750 pph"]; B --> C["ND3106 - 500 pph  
ND3207 - 580 pph  
ND3210 - 800 pph"];
```

ND640 - 234 pph	ND2500 - 470 pph	ND3106 - 500 pph
ND680 - 341 pph	ND2600 - 500 pph	ND3207 - 580 pph
ND825 - 410 pph	ND2700/C - 750 pph	ND3210 - 800 pph
NDSprint - 528 pph	ND2700/C - 750 pph	

### PRINT QUALITY:

The ND2000 Series print heads have 24 pins resulting in higher print resolution to graphics printing such as bar codes; the ND640, ND680, ND825 and NDSprint had only 9 pins. Bar Codes can now be produced with better print quality offering a higher readability percentage.

### PAPER HANDLING:

Printer	Paper Handling	Printer	Paper Handling
ND640	Pull Tractor	ND2500 & ND3106:	Single Push Tractor
ND680	Pull Tractor	ND2600	Push Tractor, Manual Cut sheet, Optional ASF x 3
ND825	Pull Tractor	ND2700C & ND3207	Dual Push Tractor
NDSprint	Pull Tractor	ND2700C & ND3106	Dual Push Tractor with Integrated Cutting Device

### ZERO TEAR OFF: (ZERO FORMS WASTAGE)

The ND640, ND680, ND825 and NDSprint use pull tractors to move the forms through the printer, this meant that you wasted a form every time you required seeing the last printed page. The ND2000 & ND3000 Series printers all use push tractors to move the forms through the printer, this means all can utilise a Zero Tear Off feature allowing the last printed page to be removed without wasting the following form. The ND2700C & ND3106C printers have an integrated cutting device, which cuts the forms on demand at the end of each page or at the end of the batch (Job).

### INTERFACES:

The ND2000 & ND3000 Series offer a wider range of exchangeable interfaces including NDR Parallel/Serial, NDR Ethernet 10baseT/10base2, IBM Twinax, IBM Coax, DEC Ethernet, HP Ethernet, Token Ring UTP/STP & 802.11b WLAN

### EMULATIONS & DRIVERS:

The ND2000 Series are supplied with the Epson ESC/P and DEC LA210 emulation's already used in the ND640, ND680, ND825 and NDSprint making them backward compatible. In addition the ND2000 & ND3000 Series also offer IBM IPDS, IGP, HP with NDR Bar Code emulation is to follow shortly. All printers are supplied with Windows 3.1, 3.11, 95 & NT drivers.

## ND4000 Series Thermal Ticket Printer/Encoder/Reader

The Newbury Data 4000 range of designed & manufactured thermal ticket printers are capable of storing, printing, magnetically encoding and reading credit card sized tickets.

The printers use direct thermal media, which gives a high quality print and are magnetically compatible to ISO 7811-2 Track 2 standard.

The printer range has been developed to provide an economical solution to printing and managing entry, travel, parking, membership, club, reward, parking and loyalty card tickets etc.

The Newbury Data 4000 range comprises:-

- ND 4000 Manual front feed
- ND 4010 Ticket Printer with internal ticket supply hopper ( Kiosk Unit )
- ND 4020 Ticket Printer with internal & option of external hopper ( Desktop Unit )

The ticket format is either portrait or landscape. Each character position is individually addressable enabling tickets to be re-printed with additional text and new magnetic encoding to be written on subsequent occasions.

The ND 4020 allows two different ticket stocks (one in each hopper) if required.

This rugged range of printers is ideal for a self-service environment and can be easily integrated into almost any kiosk. Newbury Data can offer specialised configurations of this printer range to meet customer requirements.

### ND4000 Series Specifications

<i>Printing Method</i>	Direct thermal
<i>Print Speed</i>	100mm (ND4000) 150mm /sec (ND4010,ND4020)
<i>Media Type</i>	Pre printed or plain ISO sized thermal tickets 54mm x 85mm Paper laminate or thin plastic constructions.
