

BioSoft
Electronics

ticket printer solutions

TEP Series



TECHNICAL PRESENTATION V1.2.20

Stig ABRAHAMSON, TECHNICAL
SUPPORT BUSINESS AREA: TEP-SERIES

WEB-SITE: www.biosoft.se



TEP5000 Technical presentation

- **Product overview**
- Technology
- System integration
- Support

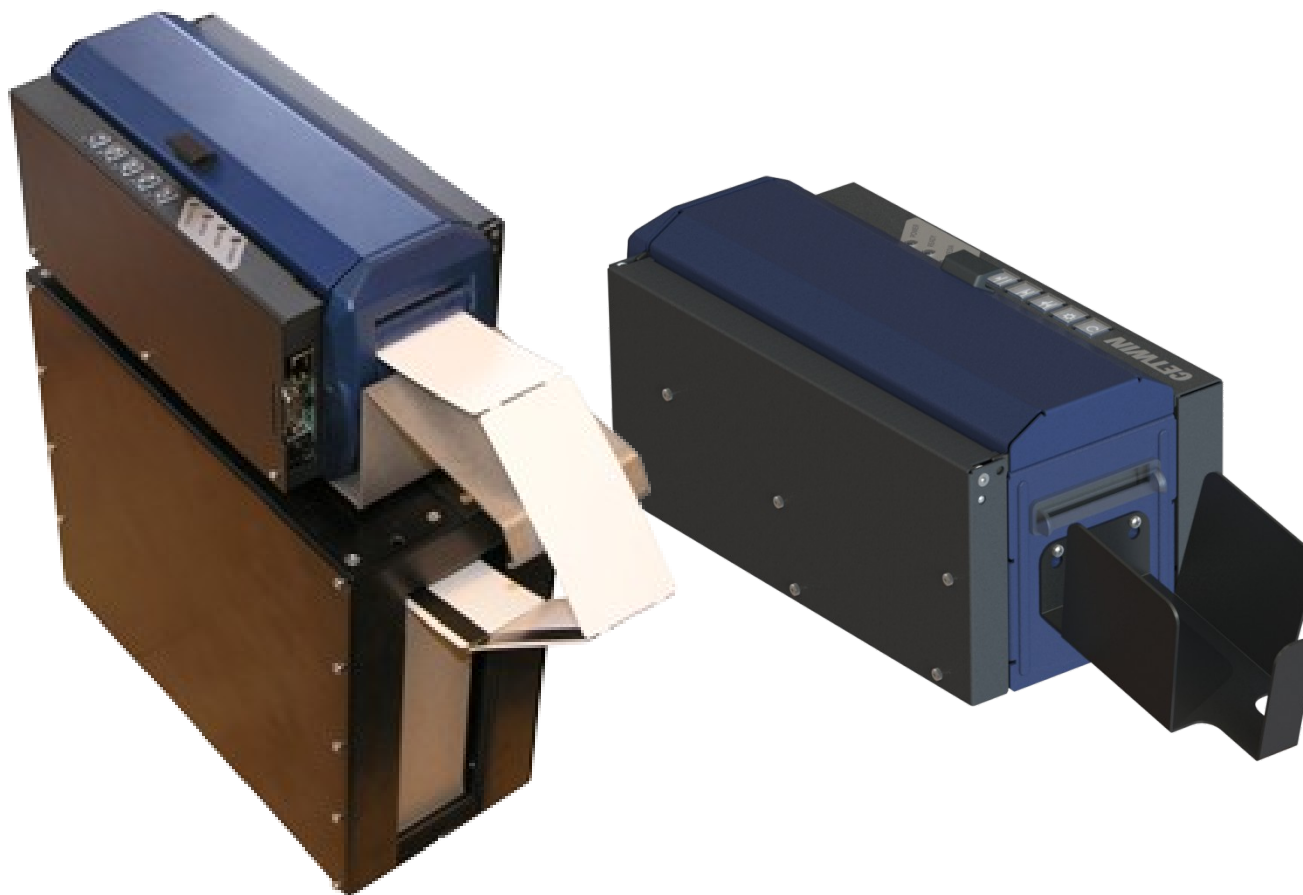


