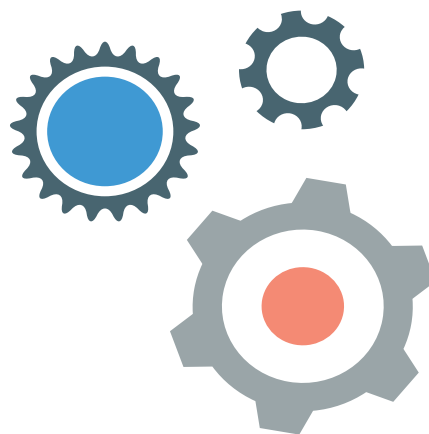




MALL
CONSULTING
PARTNER



TSC

The Smarter Choice.

➤ www.tscprinters.com



MH240 Series

Industrial Thermal Printers

MH Series Family

STANDARD



326 mm

Touch



326 mm

PREMIUM



412 mm

MH240/MH340/MH640
-200/300/600dpi
-14/12/6 ips
-3.5" LCD display
-DRAM 128MB
-FLASH 128MB

MH240T/MH340T/MH640T
-200/300/600dpi
-14/12/6ips
-4.3" Touch panel
-DRAM 256MB
-FLASH 512MB

MH240P/MH340P/MH640P
-200/300/600dpi
-14/12/6ips
-4.3" Touch panel
-DRAM 256MB
-FLASH 512MB
-Internal full roll rewinder

Dimension of MH



**The difference of 86 mm is because the internal rewinder.*

MH240 profile

- 3.5" TFT color LCD display
- 6 operation buttons
- 1 LED indicator w/ two colors
- Easy for standalone application w/ USB keyboard

- 2 USB host in the front side
- USB keyboard/scanner



Key spec--MH240T

-4.3" Touch panel

-6 operation buttons

-1 LED indicator w/ two colors

-Easy for standalone application w/ USB keyboard

-2 USB host in the front side

-USB keyboard/scanner

-Media near end sensor



Key spec--MH240P

-Media near end sensor

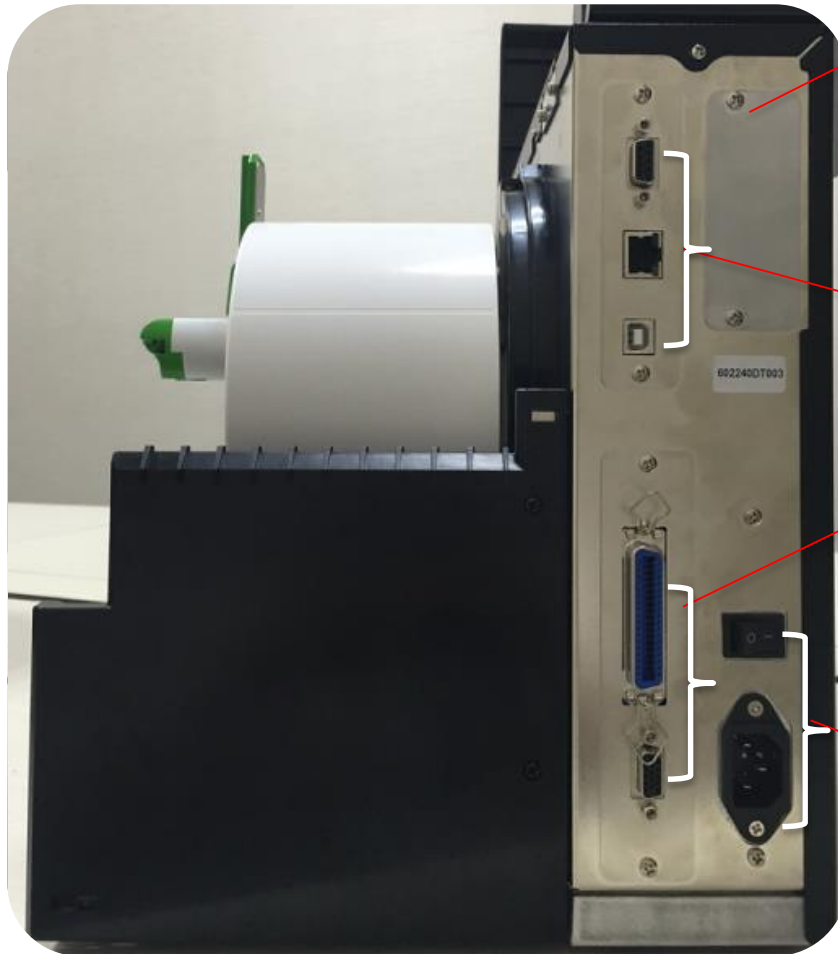
- 4.3" Touch panel
- 6 operation buttons
- 1 LED indicator w/ two colors
- Easy for standalone application



- 2 USB host in the front side
- USB keyboard/scanner

-Internal 8" OD full roll
rewinder

MH series profile



-Reserve for slot-in Wi-Fi module (Dealer option)

-RS-232

-Ethernet, 10/100Mbps

-USB 2.0 high-speed

-Parallel and GPIO are reserved for factory option.

