



MC Series Automatic Multi-Station Thermoforming Machine



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Sunwell MC series is a fully automatic thermoforming machine, designed to specifically meet the demands of production in multi-station operation by steel rule die cutting technology.

It combines the chain index system, heating oven, both positive and negative pressure forming, holes pre-punch, finished product cutting, automatic product counting and stacking, exit conveyor for product stacks and scrap rewind into a compact machine.

Sunwell MC series thermoforming machine is a refined design, equipped with energy-saving precision temperature control, absolute encoder full servo system, robust toggle drive mechanism, high accuracy product cutting and flexibility of product handling to obtain a stable and reliable performance for high quality products.

The production for processing PP, PS, OPS, PE, PVC, APET or CPET, PLA are very suitable with maximum speed up to 60 cycles per minute.

The simple and cost effective molds with quick mold exchange mechanism, provides a quick replacement of the tooling to save downtime, which is especially suitable for small and medium scale production.

The applications are versatile for a variety of thin wall packaging including food, cosmetics, medical, toys, electrical and electronic components, and daily hardware products.

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MAXIMUM PROFITABILITY**

MC SERIES THERMOFORMING MACHINE SPECIFICATION



Forming Station



Cutting Station



Middle Pre-punch Station



Stacking Station

| MODEL | MCS800 | MCS1000 |
|--------------------------|---|---|
| Configuration | Form-Cut-Stack Multi-Station; steel rule die technology | Form-Cut-Stack Multi-Station; steel rule die technology |
| Application | Thin wall food and industrial packaging | Thin wall food and industrial packaging |
| Stations No. | 3 or 4 | 3 or 4 |
| Max. Cycle Speed | 60 cycles / Min. | 50 cycles / Min. |
| Sheet Index | AC Servo driven chain index feed | AC Servo driven chain index feed |
| Heat Tunnel Length (mm) | 1,800 | 2,400 |
| Heating Elements | Ceramic | Ceramic |
| Forming method | Positive and negative pressure forming | Positive and negative pressure forming |
| Forming direction | Either above or below sheet forming | Either above or below sheet forming |
| Max. Sheet With (mm) | 860 | 1060 |
| Forming Mold Size (mm) | Max. 570(L) x 820(W) Min. 250 (L) x 290(W) | Max. 750(L) x 1000(W) Min. 450 (L) x 500(W) |
| Max. Depth of Draw (mm) | 130 | 130 |
| Shut-height (mm) | Top: 250~350 Bottom: 200~250 | Top: 250~350 Bottom: 200~250 |
| Platen Travel (mm) | Top: 150 Bottom: 150 | Top: 150 Bottom: 150 |
| Forming Platen Driven | AC Servo; toggle mechanism actuation | AC Servo; toggle mechanism actuation |
| Forming Tonnage (tons) | 30 | 50 |
| Pre-Punch Mold Size (mm) | Max. 570(L) x 820(W) Min. 250(L) x 290(W) | Max. 750(L) x 1000(W) Min. 450(L) x 500(W) |
| Shut-height (mm) | Top: 250~350 Bottom: 250 | Top: 250~350 Bottom: 250 |
| Platen Travel (mm) | Top: 150 Bottom: 150 | Top: 150 Bottom: 150 |
| Pre-punch Driven | AC Servo; toggle mechanism actuation | AC Servo; toggle mechanism actuation |
| Pre-punch Tonnage (tons) | 30 | 50 |
| Cutting Size (mm) | 550(L) x 800(W) | 730(L) x 980(W) |
| Shut-height (mm) | Top: 85~185 Bottom: 180 | Top: 85~185 Bottom: 180 |
| Platen Travel (mm) | Top: 150 | Top: 150 |
| Cutting Tonnage (tons) | 60 | 90 |
| Stacking Size (mm) | 550(L) x 800(W) | 730(L) x 980(W) |
| Stacking Method | Up or Down stacking by servo; Robotic is option | Up or Down stacking by servo; Robotic is option |
| Control System | B&R or YASKAWA | B&R or YASKAWA |
| Floor Space (M) | 12.5(L) x 3.3(W) x 3.3(H) | 14(L) x 3.6(W) x 3.3(H) |
| Machine Weight (kg) | 12,000 | 16,000 |

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