

TM-U590: The EPSON High-end flatbed slip printer

EPSON is to present a document printer in the form of TM-U590, which uses a clever operating system to be able to produce the most varied of slips. Its well thought out, robust design makes it suitable for all sectors which value practical handling, flexibility and a high level of reliability.

Flat, easy to clean surfaces provide an attractive design with high-level functioning. By opening the front cover, the entire printer mechanism can be accessed as well as the ribbon cassette can be changed quickly and easily. The self-explanatory operating panel is designed simply and ergonomically. If certain applications apply, the panel can also be switched off via the software, so that check-out staff could not interfere with the printer set-up.

Connection made easy

At the rear of the printer, all necessary interfaces are arranged logically and comprehensibly. The interface to the system can be changed, to install either a RS232, RS485 or a parallel interface. Interfaces to control up to 2 cashdrawers and the direct connection option of a customer display are also available.

Comfortable in the application

The EPSON TM-U590 can process almost any design of form, up to 5 layers of A4 paper. It doesn't matter whether its carbon paper, pressure-sensitive paper, prescriptives or edge-bonded form sets.

All slips are printed in two directions with logical print head positioning and at a speed of up to 311 characters per second. The printer provides functions for software development, which for example make precise positioning of the print head, overprint head, the printing of graphics and user-defined codes very easy.

The integral 'Auto-Status-Back' function (ASB) allows the printer to become an active and intelligent component of a POS system and significantly simplifies software development. The mechanics and all the functions of the TN-U590 are also used in the TM-H5000II, which as a hybrid printer, additionally has a fast thermal receipt printing mechanism.

The MCBF-performance of 29 million lines, ensure the extreme durability of the printer. Also the EPSON original ribbon ERC-31 is very long lasting, offering a capacity of ca. 7 million characters.



Fast impact printing on up to 4 copies: the TM-U590



The extension table WT-5000 makes slip insertion a childs play

Features TM-U590

Your Benefit

Compact design, 25,2 cm width	Saves space on or under the counter
Functional and smooth housing	All components of the printer are easy to reach and to clean
Prints multipart (1+4) credit and authorisation slips up to A4 size	Gives high flexibility by offering the use of all standard POS-slip formats with up to 4 copies
Printing speed up to 311 characters per second	Saves time at POS during the cash procedure; avoids customer queues in the cash zone; fast print of sharp bar-codes and logos
Easy change of ribbon cassette	Time saving at the POS and error-free change as well as a short training period of the cashier staff
Flatbed construction	A straight and flat paper path ensures errorfree printing and handling
Relatively silent printing	Useful for a convenient atmosphere in the cash zone; Printer can also be used in high-class shops; avoids disturbing the staff and the customers at POS
Large EPSON ribbon cassette for up to 7 million characters	Saves time at POS and avoids customer queues in the cash zone due to ribbon change
Harmonisation between printer mechanism and EPSON ribbons	High print quality; Particularly long ribbon and printhead life
Auto-status-back function	The printer gives valuable information about status of paper roll, slip insertion and others; reduces programming time and costs
Exact head positioning in „Page Mode“	Easy and quick software development
Interface can be exchanged	Gives flexibility for applications of the future; printer can be used for many branches; saves the investment
Excellent MTBF and MCBF values	The high reliability results in a low error ratio and avoids failures of cash systems due to printer problems; leads to low TCO
Built-in drawer kick out interface to connect up to two drawers	Saves an additional interface for the cash drawer within a system; Two drawers make handling of different currencies easy
Available with parallel, serial, USB- or Ethernet interface	The printer can be easily adapted to any current or future system configuration
Supports the well known ESC/POS code for POS-printers	Ensures compatibility with all EPSON POS-printers and peripherals; offers flexibility for future expansions
Free-of-charge OLE/POS - OCX printer software for Windows	OCX printer software for application development support reduces the time period for application development
An EPSON product	The performance of a strong partner, wide experience and support, compatibility to all EPSON peripherals

Technical data EPSON TM-U590

Print method	9-Pin impact dot matrix;
Print font C/B/A	5x9 / 7x9 / 9x9 dots
Column capacity C/B/A	88 / 66 / 88 cpl
Character size C/B/A	1.6(W) x 3.1(H) / 1.3(W) x 3.1(H) / 1.6(W) x 3.1(H)
Printing width mm	135.6
Character sets	95 alphanumeric, 32 international ch., 128 x 10 character sets
Interface	<ul style="list-style-type: none"> • Optional: RS-232, RS-485, bi-directional parallel, USB, Ethernet • Cash drawer • Customer display (only with serial interface) • Power supply: PS-180
Receive buffer	4 KB or 69 bytes
User def. buffer	5 KB for userdefined characters or graphics
Print speed	311/233 characters per second, font B/A
Paper Dimensions mm	70(W) x 70(H) to 210(W) x 297(H)
Paper Thickness mm	0.09 to 0.2 (max. thickness 0.36 mm)
Sensors	TOF, BOF, cover open
Copy capability	Slip: one original and 4 copies
Ribbon	ERC-31
Ribbon capacity	ERC-31: ca. 4,5 mio. characters at 18 dits/character
Power supply (Option)	PS-180
Consumption	Printing 1.9 A Stand-by 0,3 A
Reliability MTBF	180 000 h
Reliability MCBF	29 mio. lines
Overall dimensions mm	252(W) x 266(D) (incl. Extension table) x 185(H)
Weight	5 kg
EMI standard	CE mark, EN55022 class B, EN55024, EN45501
Safety standards	EN 60950
Options	<ul style="list-style-type: none"> • PS-180 • Table extension WT-5000 • DM-D customer display