TEP5000 characteristics

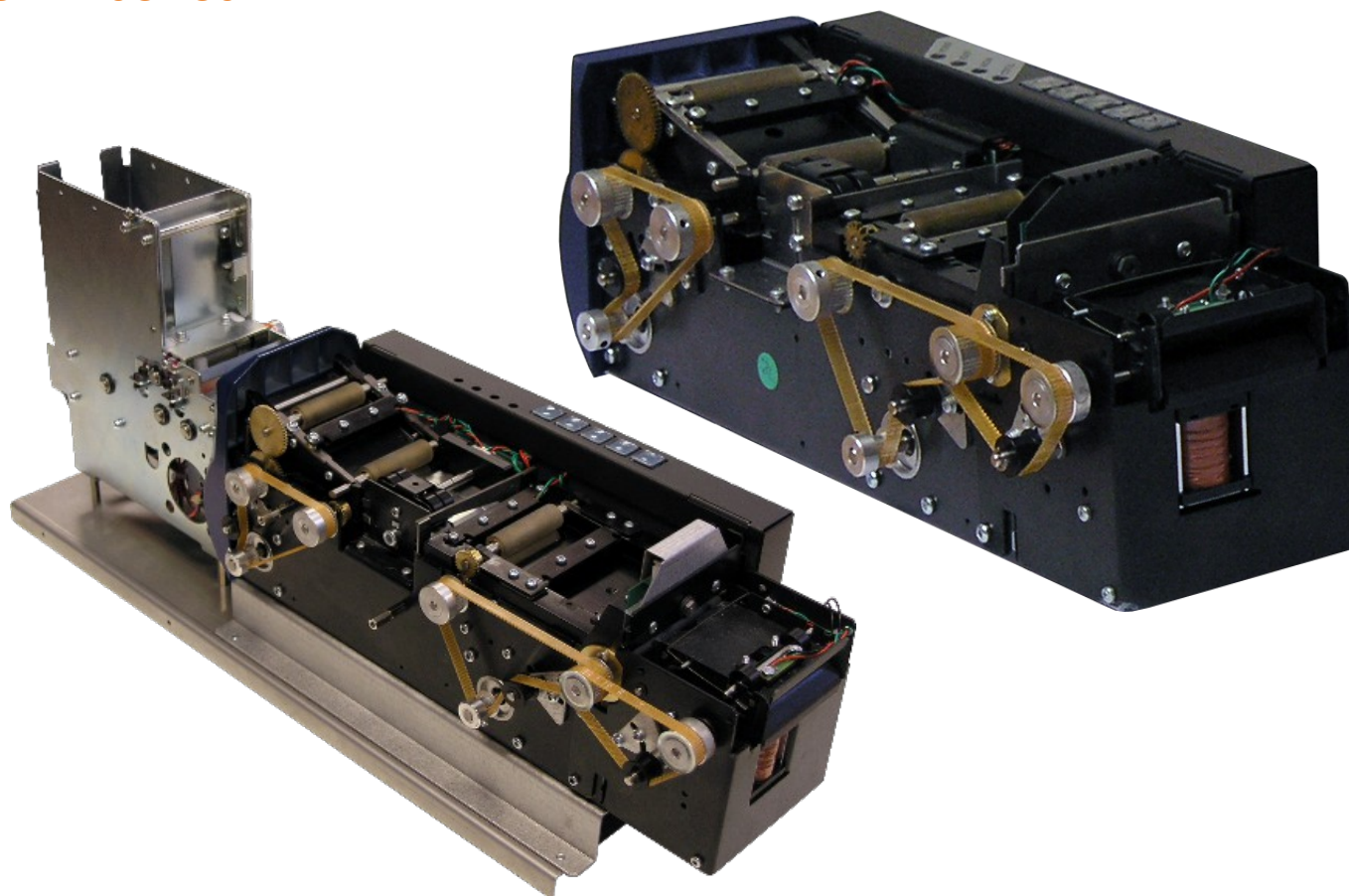
- Future proof
- Backward compatible
- Desktop and OEM versions
- Reliable, long service life
- Compact, easy to integrate
- Configurable



TEP5000 Desktop-series

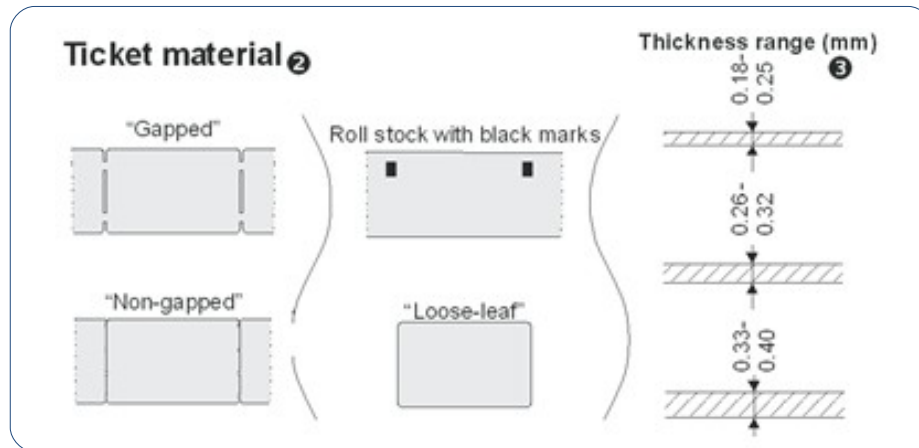
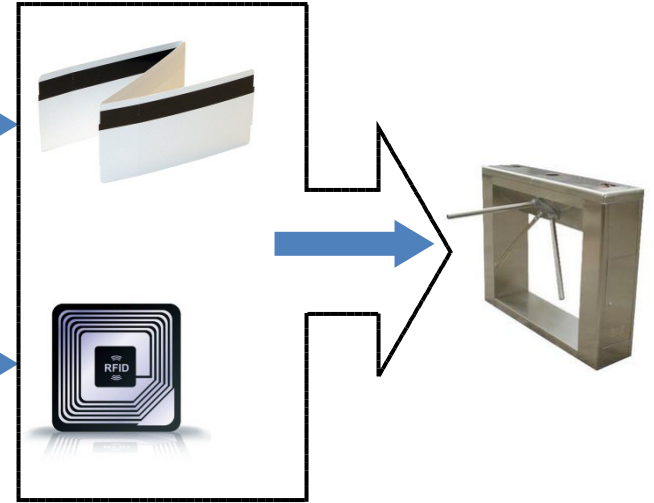