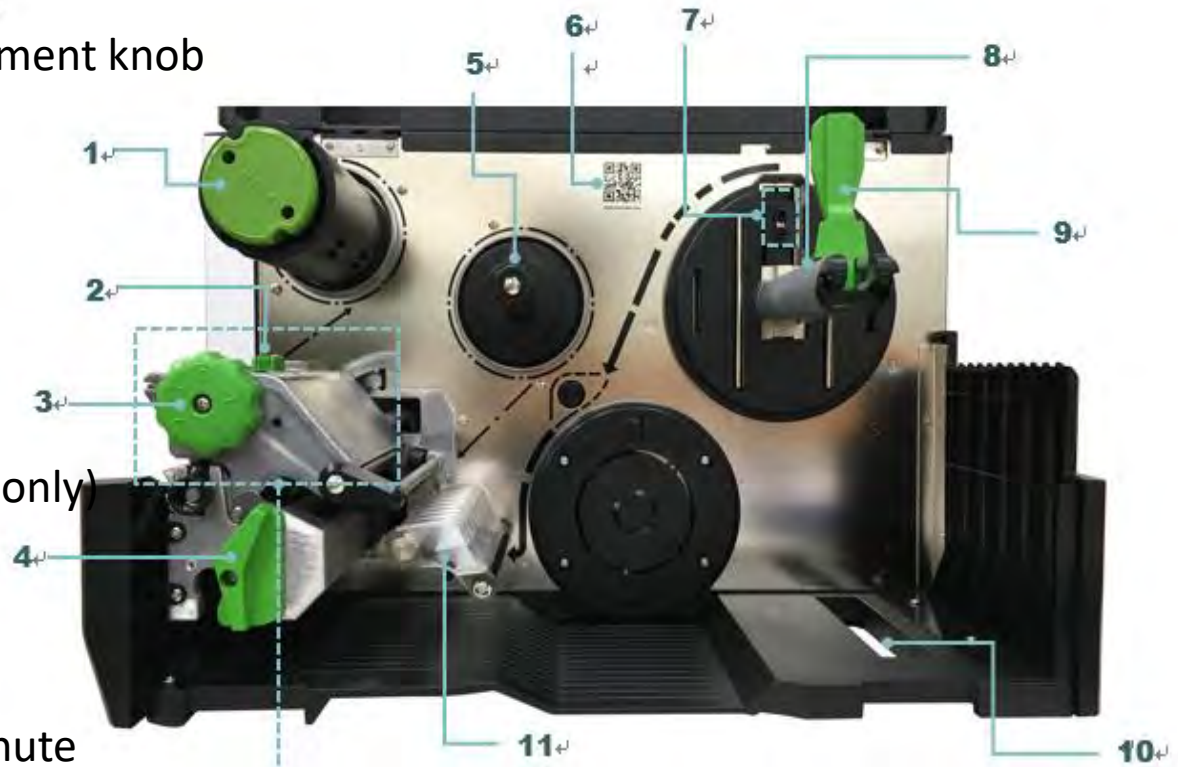
-Power switch & power jack



Interior View_MH240 & MH240T _1



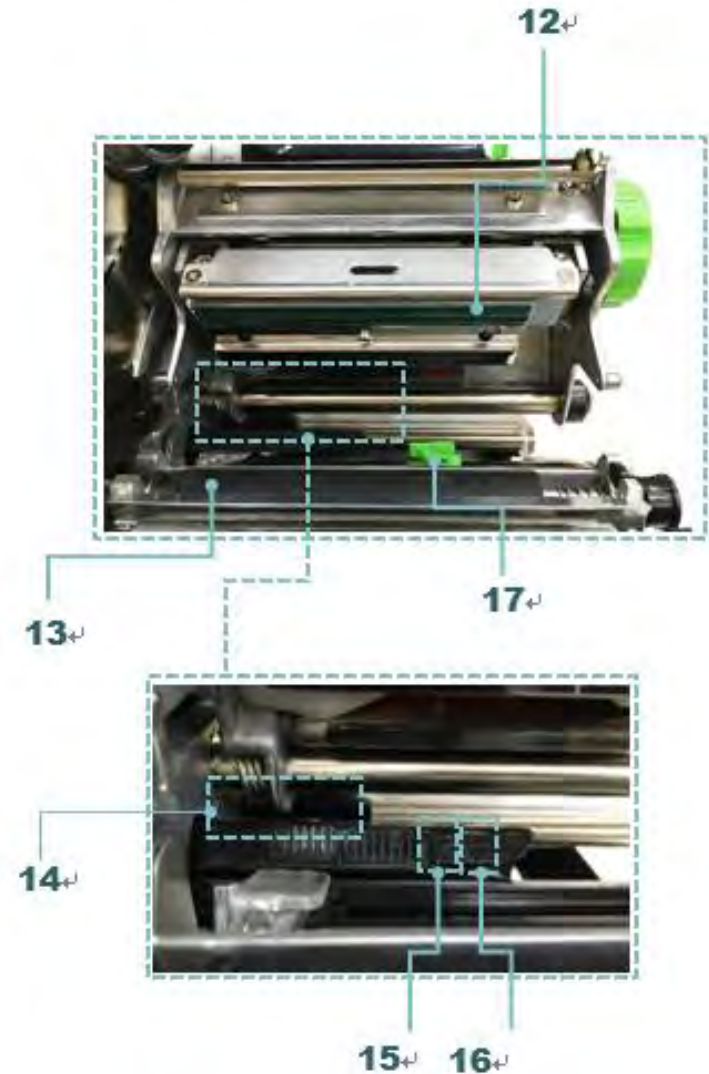
1. Ribbon rewind spindle
2. Print head pressure position adjustment knob
3. Print head pressure adjustment knob
4. Print head release lever
5. Ribbon supply spindle
6. TSC website QR Code
7. Media near end sensor
(movable, MH240T Series only)
8. Label supply spindle
9. Label roll guard
10. External label entrance chute
11. Damper



Interior View_MH240 & MH240T _2

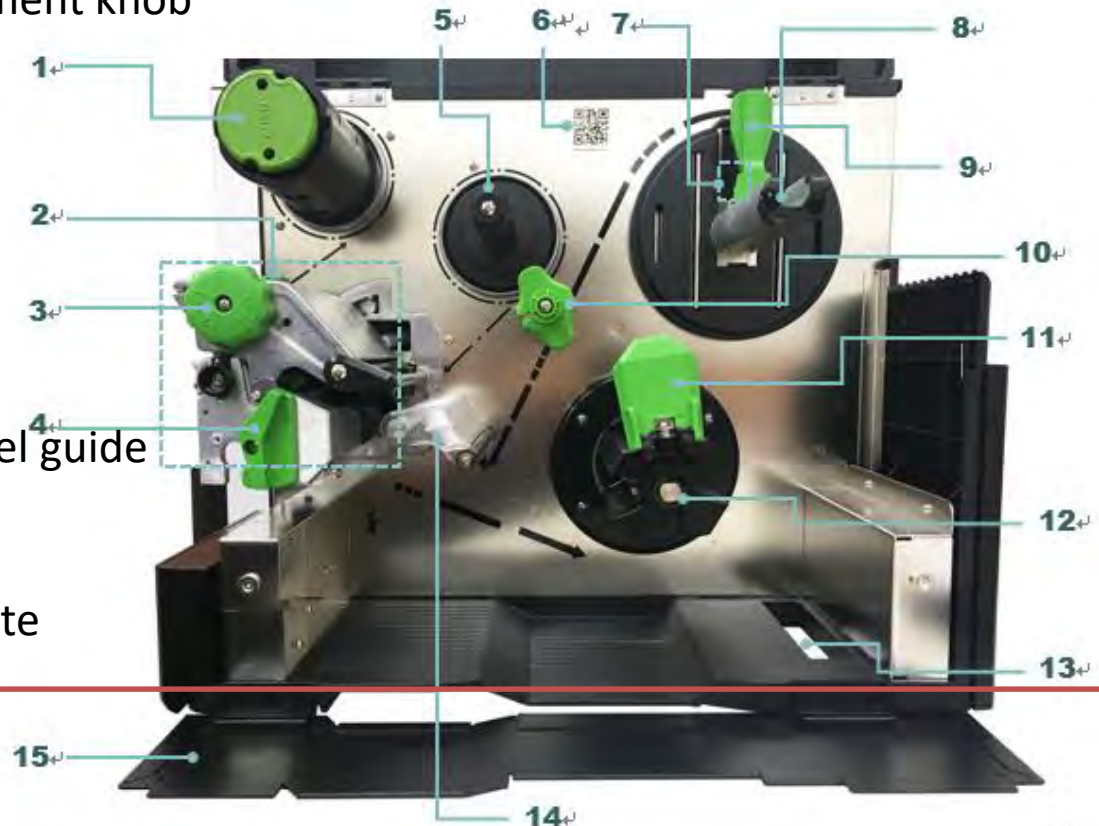


- 12. Print head
- 13. Platen roller
- 14. Ribbon sensor
- 15. Black mark sensor (shown as ↓)
- 16. Gap sensor (shown as ▽)
- 17. Front label guide



