

TECHNICAL SPECIFICATION



REINER SCANNER RS 890/891

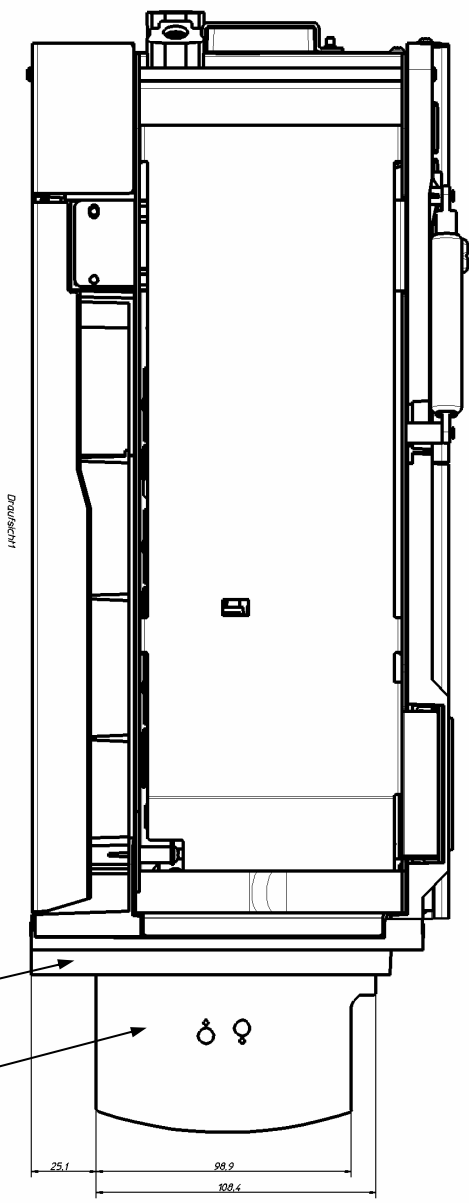
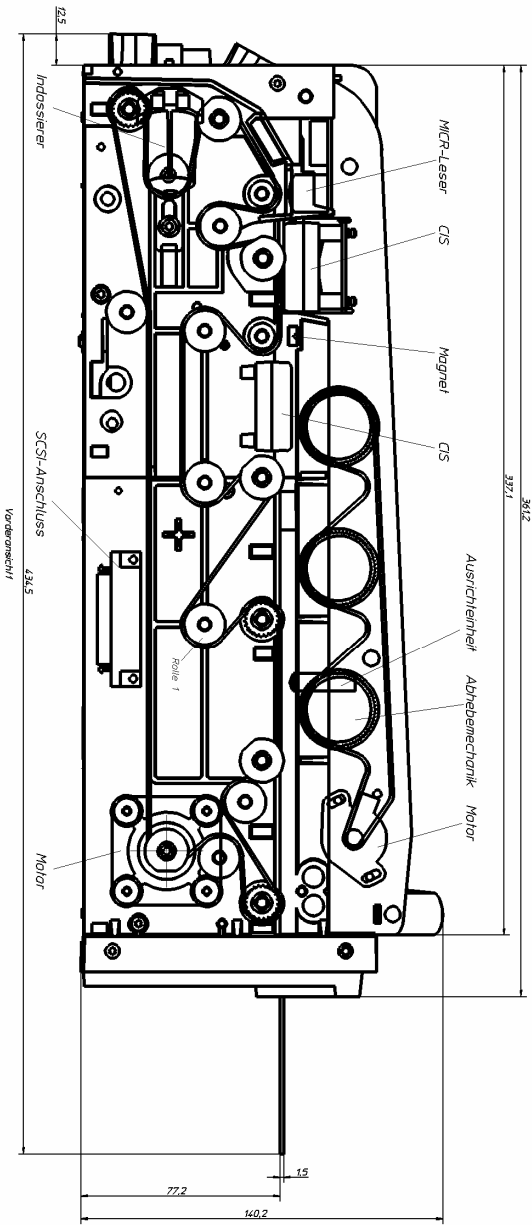
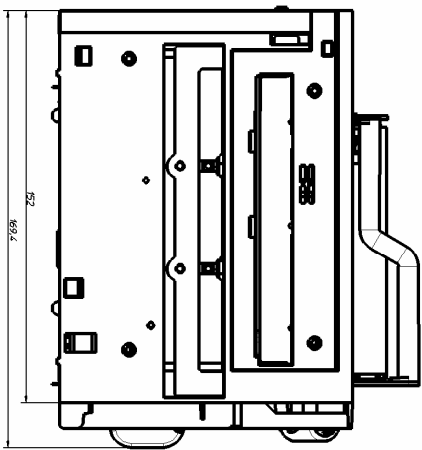


Kiosk Scanner with MICR reader:

TECHNICAL FEATURES:

- Document- Scanner for sheet size from 127 mm up to 220 mm length and 60mm to 112mm height.
- Front side and rear side can be optionally scanned.
- Depending of the application. High quality pictures from the documents in colour or grey scale for the OCR- recognition.
- The whole document tray is full accessible.
- Document in feed tray for comfortable document entry.
- Integrated shutter in front of the scanner.
- Scan start sensor before the shutter.
- Customizable document in-feed tray and adapter
- Electronically alignment.
- IR sensors for position detection of the documents.
- Document thickness controller in the document tray.
- Spring mounted CIS makes the scanner impassible to foreigner particle.
- All Scanners use the USB 2.0 interface
- The MICR reader delivers the detected of the code line on the checks (for CMC7 and E13B) and provides these to the application.
- Optionally a Roller stamp for front side print is available.
- Optionally a US- Sensor for double feed detection is available
- Optionally available is the REINER-STACKER RA 894 with replaceable cassette for 1000 or 2000 documents.

