

MD-880 Medical Device Pouch Sealer

Rotary Seal & Print System for Validated Sterile Packaging

The **MD-880** is a German-engineered, stainless-steel rotary medical pouch sealer designed for medical device manufacturers who require validated, ISO-compliant sealing and real-time pouch printing. Built for cleanroom environments and backed by calibration from our **ISO/IEC 17025 accredited laboratory**, the MD-880 delivers precision sealing, consistent force, and compliant printing in a compact, easy-to-operate system.

Its advanced conveyance system, dual-heated platens, and transducer-monitored pressure roller ensure repeatable sterile barrier performance across Tyvek®, clear film, and other validated pouch materials. Operators simply feed the open end of the pouch—everything else is automated for speed, accuracy, and throughput.



Engineered for Cleanroom Performance

The MD-880's stainless-steel housing is designed for aggressive wipe-downs and particulate-controlled environments. Flat surfaces and a compact footprint make it ideal for ISO-classified cleanrooms where space and hygiene matter.

- No air supply required
- Stainless-steel construction
- Easy-clean flat surfaces
- Small footprint with high throughput

How the MD-880 Sealing Process Works

1. **Feed the open pouch** into the machine.
2. The pouch travels across **dual heated platens**, controlled by the onboard microprocessor.
3. The pouch enters the **transducer-monitored pinch roller**, applying approximately **100 N** of force to complete the seal and curing process.
4. The sealed pouch passes the **integrated print head**, which prints lot codes, expiration dates, ISO symbols, and other required data on the non-sterile tail of the pouch.
5. Operators continue feeding pouches for continuous, high-volume throughput.

This workflow produces consistent, validated seals while maintaining impressive production speed.

Key Features

Validated Rotary Sealing

- Continuous rotary sealing
- **12 mm seal width** with unlimited length
- Temperature range: **176°F to 428°F**
- Thermal accuracy: **±2%**
- Contact pressure: **100 N**
- Adjustable sealing speed: **5–13 m/min**

Seal Check Mode

The MD-880 includes a dedicated **Seal Check** function to verify critical sealing parameters—temperature, pressure, and dwell time. When used with Seal Check indicators, operators gain a simple visual confirmation of seal quality.

Integrated Printing System

The onboard printer supports:

- Date of manufacture
- Expiration date
- Time
- Operator name
- Lot and batch codes
- CE information
- Sterilization method
- Product quantity
- Barcodes

FontMatic™ automatically adjusts character size based on pouch width, preventing printing off the edge as operators switch between narrow and wide pouches.

IntelligentScan™ System

The included **ValiScan** barcode scanner allows operators to:

- Load validated parameter sets instantly
- Switch between operators or materials
- Adjust transport speed and other hidden parameters
- Maintain consistent, error-free setup

Sealable Materials

The MD-880 supports a wide range of sterile barrier materials, including:

- Pouches and reels per **EN 868-5** and **ISO 11607-1**
- Paper pouches per **EN 868-4**
- HDPE materials such as **Tyvek® 1059B, 1073B, and 2FS**
- Aluminum laminate films

Non-Sealable Materials

- Polyethylene films
- Soft and hard PVC
- Polyamide films
- Polypropylene films

Technical Specifications

Voltage	100–240 VAC
Power	400 W
Seal Width	12 mm
Distance from product	>30 mm (DIN 58953-7)
Sealing Method	Continuous rotary
Speed	10 m/min (adjustable 5–13 m/min)
Temperature	176°F–428°F
Data Output	RS-232, USB, Ethernet
Dimensions	710 × 260 × 240 mm
Weight	23 kg

Precision for Sterile Device Packaging

As regulatory expectations tighten, the MD-880 provides the accuracy and repeatability required for ISO-11607-compliant sterile barrier systems. With tightly controlled thermal zones, fixed pressure, and consistent conveyance speed, the MD-880 simplifies DOE development and supports robust packaging validation.

Why Medical Device Manufacturers Choose the MD-880

- Validatable sealing with monitored temperature, force, and speed
- Integrated printing with FontMatic™ auto-sizing
- IntelligentScan™ for rapid, error-free setup
- Cleanroom-ready stainless-steel construction
- Seal Check mode for daily verification
- No air supply required
- Backed by certified packaging engineer support
- In stock and ready to calibrate and ship

What's Included with Your MD-880

ISO/IEC 17025 Accredited Calibration

Your sealer ships calibrated from our accredited laboratory, including multi-zone thermal verification and redundant meter confirmation.

Certified Installation Qualification (IQ) Support

Our quality-system-certified technicians assist with IQ documentation and setup.

Pouch Integrity Test

Receive a **no-cost 10-specimen pouch integrity study** with full reporting from our accredited lab.

All documentation and certifications originate from our ISO/IEC 17025 accredited pouch testing and calibration laboratory.

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Connecting medical device packaging to patient safety.

Call Customer Care: 800-550-3854