Interior View_MH240P_1

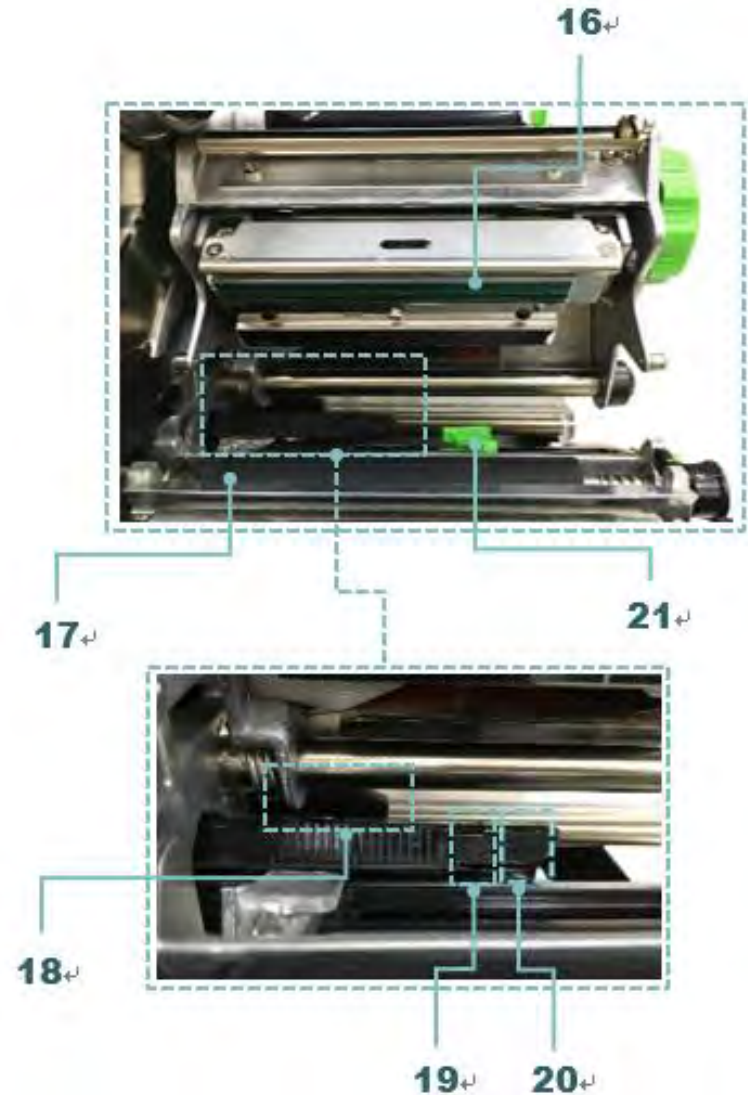
1. Ribbon rewind spindle
2. Print head pressure position adjustment knob
3. Print head pressure adjustment knob
4. Print head release lever
5. Ribbon supply spindle
6. TSC website QR Code
7. Media near end sensor (movable, MH240T/MH240P Series only)
8. Label supply spindle
9. Label roll guard
10. Media guide bar & rear label guide
11. Media rewind guide
12. Media rewind spindle
13. External label entrance chute
14. Damper
15. Printer lower cover



Interior View_MH240P_2



- 16. Print head
- 17. Platen roller
- 18. Ribbon sensor
- 19. Black mark sensor (shown as ↓)
- 20. Gap sensor (shown as ▽)
- 21. Label guide



MH240 Series Spec Summary



Model	MH240	MH340	MH640	MH240T	MH340T	MH640T	MH240P	MH340P	MH640P
Resolution (dpi)	203	300	600	203	300	600	203	300	600
Print speed (IPS)	Up to 14	Up to 12	Up to 6	Up to 14	Up to 12	Up to 6	Up to 14	Up to 12	Up to 6
Max. print width	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm	104 mm
Dimension	276 mm (W) x 326 mm (H) x 502 mm (L)						276 (W) x 412 (H) x 502 (L): w/ internal rewinder		
Label roll capacity	8" OD, Core 1.5", 3"								
Ribbon capacity	600 M with 1" core								
Processor	ATMEL A5D31 MPU, 536MHz								
UI	6 buttons with 3.5" TFT Color LCD Display			6 buttons with 4.3" Color Touch Panel					
Memory	128MB Nand Flash, 128MB DDR2 DRAM			512MB Nand Flash, 256MB DDR2 DRAM					
Sensors	Gap/BM/Ribbon end/Ribbon encoder/Head open			Gap/BM/Ribbon end/Ribbon encoder/Head open/ Media near end					
Std Interface	USB 2.0 high-speed, RS-232, Ethernet, USB Host x 2 in front								
Factory option	Parallel port / GPIO board /BT 4.0 module								
Dealer option	Peeler KIT, regular guillotine cutter, Heavy duty cutter , slot-in Wi-Fi module/Housing, Internal BT						Slot-in Wi-Fi module/housing; Internal BT		

Why MH240 series!