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adapter
dokument tray

**Technical Data RS 890 000- 201; 210; 212; 220; 240
301; 302; 331; 340; 345; 531; 701; 751**

DIMENSIONS:

- Width: 375mm (14.76")
500mm (RS 890-701-751)
- Depth: 160mm (6.29")
- Height: 140mm (5.51")
- Weight: 5 kg (12.31 lbs)
max. 16kg (39,07 lbs) with
all options
- Mobility: For building-in, Rack
mounted equipment

DOCUMENT DIMENSIONS:

- Height: 60mm up to 112mm (2.36"x 4.41")
- Length: 127mm up to 220mm (5" x 8.66")
Optional: up to 250mm with open Shutter
- Paper weight: 60 g/m² up to 120 g/m²
- Paper thickness: 0.07 mm (0.0028") up
to 0.15 mm (0.0047")

ELECTRICAL POWER:

- 24 V DC ± 5% ; < 3 A

ELECTRICAL INTERFACE:

- USB 2.0 (up to 60MB/s)

IMAGE CAPTURE SYSTEM:

- Colour CIS on front and back side
- Scan width 107,69 mm (4,24")
- Physically resolution 200 dpi
- 256 grey colure, 16.700 000 colure

FILTER FUNKTION:

- red colour λp 630 nm ± 15 nm
- green colour λp 520 nm ± 15 nm
- blue colour λp 465 nm ± 10 nm
Optionally with UV
- Infra red IR λp 940 nm ± 10 nm
- Ultra violet UV λp 365 nm ± 5 nm

IMAGE RESOLUTION:

- 100 dpi bis 600 dpi (256 grey colour)
- 100 dpi bis 300 dpi (16.700 000 colour)
Interpolation horizontal by transport speed,
vertical by firmware.
- Image output from 1Bit b/w up to 24 Bit
colure.
- Image formats: Windows Bitmap (.bmp);
JPEG (.jpg) and TIFF G4 (.tif)

SOFTWARE:

- API Interface for Windows 2000, Windows XP,
Windows Vista, Windows 7
- Firmware update by download
- Error statistic data and document counter
available in the RAM
- Electronically deskew of the document image.

IMAGE RESOLUTION:

- approx. 0,604 m/s (23.78"/s)
100dpi greyscale
- approx. 0,302 m/s (11.89"/s)
200dpi greyscale
- approx. 0,302 m/s (11.89"/s) 100dpi colour
- approx. 0,151 m/s (5.94"/s) 200dpi colour

NOISE:

- Approximate 62 dBA

SECURITY SEAL:

- CSA; GS, CE; FCC; RoHS
- Equipment class: 3
- Degree of contamination: 2 (EN 60950-1)
- May be installed at the factory or in the field by
submittor's trained personnel in accordance
with the installation instructions provided with
the equipment

ENVIRONMENTAL CONDITIONS:

- During operation :
 - Temperature: +10°C ... + 40°C
 - Humanity: 30% ... 70%
- In storage and transport:
 - Temperature: - 40°C ... + 70°C
 - Humanity: 10% ... 90%
- A thermal fuse saves the Scanner. Is the
temperature inside of the Scanner higher than
70 C° ± 5 C° the power will stopped. If the
inside temperature of the scanner lower than 70
C° ± 5 C° and free of temperature averages
the scanner starts with a reset and is ready for
scan.

ENDORSEMENT SYSTEM:

- Inkjet technology with 12 nozzles.
- Print matrix 5 x 12 dots.
- Character size 3 mm (0.11") 96 dpi.
- Up to 80 character vertical position with 14 dpi.
- Endorsement on backside of the document
Horizontal position approx. 53 mm (2.10")
from the bottom of the document up to the middle of the character.
- Endorsement on front side of the document only without the backside camera.
Horizontal position approx. 17 mm (0.67")
from the bottom of the document up to the middle of the character.
- Ink capacity:
 - Advanced notice by 350 T character
 - Maximum capacity approximate 500 T character
 - Print counter programmable by application side (no counter inside)

MICR READING SYSTEM:

- MICR read head
- E13B; CMC7

ROLLER STAMP SYSTEM:

- Optionally Roller stamp for front side print.
 - Maximum size of the print 14 mm (0.55") x 28 mm (1.10")
 - Vertical position of the print is customizable between 57mm (2.25") an 80 mm (3.16") from bottom edge up to middle of the print.
 - Horizontal position is from left side 80 mm (3.16") and from right side 20 mm (0.79") not printable, rest is customizable free.
 - Min. 10 000 printings per inking-roller
 - Printing interval ca. 5 sec

DOCUMENT TRAY CONTROL SYSTEMS:

- The whole document tray is controlled by IR sensors for position detection of the documents.
- The Scanner used at the position of the first transport roller a thickness controller. An Induction sensor measures the distance between the counter roll and the transport roll. The position of the detection is 55mm (2.17") from the bottom of the document tray.
- Mechanical alignment for the document.
- Electronically inclination correction of the pictures

PRODUCT LIFE

- ca. 1 mio. documents
- ca. 5 years

REINER

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