

Formax[®] gives you more with less



FORMAX[®]
There's more in it for you.

more food safety > less worry more reliability > less maintenance more throughput > less time
more exacting portion control > less giveaway more control over your operation > less process variation

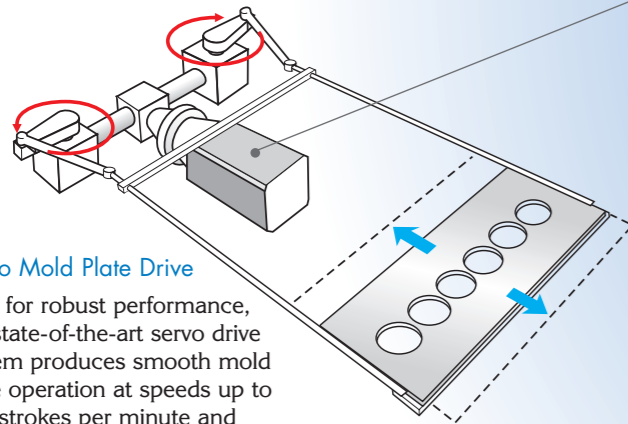
The new Formax® Maxum700® > engineered for unmatched food safety and performance

Today's food processing standards require a new way of thinking. Quality isn't the ultimate goal, it's a given. Food safety isn't something to strive for, it's a must. And controlling process variation is imperative to ensure all products meet unwavering weight, portion control, safety and appearance specifications while yield and throughput are maximized and labor is minimized.

The Maxum® product line was designed based on this new way of thinking. With over 30 years of experience working with food processors, the Formax® team has developed a food forming system that exceeds even the most demanding standards. In fact, the Maxum® product line truly does give you the ability to make more with less.

Pivoting Product Hopper and Conveyor Assembly

To ensure the highest level in food safety and hygiene, the product hopper tilts at the touch of a button, offering clear access to the conveyor, feed screws and plungers. The conveyor assembly pivots with the product hopper, facilitating belt removal and thorough washdowns. The hopper pivot can be placed on either the right or left side of the machine.



Servo Mold Plate Drive

Built for robust performance, the state-of-the-art servo drive system produces smooth mold plate operation at speeds up to 120 strokes per minute and production rates up to 8,000 pounds per hour (3630 kilograms per hour). With complete control over dwell in the fill position and advance and retract speeds, quality is optimized for a wide range of products. Stroke length is easily changed to accommodate multiple row tooling. The reduced number of drive components minimizes maintenance and ensures reliable operation.

3-Part Machine Base

The machine structure combines the strength of mild steel with the corrosion resistance of stainless steel resulting in a highly durable and stable machine foundation.

1. Force Containment System

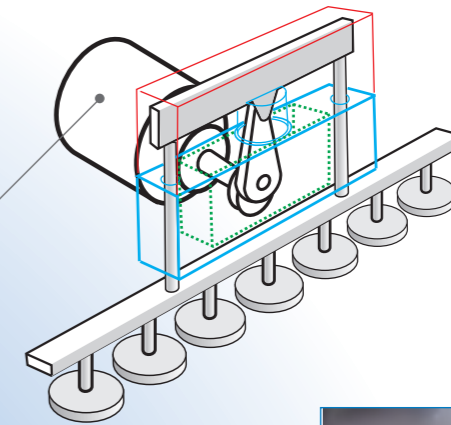
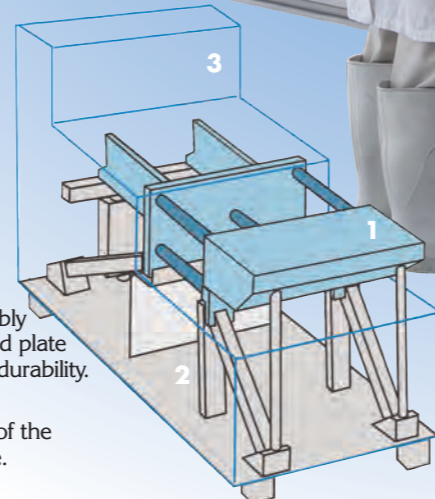
The Force Containment System utilizes prestressed rods and a keyed plate assembly to isolate the high plunger forces and mold plate drive loads to ensure maximum machine durability.