TEP5000 OEM-series



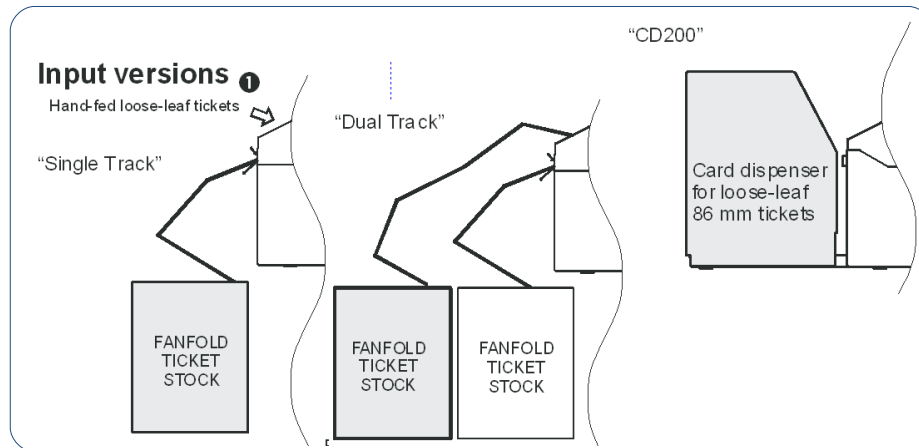
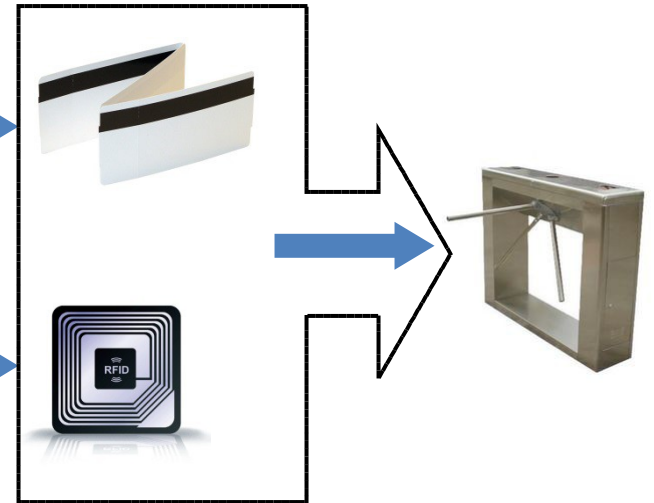
TEP5000 Media & data carriers 1/3

- Magnetic card tickets, direct thermal
- RFID tickets, direct thermal
- Plastic cards



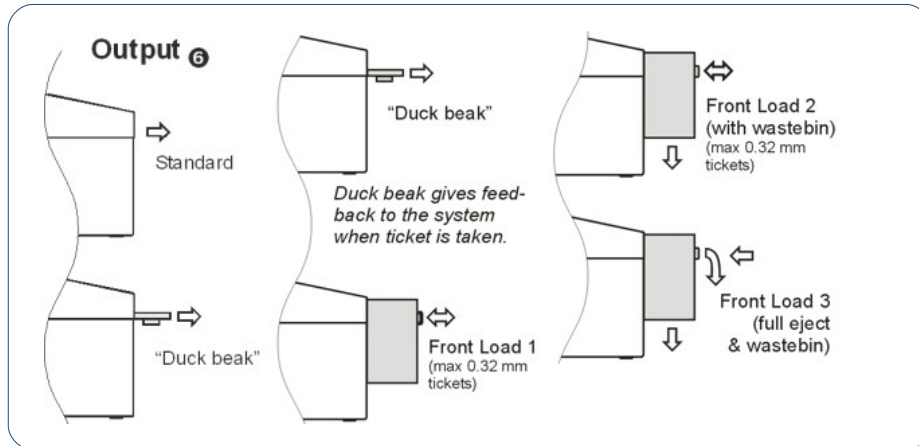
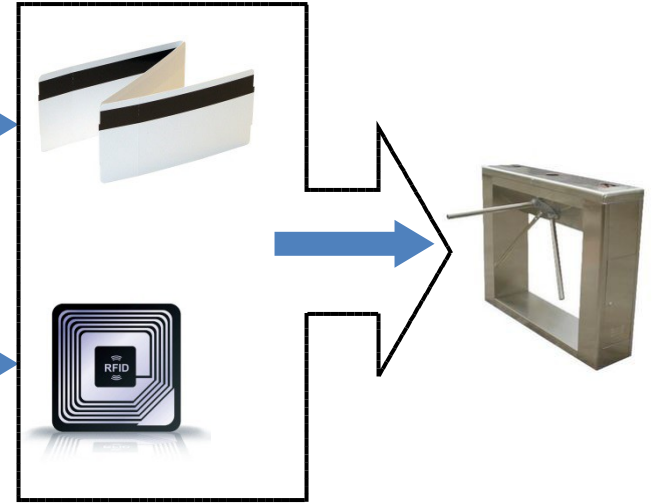
TEP5000 Media & data carriers 2/3

