

Printer

**HENGSTLER**



## 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 to the American Danaher Group with its headquarter in Washington since 1995. 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 to 8.5 inches and paper weights from 55 to 280 g/m<sup>2</sup>. 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/m<sup>2</sup>)
- **Kiosk** (e.g. receipt printing at 220 mm/sec)





# The fundamentals of direct thermal printing

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**

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# Receipt printer



**THERMAL RECEIPT PRINTER C-56**

**Technical data**

**PRINT MECHANISM**

<b>Paper width</b>	58 - 60 mm
<b>Print width</b>	56 mm
<b>Resolution</b>	203 dpi = 8 dots/mm
<b>Print speed</b>	up to 220 mm/sec
<b>Paper weight</b>	55 - 65 g/m <sup>2</sup>
<b>Paper capacity</b>	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 VDC +/- 5%

**Power consumption** 3 A max.

**Temperature range**  
-30°C to +70°C (operating)

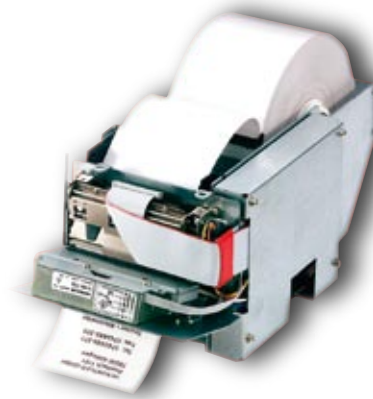
**SERVICE LIFE**

**Printer** 100 km of paper

**Tear off bar** min. 1 million cuts

**FIELDS OF APPLICATION**

Kiosk terminals, ATMs, Gas Pumps, Reverse Vending Systems



**PIXXO THERMAL RECEIPT PRINTER**

**Technical data**

**PRINT MECHANISM**

<b>Paper width</b>	60/82.5/114 mm
<b>Print width</b>	56/80/104 mm
<b>Resolution</b>	203 dpi = 8 dots/mm
<b>Print speed</b>	100 mm/sec
<b>Paper weight</b>	80 - 120 g/m <sup>2</sup>
<b>Paper capacity</b>	230 mm for 80 g/m <sup>2</sup> 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** 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



**PIXI II THERMAL RECEIPT PRINTER**

**Technical data**

**PRINT MECHANISM**

<b>Paper width</b>	58/82.5 mm
<b>Print width</b>	56/80 mm
<b>Resolution</b>	203 dpi = 8 dots/mm
<b>Print speed</b>	60 mm/sec
<b>Paper weight</b>	60 - 100 g/m <sup>2</sup>
<b>Paper capacity</b>	100 mm for 60 g/m <sup>2</sup> 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 +/- 5%

**Power consumption** 2 A

**SERVICE LIFE**

**Printer** 50 km paper length at a density of 25%

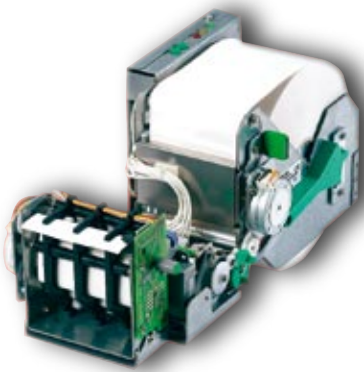
**Cutter** 1 million cuts

**OPTIONS**

**Paper capacity** with external paper holder (provided by customer), paper roll length up to 500 m at 60 g/m<sup>2</sup>

**FIELDS OF APPLICATION**

Kiosk terminals, ATMs, parking systems



## PRIMA THERMAL RECEIPT PRINTER

## PRINTO RECEIPT PRINTER (DOT MATRIX PRINTER)

### Technical data

#### PRINT MECHANISM

<b>Paper width</b>	80 mm
<b>Print width</b>	76 mm
<b>Resolution</b>	203 dpi = 8 dots/mm
<b>Print speed</b>	50 mm/sec
<b>Paper weight</b>	60 - 90 g/m <sup>2</sup>
<b>Paper capacity</b>	180 or 260 mm roll diameter
<b>Cutter</b>	full cut

**Presenter**  
paper buffer of 70 - 210 mm paper length

#### CONTROLLER

<b>Interface</b>	serial RS 232
<b>Print buffer</b>	8 KB
<b>Character set</b>	IBM – character set 2, in 4 sizes

