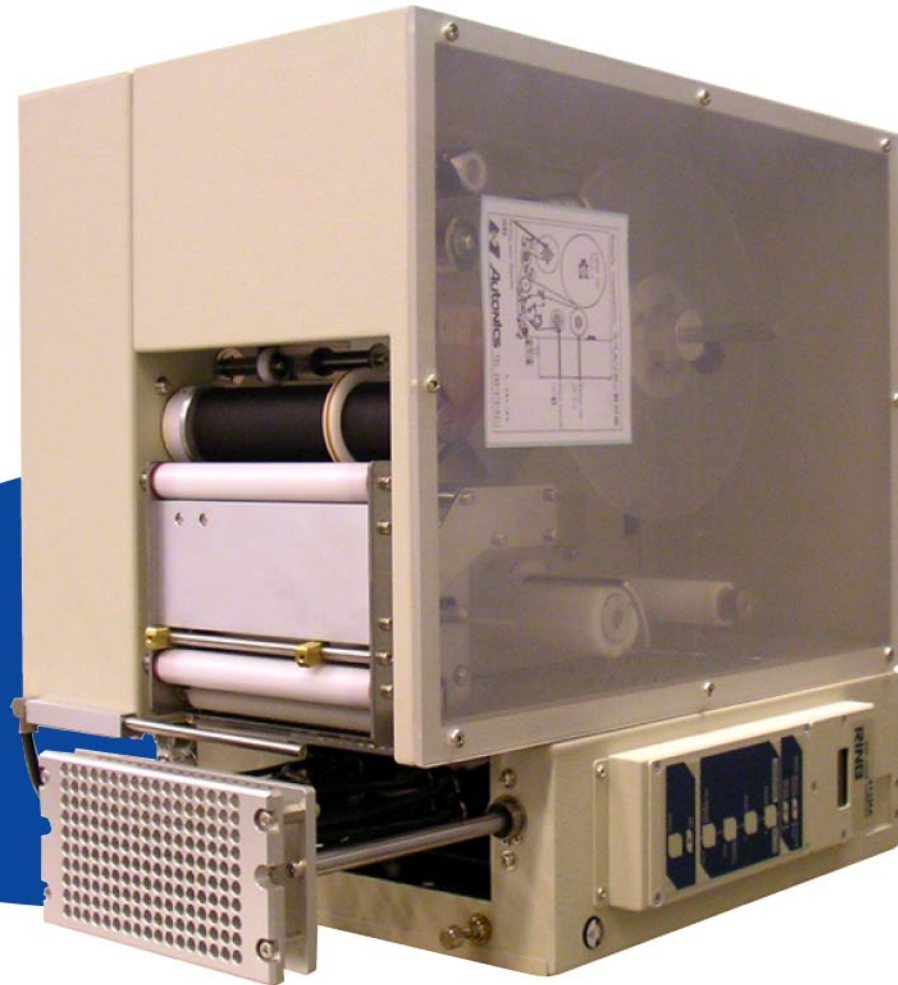


THERMAL/THERMAL TRANSFER BAR CODE PRINTER

RING412MA



HIGH PERFORMANCE **HEAVY DUTY PRINTER APPLICATOR**

- HIGH PERFORMANCE, RELIABLE, AND DURABLE
- RIDGED STEEL CABINET WITH MEDIA WINDOW
- 300DPI
- HIGH SPEED PROCESSING BY 32 BIT RISC CPU
- 16MB SDRAM & 4MB FLASH MEMORY
- VARIOUS OPTIONS

RING 412MA SPECIFICATIONS

PRINT METHOD

- Thermal Transfer/Direct Thermal

MEDIA TYPE

- Die cut labels
- Roll stock (continuous s/o die cuts)

PRINT WIDTH

- 108 mm

STROKE LENGTH

- Press type -150 mm max.(adjustable).
- Air jet type -100 mm (fixed)

LABELING POSITION TOLERANCE

- +0.5 at maximum

MEDIA WIDTH

- .0635mm to .254mm

CABINET

- All steel cabinet with media windows

LABEL ROLL

- 220 mm maximum diameter

RIBBON LENGTH

- 300m

DOT RESOLUTION

- 300 DPI / 8 Dot per mm

PRINT LENGTH

- 128 x 999mm

PRINT SPEED

- 1"- 8"/sec. (15 mm - 200 mm/sec.)