Best Printing

- High speed, up to 14/12/6 ips
- Best quality

Easy to operate

- New ID/UI/GUI design
- Easy for TPH exchange & media handling

Better Media Sensing

- Precise media positioning
- Preprinted label identification

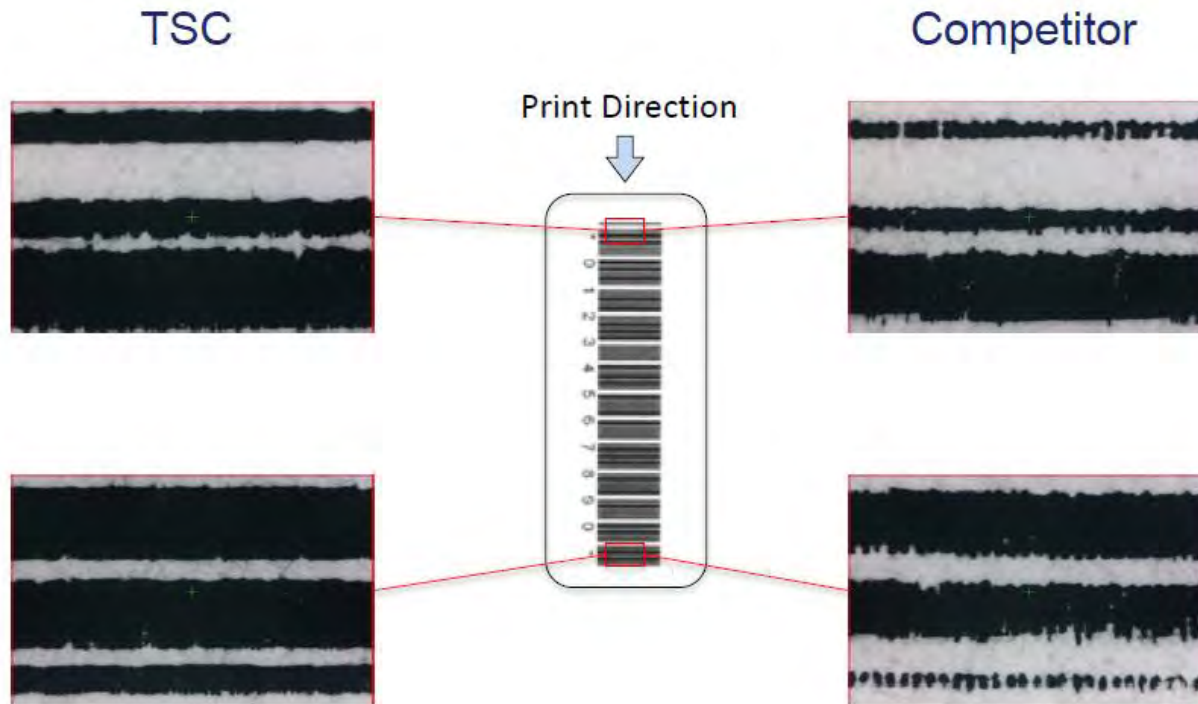


Key Feature Exploration

Superior Printing Quality Control



“Thermal Smart Control”™ print technology produces cleanest, high quality barcodes



Easy Operate and Maintenance



Wider print head opening for easy access, quick media handling ,and faster maintenance

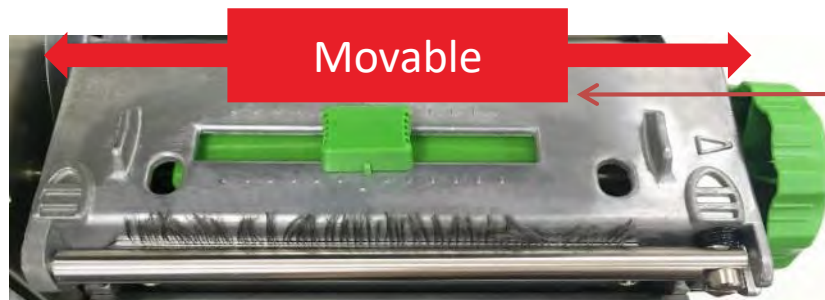


Mechanism Fine Adjustment For Best Printing

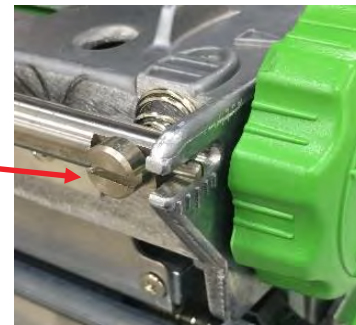


Mechanism Fine Adjustment to avoid ribbon wrinkles and ensure label clarity

- ✓ The **print head pressure adjustment** knob has 5 levels of adjustment.



- ✓ The ribbon tension adjustment knob has 5 positions for adjustment



Movable Media End Sensor Detection



Detect the capacity of media and remind users to change the media roll on LCD display.