#### COMPLETE UNIT

<b>Operating voltage</b>	24 VDC +/- 5%
<b>Power consumption</b>	2 - 3.5 A

#### SERVICE LIFE

<b>Printer</b>	50 km paper length at a density of 12.5%
<b>Cutter</b>	1 million cuts

#### FIELDS OF APPLICATION

Kiosk terminals, ATMs

### Technical data

#### PRINT MECHANISM

<b>Paper width</b>	70/78/82.5 mm
<b>Print width</b>	65.7 mm for 200 dots
<b>Resolution</b>	0.33 mm horizontal 0.353 mm vertical
<b>Print speed</b>	3.2 lines/sec bi-directional
<b>Paper weight</b>	60 - 90 g/m <sup>2</sup>
<b>Paper capacity</b>	180 or 260 mm roll diameter

**Cutter** full cut  
**Presenter**  
Paper buffer of 70 - 210 mm paper length

#### CONTROLLER

<b>Interface</b>	serial RS 232
<b>Print buffer</b>	2 KB
<b>Character set</b>	IBM – character set 2

#### COMPLETE UNIT

<b>Operating voltage</b>	24 VDC +/- 5%
<b>Power consumption</b>	1.8 - 4 A

#### SERVICE LIFE

<b>Printer</b>	200 million characters
<b>Cutter</b>	1 million cuts

#### FIELDS OF APPLICATION

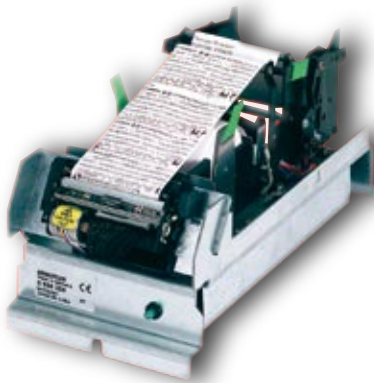
Kiosk terminals, ATMs



# Journal printer







**PIXI II THERMAL JOURNAL PRINTER**

**Technical data**

**PRINT MECHANISM**

<b>Paper width</b>	58 mm
<b>Print width</b>	56 mm
<b>Resolution</b>	203 dpi = 8 dots/mm
<b>Print speed</b>	60 mm/sec
<b>Paper weight</b>	60 - 100 g/m <sup>2</sup>
<b>Paper capacity</b>	40 mm for 60 g/m <sup>2</sup> paper

**Winder**  
integrated functional unit

**CONTROLLER**

<b>Interface</b>	serial RS 232 or parallel Centronics
<b>Print buffer</b>	32 KB
<b>Character set</b>	IBM – character set 2, in 4 sizes
<b>Emulation</b>	partially similar to EPSON LQ 850

**COMPLETE UNIT**

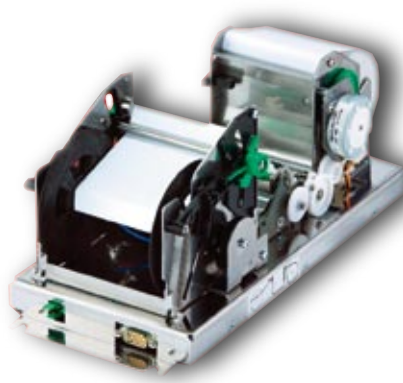
<b>Operating voltage</b>	24 VDC +/- 5%
<b>Power consumption</b>	2 A

**SERVICE LIFE**

**Printer**  
50 km paper length at a density of 25%

**FIELDS OF APPLICATION**

Kiosk terminals, ATMs



**PRIMA THERMAL JOURNAL PRINTER**

**Technical data**

**PRINT MECHANISM**

<b>Paper width</b>	76.2 mm
<b>Print width</b>	72 mm
<b>Resolution</b>	203 dpi = 8 dots/mm
<b>Print speed</b>	50 mm/sec
<b>Paper weight</b>	55 - 78 g/m <sup>2</sup>
<b>Paper capacity</b>	up to 80 mm roll diameter

**Winder**  
integrated functional unit, motorized

**CONTROLLER**

<b>Interface</b>	serial RS 232
<b>Character set</b>	downloadable
<b>Emulation</b>	GDI (corresponds to ND 71-Emulation)