2. Weight Bearing System

Frame members support only the weight of the machine components and are replaceable.

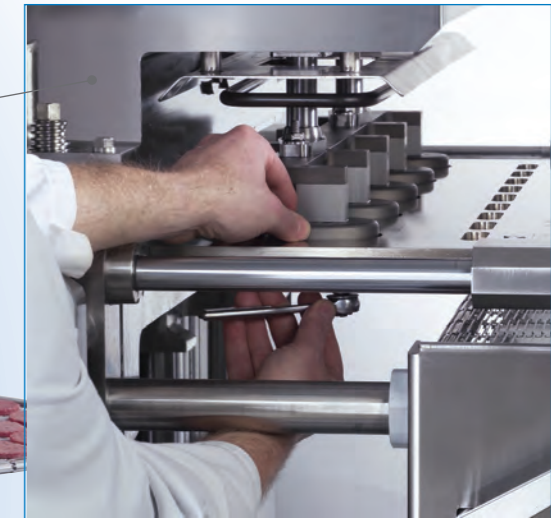
3. Main Enclosure

The 3/16" (4.8 mm) thick damage-resistant stainless steel main enclosure along with the double-sealed access doors provide a protective barrier around the interior machine components, preventing water and product intrusion into the cabinet.



Servo Knock-Out Drive

Programmable knock-out motion profiles powered by leading edge servo drive technology ensure more precise product placement on downstream conveying systems. The motion profile can be adjusted to specific product parameters, enabling you to optimize machine performance on a product by product basis. The direct drive design further ensures minimal maintenance.



Transfer Conveyor

In a matter of seconds, the transfer conveyor can be raised and moved out of the operating position to allow access to the knock-out cups for easy setup and adjustment. Upon completion, the conveyor can be moved quickly back to the proper operating position.