<i>Magnetic Encoding</i>	<i>Centre stripe or ISO side stripe positioning.</i> Low coercivity (300 oe) or High coercivity (2750/3500 oe) 75 BPI encoding density.Read/Verify after Write function.
<i>Ticket/Card Capacity</i>	ND 4010 - 600 ND 4020 - 600 + 900 (optional)
<i>Ticket Format</i>	Portrait with 36 lines of 25 characters or landscape with 25 lines of 45 characters using two customer specified resident fonts one of which can be enlarged.
<i>Ticket Transport</i>	DC Motor with encoder
<b>Document Presentation</b>	<b>Optional output tray for 50 tickets (approx)</b>
<i>Approvals</i>	Designed to meet CE approval
<i>Interface</i>	Serial 9600 to 115,200 baud.
<i>Power Requirements</i>	24V dc 1.8 A max.
<i>Weight</i>	ND 4000 3.2 Kg ND 4010 3.0 Kg (Empty) ND 4020 5.5 Kg (Empty)
<b>Operating Temperature</b>	<b>+5 to +45 deg C</b>
<i>Dimensions</i>	ND 4000 220 x 105 x 140 mm (LxWxH) ND 4010 290 x 90 x 210 mm (LxWxH) ND 4020 300 x 112 x 215 mm (LxWxH)

## ND4000

The ND4000 is a small front or rear feed single ticket encoding printer, with the ability to read pre-encoded tickets and re-issue with new printed information & magnetic encoding on the ticket. An ideal application for the ND4000 is loyalty cards or credit tracking.



## ND4010

The ND4010 is an on demand, integral hopper ticket printer, with a capacity of 600 tickets and has been specifically designed for the issue of tickets & vouchers for travel.

## ND4020

The ND4020 is a family derivative of the successful 4010 integral hopper printer. It too is a high-speed unit with the ability to accept ticket stock from an external hopper (optional). It is an ideal small footprint desktop printer. Ticket stock can be issued from either hopper or can be fed individually from the back or front of the machine.



## VERTICAL HOPPER CARD DISPENSER

Non-intelligent card dispenser designed as an add-on to the ND 4000 and ND 4020 Thermal Ticket Printers.

### Features

- Size : 170 mm Length, 115 mm Width, 310 mm Height (inclusive of ticket magazine).
- Weight : 2.3 Kg (magazine empty).
- Card size : as ticket printer i.e. 85 mm Length, 54 mm Width, 0.25 mm Thickness.
- Magazine : Removable with a capacity of 900 tickets.
- Power : 24V (controlled by parent printer).
- Ticket low warning function.

# PERFORMANCE PRINTERS

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## PRINTER RIBBONS, PRINTHEADS & SPARES

Newbury Data has been manufacturing the industry's leading range of serial impact printers since 1974. In that time Newbury Data has produced the highest quality ribbons for its range of heavy-duty printers, allowing our customers the highest print quality and the most economical prices. Newbury Data still maintains ribbons, print heads and spare parts for all of its printers, discontinued (OSP, 8000 Series, ND600/800 Series & ND Sprint) and the current (ND2000 & ND3000) printer series. All Newbury Data ribbon products are 100% original, manufactured to ISO 9001 specification. Newbury Data do not use re-usable products in the manufacturing of its ribbons.



**Newbury Data Original Printer Ribbons:** Newbury Data stills maintains the ribbons for our discontinued range of printers, the following table highlights the various printer ribbons with their part numbers and description, detailing the printer which has now superseded it. For further details regarding replacement or new printers models please call sales on 01606 593424.