*CASE 1:
Media offer is in normal status

*Case2 :
Warning: almost run out of media



Label Tension Damper System



Application of tension damper make label track more smoothly



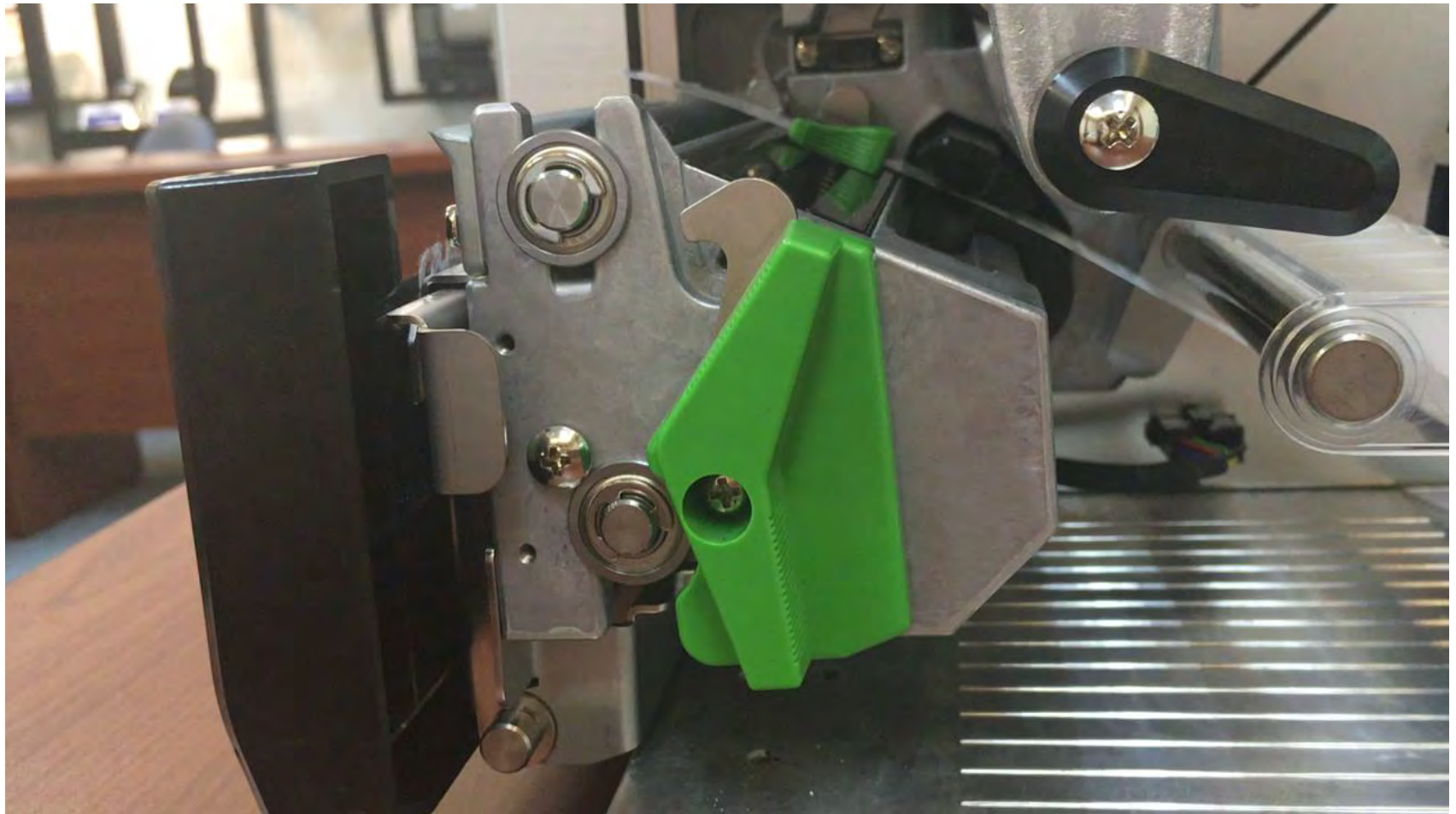


Demo the features

Foldable design for saving the space



Easy for label handling



Easy to remove the roller



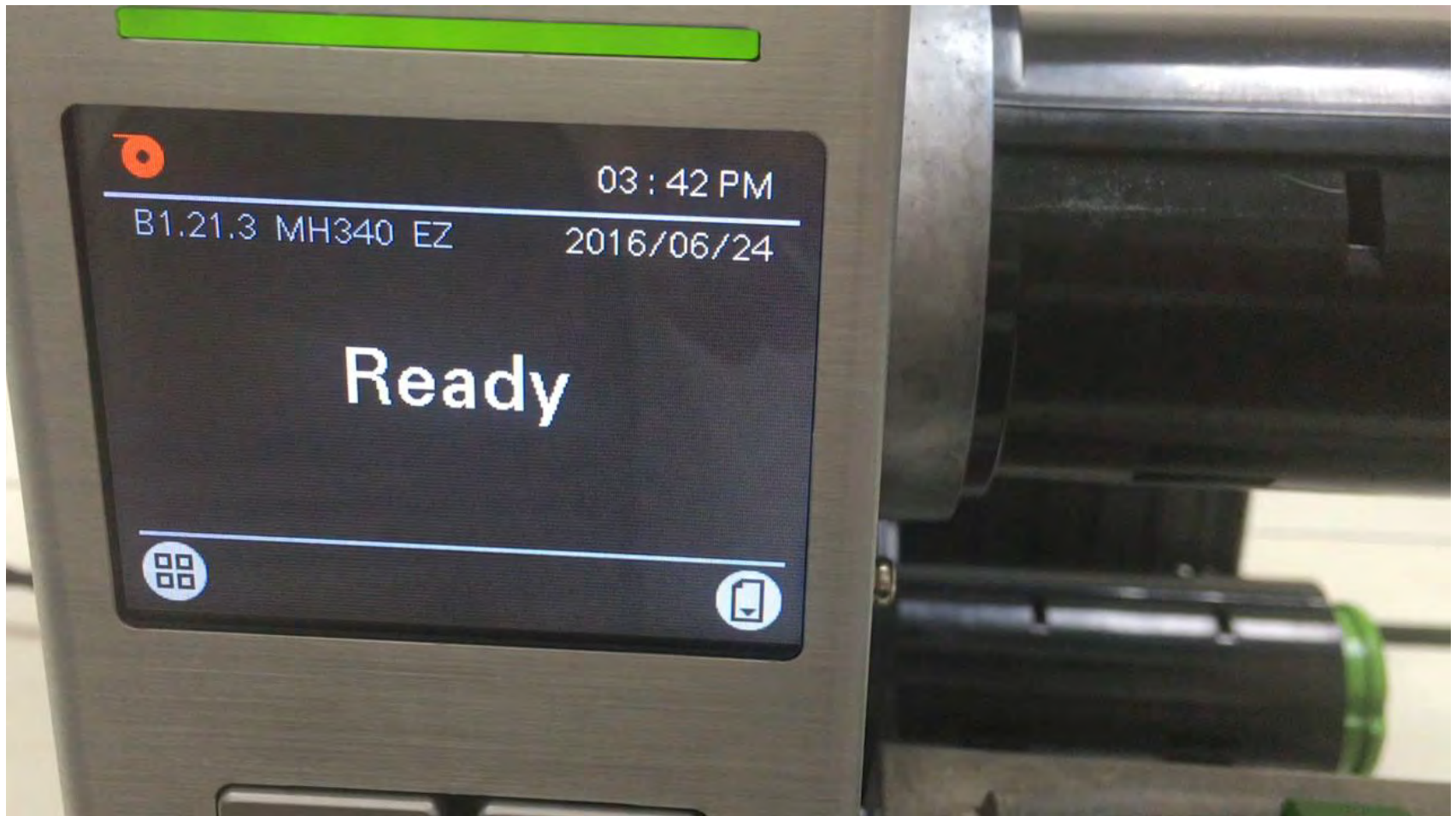
Easy to replace the roller



Large space for cleaning the TPH



Easy to change the TPH



Precise preprint label calibration



[Click and play video](#)

0.5" length small label peeling (MT/MX support 1")





NEW GUI Design

Friendly User experience---Standalone

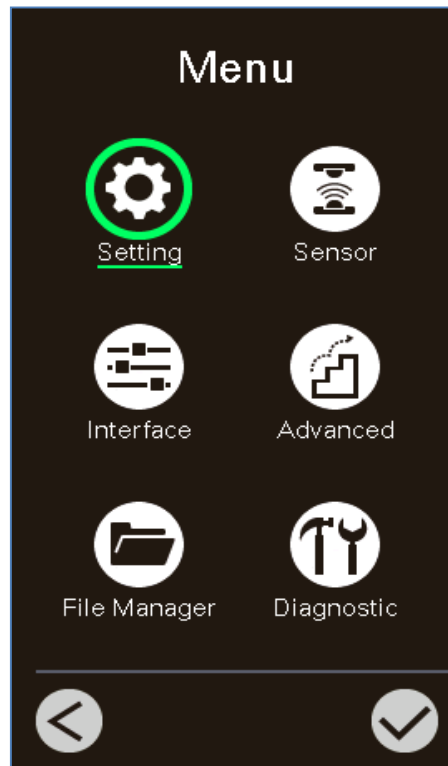


Effortless Setup

- Intuitive and simplified user experience

Trouble Shooting

- With graphic wizard for the installation and trouble shooting



Quick Service

- Abundant interactive service information with TSC via the QR code (Via Smart phone)