**COMPLETE UNIT**

<b>Operating voltage</b>	24 VDC +/- 5%
<b>Power consumption</b>	2.1 A

**SERVICE LIFE**

**Printer**  
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**

<b>Print Head</b>	9 pins
<b>Paper width</b>	76.2 mm
<b>Print width</b>	65.7 mm
<b>Resolution</b>	0.33 mm horizontal 0.353 mm vertical
<b>Print speed</b>	180 cps
<b>Paper weight</b>	55 - 78 g/m <sup>2</sup>
<b>Paper capacity</b>	60 m

**Winder**  
integrated functional unit, motorized

**CONTROLLER**

<b>Interface</b>	serial RS 232
<b>Character set</b>	downloadable
<b>Emulation</b>	partially similar to EPSON LQ 850

**COMPLETE UNIT**

<b>Operating voltage</b>	24 VDC +/- 5%
<b>Power consumption</b>	1.8 A, max. 4 A

**SERVICE LIFE**

**Printer** 100 million characters

**FIELDS OF APPLICATION**

Automatic cash registers, ATMs, Transaction printing

# Ticket printer



## 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)
- Min. ticket length 20 mm
- Control of two paper rolls (in horizontal and vertical position)
- Paper Management for paper rolls 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/sec
- Control of two paper rolls (in vertical position)
- Min. ticket length 20 mm
- Paper Management for two large paper rolls up to 300 mm diameter

## TPM 80 WITH UNIQUE TRIPLE PAPER FEED UNIT + INTEGRATED CUTTER

### Technical data

#### Triple Feeder

three independent paper paths: two large ticket rolls and one for receipt printing

#### Dimensions of the Tickets

Width: Adjustable by stepper motor  
Default width 30/54/82.5 mm

Length: Adjustable  
min. 30 mm

**Paper Weight** 80 - 280 g/m<sup>2</sup>

### OPTIONS

#### MC Encoder

read and write System

**Track Width** writing 7.06 mm, reading 2.05 mm

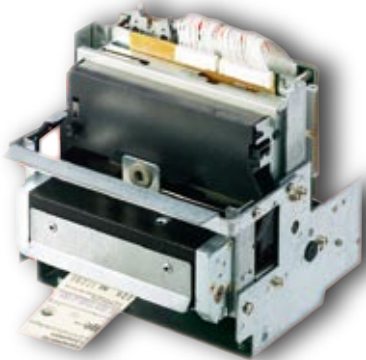
**Magnetic Tracks** ISO Track 2 / ISO Track 3

**Edmonson Format** centered Track Position

**Coding density** 30 bpi to 210 bpi

### ANWENDUNGEN

Ticketing with magnetic stripe processing



## PRINTO TICKET PRINTER (DOT MATRIX PRINTER) WITH INTEGRATED CUTTER

### Technical data

#### PRINT MECHANISM

<b>Paper width</b>	adjustable from 50 to 90 mm
<b>Print width</b>	max. 84.4 mm
<b>Resolution</b>	0.33 mm horizontal 0.353 mm vertical
<b>Print speed</b>	3.2 lines/sec bi-directional
<b>Paper weight</b>	60 - 200 g/m <sup>2</sup>
<b>Paper pre-loading</b>	provided by customer
<b>Cutter</b>	full cut

#### CONTROLLER

<b>Interface</b>	serial RS 232 and parallel Centronics
<b>Print buffer</b>	2 KB
<b>Character set</b>	IBM – character set 2
<b>Emulation</b>	partially similar to EPSON FX 80

#### COMPLETE UNIT

<b>Operating voltage</b>	24 VDC +/- 5%
<b>Power consumption</b>	max. 3.5 A

#### SERVICE LIFE

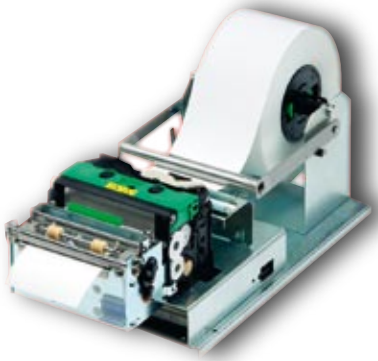
<b>Printer</b>	100 million characters
<b>Cutter</b>	0.5 million cuts

