

HENGSTLER



**YOUR THERMAL
PRINTER PARTNER**



Versatility and Competence

■ HENGSTLER TODAY

Hengstler is a leading European manufacturer of industrial components for counting and control applications, such as counters, encoders, industrial and temperature controllers, relays as well as printers and cutters.

Founded in 1846, Hengstler belongs since 1995 to the American Danaher Group with its headquarter in Washington. Danaher with an turnover over 6 Bill. US\$ is growing fast and one of the most successful companies worldwide.

As a result of our very specific and diversified know-how and experience, printer system solutions have become our particular strength.

Kiosk systems, automatic ticket dispensers, as well as applications in the fields of banking, industry and commerce, use needle (impact) printers and thermal printers supplied by HENGSTLER. Print widths range from 2 - 8.5 inches and paper weights from 55 to 280 g/m². The printer program is supported by a range of useful accessories, such as winding/retracting units and cutters.

Our components and systems solutions are focused on quality, reliability and safety, added by a high level of user convenience and service-friendliness: from exchanging paper rolls to obtaining and handling the right types of ink ribbon cartridges. Another extra: everything is maintenance-free.

You need solutions for tomorrow's printer technology - talk to us.

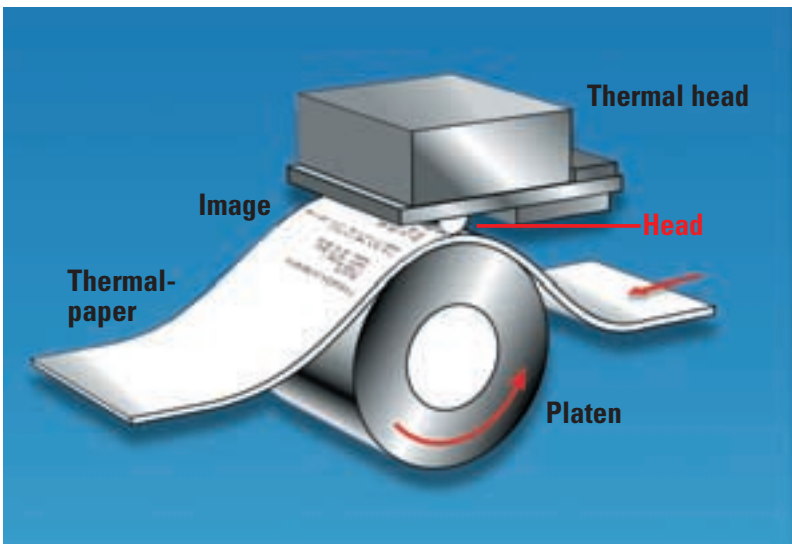
Hengstler offers one of the largest ranges of direct thermal print mechanisms and dedicated solutions. For many applications in key market segments like banking, information kiosks, transportation. On the following pages you will find some examples of configurations and solutions, which are not exhaustive because the various print mechanisms, paper handling modules and chassis allow the creation of many customized variants.



APPLICATIONS

- **Banking (e.g. receipt, journal and statement printing)**
- **Information Kiosks (e.g. in A4/US letter format)**
- **Transportation (e.g. heavy tickets up to 280 g/m²)**
- **Kiosk (e.g. receipt printing at 220 mm/sec)**
- **Gas dispensers**





The fundamentals of direct thermal printing

■ THE IMAGING PROCESS

In the direct thermal printing a black and white image is created through the direct transfer of heat (thermal energy) to color forming elements contained within the paper. Bi-color thermal image is also possible. Therefore additional coating layers are necessary. The degree to which these color elements (leuco dyes, developers) react is precisely controlled by special melting point regulators. In this way various mono-color shades can be created according to the amount of energy transferred.

A thermal head in the thermal printer transfers the required amount of heat to the thermal paper. A thermal head consists of a multitude of miniature heating elements distributed along its printing width. Each heating element is electronically controlled to deliver the right amount of energy to the right place for the right amount of time. The individual dots thus created, together form the final image – text, graphs, barcodes, etc. A platen roll ensures contact of the thermal head and thermal paper ensuring optimum printing quality.

