

The fast, entry-level printer that's capable of producing high quality receipts due to the use of the very latest, leading edge components.

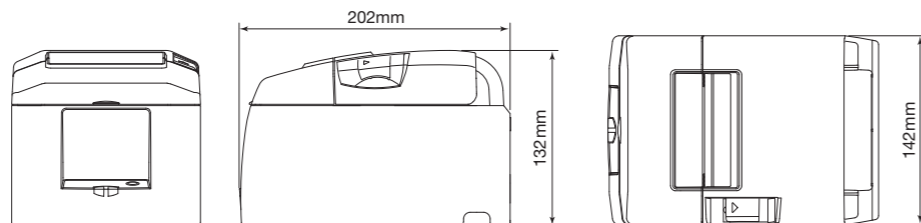
### TSP654 Autocutter version

- High performance, entry-level receipt printer capable of printing at a non-hesitating 150mm per second with an outstanding data throughput
- High quality 203 dpi print quality with barcode capability including 2D for receipts, coupons and ticketing etc.
- Highly versatile printer with small compact footprint and choice of two paper widths 58mm or 80mm as well as the Star "Drop-In & Print", easy-load feature
- Start up accessories provided with printer include:
  - \* Operating CD with a suite of drivers
  - \* Wall mount plate with vertical kit including both horizontal and vertical mount paper near end sensors
  - \* Paper guide for choice of 58mm or 80mm paper widths
  - \* Power switch cover to prevent accidental switch off
  - \* Start up paper roll
- TSP650 Options include:
  - \* Warning buzzer
  - \* Power supply PS60
  - \* USB and low cost Ethernet interfaces
  - \* Splash proof cover
  - \* Display stand for vertical use and space saving. Can be used with or without attached in-store A5 graphics



TSP650 SERIES SPECIFICATIONS	
Printer Method	Direct Thermal Line Printing
Print Speed	up to 150mm / second
Receipt per Minute throughput speed	19 receipts per minute (parallel interface) 32 receipts per minute (USB interface)
Print Resolution	203 dpi
Two Colour Print Capability	Red, Blue and Black (special paper required)
No. of Columns	48 / 64
Character Set	ANK 95, 32 Int 128 Graphic
International Code Pages	Star Mode = 40. ESC/POS™ = 6 & 1 Blank allowing an additional character page to be added
Barcodes	9 versions / PDF417 option
Line Spacing	3mm or 4mm + Programmable
Paper Feed Speed	up to 150mm / sec.
Paper Specifications:	
Width	80mm standard / 58mm (paper guide)
Weight	0.065 ~ 0.085mm / 63 ~ 85gsm
Roll Diameter	83mm
Easy-Load	"Drop-In & Print"
Paper End	Standard
Near End Sensor	Horizontal and vertical use
Maximum Print Width	80mm paper = 72mm, 58mm paper = 52mm
Autocutter (guillotine)	Partial cut (centre cut)
Logo Store	2 Mbit Flash ROM with graphic management software
Flash ROM	16Mbits
Drivers Available	Windows 2000/XP, Vista™, WePOS, OPOS™, "Linux™", Java-POS™, POS.Net, Mac OS X, USB Vendor Class, Windows 98/ME/NT4 (download only)
Interface Versions	Serial or Parallel with USB and low cost Ethernet options
Emulation	Star Line Mode & ESC/POS™
Peripheral Drive Circuit	2 circuits (24V max. 1A), 1 Compulsion input
Power Consumption	Operating / Waiting – Average 1.8 / 0.15A Uses PS60A – 24 Psu with Hosiden connector
Operating Conditions:	
Temperature	5°C to 45°C
Humidity	10% ~ 90% RH (without condensation)
Storage Conditions:	
Temperature	-20 to 60°C
Humidity	10% ~ 90% RH
Dimensions	142 (w) x 202 (d) x 132 (h) mm
Weight	1.72 / 1.56 Kg (Autocutter / Tear bar version)
Safety Standards	UL, C-UL, TÜV, FCC, VCCI, EN55022, CE, Gost
Reliability:	
Printer	60 million lines (MCBF)
Autocutter	1 million cuts
Options	Parallel (IFBD-HC03), Serial (IFBD-HD03), Ethernet (IFBD-HE05), USB (IFBD-HU05) Interfaces Wall & Vertical Mount Kits (basic wall mount kit supplied with printer) Splash Proof Cover Charcoal grey display stand with in-store A5 graphics facility Buzzer

All specifications are subject to change without notice.



