GREYDON®

TPM SERIES THERMAL PRINTING MACHINE

Direct, Precise, and Fast Printing for Multiple Packages Across the Web.

The TPM Series is the new generation of Graydon's traversing thermal transfer printer. Usually installed onto a horizontal form, fill and seal (HFFS) machine, this versatile system prints text, linear and 2D codes, compliance logos, and graphics—all at 300 DPI.

Simpler to set up and operate compared to previous generations, the TPM also features a new 7" touch screen and larger ribbon capacity to provide a higher number of prints before replenishment is needed.

FEATURES AND BENEFITS

- **Minimum Operating Costs**
  TPM delivers high-quality marking with low operating costs. Downtime is minimized due to flexibility, optimizing the use of transfer ribbon, and (in many cases), Greydon's innovative split-platen system.

- **Integration Into Packaging Systems**
  Greydon's experience with custom mounting systems, web management, and print platens ensures trouble-free installation on virtually every brand of parent machine in the marketplace.

- **Control Unit**
  The control unit/HMI of the TPM features an intuitive user interface with icon buttons and a color touch-screen display with a preview for verifying the print layout. It is designed to enable mounting remotely in a convenient location.

- **Regular and Washdown Enclosure Options**
  The printer is built within a stainless steel and anodized aluminum enclosure for typical operating environments. For harsher conditions, the TPM can be provided with washdown enclosures or carts as needed.

- **Split Platen**
  Greydon's innovative split platen system allows the printer to print on more than one roll per traverse of the print mechanism. This can increase throughput by reducing the time the film needs to be stationary for printing. For small packages, up to 5 rows can be printed with one pass.
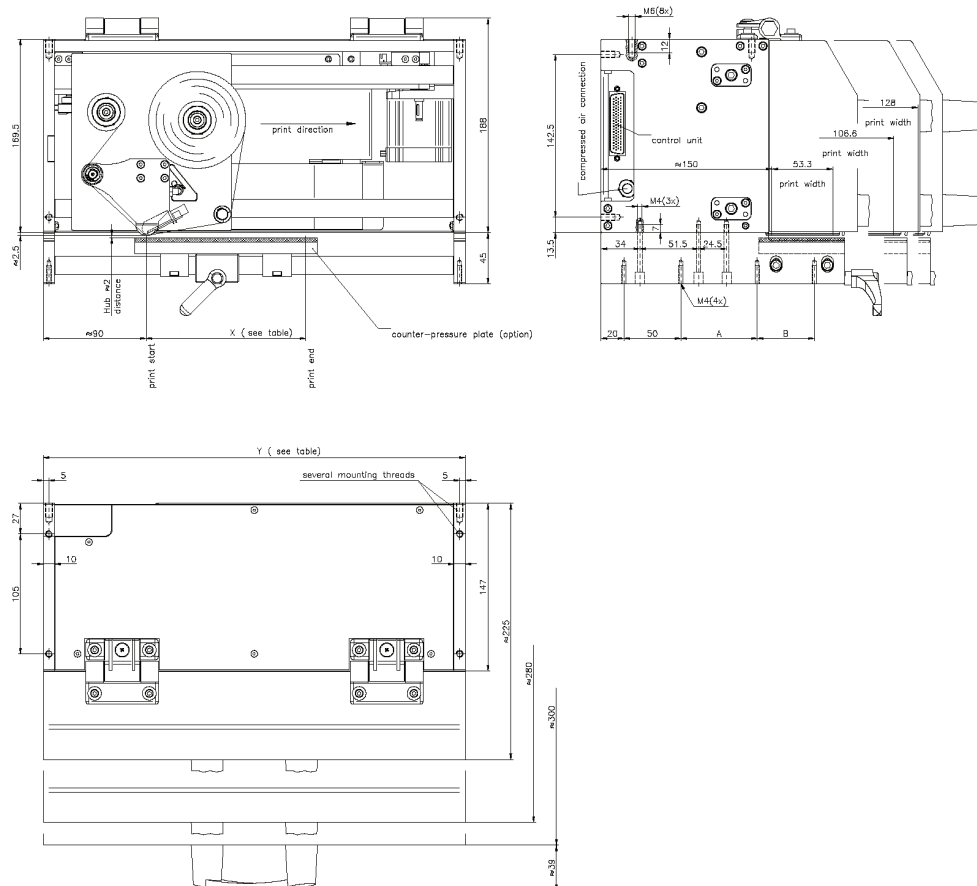