Source: Kanzan Spezialpapiere GmbH

■ ADVANTAGES:

- **very high reliability**
- **small, compact printing unit**
- **easy handling in all applications**
- **few moving parts and only one consumable (no toner, inks, ribbons, etc.)**
- **low maintenance costs**
- **low noise because non-impact printing**
- **high speed**
- **high functionality under different environmental conditions**

| Branchen | Application | Procuets | Page |
|-----------------------|------------------------|-----------------|-------------|
| Oil & Gas | Receipts | C-56 | 6 |
| | | PIXI II | 7 |
| Industry | Receipts | C-56 | 6 |
| | | PIXI II | 7 |
| | | PIXXO | 8 |
| Retail | reverse wending | C-56 | 6 |
| | | PIXI II | 7 |
| Transportation | Infokiosk | C-56 | 6 |
| | | Prima* | 9 |
| | | Printo* | 10 |
| | | PIXI II | 7 |
| | | PIXXO | 8 |
| | | TPM 200 | 17-20 |
| | Mobile/Stationary | Printo* | 16 |
| | Ticketing | TPM 80 | 14,15,17 |
| | Mobile/Staionary | C-56 | 6 |
| | Receipt | PIXI II | 7 |
| | | PIXXO | 8 |
| | | TPM 80 | 14,15 |
| | | TPM 80 | 16 |
| | Parking ticket | Printo* | 16 |
| | | TPM 80 | 17 |
| | Parking receipt | C-56 | 6 |
| | | PIXI II | 7 |
| | | PIXXO | 8 |
| | boarding pass | TPM 80 | 21 |
| | Banking | Receipt (ATM) | Prima* |
| Printo* | | | 10 |
| PIXI II | | | 7 |
| Journal (ATM) | | Prima* | 12 |
| | | Printo* | 12,13 |
| | | PIXI II | 11 |
| Statement | | TPM 200 | 20 |
| Others | cinema tickets | Printo* | 16 |
| | | TPM 80 | 14 |
| | entrance card | Printo* | 16 |
| | | TPM 80 | 14 |
| | receipts/ documents | TPM 100 | 22 |
| | | TPM 150 | 23 |

*also as impact printer available



Thermal Receipt Printer C-56



■ TECHNICAL DATA

Print mechanism

| | |
|----------------|--|
| Paper width | 58 - 60 mm |
| Print width | 56 mm |
| Resolution | 203 dpi = 8 dots/mm |
| Print speed | up to 220 mm/sec |
| Paper weight | 55 - 65 g/m ² |
| Paper capacity | 100 mm (4 inches) roll diameter |
| Cutter | Patented tear bar design, vandal resistant |

Controller

| | |
|----------------|--|
| Interface | USB 1.1/RS 232 |
| Barcodes | UPC-A, UPC-E, EAN-13, EAN-8, Code 39, Interleaved 2 of 5, Code 128, Codabar (internally generated) |
| Graphic Driver | Windows 98/NT/2000/XP/Linux |
| Print buffer | internal chip 16 KB, 4 MB on board |

Complete unit

| | |
|-------------------|----------------------------|
| Operating voltage | 24 DC ± 5% |
| Power consumption | 3 A max. |
| Temperature range | -30°C to +70°C (operating) |

Service life

| | |
|--------------|---------------------|
| Printer | 100 km of paper |
| Tear off bar | min. 1,000,000 cuts |

■ FIELDS OF APPLICATION

Kiosks, ATMs, Gas Pumps, Reverse Vending Systems



PIXI II Thermal Receipt Printer

TECHNICAL DATA

Print mechanism

| | |
|----------------|-------------------------------------|
| Paper width | 58/82.5 mm |
| Print width | 56/80 mm |
| Resolution | 203 dpi = 8 dots/mm |
| Print speed | 60 mm/sec |
| Paper weight | 60 - 100 g/m ² |
| Paper capacity | 100 m for 60 g/m ² paper |
| Cutter | Full cut and partial cut |

Controller

| | |
|---------------|---------------------------------------|
| Interface | Serial RS 232 and parallel Centronics |
| Print buffer | 32 KB |
| Character set | IBM - character set 2, in four sizes |
| Emulation | Partially similar to EPSON LQ 850 |
| Drivers | Windows 95, 98, 2000, NT 4.0 |

Complete unit

| | |
|-------------------|-----------------|
| Operating voltage | 24 VDC \pm 5% |
| Power consumption | 2 A |

Service life

| | |
|---------|---|
| Printer | up to 50 km paper length at a density of 25% |
| Cutter | 1 million cuts |

Options

| | |
|----------------|---|
| Paper capacity | With external paper holder (provided by customer). Paper roll length up to 500 m at 60 g/m ² |
|----------------|---|