TSP650

## High Spec., Fast, Entry-Level Receipt Printer THE TSP650 SERIES



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# TSP650 FEATURES AND BENEFITS



**Once again Star has designed a high spec., entry-level receipt printer which will happily slip into the majority of POS and Hospitality Solutions. Producing fast, high quality receipts with the very latest, leading edge components, this printer takes entry-level data processing to a new level. Star can now offer a low cost, entry-level receipt printer with traditional interfacing capable of producing 19 receipts per minute with graphics and 20 lines of text. Very few customers can pay faster than that!**

## High Performance at entry-level pricing

The TSP650 fully demonstrates its superiority over the "print hesitating" competition by producing high quality, 203 dpi receipts at a rapid 150mm per second, using its unrivalled processing power.

Print hesitation, experienced by competitive models, has been avoided by combining the very latest leading edge components with Star printer driver and software superiority.

Using Star's established method of measuring printer performance, the TSP650 Series is capable of producing a very high number of receipts per minute, whilst still remaining at an entry-level price.

### Receipt Per Minute Performance Results

Printer	Driver	Resolution (dpi)	Print Speed (mm/sec)	RPM (USB) with graphics
<b>STAR</b>				
<b>TSP650</b>	<b>TSP650 Advanced Raster</b>	<b>203</b>	<b>150</b>	<b>32</b>
<b>TSP700II</b>	<b>Advanced Raster / Advanced Line</b>	<b>203</b>	<b>250</b>	<b>50</b>
<b>EPSON</b>				
<b>TM-T88III™</b>	<b>Receipt3 Ver.5.0.3.0</b>	<b>180</b>	<b>150</b>	<b>6</b>
<b>TM-T88IV™</b>	<b>Receipt3 Ver.5.0.1.0</b>	<b>180</b>	<b>200</b>	<b>42</b>

Results obtained printing 80mm wide x 150mm long receipt (Win XP, P4, 2.4 GHz)

## Star Build to suit your budget

Star's latest compact and stylish design has reliability built into literally every component. Due to Star's expertise in producing market-leading automated lathes we are in control at every level of the build, producing record reliability MCBF levels for an entry-level printer with an average 60 million lines between failures.



The guillotine cutter completes the list of well thought out components with the usual Star central partial cut allowing all hanging receipts, kitchen orders etc. to hang patiently in a straight line.

## Star Quality

This entry-level printer is a true all rounder and is capable of printing high quality barcodes for coupons or tickets on media up to 85gsm.

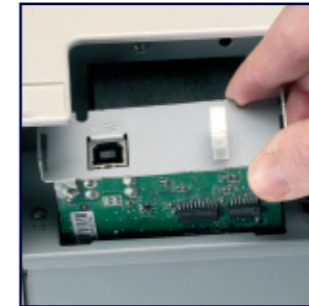


"Drop-In & Print" Easy Load



## Star Choice

All models are available in charcoal grey or Star white and with either serial RS232C or parallel interfaces as standard. (USB and low cost Ethernet autocutter models available, options are available for future upgrades).



## Star Compatibility

Star Micronics' phenomenal growth in the POS market must be down to both its choice of hardware and its ability to successfully integrate with the majority of operating platforms in the field.

Star expertise extends from the normal Microsoft Windows support including Vista™ to Mac OSX™, Linux and the more complicated XP embedded™, WePOS, etc.



## Star Colour

Fast, cost-effective two colour output (blue/black or red/black) at costs comparable with other point-of-sale technologies.



## Star Versatility

Just like its USB counterpart, the TSP100 futurePRINT, the TSP650 Series is supplied with a series of accessories at purchase to enable rapid integration into your existing set-up:

- Operating CD with a suite of drivers
- Wall mount plate with vertical kit including both horizontal and vertical mount paper near end sensors
- Paper guide for choice of 58mm or 80mm paper widths
- Power switch cover to prevent accidental switch off
- Start up paper roll

TSP650 series options include:

- Warning buzzer
- Power supply PS60
- USB and low cost Ethernet interfaces
- Splash proof cover
- Vertical display stand for in-store A5 graphic use or additional space saving