Easy Access

- Standalone to access the file from USB drive (USB host)
- Keyboard/Scanner

New GUI- Intuitive Homepage

Status bar:

- (1) Wi-Fi connection (2) Ethernet connection
- (3) Media Low (4) Ribbon Low (5) Others

System info:

- (1) F/W version (2) Model Name (3) Date & Time

Printer Idle Mode:

Logo is changeable (Can be Customized)

IP address:

IP1: Ethernet IP address

IP2: Wi-Fi IP address

Quick Function Buttons:

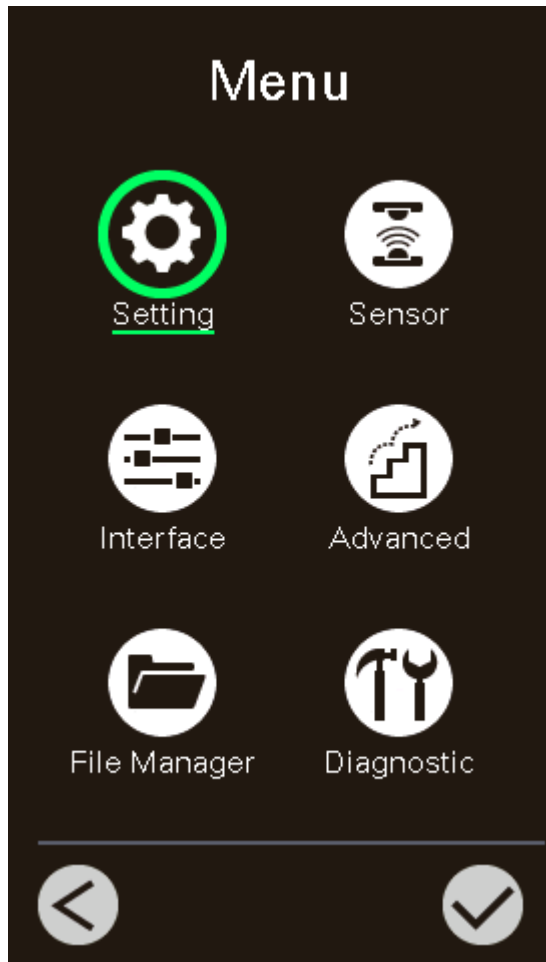
- (1) MENU (2) Calibration (3) Favorites (Can be Customized)

Function Buttons:

- (1) SELECT (2) FEED



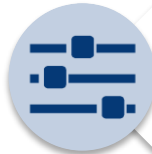
New GUI-Menu Design Sketch



This "Setting" category can set up the printer settings for TSPL & ZPL2.



This "Sensor" option is used to calibrate the selected media sensor. We recommend calibrate the sensor before printing when changing the media.



This "Interface" option is used to set the printer interface settings.



This "Advanced" option is used to set the printer LCD settings, initialization, cutter type, media low warning setting %...etc.

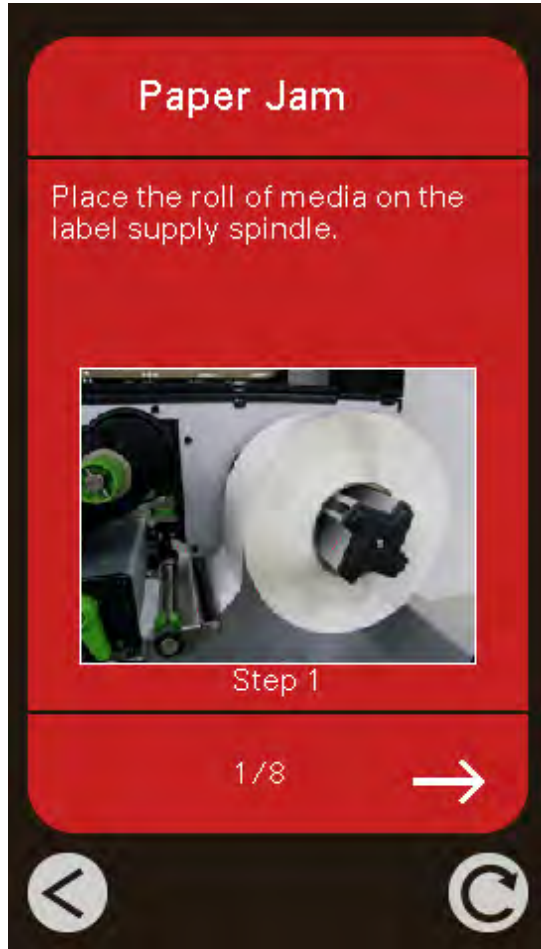


This "File Manager" option is used to check/ manager the printer available memory.



This "Diagnostic" option is used to review printer to troubleshoot problems and other issues.

New GUI – Warning & Troubleshooting



Error message



Step-by-step guide for trouble shooting.



Visualize for trouble shooting.



Next page for further guidance



Introducing MH240

MH240 introducing video







Sustainable Improvement

MH240 mainly upgrade from TTP-2410MT

MH240 VS. TTP-2410MT--Specification



	MH240T/340T/640T		TTP-2410MT/346MT/644MT	
List price	1540/1595		1445/ 1495/1485/ 1535	
Maximum Print Speed	14/12/6 ips		14/10/4ips	
Print Width	4"		4"	
Display	4.3" color touch panel (New GUI)		4.3" color touch panel	
USB 2.0	Standard		Standard	
USB Host	Standard x 2 (Front side)		Standard x 1	
Memory (SDRAM / Flash)	256 MB / 512MB		128 MB / 128 MB	
SD/micro SD card reader	32 GB Standard		32 GB Standard	
Minimum Label Width	0.78"		1.0"	
Maximum Label Width	4.49"		4.6"	
Minimum Label Length	5mm		5mm	
Maximum Label Length	1,000"		1,000"	
Label Thickness	0.06 to 0.28 mm		0.06 to 0.3 mm	
Peer length	0.5"-6"		1"-6"	
Rewinder	Optional (8" OD)		Option (6" OD)	
Media core diameter	3" or 1.5" ID core		1"-3" ID core	
Sensors	Head open sensor Ribbon encoder sensor (Capacity) Ribbon end sensor Media sensor (Gap/BM) Peer-off sensor (Option) Media near end sensor		Head open sensor Ribbon encoder sensor (Capacity) Ribbon end sensor Media sensor(Gap/BM) Peer-off sensor (Option)	