FIELDS OF APPLICATION

Kiosk terminal, ATMs, parking systems



PIXXO Thermal Receipt Printer

TECHNICAL DATA

Print mechanism

| | |
|----------------|-------------------------------------|
| Paper width | 60/82.5/114 mm |
| Print width | 56/80/104 mm |
| Resolution | 203 dpi = 8 dots/mm |
| Print speed | 100 mm/sec |
| Paper weight | 80 - 120 g/m ² |
| Paper capacity | 230 m for 80 g/m ² paper |
| Cutter | Full cut and partial cut |

Controller

| | |
|--------------|---|
| Interface | Parallel Centronics bi-directional |
| Print buffer | 64 KB |
| Emulation | GDI - Graphics Device Interface |
| Control | In graphics mode only Windows drivers 95/98/2000/NT 4.0 |

Complete unit

| | |
|-------------------|-------------------------------|
| Operating voltage | 24 VDC ± 5% |
| Power consumption | 3.5 A, max. 10 A (short-term) |

Service life

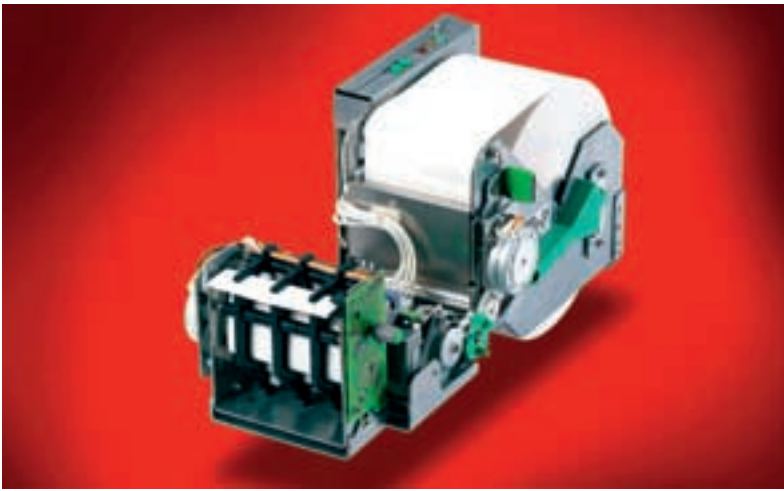
| | |
|---------|---|
| Printer | up to 100 km paper length at a density of 25% |
| Cutter | 1 million cuts |

Options

| | |
|----------------|--|
| Paper capacity | Vertical, horizontal, vertical to horizontal |
|----------------|--|

FIELDS OF APPLICATION

Kiosk terminals, ATMs, ticket dispensers



PRIMA Thermal Receipt Printer

TECHNICAL DATA

Print mechanism

| | |
|----------------|--|
| Paper width | 80 mm |
| Print width | 76 mm |
| Resolution | 203 dpi = 8 dots/mm |
| Print speed | 50 mm/sec |
| Paper weight | 60 - 90 g/m ² |
| Paper capacity | 180 or 260 mm roll diameter |
| Cutter | Full cut |
| Presenter | Paper buffer of 70-210 mm paper length |

Controller

| | |
|---------------|-------------------------------------|
| Interface | Serial RS 232 |
| Print buffer | 8 KB |
| Character set | IBM - character set 2 in four sizes |

Complete unit

| | |
|-------------------|-------------|
| Operating voltage | 24 VDC ± 5% |
| Power consumption | 2 - 3.5 A |

Service life

| | |
|---------|---|
| Printer | up to 50 km paper length at a density of 12.5% |
| Cutter | 1 million cuts |

FIELDS OF APPLICATION

Kiosk terminals, ATMs



PRINTO Receipt Printer (Dot Matrix Printer)

■ TECHNICAL DATA

Print mechanism

| | |
|-----------------------|---|
| Paper width | 70, 78, 82.5 mm |
| Print width | 65.7 mm for 200 dots |
| Resolution | 0.33 mm horizontal 0.353 mm vertical |
| Print speed | 3.2 lines/s bi-directional |
| Paper weight | 60 - 90 g/m ² |
| Paper capacity | 180 or 260 mm roll diameter |
| Cutter | Full cut |
| Presenter | Paper buffer of 70-210 mm paper length |

Controller

| | |
|----------------------|-----------------------|
| Interface | Serial RS 232 |
| Print buffer | 2 KB |
| Character set | IBM - character set 2 |

