

The MDC FFS-1 horizontal form fill and seal thermoformer was designed for the Medical Device and Consumer Product industries. The system is capable of producing flexible or semi-rigid packaging with sterile barriers. Built for high volume production environments, the FFS-1 can form films up to 50 mil and seal Tyvek®, paper foil, or poly at production speeds up to 30 cycles per minute. Suitable for a wide range of materials including PETG, RPET, PVC, HIPS, PVDC, Poly, Nylon/Surllyn®

Key Features

- Retractable Form and Seal heads on pneumatic cylinders
- Quick-change tooling for fast change overs
- Top film servo drive eliminates stress to finished package seals and provides superior print registration.
- Menu-driven recipe storage including seal pressures
- Shaft angle control for event timing maximizes throughputs
- Allen-Bradley controls w/ PanelView Plus touchscreen

High Uptime / Low Maintenance Costs

Retractable form and seal heads that don't require water to cool coupled with quick change tooling enable 15 minute change-overs and ease of maintenance.

Stop Wasting Product

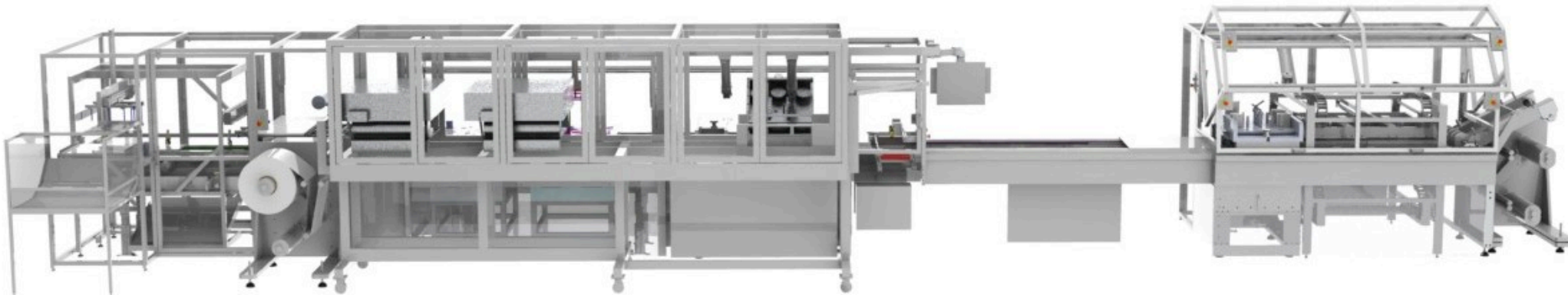
Pre-heat station, plugs and seal head are cylinder driven for precise control and quick retraction safeguarding all work in process during machine stops.

Form Clear and Uniform Packages

FDA validatable – we provide test ports for calibration of gauges and RTD's for your NIST certs.

Flexibility

Runs flexible or rigid formable webs; choose between contact or radiant heat, clips or piercing transport chains, and match metal dies or guillotine knives.



Every MDC machine is designed and built to your specifications using all U.S. standard measurements and hardware. Your system will include a complete B.O.M. with vendor part numbers, program source code and a complete drawing package.

Forming Capacity

Film widths up to 35 inches
Index with pre-heat up to 25 inches
Film draws up to 5 inches
Machine cycle rates up to 30 CPM

Mechanical

Film unwind: Upper servo driven roller and powered bottom; 22" D
Film advance/chain: Servo index with clips or piercing for rigid films
Pre-heat station: Contact or radiant heat with bottom reflector & side heaters, control up to two indexes
Forming die: Toggle press; Lower male plugs with air over vacuum
Tooling: Quick Change (10 mins.)
Load Area: To customer spec with knee free area
Seal Station: Retractable, pneumatic cylinders
Cut Station: Guillotine or match metal die
Scrap Removal: vacuum or scrap rewind

Construction

1/2" solid aluminum side plates and frame
Lexan guarding
Cleanroom Ready

MDC ENGINEERING, INC.

1465 Tallevast Road, Sarasota, FL 34243
941.358.0610 - www.mdcengineering.com

Controls/Software

Controller: Allen Bradley CompactLogix
HMI: PanelView Plus 10" touchscreen
Indexing Servos: Ultra3000
Temp Controls: Using PID loops
Communications: Ethernet or DeviceNet

Resources

Cooling water: 3 GPM
Electric: 230V/480V, 3 phase, 60 amps
Air Supply: 100 psi, 25 SCFM

Safety Features

Zero tolerance package plus emergency stops; Banner category 3 safety circuits
Cage safety guards w/ hinge circuit
Air and electric lockout points
Under guard packages

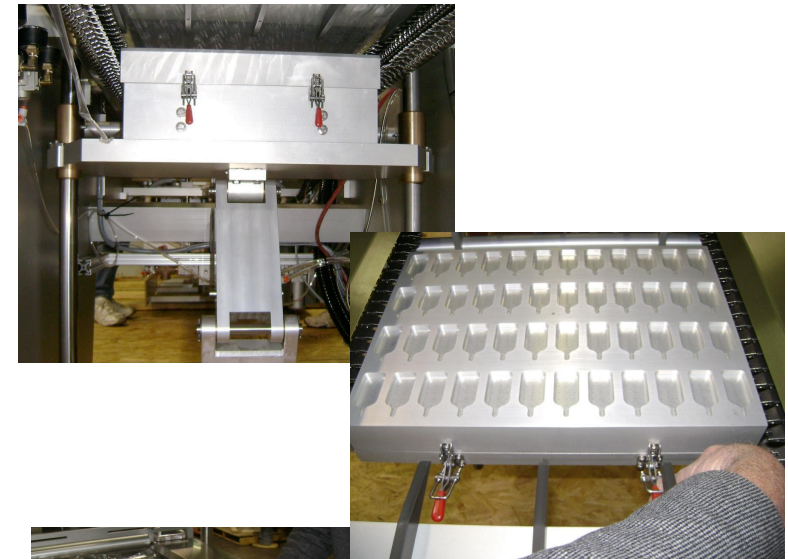
Validation

Complete protocols & support (PQ, OQ, IQ) plus calibration ports for gauged inputs such as pressure, vacuum & temperature.

Options

Product in-feed & conveyors
Flexo and digital top printers
Vision/inspection systems
Alternate control systems
Complete reject tracking system
Foreign language support
Hole punch dies

MDC's HFFS Thermoformer machines maximize uptime with our quick change tooling and retractable heads. Our solution greatly reduces downtime associated with unscheduled machine stops and saves valuable work in process. Simply lift up the seal head for inspection and gasket replacement.



Made in U.S.A.