- Magnetic card tickets, direct thermal
- RFID tickets, direct thermal
- Plastic cards



TEP5000 Media & data carriers 3/3

- Magnetic card tickets, direct thermal
- RFID tickets, direct thermal
- Plastic cards



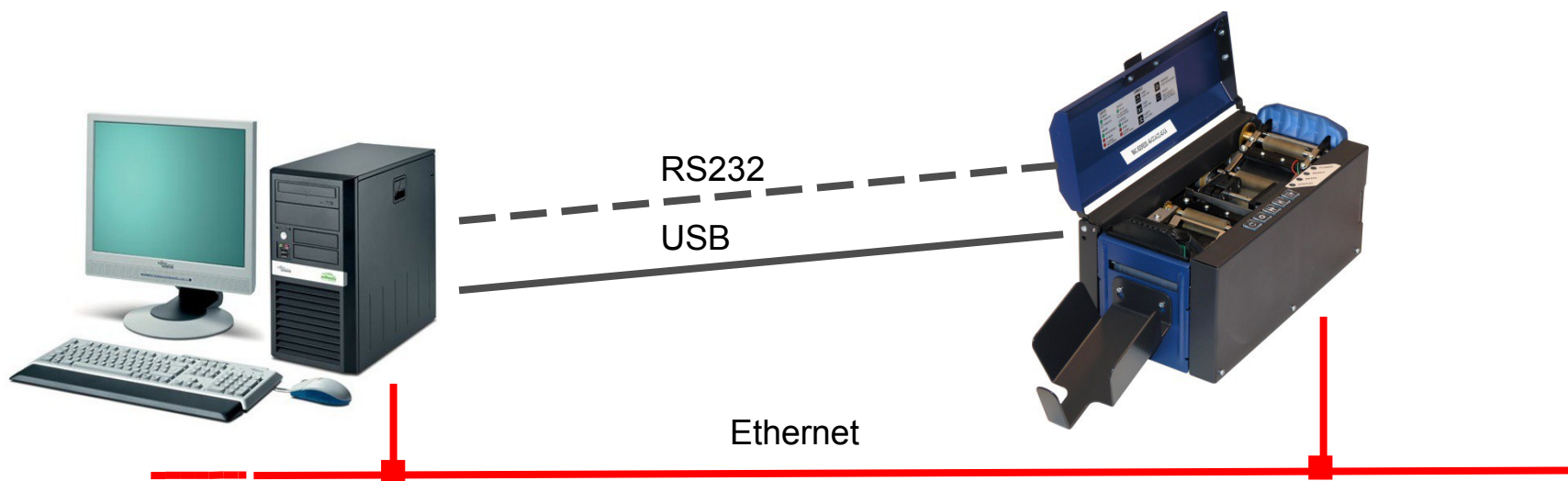
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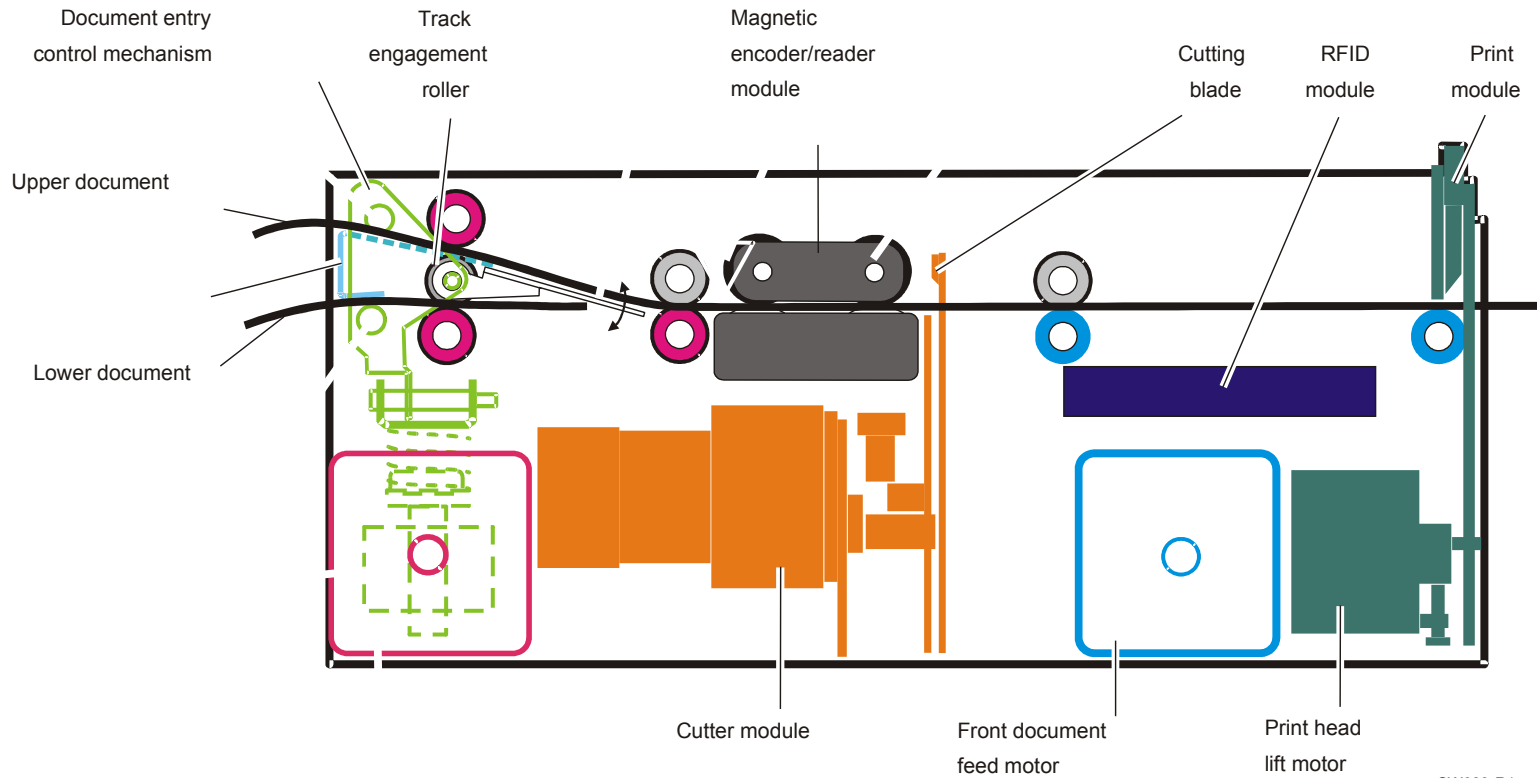