Complete unit

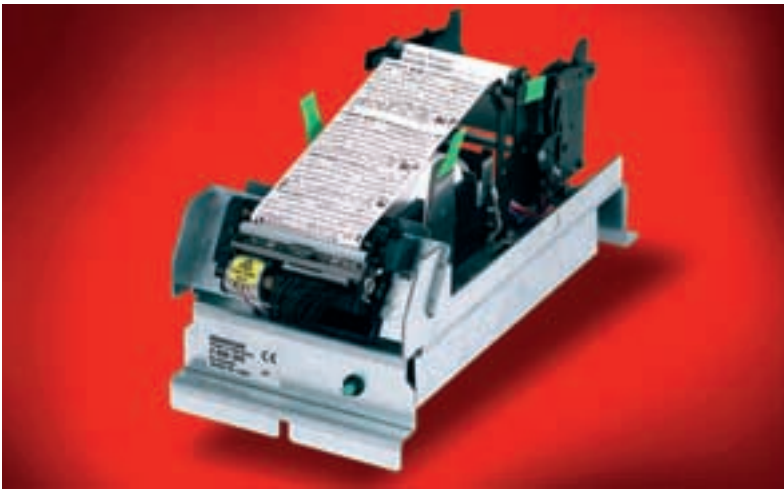
| | |
|--------------------------|---------------|
| Operating voltage | 24 VDC ± 5% |
| Power consumption | 1.8 A - 4.0 A |

Service life

| | |
|----------------|------------------------|
| Printer | 200 million characters |
| Cutter | 1 million cuts |

■ FIELDS OF APPLICATION

Kiosk terminals, ATMs



PIXI II Thermal Journal Printer

TECHNICAL DATA

Print mechanism

| | |
|----------------|------------------------------------|
| Paper width | 58 mm |
| Print width | 56 mm |
| Resolution | 203 dpi = 8 dots/mm |
| Print speed | 60 mm/sec |
| Paper weight | 60 - 100 g/m ² |
| Paper capacity | 40 m for 60 g/m ² paper |
| Winder | Integrated functional unit |

Controller

| | |
|---------------|---------------------------------------|
| Interface | Serial RS 232 and parallel Centronics |
| Print buffer | 32 KB |
| Character set | IBM - character set 2 in four sizes |
| Emulation | Partially similar to EPSON LQ 850 |

Complete unit

| | |
|-------------------|-----------------|
| Operating voltage | 24 VDC \pm 5% |
| Power consumption | 2 A |

Service life

| | |
|---------|---|
| Printer | up to 50 km paper length at a density of 25% |
|---------|---|

FIELDS OF APPLICATION

Kiosk terminals, ATMs



PRIMA Thermal Journal Printer

■ TECHNICAL DATA

Print mechanism

| | |
|----------------|---------------------------------------|
| Paper width | 76.2 mm |
| Print width | 72 mm |
| Resolution | 203 dpi = 8 dots/mm |
| Print speed | 50 mm/sec |
| Paper weight | 55 - 78 g/m ² |
| Paper capacity | Up to 80 mm roll diameter |
| Winder | Integrated functional unit, motorized |

Controller

| | |
|---------------|--------------------------------------|
| Interface | Serial RS 232 |
| Character set | Downloadable |
| Emulation | GDI (corresponds to ND 71-Emulation) |

Complete unit

| | |
|-------------------|-------------|
| Operating voltage | 24 VDC ± 5% |
| Power consumption | 2.1 A |

Service life

| | |
|---------|---|
| Printer | up to 50 km paper length at a density of 12.5% |
|---------|---|

■ FIELDS OF APPLICATION

Automatic cash registers, ATMs, Transaction printing



PRINTO Journal Printer (Dot Matrix Printer)

TECHNICAL DATA

Print mechanism

| | |
|----------------|---|
| Print Head | 9 pins |
| Paper width | 76.2 mm |
| Print width | 65.7 mm |
| Resolution | 0.33 mm horizontal 0.353 mm vertical |
| Print speed | 180 cps |
| Paper weight | 55 - 78 g/m ² |
| Paper capacity | 60 m |
| Winder | Integrated functional unit, motorized |

Controller

| | |
|---------------|-------------------------|
| Interface | Serial RS 232 |
| Character set | Downloadable |
| Emulation | Similar to Epson LQ 850 |