PRINTER TYPE	PART NO.	DESCRIPTION	PRINTER REPLACED BY:
OSP	372-091-01	Black Nylon Ribbon, 2 million character life for the <b>R240</b> train ticket printer	Not applicable
All 8000 Series	325-060	Black Nylon Ribbon, 15 million character ribbon for the <b>ND8000</b> series printers	ND2000/ND3000 Series Printers
All 8000 Series	325-065	Red/Black Nylon Ribbon, 15 million character ribbon for the <b>ND8000</b> series printers	ND2000/ND3000 Series Printers
ND640	352-101-90	4 Colour Nylon Ribbon, 16 million character ribbon for the <b>ND640</b> printer only	ND2000/ND3000 Series Printers
ND640	352-101-91	Black Nylon Ribbon, 16 million character ribbon for the <b>ND640</b> printer	ND2000/ND3000 Series Printers
ND680 & ND825	410-102-15	Black Nylon Ribbon, 16 million character ribbon for the <b>ND680 &amp; ND825</b> printers	ND2000/ND3000 Series Printers
ND Sprint	4401001500	Black Nylon Ribbon, 16 million character ribbon for the <b>ND Sprint</b> printer	ND2000/ND3000 Series Printers
ND2000 Series	4590080000	Black Nylon Ribbon, 15 million character ribbon for the <b>ND2500 &amp; ND2600</b> printers	Current Model
ND2000 Series	4590080100	Black Nylon Ribbon, 30 million character ribbon for the <b>ND2700 &amp; ND2700C</b> printers	Current Model
ND3000 Series	4590080200	Black Nylon Ribbon, 15 million character ribbon for the <b>ND3106</b> printer	Current Model
ND3000 Series	4590080300	Black Nylon Ribbon, 30 million character ribbon for the <b>ND3207 &amp; ND3210</b> printers	Current Model
ND200 Series	4410040100	Black Nylon Ribbon, 30 million character ribbon for the <b>ND200 Series</b> line matrix printers	Current Models

**Print heads:** Newbury Data is able to supply both new and refurbished print heads for its current and discontinued range of serial impact printers. Newbury Data also supply dot matrix print heads for C.I.TOH, Citizen, Compuprint, Genicom, Printek & PSi printers, as well as thermal print heads for all thermal printer manufacturers listed on the next page.

PRINTER	PART NUMBER	DESCRIPTION	NEW OR REFURBISHED	WARRANTY
8000 Series	330-004	12, pin, 400 million strikes	New (Not Available)	Not Available
8000 Series	330-004R	12, pin, 400 million strikes	Refurbished	6 months
8000 Series	330-005	9, pin, 400 million strikes	New (Not Available)	Not Available
8000 Series	330-005R	9, pin, 400 million strikes	Refurbished	6 months
ND640	4161000200	2 x 9 pin, 400 millions strikes	New	6 months
ND640	4161000200R	2 x 9 pin, 400 millions strikes	Refurbished	6 months
ND680 / ND825	4161000200	2 x 9 pin, 400 millions strikes	New	6 months
ND680 / ND825	4161000200R	2 x 9 pin, 400 millions strikes	Refurbished	6 months
ND Sprint	3641000100	9 pin, 400 millions strikes	New	6 months
ND Sprint	3641000100R	9 pin, 400 millions strikes	Refurbished	6 months
ND2000 Series	870725090513	24 pin, 400 millions strikes	New	6 months
ND2000 Series	TBC	24 pin, 400 millions strikes	Refurbished (TBC)	Date to be confirmed
ND3000 Series	870734090510	24 pin, 400 millions strikes	New	6 months
ND3000 Series	TBC	24 pin, 400 millions strikes	Refurbished (TBC)	Date to be confirmed
ND4000 Series	4637017000	Thermal Printhead	New	6 months

**Spare Parts:** Newbury Data is able to supply both new and work shop repaired spare parts for our own current range of serial impact printers and line matrix printers, please contact sales on 01606 593424 for further details. Newbury Data also supply spares parts for the manufacturers listed on the next page.

## Warranty & Maintenance Contracts

**ND2000 & ND3000 Series are provided with either 2-year parts only warranty or 2/3 years on-site maintenance contracts. ND4000 Series are provided with 1-years parts only warranty.**

**Parts Only:** All parts have to be returned to Newbury Data via the RMA system at the customers expense, on receipt and qualification that the item is within warranty the replacement part/s will be shipped at to the customer at Newbury Data's expense.

**ND Maintenance Contract: UK Mainland Only:** The ND maintenance contract provides two or three years of onsite hardware support beginning on the purchase date of the contract. The period includes any remaining warranty left on the product and must be purchased with the product, at point of sale.