TEP5000 Communication interfaces

- Serial RS232 up to 115200baud
- USB-com port emulator in PC
- Ethernet interface



TEP5000 Modular description



CW083-R1



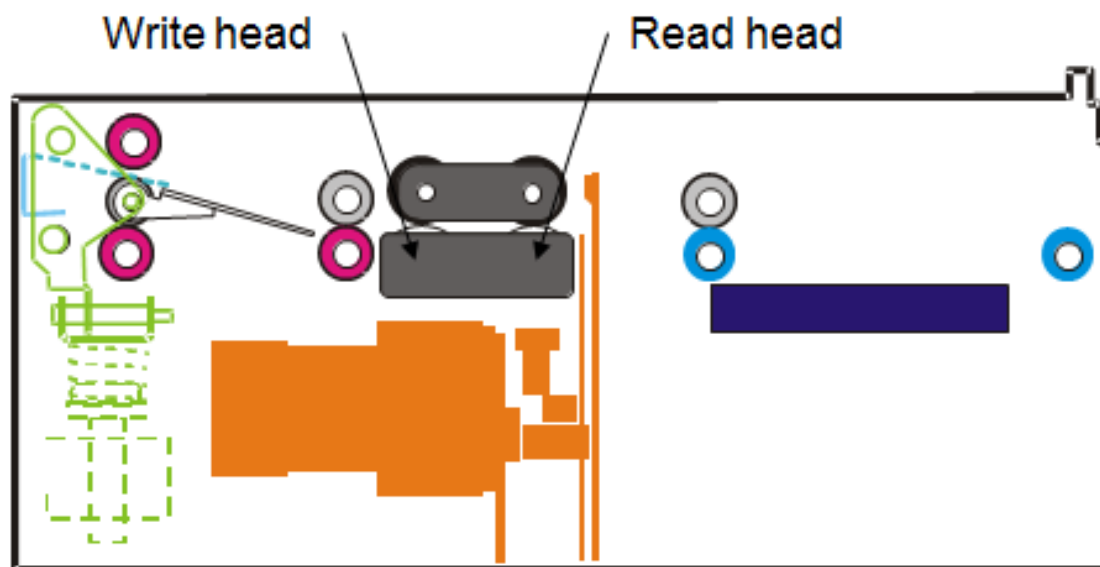
TEP5000 Control board

- Based on Actel FPGA
- Flash Prom for F/W and fonts
- EE-Prom for ticket counter etc.
- Sram for variable and image store
- Motor driver circuits
- Analog to digital converter
- Real time clock
- Sensor inputs
- Communication interfaces



TEP5000 Magnetic module

- 3 track write head
- 3 track read head
- One pass verify



TEP5000 Magnetic encoding

■ LoCo and HiCo

- LoCo 300oe used in most applications
- HiCo 2700oe used when a “Household magnet” proof encoding is needed

■ ISO track positions 1, 2 and 3 or Center track

■ Encoding according to ISO F2F standard.