Complete unit

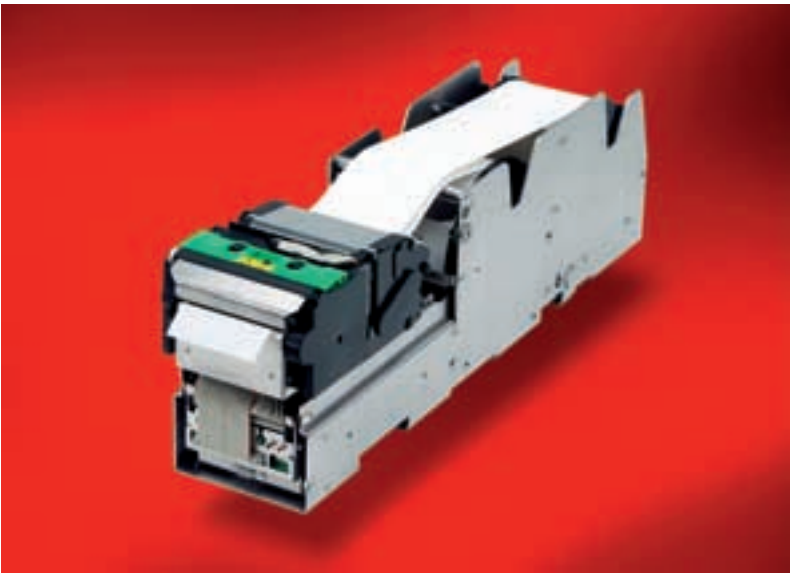
| | |
|-------------------|-----------------|
| Operating voltage | 24 VDC \pm 5% |
| Power consumption | 1.8 A, max. 4 A |

Service life

| | |
|---------|------------------------|
| Printer | 100 million characters |
|---------|------------------------|

FIELDS OF APPLICATION

Automatic cash registers; ATMs; transaction printing



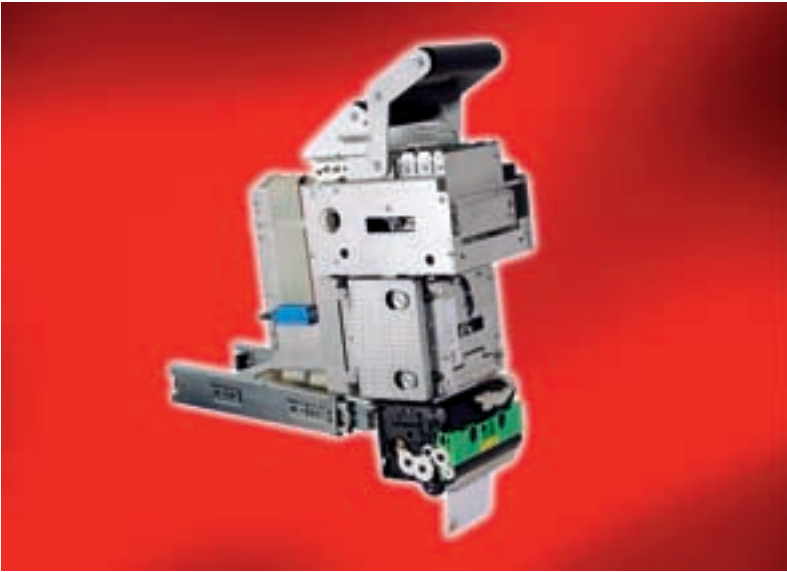
TPM 80 for stationary and mobile ticket dispensers

- TPM 80 Thermal Printer with integrated cutter and dual feed module
- Print speed up to 100 mm/sec
- Compact Design for mobile usage
- Barcode Scanner (optional)
- Minimum ticket length 20 mm
- Control of two paper rolls (in horizontal and vertical position)
- Paper Management for paper roll up to 150 mm diameter

TPM 80 for stationary ticket dispensers

- TPM 80 Thermal Printer with integrated cutter and dual feed module
- Barcode Scanner (optional)
- Print speed up to 100 mm per second
- Control of two rolls of paper (in vertical position)
- Minimum ticket length 20 mm
- Paper Management for two large paper rolls up to 300 mm diameter





TPM 80 with unique triple paper feed unit and with integrated cutter

TECHNICAL DATA

| | |
|----------------------------------|--|
| Triple Feeder | Three independent paper paths: two large ticket rolls, and one for receipt printing Automatic paper path selection, park position |
| Dimensions of the Tickets | Width: -Adjustable by stepper motor -Default width 30, 54, 82.5 mm Length: -Adjustable, minimum 30 mm |
| Paper Weight: | 80 to 280g/m ² |