#### FIELDS OF APPLICATION

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

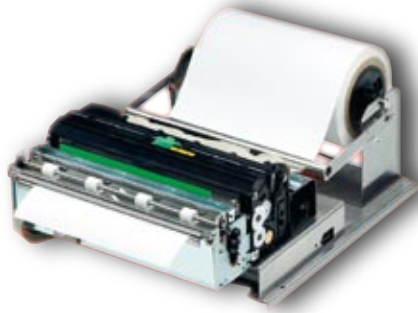


# Kiosk printer



## 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

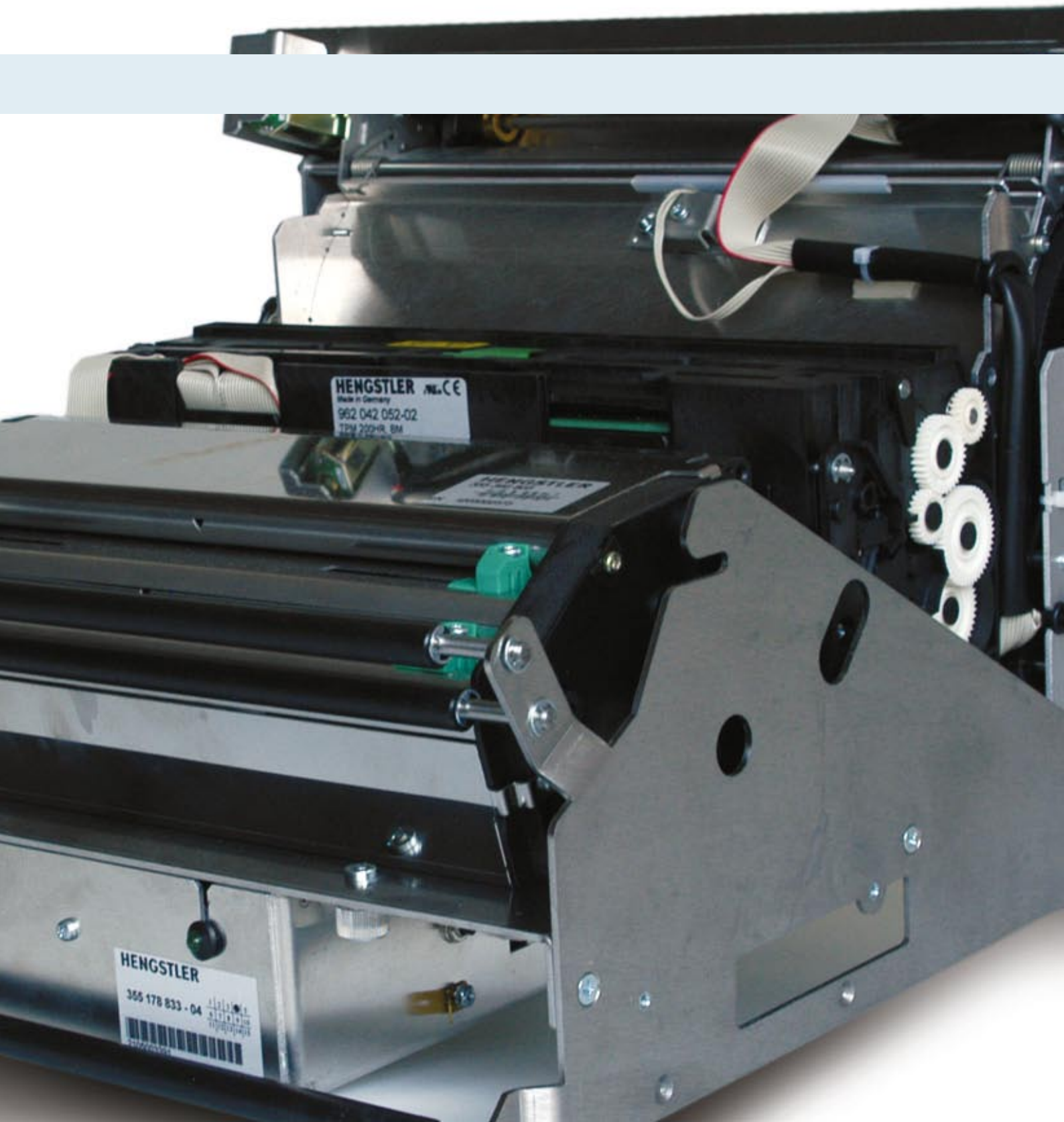
- Thermal print module with integrated cutter and loop presenter
- Print speed up to 50 mm/sec
- For paper roll up to 250 mm diameter
- Open frame design
- System chassis also suitable for TPM 150