CONTROL UNIT

SPLIT PLATEN SYSTEM

Greydon printing systems for flexible packaging provide customers with the latest, most reliable, and appropriate technology for each specific application.
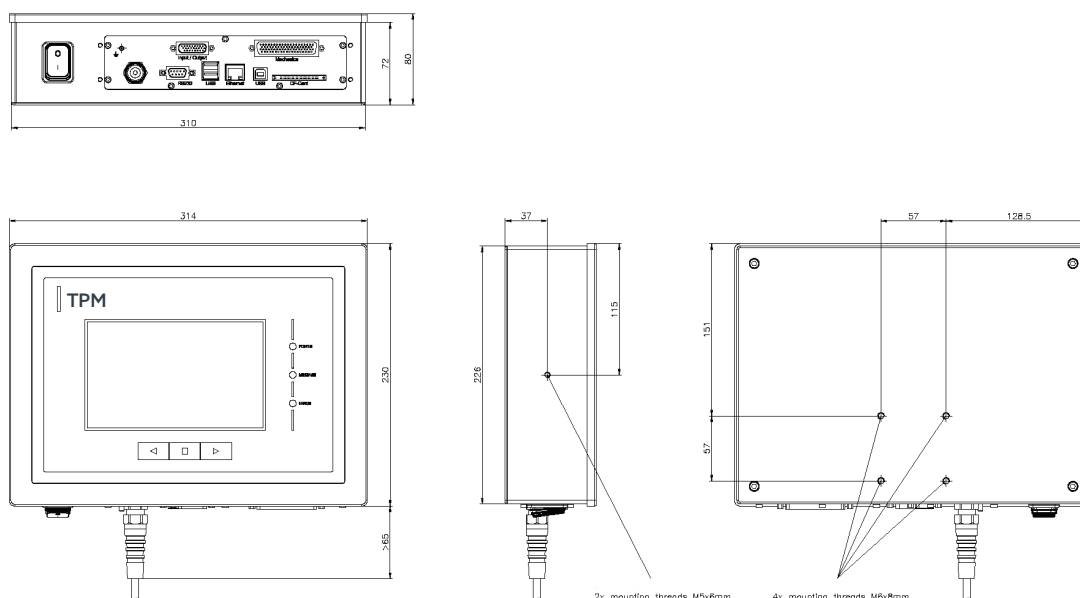
TPM SERIES TECHNICAL DATA

	TPM 107	TPM 128
Printing		
Print Width	max 107 mm	max 128 mm
Print Length	340 mm, 447 mm, 570 mm, 630 mm	
Print Speed	50 - 500 mm/s	
Back Speed	50 - 700 mm/s	
Resolution	300 dpi	300 dpi
Printhead	Corner Type	Corner Type
Dimensions (width x height x depth)		
Print Mechanics (with cover)	(print length + 230 mm) x 188 mm x 320 mm	(print length + 230 mm) x 188 mm x 340 mm
Control Unit	314 mm x 230 mm x 80 mm (without connection lines)	
Weight		
Print Mechanics	approx 9 – 16 kg (depending on print length/print width)	
Control Unit	approx 5.5 kg (without connection lines)	
Connection Cable	approx 0.85 kg (print mechanics – control unit)	
Acoustic Emission (distance 1 m)		
Average Sound Power Level	75 dB(A)	75 dB(A)
Transfer Ribbons		
Ink	outside/inside	outside/inside
Roll Diameter	max 85 mm	max 85 mm
Core Diameter	25.4 mm / 1"	25.4 mm / 1"
Length	max 500 m	max 500 m
Width	max 110 mm	max 130 mm
Interfaces		
Serial	RS-232C (max 115,200 Baud)	
USB	2.0 High Speed Slave	
Ethernet	10/100 Base T, LPD, RawIP-Printing, DHCP, HTTP, FTP	
2 x USB Master	Connection for external USB keyboard and memory stick	
Connection Values		
Pneumatic Connection	min 6 bar dry and free of oil	
Air consumption typical* * hub 1,5 mm, 150 cycle/min, 6 bar operating pressure	300 ml/min	300 ml/min
Nominal Voltage	110 – 230 V AC / 50 – 60 Hz	
Nominal Current	230 V AC / 1.5 A – 110 V AC / 3 A	
Fuse Values	2x T4A 250 V	
Operating Conditions		
Temperature	5 – 40 °C	
Relative Humidity	max 80 % (non-condensing)	
Fonts		
Font Types	6 bitmap fonts I 8 vector fonts/TrueType fonts I 6 proportional fonts I more fonts on demand	
Character Fonts	Windows 1250 bis1257, DOS 437, 850, 852, 857 I all West and East European, Latin, Cyrillic, Greek and Arabic characters are supported I more character sets on demand	
Bitmap Fonts	Size in width and height 0.8 – 5.6 I zoom 2 - 9 I orientation 0°, 90°, 180°, 270°	
Vector Fonts/TrueType Fonts	6 BITSTREAM® fonts I size in width and heigth 1 – 99 mm variable zoom I orientation 360° in steps of 90°	
Font Attributes	Dependent on font type – bold, italic, inverse, vertical	
Character Spacing	variable	
Bar Codes	All bar codes are variable in height, module width and ratio I orientation 0°, 90 °, 180°, 270° check digit and human readable line optional.	
1D Bar Codes	CODABAR, Code 128, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128, Identcode, ITF 14, Leitcode, Pharmacode, PZN 7 Code, PZN 8 Code, UPC-A, UPC-E	
2D Bar Codes	Aztec Code, CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF 417, QR Code	
GS1 Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated	

Mechanical Drawings - Print Mechanics, right version

Control unit