OPTIONS

- MC Encoder: Read after Write System
- Track Width: Writing 7.06 mm, Reading 2.05 mm
- Magnetic Tracks: ISO Track 2/ISO Track 3
- Edmonson Format: Centered Track Position
- Coding density: 30 bpi to 210 bpi

APPLICATIONS

- Ticketing with magnetic stripe processing



PRINTO Ticket Printer (Dot Matrix Printer) with integrated cutter

■ TECHNICAL DATA

Print mechanism

| | |
|--------------------------|---|
| Paper width | Adjustable from 50 to 90 mm |
| Print width | Max. 84.4 mm |
| Resolution | 0.33 mm horizontal 0.353 mm vertical |
| Print speed | 3.2 lines/s bi-directional |
| Paper weight | 60 - 200 g/m ² |
| Paper pre-loading | Provided by customer |
| Cutter | Full cut |

Controller

| | |
|----------------------|-------------------------------------|
| Interface | Serial RS 232 + parallel Centronics |
| Print buffer | 2 KB |
| Character set | IBM - character set 2 |
| Emulation | Partially similar to EPSON FX 80 |

Complete unit

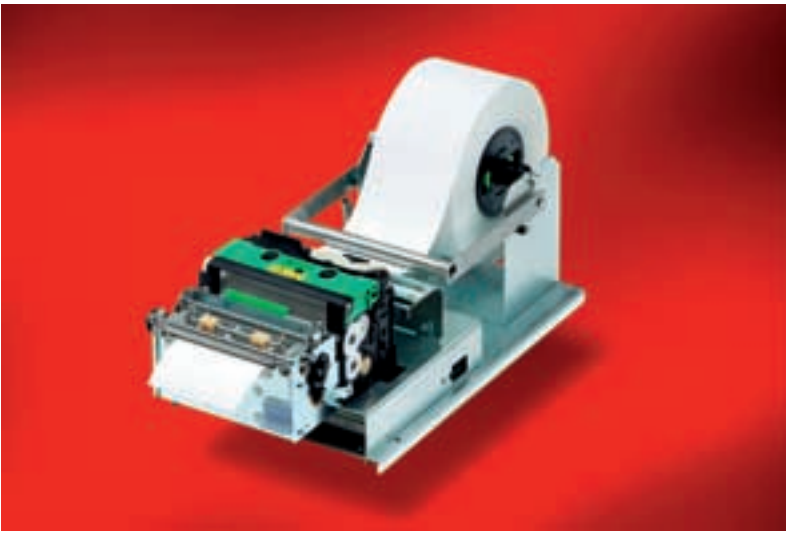
| | |
|--------------------------|-------------|
| Operating voltage | 24 VDC ± 5% |
| Power consumption | Max. 3.5 A |

Service life

| | |
|----------------|------------------------|
| Printer | 100 million characters |
| Cutter | 0.5 million cuts |

■ FIELDS OF APPLICATION

Automatic ticket dispensers for mobile and stationary use;
kiosk terminals, ATMs



TPM 80 with loop presenter on system chassis

- Thermal printer with integrated cutter
- Loop presenter
- Print speed up to 120 mm/sec
- Paper roll up to 250 mm diameter
- Open frame design
- System chassis also suitable for TPM 100



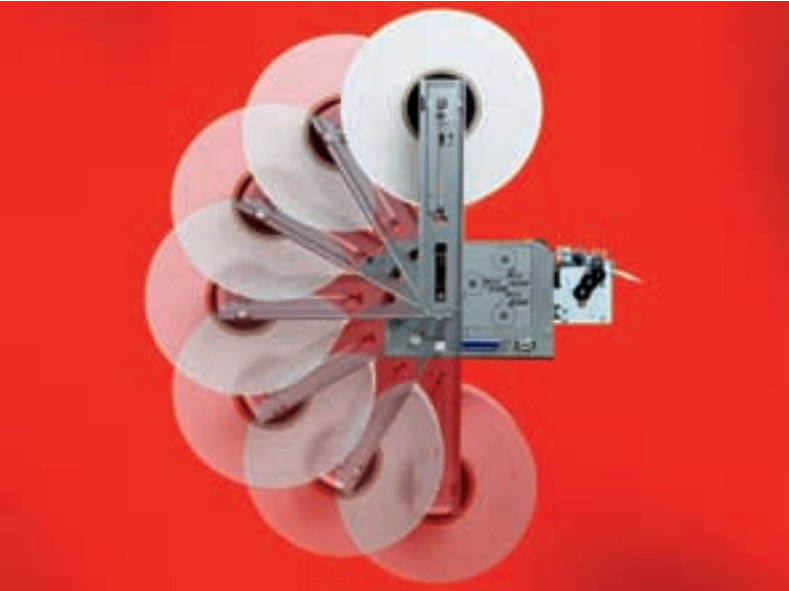
TPM 200 with loop presenter on system chassis