## TPM 200HR WITH SINGLE/DUAL FEED, PRESENTER WITH RETRACT ON CHASSIS

- Thermal printer with integrated cutter and 300 dpi print resolution
- Presenter with retract
- Single/dual feeder for large fanfold paper stock
- Paper width 140 - 216 mm
- Paper weight 65 to 120 g/m<sup>2</sup>





# Banking printer

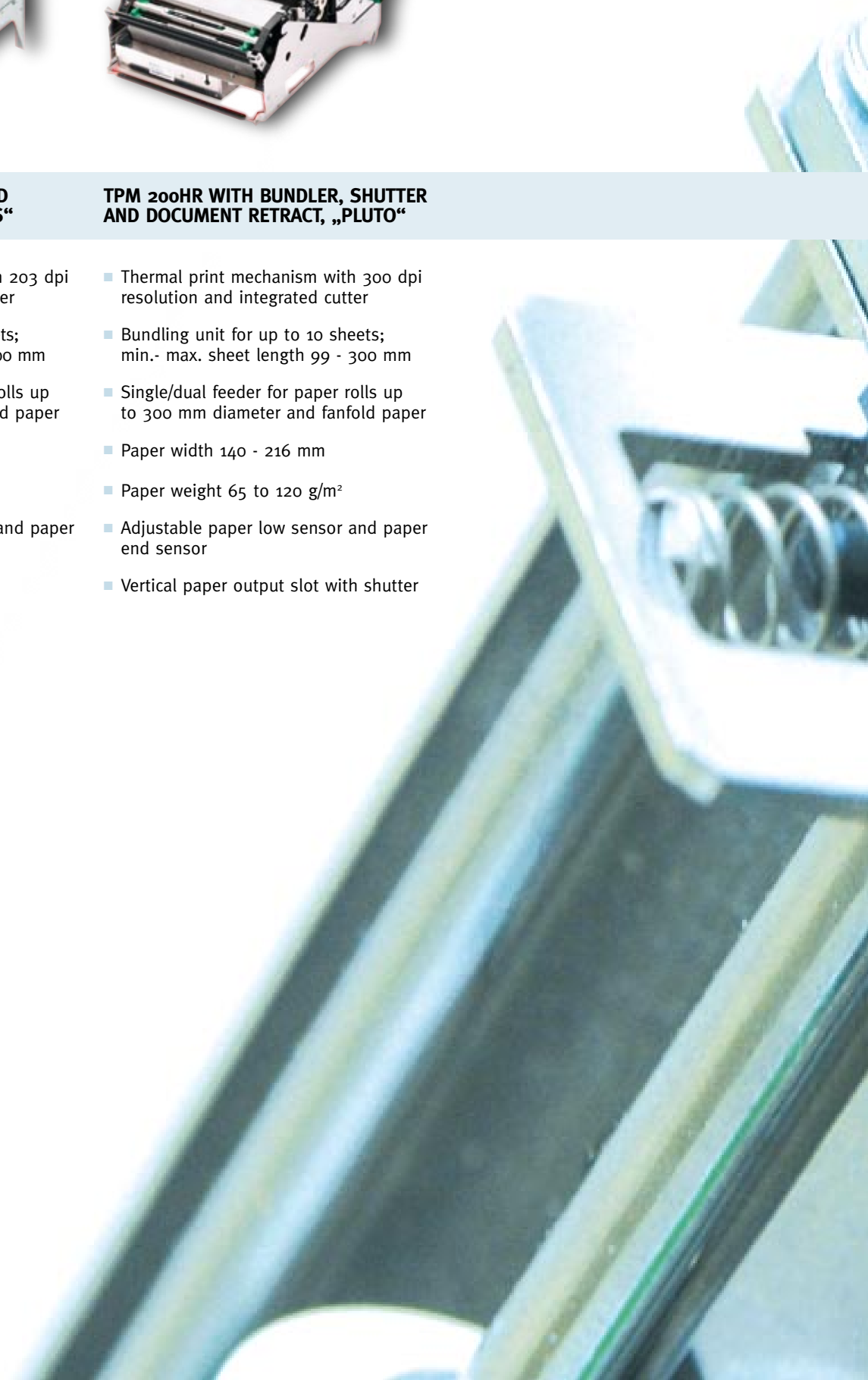


## TPM 200 WITH BUNDLER AND DOCUMENT RETRACT, „METIS“

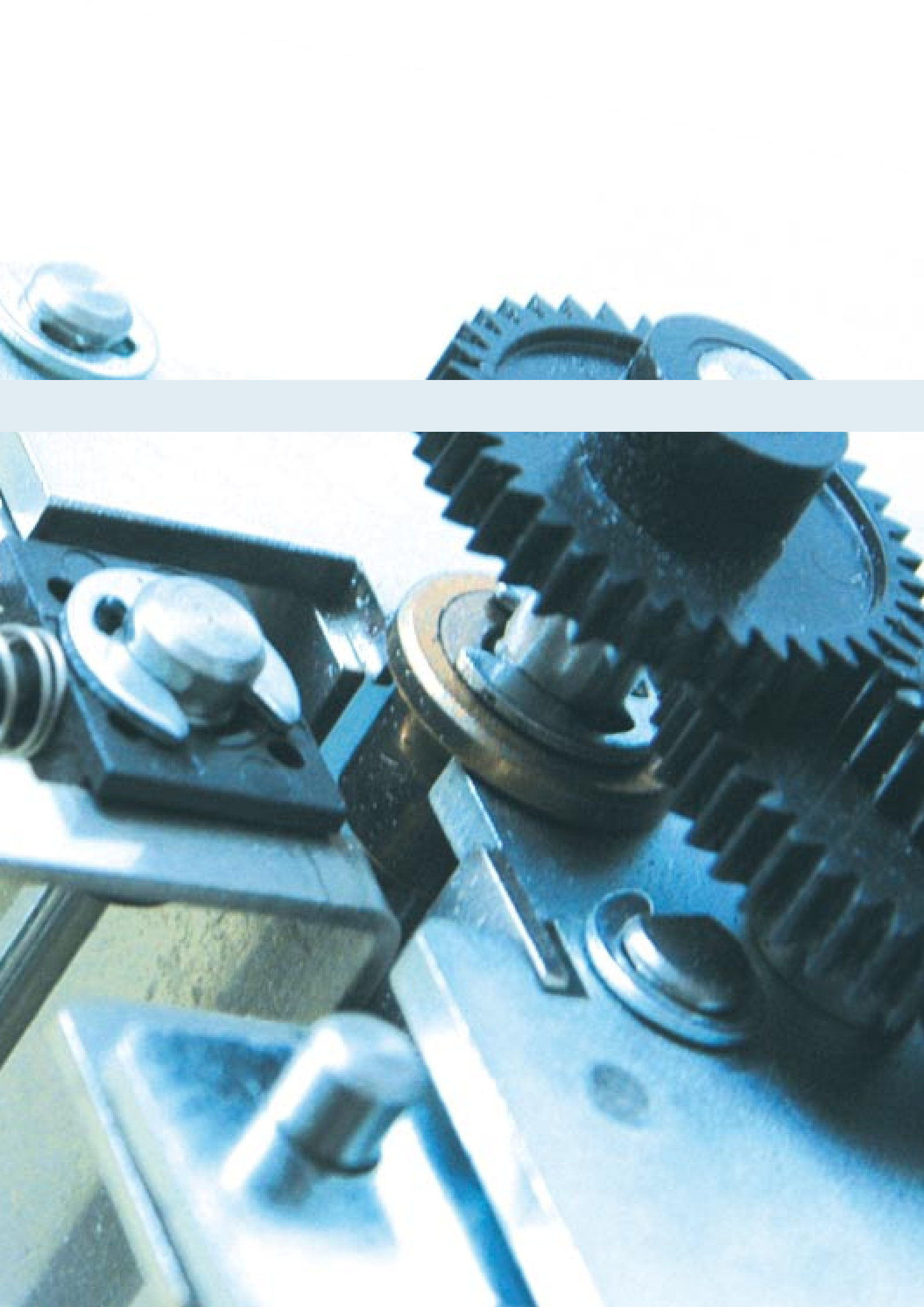
- Thermal print mechanism with 203 dpi resolution and integrated cutter
- Bundling unit for up to 10 sheets; min.- max. sheet length 99 - 300 mm
- Single/dual feeder for paper rolls up to 300 mm diameter or fanfold paper
- Paper width 140 - 216 mm
- Paper weight 65 to 120 g/m<sup>2</sup>
- Adjustable paper low sensor and paper end sensor
- Horizontal paper output