Improve Printing Quality-TPH Pressure Adjustment



Better control for quality & avoid the wrinkle issue

MH240

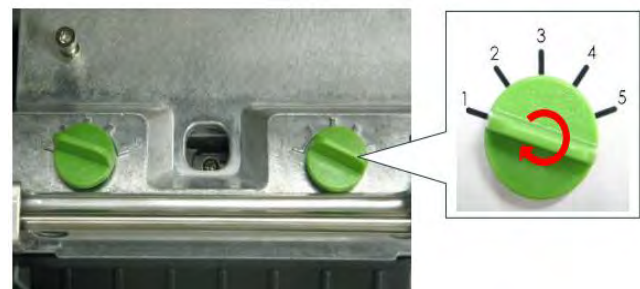


TTP-2410MT

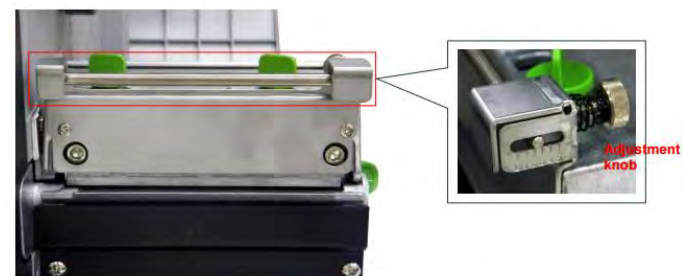
Position Moveable

Position **Not** Moveable

Print Head Pressure Adjustment Style



Ribbon tension adjustment



Improve Ease of USE-TPH/Roller Exchange Handling



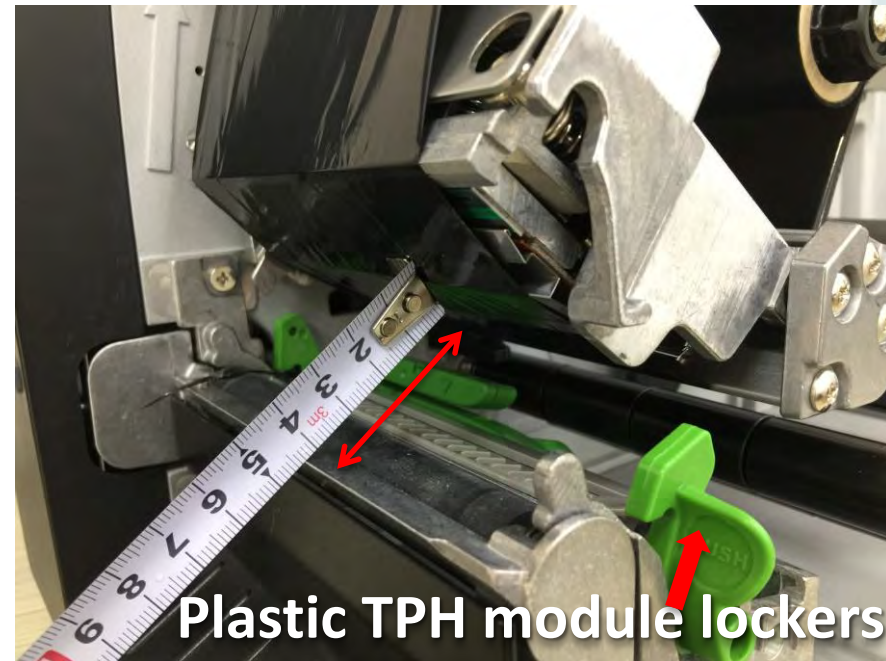
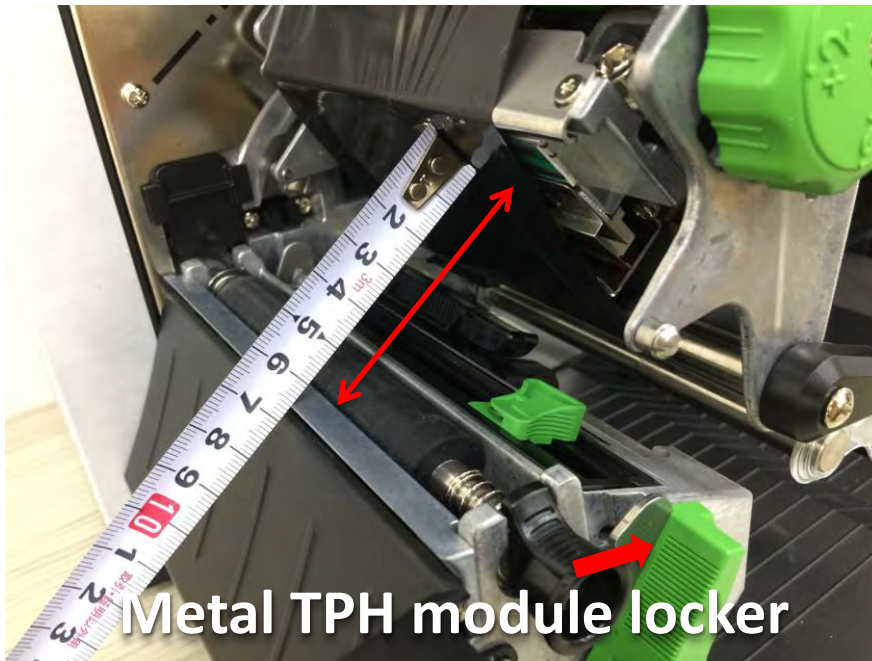
Better design for TPH/roller exchange handling

MH240

Vs

TTP-2410MT

- Tool-less TPH exchange
- Tool-less platen roller exchange
- **Wider open for TPH cleaning and media handling**



Improve Ease of USE-TPH/Roller Exchange Handling



Better design for media capacity control and show on LCD!