- ISO, Characters according to ISO standard start, stop and checksum added automatically.
- HEX, Full control of binary data on strip.

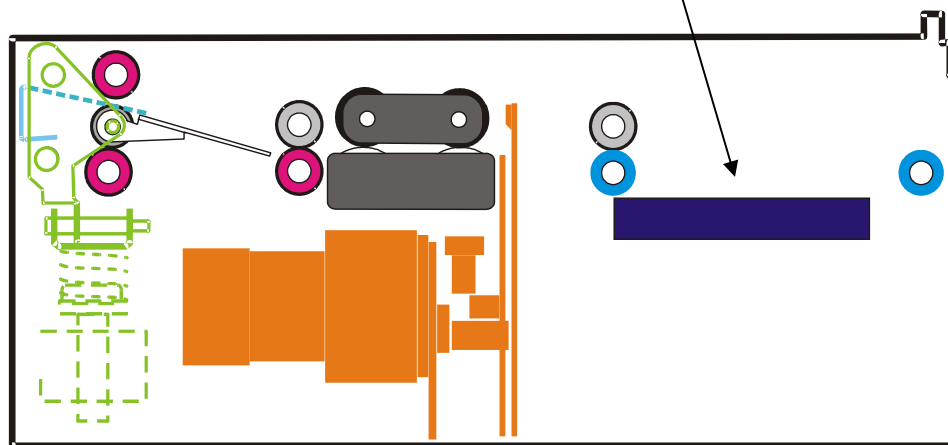
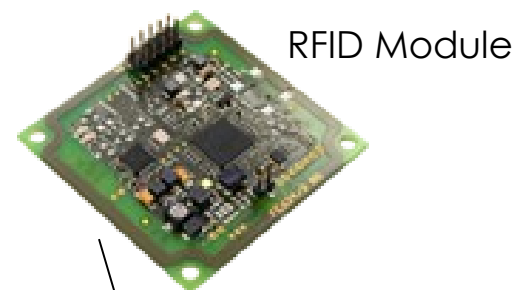
■ Bit density

- ISO standard 75 and 210 bpi (bits per inch)
- Non standard 105 and 161 bpi



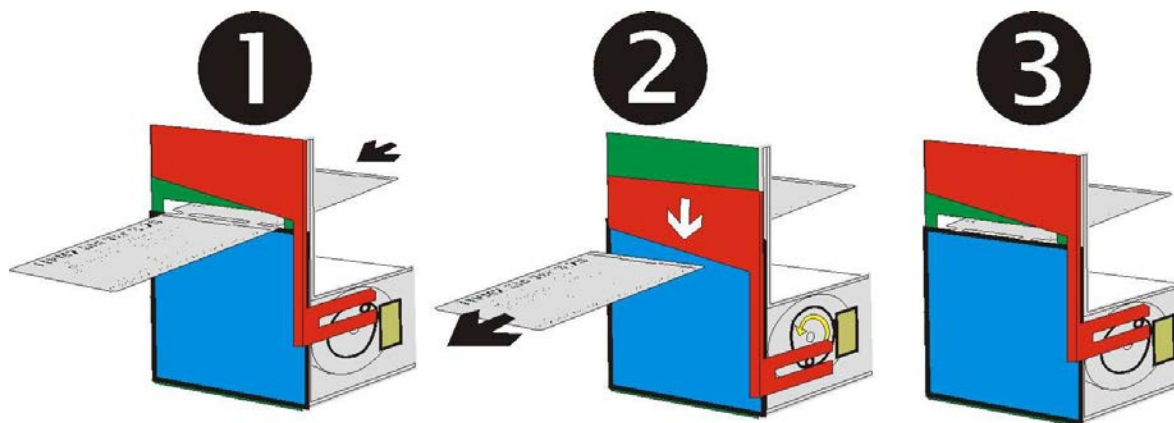
TEP5000 RFID module

- Direct communication PC - RFID
- ISO 14443-A/-B MIFARE, MIFARE Ultra light, Calypso
- Custom module easily integrated