## TPM 200HR WITH BUNDLER, SHUTTER AND DOCUMENT RETRACT, „PLUTO“

- 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/m<sup>2</sup>
- Adjustable paper low sensor and paper end sensor
- Vertical paper output slot with shutter







# Print mechanism



## TPM 80 WITH INTEGRATED CUTTER

### Technical data

<b>Print width</b>	80 mm
<b>Resolution</b>	203 dpi
<b>Print speed</b>	up to 100 mm/sec

**Head lifetime**  
 electrical: 100 million dot pulses  
 abrasion: 100 km paper length

**Printer lifetime** 50.000 h

**Paper specification**  
 paper weight: 80 - 280 g/m<sup>2</sup>  
 paper width: 86 mm

**Cutter lifetime**  
 1 million cuts min. with 80 g/m<sup>2</sup> paper

**Environment** operation  
 temperature: +5 °C to +45 °C  
 humidity: 20% - 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

### FIELDS OF APPLICATION

Ticketing, Coupons, Receipts

## TPM 100 WITH INTEGRATED CUTTER

### Technical data

<b>Print width</b>	104 mm
<b>Resolution</b>	203 dpi
<b>Print speed</b>	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 - 120 g/m<sup>2</sup>  
 paper width: 112 mm

**Cutter lifetime**  
 1 million cuts min. with 80 g/m<sup>2</sup> 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

### FIELDS OF APPLICATION

Ticketing, Coupons, Receipts

## TPM 150 WITH INTEGRATED CUTTER

### Technical data

<b>Print width</b>	144 mm
<b>Resolution</b>	203 dpi
<b>Print speed</b>	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 - 120 g/m<sup>2</sup>  
 paper width: 156 mm

**Cutter lifetime**  
 1 million cuts min. with 80 g/m<sup>2</sup> 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

### FIELDS OF APPLICATION

Information Kiosks, Banking



## TPM 200/200HR WITH INTEGRATED CUTTER

### Technical data

<b>Print width</b>	216 mm
<b>Resolution</b>	203 dpi or 300 dpi
<b>Print speed</b>	up to 60 mm/sec
<b>Head lifetime</b>	electrical: 100 million dot pulses abrasion: 100 km paper length
<b>Printer lifetime</b>	50.000 h
<b>Paper specification</b>	paper weight: 80 - 120 g/m <sup>2</sup> paper width: 220 mm
<b>Cutter lifetime</b>	1 million cuts min. with 80 g/m <sup>2</sup> paper
<b>Environment</b>	Operation Temperature: +5 °C to +45 °C Humidity: 20% to 80%
<b>Power</b>	24 VDC +/- 10%
<b>Graphics</b>	full graphics 1728 or 2592 dots per line
<b>Dimensions</b>	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

### FIELDS OF APPLICATION

Ticketing, Information Kiosks, Transportation, Banking



# Cutters



**685.0 CUTTER G**

<b>Paper width</b>	64 mm - 120 mm
<b>Max. paper weight</b>	300 g/m <sup>2</sup>
<b>Operating voltage</b>	DC 12 V / DC 24 V
<b>Type of cut</b>	full cut
<b>Cutting speed</b>	800 ms
<b>Number of cuts</b>	1 million cuts with 200 g/m <sup>2</sup> paper

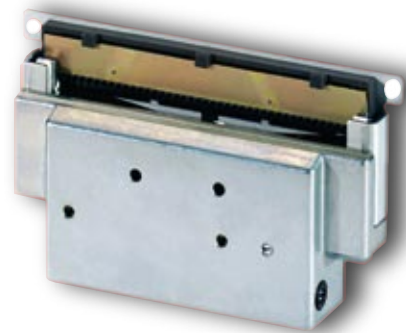
**685.56 CUTTER D**

<b>Paper width</b>	60 mm - 500 mm
<b>Max. paper weight</b>	400 g/m <sup>2</sup>
<b>Operating voltage</b>	DC 24 V
<b>Type of cut</b>	full cut
<b>Cutting speed</b>	800 ms
<b>Number of cuts</b>	0.5 million cuts with 250 g/m <sup>2</sup> paper

**685.70 CUTTER F**

<b>Paper width</b>	63 mm/90 mm/118 mm
<b>Max. paper weight</b>	120 g/m <sup>2</sup>
<b>Operating voltage</b>	DC 12 V / DC 24 V
<b>Type of cut</b>	full cut and partial cut
<b>Cutting speed</b>	400 ms
<b>Number of cuts</b>	1 million cuts with 120 g/m <sup>2</sup> paper