MH240T/MH240P only

Vs

TTP-2410MT

- Label near end sensor (position adjustable)



Improve USB Slot Position



2 USB slot for keyboard and scanner connection

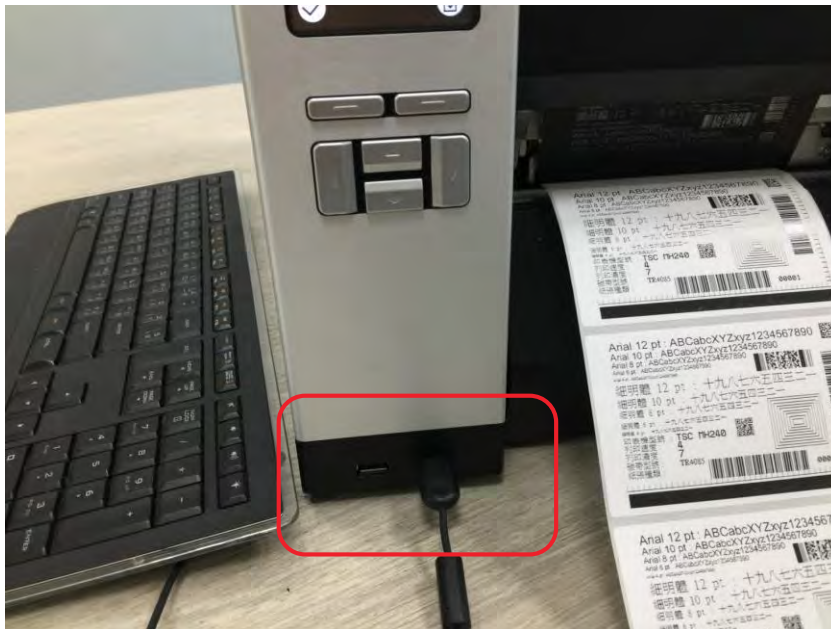
MH240T/MH240P only

Vs

TTP-2410MT

*2 USB host interface(front side)
for stand-alone applications more easily

*USB host interface in back side



Improve Enhanced Power Supply



Better power saving and energy star 2.0 certified.

MH240T/MH240P only



TTP-2410MT

Multi-Power Output:

- DC 5V, 5A (Main board)
- DC 24V, 7A (TPH and others)
- DC 36V, 1.4A (Motor)
- Total 243W



Single-Power Output:

- DC 24V, 5A
- Total 120W



Brand new GUI Design Concept

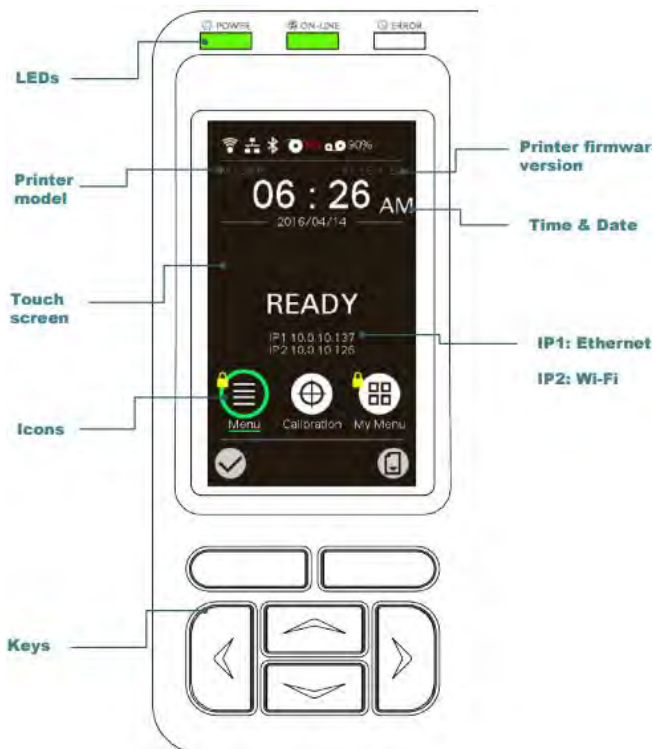


Intuitive color touch display and operation

MH240T/MH240P only



TTP-2410MT



MH Series Design Concept Upgrade



1

New high performance processor



2

New multi output power supply and Energy Star 2.0 certified.



3

Solid design for TPH tool-less exchange and easy to clean



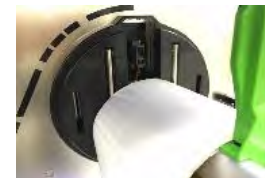
4

New design for tool-less platen roller replacement



5

Adjustable media near end sensor position



6

0.5" small label peeling support



7

MH240P provides full roll rewriter (8" OD)

Competitors

\$



MH240P
203/300/600 dpi
14/12/6 ips
D-256MB
F-512MB
8" Internal rewinder



MH240T
203/300/600 dpi
14/12/6 ips
D-256MB
F-512MB



MH240
203/300/600 dpi
14/12/6 ips
D-128MB
F-128MB



ZT410
203/300/600 dpi
14/10/4 ips
D-256MB
F-512MB
\$1,765



PM43
203/300/406 dpi
12/12/10 ips
D-128MB
F-128MB
\$1,790



CL4NX
203/305/609 dpi
10/8/6 ips
D-64MB
F-64MB
\$1,695

Industrial Competition

	MH240 series	MH240T/P series	ZT410	PM43	CL4NX
Dimension W x H x D (mm)	276x325x493	276x325x493 (276x415x493 w/ rewinder)	269x324x495 16.33kg	284x294x484 15.82kg	271x321x457 15kg
Resolution (dpi)	203/300/600	203/300/600	203/300/600	203/300/406	203/305/609
Max. Speed (IPS)	14/12/6	14/12/6	14/10/4	12/12/10	10/8/6
Max. Print Width (mm)	104	104	104	108/106/104	104
Print Length (mm)	25400/11430/2540	25400/11430/2540	3988/1854/991	4800/1200	2500/1500/400
Ribbon Capacity (m)	600	600	450	450	600
Media Capacity (OD)	8" (1.5"/3" core)	8" (1.5"/3" core)	8" (3" core)	8.38" (1.5"/3" core)	8.6" (3" core)
Media Width (mm)	20~114	20~114	25.4~114	19~114	25~131
Media Thickness (mm)	0.06~0.28	0.06~0.28	0.058~0.25	0.06~0.264	0.06~0.268
LCD Display	3.5" color display	4.3" touch panel	Mono-LCD display	3.5" touch screen	3.5" color LCD
DRAM	128MB	256MB	256MB	128MB	CPU1: 256MB CPU2: 64MB
FLASH	128MB	512MB	512MB	128MB	CPU1: 2GB CPU2: 4MB
Expansion Memory	USB Thumb Drive	USB Thumb Drive	USB Thumb Drive	USB memory device (O)	USB memory
Sensor	Gap & BM (Movable), Head Open, Ribbon Near End	Gap & BM (Movable), Head Open, Ribbon Near End, Media Near End (F)	Gap , BM sensor	Gap sensor, BM, Head open, Media low, Ribbon end, Ribbon low	Gap , BM sensor
Interfaces	Internet, USB 2.0, USB Host, RS232	Internet, USB 2.0, USB Host, RS232	NFC, USB2.0, Ethernet, RS-232, BT, USB host	USB 2.0, Ethernet, RS-232, USB host * 2. LPT (O)	USB2.0, E, USB host, LPT, BT3.0
Peeler	Option	Option	Option	Option	Option
Cutter	Option	Option	Option	Option	Option

Live Show



MH240 Series

Your best demanding printing partner!