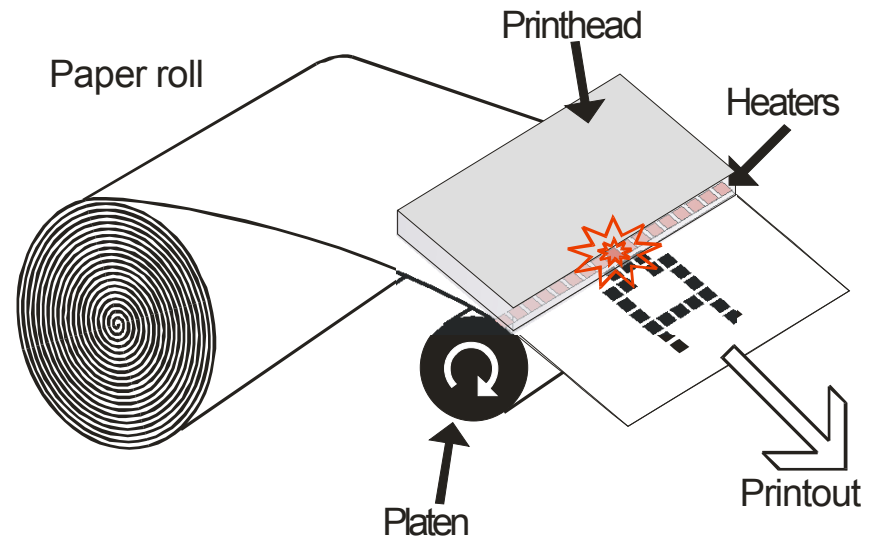
TEP5000 Cutter module

- Guillotine cutter
- Self sharpening
- High speed DC-motor with gearbox
- Home sensor



TEP5000 Thermal print

- One consumable
- Print density 8 dot/mm (203 dpi)
- History control
- Parameter control of burntime



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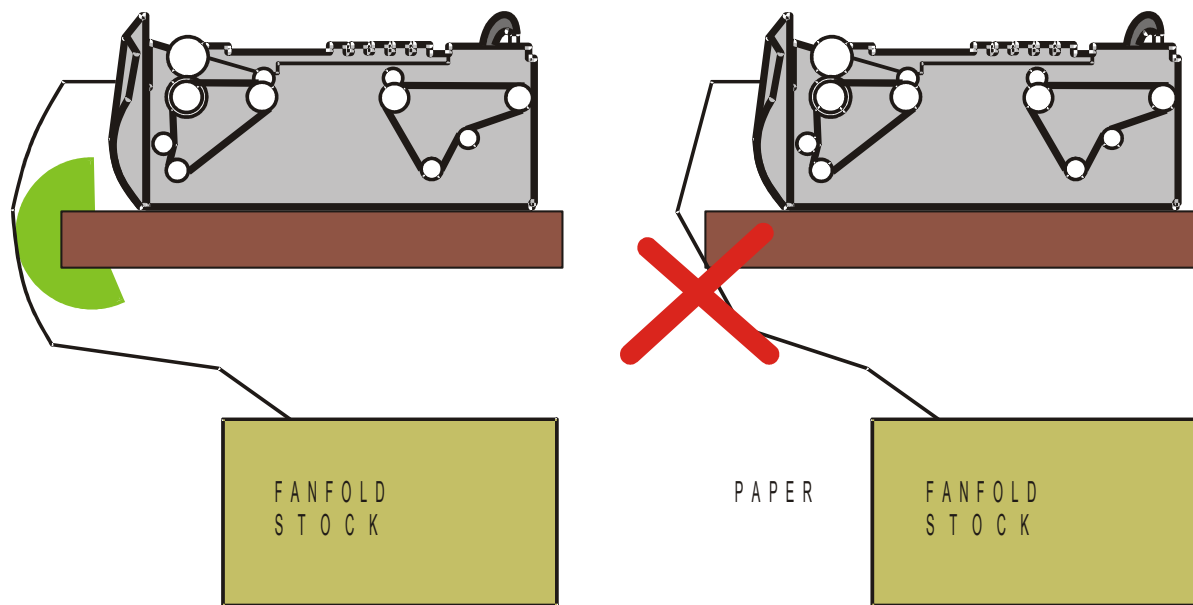


TEP5000 System integration

- Mechanical integration
- Command based integration
- Importance of status
- System implementation
- Biosoft services