### 685.72 CUTTER F

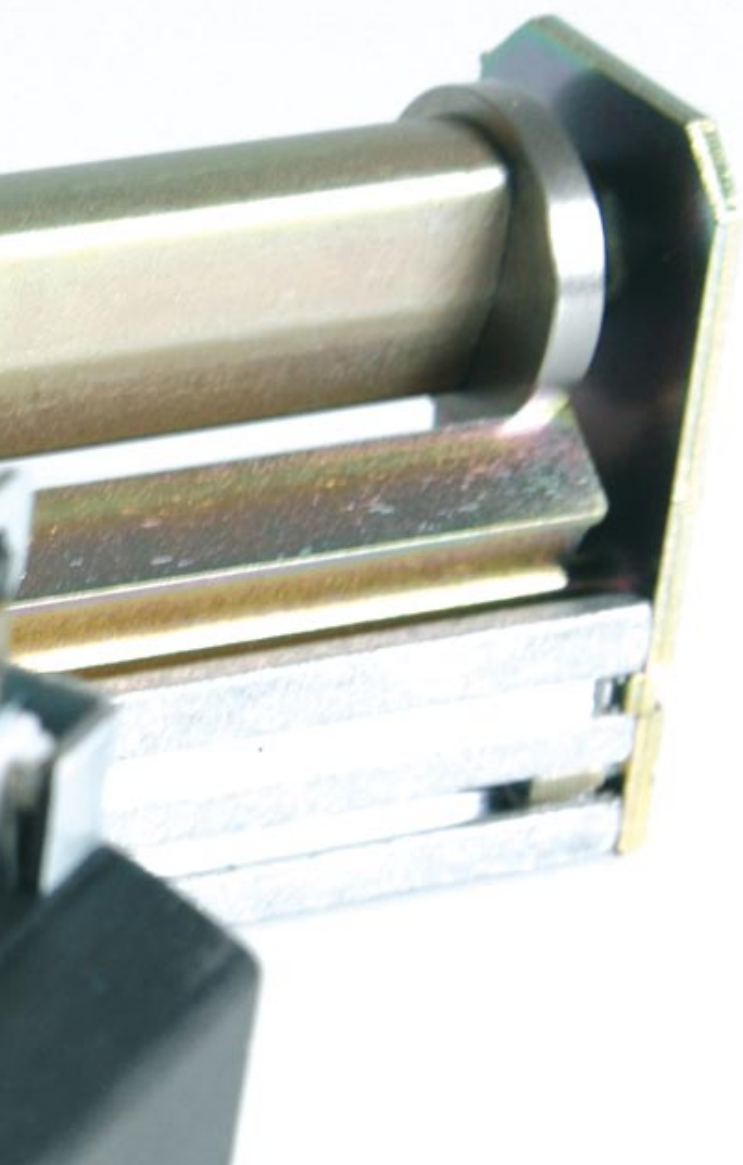
<b>Paper width</b>	63 mm/90 mm/118 mm
<b>Max. paper weight</b>	170 g/m <sup>2</sup>
<b>Operating voltage</b>	DC 12 V / DC 24 V
<b>Type of cut</b>	full cut
<b>Cutting speed</b>	400 ms
<b>Number of cuts</b>	0.5 million cuts with 170 g/m <sup>2</sup> paper

### 685.2 CUTTER H (SUCCESSOR FOR CUTTER C 685.5)

<b>Paper width</b>	63 mm - 222 mm
<b>Max. paper weight</b>	200 g/m <sup>2</sup>
<b>Operating voltage</b>	DC 12 V / DC 24 V
<b>Type of cut</b>	full cut and partial cut
<b>Cutting speed</b>	800 ms
<b>Number of cuts</b>	0.5 million cuts with 200 g/m <sup>2</sup> paper, paper width 64 mm

### 685.74 CUTTER L (LINERLESS)

<b>Paper width</b>	63 mm/90 mm/118 mm
<b>Max. paper weight</b>	98 g/m <sup>2</sup>
<b>Operating voltage</b>	DC 12 V / DC 24 V
<b>Type of cut</b>	full cut
<b>Cutting speed</b>	400 ms
<b>Number of cuts</b>	1 million cuts with 100 g/m <sup>2</sup> paper





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