BAR CODE

- Code 39, Code 93, Code 128, NW7, 2 of 5 (Industrial, Matrix and interleaved), EAN-JAN 13/8, UPC-A/E, EAN128 QR Code, PDF417, Data Matrix, Maxi Code

MEMORY

- 16MB SDRAM
- 4MB Flash memory (Up to 16MB as option)

LCD DISPLAY

- 2 lines by 8 characters (Alpha / Numeric)
- Back Light

SENSORS

- Ribbon sensor (Reflective method)
- Label sensor (Transmit method)
- Home position (Transmit-Auto calibration method) (Reflective sensor as option)

SOFTWARE

- ALL Label (Dynamic 32 bit Windows software)
- Windows Drivers

FONT CHARACTER SIZE IN DOTS

- 8 Character Sets (Alpha/Numeric and symbols) 8*8, 12*12, 16*16, 16*24, 24*24, 24*26, 32*40, 48*60 Expansion is 1-10 and 16 times (Both directions)
- 5-OCRB Character Sets (4 Numeric and 1 Alpha/Numeric) Numeric - 16*18, 24*27, 32*36 and 40*45 Alpha/Numeric - 32*32 NOTE : Should Not Expand
- Scalable Smooth Fonts (Bitstream Swiss 721) Programmable 32-720 Dot width 32-720 Dot length Italic Slant Programmable 10, 15 and 20 degrees. NOTE : 8-31 Dots printing is available but must be matched properly with speed and media
- Down loadable font

EXTERNAL CHARACTER BY DOT PROGRAM

- Programable Expansion Characters 256 (24X, 24Y)

PRINTING MODES & FUNCTIONS

- Peel off, Tear off (demand type) with label back feed for top of label printing.
- Bach printing (strip-for continuous printing of labels. Can be used with optional External Rewinder)
- Butt cut label printing (Requires optional back side mark sensor)

PROGRAMMING LANGUAGE FEATURES

- Advanced Label marking Language-ALL
- ALL commands are all ASCII characters. This allows flexibility with many environments and platforms
- Easy to program and format printing areas
- Pixel programming allows expanded area of up to 4 times
- Four direction print rotation (0, 90, 180 & 270 degrees)
- Reverse print and area fill in
- Mirror print
- Half Tones
- Lines, dotted lines, angle lines and boxes
- Bit image data transfer and printing
- Down loadable graphics, text, font and formats to optional memory card
- Character Set (Code page)table
- Serializing (Numeric)
- Time and date (OPT)
- Communication and print functions

ERROR INDICATORS

- Label / Ribbon empty
- Head open
- Communication
- Grammatical
- Parameter (Each error is notified by buzzer and LCD)

ADJUSTABLE PRINT FUNCTIONS SELECTABLE THROUGH FRONT PANEL OR BY SOFTWARE

- Print Speed / Energy Settings
- Print Density
- Label Print Position
- Cutting Position
- Thermal Transfer / Direct Thermal
- Test Printing
- Ready / Pause

COMMUNICATION INTERFACE-SELECTABLE THROUGH FRONT PANEL OR BY SOFTWARE

- Parallel
- RS-232 / to 115,200 baud rate Line Control-RS-CS, XON-XOFF, ER-DR Stop Bits Parity Data length

DIMENSIONS

- 295W x 450H x 450D mm

WEIGHT

- 35kg

POWER SOURCE

- Multiple Power Supply Industrial Standard 115 ~ 240 volts +-10% AC 50/60HZ

Environmental

- Operating temperature 41 to 104 Fahrenheit / 5 to 40 Centigrade
- Relative humidity below 85% Non-condensing
- Ventilation : Air Movement
- Dust : Non-Conducting, Non-Corrosive
- Air pressure required - 4~9kgf/c

OPTIONS

- Stand
- Extended cable
- Reflective Sensor
- Warning before the end of ink
- Warning before the end of media
- Font memory (8, 12, 16MB)
- Sensor for
- Stroke extension
- Clean room modification
- Pad modification
- Labeling error detection

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