TEP5000 Paper path

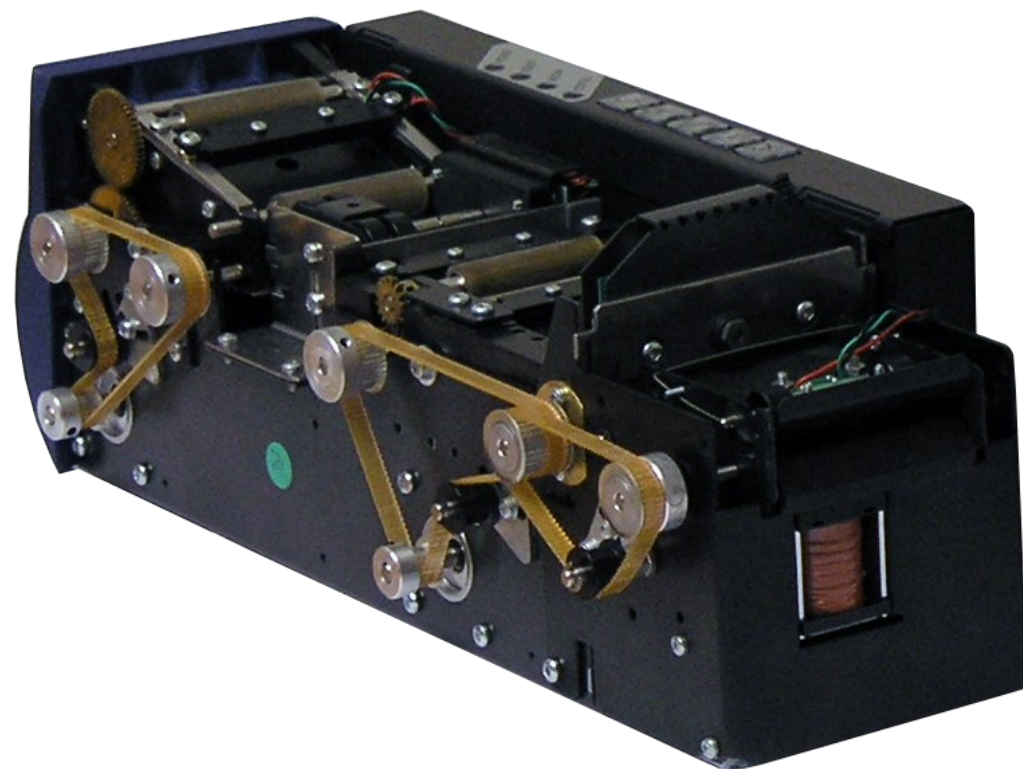


Prevent the fanfold paper from getting caught by sharp edges along the paper path because this may result in encoding
CW069



TEP5000 Kiosk integration

- Design paper path
- Design eject
- Prevent dust
- Simple paper load
- Easy access for maintenance

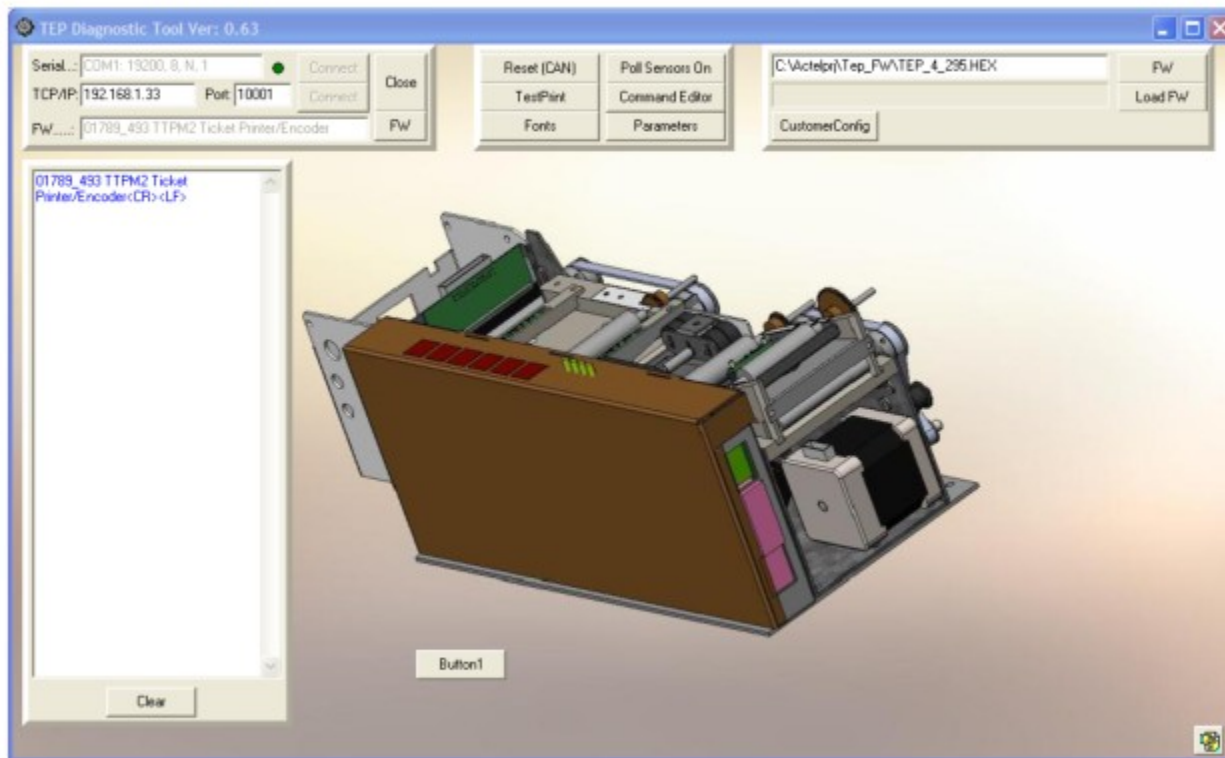


TEP5000 Command integration

- Fixed and downloadable fonts
- Multiple width and height
- Text rotation
- Bar codes
- Graphics
- Parameters stored in Flash Prom



TEP5000 Windows utility program



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Biosoft support

- Access to more than 20 years of advanced, international, experience in ticket printers!



thank you for your attention!

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