One-Piece Pump Box

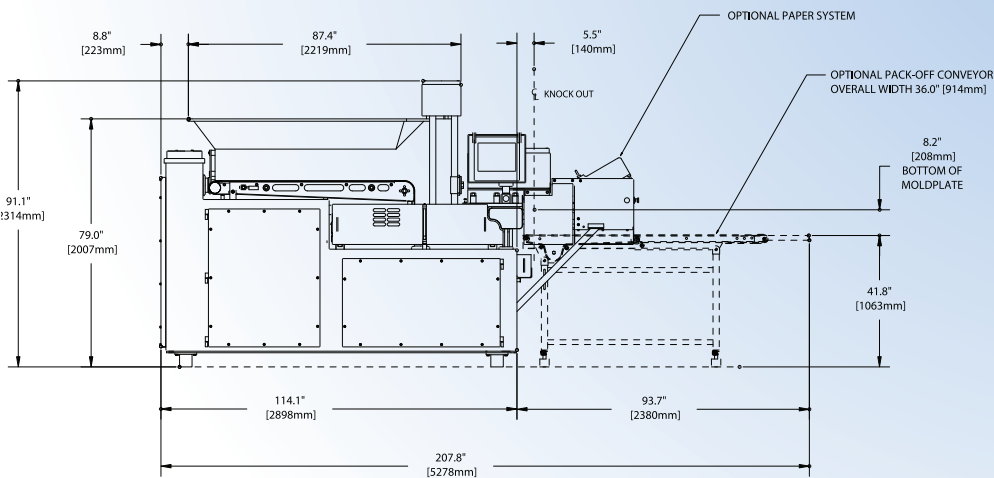
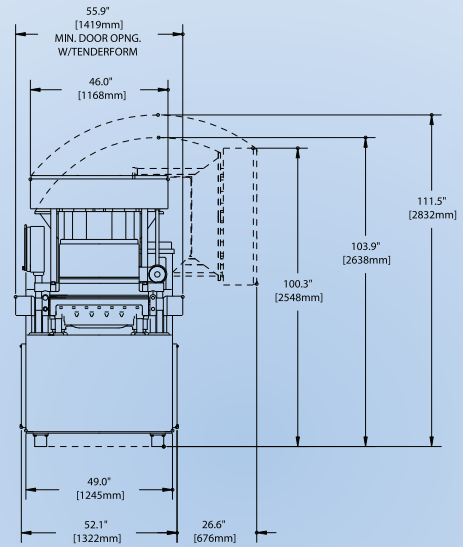
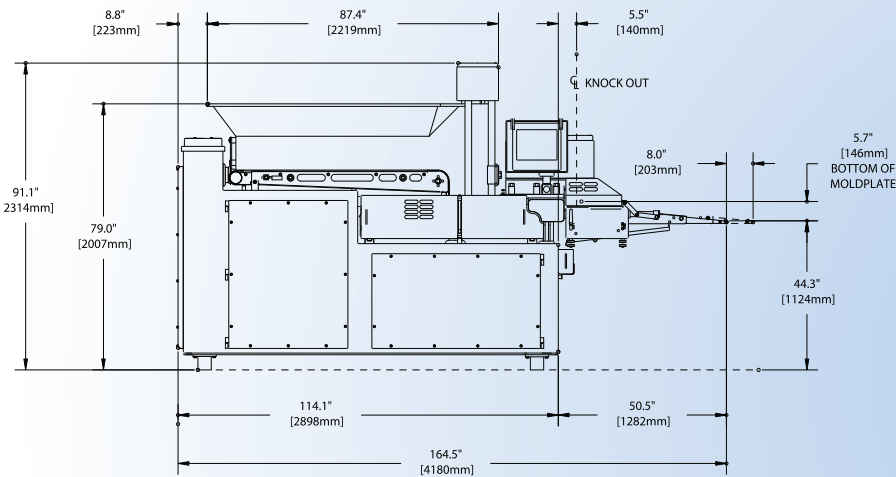
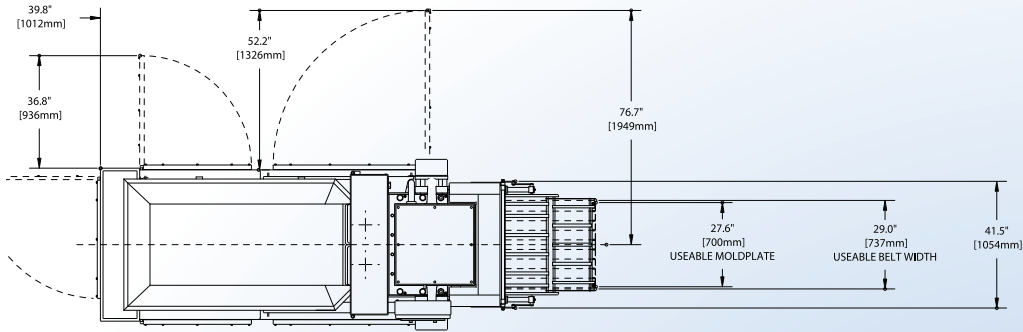
The one-piece stainless steel pump box is easy to clean, providing the utmost in food safety and hygiene. Its rigid design results in a flat, true running surface that keeps tooling components precisely aligned while reducing mold plate drive loads and the opportunity for product leakage.



Paper Stack and Count

For maximum production flexibility, the optional paper feed system papers fresh product and stacks uniformly in tight formation on the conveyor. Paper hoppers can be refilled without interrupting production.

Maxum700® > installation dimensions Inches and Metric



Product Hopper and Touch Screen can be mounted on right or left side.