**Guarantee Response/Fix: Response to site within 8 working hours (1 day) of the call being logged and a fix being established, or a loan unit installed, within 24 working hours (3 days) of the call being logged. Coverage: 09.00 – 17.00 hours, Monday to Friday excluding Public Bank Holidays**

This is a premium service. Faulty parts will be removed and replaced on site, and if required, suitable loan equipment may be provided to expedite the repair. Call sales for additional levels of service, including faster response and fix times, and out of normal working hours cover.

## Spares & Workshop Repairs

### Spares Parts:

Newbury Data is the UK's leading Printronix Distributor, Europe's Leading Citizen distributor, Gold Business Partner for Zebra Technologies and the ONLY authorised refurbishment centre for Kyocera Mita printer drums and developers utilising the ECOSYS Series I, II, III, IV print engines. In addition to our own range of printers, Newbury Data also provides spare parts for the following companies Citizen, Compuprint, Datamax, Eltron, Genicom, Kyocera, Microplex, OKI, Printronix, PSi & Zebra.

### Workshop Repair:

Newbury Data is able to offer both refurbishment or repair services for all Discontinued Newbury Data printers including all 8000 Series, ND640, ND680, ND825 and NDSprint printers. Newbury Data can also repair the following Manufacturers: Citizen (Thermal & Dot Matrix Printers), Compuprint (Dot Matrix Printers), Datamax (Thermal Printers), Eltron (Thermal Printers), Kyocera (Drums, Developers and Scanners for ECOSYS I, II, III, IV print engines), Microplex (Thermal Printers), OKI (Dot Matrix Printers), Printronix (Line Matrix, Thermal & Continuous Form Laser Printers), Psi (Dot Matrix & Continuous Form Laser Printers), Zebra (Thermal Printers).

### Print Heads:

Newbury Data offer new and/or refurbished print heads for our range of 8000 Series\*, ND640, ND680, ND825 and NDSprint\* printers. (\*Refurbishment Only) New print heads are available for all other models.

## Installation & User Training Services

### Level 1 ( Functional)

The printer will be unpacked and assembled as required, including any accessories delivered with the printer. All shipping constraints will be removed. The printer will be powered up and caused to do an internally derived test / configuration printout. This will demonstrate the printer is in a fully functional condition and that the client can now set it up for operation on their system.

### Level 2 (Basic System Integration)

Incorporates Level 1 plus operator training for loading stationery, replacement of consumables and Control Panel operation for normal day to day usage. Also includes working with the Client's IT personnel to have the printer operational for their application(s) on a direct PC / System connection via a Serial (RS232) or Parallel (Centronics) printer interface connection.

**Note:** Client must make available on the day of installation relevant IT personnel capable of installing the printer on the host system.

### Level 3 (Network Connectivity)

Incorporates Level 1 plus the Operator training as in Level 2. Now includes working with the Clients IT personnel to have the printer set up for their application(s) over a Network system – e.g. Ethernet, TwinAx, CoAx. Also provides printer set-up instruction as required to the Client's relevant IT personnel.

**Note:** Client must make available on the day of installation relevant IT personnel capable of installing the printer on the host system.

## Manufacturer and Distributor Status:

- UK: Manufacturer of Newbury Data Serial Impact Printers
- UK: Manufacturer of Newbury Data Thermal Ticket & Encode Printers
- Europe's No:1 Distributor of Citizen Thermal Printers
- UK: Leading Distributor of CPG (Compuprint) Printers
- UK: Leading VAR for HHP Data Capture Terminals and Scanner
- UK: Leading Solutions Partner for Kyocera Mita Laser & Multi Function Printers
- UK's No: 1 Distributor of Printronix Industrial Printing Solutions
- UK's No: 1 Distributor RJS Scanners/Verifiers
- UK: Leading Distributor of Televideo Thin Client Terminals
- UK: Gold Business Partner for Zebra Thermal Printers
- UK's 1st: System Integrator of "Genesis - 32 Enterprise" Network Software for Zebra Printers



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