- Thermal print module with integrated cutter and loop presenter
- Print speed up to 50 mm/sec
- For paper roll up to 250 mm diameter
- Open frame design
- System chassis also suitable for TPM 150



TPM 200 with loop presenter with retract, universal paper roll holder, compact chassis

- Thermal print module (216 mm print width) with integrated cutter
- Loop presenter with retract
- Compact chassis with paper tray for reliable paper feed
- Controller board



Universal paper roll holder

- Easy paper load
- Adjustable paper roll within an angle of 180°, in steps of 30°
- Large and heavy paper rolls up to 250 mm outer diameter
- Paper low sensor

Ideally suited for kiosk applications where compactness, flexible paper positioning, and large paper stock are key requirements.



TPM 200HR with dual feed and presenter

- Thermal printer with integrated cutter and 300 dpi print resolution
- Dual feeder for large fanfold paper stock
- Paper width 140 - 216 mm
- Paper weight 65 to 120 g/m²
- Presenter



TPM 200HR with dual feed, presenter with retract and shutter

- Thermal printer with integrated cutter and 300 dpi print resolution
- Dual feeder for large fanfold paper stock
- Paper width 140 - 216 mm
- Paper weight 65 to 120 g/m²
- Presenter with retract
- Shutter



TPM 200 with bundler and document retract

- Thermal print mechanism with 203 dpi resolution and integrated cutter
- Bundling unit for up to 10 sheets; min.- max. sheet length 99 - 300 mm
- Single/dual feeder for paper rolls up to 300 mm diameter and fanfold paper
- Paper width 140 - 216 mm
- Paper weight 65 to 120 g/m²
- Adjustable paper low sensor, and paper end sensor
- Horizontal paper output



TPM 200HR with bundler, shutter and document retract

- Thermal print mechanism with 300 dpi resolution and integrated cutter
- Bundling unit for up to 10 sheets; min.- max. sheet length 99 - 300 mm
- Single/dual feeder for paper rolls up to 300 mm diameter and fanfold paper
- Paper width 140 - 216 mm
- Paper weight 65 to 120 g/m²
- Adjustable paper low sensor, and paper end sensor
- Vertical paper output slot with shutter



TPM 80 with integrated cutter

■ TECHNICAL DATA

| | |
|----------------------------|---|
| Print width | 80 mm |
| Resolution | 203 dpi |
| Print speed | Up to 120 mm/sec. |
| Head lifetime | Electrical: 100 million dot pulses Abrasion: 100 km paper length |
| Printer lifetime | 50.000 h |
| Paper specification | Paper weight: 80 to 280 g/m ² Paper width: 86 mm |
| Cutter lifetime | 1 million cuts minimum with 80 g/m ² paper |
| Environment | Operation: Temperature: +5 °C to +45 °C Humidity: 20% to 80% |
| Power | +24 VDC, ± 10 % |
| Graphics | Full graphics 640 dots per line |
| Dimensions | W 141 x H 101.5 x D 93 mm |

■ OPTIONS

Loop presenter, dual paper feed, triple paper feed, memory extension, format control

■ APPLICATIONS

- Ticketing
- Coupons
- Receipts



TPM 100 with integrated cutter

■ TECHNICAL DATA

| | |
|----------------------------|--|
| Print width | 104 mm |
| Resolution | 203 dpi |
| Print speed | Up to 100 mm/sec. |
| Head lifetime | Electrical: 50 million dot pulses Abrasion: 50 km paper length |
| Printer lifetime | 50.000 h |
| Paper specification | Paper weight: 80 to 120 g/m ² Paper width: 112 mm |
| Cutter lifetime | 1 million cuts minimum with 80 g/m ² paper |
| Environment | Operation: Temperature: +5 °C to +45 °C Humidity: 20% to 80% |
| Power | +24 VDC, ± 10 % |
| Graphics | Full graphics 832 dots per line |
| Dimensions | W 170 x H 101.5 x D 93 mm |