Gross Weight = 12,300 lb (5580Kg)

Gross Weight w/ Paper System = 12,700 lb (5760Kg)

Maxum700® > features & specifications Inches and Metric

FEATURE	SPECIFICATION
› Touch Screen Control	15" (381 mm)
› Variable Mold Plate Drive Strokes Per Minute (SPM)	25-120 at 9" (228 mm) stroke length
› Available Mold Plate Stroke Length	6, 7, 8, 9, 10, 11" (152, 178, 203, 228, 254, 279 mm)
› Hydraulic Compression System	15 HP (11.2 KW)
› Product Pressure Control	75-250 PSI (5.2-17.2 Bar)
› Hopper Capacity	1250 lb (567 KG)
› Usable Mold Plate Area	27 9/16" wide x 6" front to back (700 mm x 152 mm)
› Mold Plate Thickness	3/16" thru 2 5/8" (4.7 mm thru 66 mm)
› Automatic Lubrication System	Mold plate and knock-out drive systems are automatically lubricated
› Wireless Ethernet Connection	Included
› CE Compliant	Yes

UTILITIES & SAFETY

› KVA Rating (includes optional bucket lift, knock-out heater and paperfeed system)	52 KVA
› Electrical Configuration	400/460 Volts, 50-60 Hz, 3 Phase 68/67 Amps
› Water Requirements (knock-out heater / atomizing water spray)	30 PSI min., 1 GPM at 50F / 30 PSI min., 2 GPM at 50F (2 Bar min., 3.8 LPM, 10C / 2 Bar min., 7.6 LPM, 10C)
› Air Requirements (non-paperfeed / paperfeed)	2 CFM at 80 PSI / 15 CFM at 80 PSI (56.6 LPM at 5.5 Bar / 424.8 LPM at 5.5 Bar)
› Cross Monitoring Safety Interlock System	Category 4 components
› Radiant-Type Heater for Knock-Out Cups with Adjustable Temperature Control and/or Water Spray	Available by application


PAPER FEED SYSTEM

› Strokes Per Minute	25-120 at 9" (228 mm) stroke length
› Paper Interchangeability	Paper hopper, vacuum bar and vacuum cups are easily removed to change sizes
› Standard Paper Sizes (consult factory for custom paper sizes)	4.25, 4.5, 4.75, 5, 5.19, 5.5, 5.75, 6" (108, 114, 121, 127, 132, 140, 145, 152 mm)
› Electronic Counter	1-31 portions per stack
› Maximum Stack Height	6" (152 mm)

Maxum700® > for enhanced performance


The Maxum700® design includes over 50 unique features, with 22 of these patentable. Shown below are just a few of the key features and benefits.

FEATURE	BENEFIT
› One-Piece Stainless Steel Pump Box	› Maximizes hygiene while minimizing product leakage and drive component wear.
› Servo Mold Plate Drive	› Provides superb quality output with minimal maintenance at speeds up to 120 spm and production rates up to 8,000 lb/hr (3630 kg/hr).
› Servo Knock-Out Drive	› Ensures precise placement of product on downstream conveyor systems while optimizing product quality and minimizing maintenance.
› Pivoting Product Hopper	› Allows clear access to the conveyor, feed screws and plunger assembly to facilitate thorough washdowns.
› Pivoting Conveyor Assembly	› Enhances food safety and workplace hygiene by providing easy removal of the conveyor belt.
› Tri-Flow Horizontal Tube Valve	› Assures uniform, repeatable product weights across the width of the mold plate.
› Operational Right or Left Hand Configuration	› Accommodates tight working areas and minimizes labor in multiple machine operations.
› Main Enclosure	› Provides a protective barrier around the interior machine components, preventing water and product intrusion into the cabinet.
› Force Containment System	› Utilizes prestressed rods and a keyed plate assembly to isolate the high plunger forces and mold plate drive loads to ensure maximum machine durability.
› Positive Breathing and Anti-Lip System	› Maintains open breather plate passages to ensure the highest quality product throughout the full production run.
› Touch Screen	› Facilitates easy machine operation, maintenance and troubleshooting.




Touch Screen Interface


The large 15" (381 mm) touch screen includes a full range of operating and diagnostic screens to facilitate machine operation, maintenance, and troubleshooting. Adjustments to the operating parameters, including the mold plate and knock-out cup motion profiles, can be made on the run. Product codes can be stored to ensure optimum and repeatable performance. Machine schematics and assembly drawings are also readily accessible. Password protection ensures that only the appropriate personnel have access to the various levels of operating and maintenance screens. Information can be displayed in multiple languages.



Diagnostic Screen



Maintenance Screen



Schematic Screen

