



# MPX-90M METAZA



Desktop Impact Printer for Marking of UDI Barcodes



# New Marking Device Ensures Easy Tracking and **Traceability of Your Medical Instruments**

The MPX-90M impact printer marks two-dimensional DataMatrix barcodes as small as 1 mm on a wide variety of medical instruments and tools. This proven technology imprints unique device identification (UDI) numbers quickly and affordably, allowing for easy tracking and traceability and resulting in better patient safety. In addition to 2D DataMatrix barcodes, the MPX-90M is capable of imprinting numbers, text, logos and graphics on virtually any metal surface.\*1 Designed for ease of use, it comes with its own software for producing precise, durable imprints that remain readable throughout the product lifecycle.\*2

\*1 Vickers hardness (HV) of the surface of imprintable materials must be 200 or less.

## PRECISION

#### High-Speed Marking with Roland's Dot Impact Technology

The MPX-90M uses a durable diamond-tipped stylus to directly imprint on titanium, stainless steel and other hard Size metals. Engineered for speed and precision, the MPX-90M can quickly imprint 26 digits of information inside an area as small as one square millimeter.\*2 Because it does not burn or remove material on impact, the MPX-90M generates no odours or debris, and leaves the marked area protected from corrosion. No daily maintenance is required.



the MPX-90M



MPX-90M imprinting as shown in this 1mm square 2D symbol

\*2 Quality is determined by the resolution of the barcode scanner

# COMPACT & EASY TO USE

With the MPX-90M, no special training is required. The included METAZAStudio software instantly converts your numerical data to 2D DataMatrix barcodes that meet GS1 and other 2D DataMatrix formats. Getting started is as simple as firmly securing the item to be marked in the included vise, and then using the built-in laser pointer to locate the centre of the material to ensure the graphic is imprinted accurately. With its ease of use, compact footprint and energy-efficient design, the MPX-90M is the ideal solution for small clinical and office settings.

#### Setup is Easy with the Included Vise and Built-In Laser Pointer



Easily secure items for marking to the machine's work table



Confirm the correct marking location with the built-in laser pointer

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### VERSATILE



▲ Included software, METAZAStudio

### Dedicated Software Marks 2D DataMatrix Barcodes, Text and Logos to Identify and Brand Devices

METAZAStudio includes a 2D DataMatrix barcode feature.

To create a unique barcode, simply select the barcode icon from the METAZAStudio's main screen and enter the appropriate UDI numbers. The software does the rest, creating a 2D DataMatrix barcode that can be output using the MPX-90M. METAZAStudio also imports CSV files for variable data printing. This allows you to quickly and easily add a unique 2D DataMatrix barcode to each device in a series. Support for jpg, bmp and Adobe Illustrator 8 file formats allow you to import logos and other custom branding elements as well.

Import CSV files for variable data printing			<ul> <li>Imprint logos and other graphics to brand devices</li> </ul>
UDI	Doctor	Text	Logo
01498297870129412111080005	Dr. K. McCoy	Neurosurgery	ROLAND DG HOSPITAL
01498297870129412111080006	Dr. B. Johnson	Orthopaedics	C ROLAND DG CLINIC
01498297870129412111080007	Dr. E. Jones	Obstetrics and Gynecology	
01498297870129412111080008	Dr. N. White	Pediatric Surgery	

# Production is Easy



\*3 A separate barcode scanner is required for tracking.



Desktop Impact Printer for Marking of UDI Barcodes



Specifications		
Imprintable material	Gold, silver, copper, platinum, brass, aluminium, iron, stainless steel, etc. (Vickers hardness [HV] of the printing surface must be 200 or less.)	
Laadabla matarial aiza	Maximum 100 mm (width) x 200 mm (length) x 40 mm (thickness), or 200 mm (width) x 100 mm (length) x 40 mm (thickness) [(3.9 in. x 7.9 in. x 1.5 in.) or (7.9 in. x 3.9 in. x 1.5 in.)	
Lududule material Size	When using the included vise: Maximum 20 mm (0.8 in.) thickness	
Printing area	80 mm x 80 mm (3.1 in. x 3.1 in.)	
Resolution	529 dpi (High resolution), 353 dpi (Photo), 265 dpi (Text), 1058 dpi (Vector)	
Printing direction	Unidirectional printing or bidirectional printing (Selectable with Windows driver)	
Printing speed (Default)	50 mm/sec (1.9 in./sec) (Photo), 33 mm/sec (1.2 in./sec) (High resolution/Text), 24 mm/sec (0.94 in./sec) (Vector)	
Connectivity	USB (compliant with Universal Serial Bus Specification Revision 1.1)	
Power requirements	Dedicated AC adapter: AC 100V to 240V ±10% 50/60Hz	
Power requirements	Machine: DC19V 1.6A	
Power consumption	Approx. 24W	
Acoustic noise level	Under 70 dB (A)	
Environmental	Temperature: 10 to 30°C (50 to 86°F), Humidity: 35 to 80% (no condensation)	
Dimensions	286 mm (W) x 383 mm (D) x 308 mm (H) (11.3 in. (W) x 15.1 in. (D) x 12.2 in. (H))	
Weight	10.8 kg (23.8 lb.)	
Included items	AC adapter, power cord, head caps, centre vise, adhesive sheet, test-use printing material, USB cable, Roland software CD-ROM, and user's manual, etc.	

System requirements for included software: METAZAStudio		
Operating system	Windows <sup>®</sup> 7 Professional (32-bit or 64-bit);         Windows Vista <sup>®</sup> Ultimate (32-bit), Business (32-bit or 64-bit) or Home Premium (32-bit);         Windows <sup>®</sup> XP Home Edition or Professional	
CPU	Pentium 4 3.0 GHz or more recommended	
RAM	512MB or more recommended	
Video card and monitor	16 bit colours (High Colour) with a resolution of 800 x 600 or more recommended	
Free hard-disk space	25MB	
Optical drive	CD-ROM drive	
RAM Video card and monitor Free hard-disk space Optical drive	512MB or more recommended 16 bit colours (High Colour) with a resolution of 800 x 600 or more recommended 25MB CD-ROM drive	

Options					
	Model	Description			
Head unit and head caps for replacement	MPH-90	Head unit x 1 and head caps x 4 pcs.			
Replacement head caps for round surfaces	CAP-HEAD MPX-90	5 pcs.			
Replacement durable head caps for flat surfaces	DURABLE HEAD-CAP MPX, FLAT SURFACE	5 pcs.			

#### Conditions when imprinting curved surfaces

Choose material when imprinting on a curved surface taking into consideration the following limitations. These figures show the imprinting area possible for a curved surface and the area that the marking pin can reach with respect to the diameter of the cylinder when the head cap (CAP-HEAD MPX-90) is attached to the head unit. However, these limitations do not assure the quality of the photographic image.

Diameter of cylindrical material	Recommended printable area (A)	Area reached by the marking pins (B)
10 mm (0.3 in.)	2.0 mm (0.079 in.)	2.8 mm (0.11in.)
20 mm (0.7 in.)	2.8 mm (0.11 in.)	4.0 mm (0.16 in.)
30 mm (1.1 in.)	3.4 mm (0.14 in.)	4.8 mm (0.19 in.)



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#### ISO 14001:2004 and ISO 9001:2008 Certified

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