■ OPTIONS

Loop presenter, dual paper feed, memory extension, format control

■ APPLICATIONS

- Ticketing
- Coupons
- Receipts



TPM 150 with integrated cutter

■ TECHNICAL DATA

| | |
|----------------------------|--|
| Print width | 144 mm |
| Resolution | 203 dpi |
| Print speed | Up to 100 mm/sec. |
| Head lifetime | Electrical: 50 million dot pulses, Abrasion: 50 km paper length |
| Printer lifetime | 50.000 h |
| Paper specification | Paper weight: 80 to 120 g/m ² Paper width: 156 mm |
| Cutter lifetime | 1 million cuts minimum with 80 g/m ² paper |
| Environment | Operation: Temperature: +5 °C to +45 °C Humidity: 20% to 80% |
| Power | +24 VDC, ± 10 % |
| Graphics | Full graphics, 1152 dots per Line |
| Dimensions | W 287 x H 103.5 x D 101.5 mm |

■ OPTIONS

Loop presenter, dual paper feed, memory extension, format control

■ APPLICATIONS

- Information Kiosks
- Banking



TPM 200/200HR with integrated cutter

■ TECHNICAL DATA

| | |
|----------------------------|---|
| Print width | 216 mm |
| Resolution | 203 dpi or 300 dpi |
| Print speed | Up to 60 mm/sec. |
| Head lifetime | Electrical: up to 100 million dot pulses Abrasion: up to 100 km paper length |
| Printer lifetime | 50.000 h |
| Paper specification | Paper weight: 80 to 120 g/m ² Paper width: 220 mm |
| Cutter lifetime | 1 million cuts with 80 g/m ² paper |
| Environment | Operation: Temperature: +5 °C to +45 °C Humidity: 20% to 80% |
| Power | +24 VDC, ± 10 % |
| Graphics | Full graphics 1728 or 2592 dots per line |
| Dimensions | W 287 x H 103.5 x D 101.5 mm |

■ OPTIONS

Loop presenter with or without retract, bundler for up to 10 sheets, dual paper feed, memory extension, format control

■ APPLICATIONS

- Ticketing
- Information Kiosks
- Transportation
- Banking

Technical Data



685.0 CUTTER G

| | |
|--------------------------|----------------------|
| Paper width | 64 mm to 120 mm |
| Max. paper weight | 300 g/m ² |
| Operating voltage | 12 V DC / 24 V DC |
| Type of cut | full cut |
| Cutting speed | 800 ms |



685.56 CUTTER D

| | |
|--------------------------|----------------------|
| Paper width | 60 mm to 500 mm |
| Max. paper weight | 400 g/m ² |
| Operating voltage | 24 V DC |
| Type of cut | full cut |
| Cutting speed | 800 ms |

Technical Data



685.70 CUTTER F

| | |
|--------------------------|--------------------------|
| Paper width | 63 mm, 90 mm, 118 mm |
| Max. paper weight | 120 g/m ² |
| Operating voltage | 12 V DC / 24 V DC |
| Type of cut | full cut and partial cut |
| Cutting speed | 400 ms |



685.72 CUTTER F

| | |
|--------------------------|----------------------|
| Paper width | 63 mm, 90 mm, 118 mm |
| Max. paper weight | 170 g/m ² |
| Operating voltage | 12 V DC / 24 V DC |
| Type of cut | full cut |
| Cutting speed | 400 ms |

Technical Data



685.2 CUTTER H (Successor for Cutter C 685.5)

| | |
|--------------------------|-------------------------|
| Paper width | 64 mm to 222 mm |
| Max. paper weight | 200 g/m ² |
| Operating voltage | 12 V DC / 24 V DC |
| Type of cut | full cut or partial cut |
| Cutting speed | 800 ms |



685.74 CUTTER L (Linerless)

| | |
|--------------------------|----------------------|
| Paper width | 63 mm, 90 mm, 118 mm |
| Max. paper weight | 98 g/m ² |
| Operating voltage | 12 V DC / 24 V DC |
| Type of cut | full cut |
| Cutting speed | 400 ms |

YOUR THERMAL TECHNOLOGY PARTNER

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