



MT Series Cut in Mold Tilting Thermoforming Machine



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MT series is a Form & Trim In-mold Thermoforming machine, with automatic, servo electric mechanical drive system that includes an additional tilting movement and automatic stacking system. The MT model is applicable for all typical thermo plastic materials, particularly for products that require precise trim tolerances such as deep draw PP Containers of Drink Cups. This model of machines can be configured to run roll fed or in-line with extrusion line. The state-of-the-art technology is energy efficient and easy to operate with minimum maintenance required.

The adjustable top platen is for different tool shut heights mold and cutting depth regulation. The male plugs controlled by servo system for uniform wall distribution control. The bottom platen is movable, driven by a conjugated cam system for the forming process and final trim action that enables the mold to tilt by 75 degrees to allow thermoformed containers approach to automation system for the stacking. The variable speed cam for process optimization.

The insulated heat tunnel is mounted with high quality ceramic heating elements and equipped with multi controlled zones to ensure the temperature of the sheet is precisely managed. The chain feed index is controlled by a servo motor as well, for accurate

index and synchronous signals for the program interface. The chain rail width is adjustable by a series of motors.

Sunwell supplies two different automation solutions for the finished product collection which include: i- Waterfall Automatic Stacking System, ii- Mandrel Swiveling Pick Place Automatic Stacking System. Both can conjugate with automatic packaging system for light weight quality thermoformed containers on fast speed production. The scrap bridge conveyer guides the skeleton scrap to an in-line post-granulator or winder, which are located downstream or turn 90 degree to the right/left hand machine side to minimize the space requirement and manpower.

The state of the art MT technology is truly global and aims at energy saving, operation friendly, supreme quality, efficient production and minimum maintenance ensuring customers gain maximum profitability.

**PARTNERS FOR
MAXIMUM PROFITABILITY**

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MODEL	MT700	MT900
Application	Cutting in Mold for Deep Draw, Precise Trim Tolerances Products	Cutting in Mold for Deep Draw, Precise Trim Tolerances Products
Forming Method	Vacuum/ Pressure Forming	Vacuum/ Pressure Forming
Forming Direction	Below Sheet Forming	Below Sheet Forming
Sheet Width	400 ~ 750 mm	550 ~ 900 mm
Maximum Forming Mold Area (mm)	Max. 700 x 400	Max. 900 x 500
Maximum Cutting Mold Area(mm)	Max. 675 x 340	Max. 860 x 440
Max. Depth of Draw	150 mm; 180 mm (option)	180 mm
Max. Clamping Force	60 Tons	75 Tons
Shut-height	449 mm	479 mm
Platen Travel	100 mm	140 mm
Max. Cycle Speed	45 cycles / Min.	40 cycles / Min.
Platen Drive	AC Servo Driven; Cam Linkage	AC Servo Driven; Cam Linkage
Plug Drive	AC Servo Driven	AC Servo Driven
Sheet Index	AC Servo Driven Chain Feed	AC Servo Driven Chain Feed
Chain Rail Adjustment	Motorized Driven	Motorized Driven
Heat Tunnel Length	2,900 mm	3,200 mm
Heating Elements	Ceramic Heater	Ceramic Heater
Control System	YASKAWA 3000 PLC with Touch Screen	YASKAWA 3000 PLC with Touch Screen
Stacking System	1. Waterfall Chute 2. Swiveling Pick Place	1. Waterfall Chute 2. Swiveling Pick Place



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