

# Thermoforming Equipment



# **GN TM** Series



## **GN TM** Series Thermoformers

1406TN

The GN Tilt Mould Thermoformers are plug assisted machines which are ideally suited for products ranging from cups and lids to complex shaped packages, all with accurate trim. Depending on material type, thickness and number of cavities, product output rates are up to 24,000 parts per hour.

Tool change time is minimal due to the light weight tool and equipment simplicity. A single stacking component ensures accurately nested rows of a wide variety of products.

The combination of forming and trimming tools with hardened punch and dies guarantee long tool life while maintaining high accuracy.

## At the cutting edge

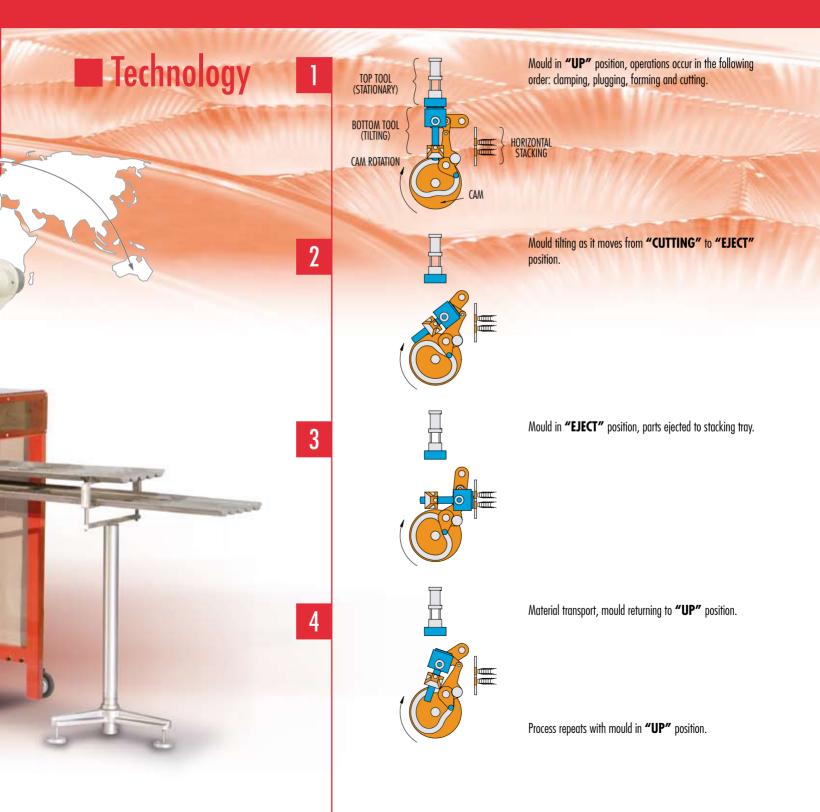
GN Thermoforming Equipment has set the world standard for the plastics industry by developing a complete line of robust and dependable thermoforming machines. All GN technology incorporates an in-mould cutting system for consistent and accurate trim. These machines are easy to use and ideally suited to produce high quality thermoformed plastic products from a variety of roll-fed thermoformable materials.

Continuous research and development are the cornerstones of GN's advanced technology. Our team of experienced engineers focuses on equipment design and continuous improvement based on customer feedback and industry trends.

GN ensures the productivity of its thermoforming machines with one of the industry's most comprehensive customer service programs. Our worldwide network of agents and qualified GN technicians are available to offer a reliable after sales service.

Leading plastic package manufacturers around the world have come to rely on GN Thermoformers to make their businesses more productive and profitable.

## FORMING THE W





# O R L D

## **GN TM series Thermoformers**

#### Features and benefits:

- Electronic control of camshaft with variable cam speed within one cycle
- Horizontal Stacking
- Servo-drive sheet transport system
- Double guided spike chains
- Multi-zone heating
- Production setting storage for up to 32 moulds
- Pneumatic roll lift

#### Features and benefits unique to the GN1407TM-B Thermoformer

- Specially designed to process Polypropylene (PP) sheet
- Multi-zone heating of top and bottom ovens

## Number of cavities in relation to part diameter

#### GN1406TM-B Inline formation

GN1406TM-B TOOLS FOR CUPS & LIDS		
44mm Ø	12 cavity	
45mm Ø - 56mm Ø	10 cavity	
57mm Ø - 70mm Ø	8 cavity	
71mm Ø - 72mm Ø	4 cavity	
73mm Ø - 100mm Ø	3 cavity	
101mm Ø -150mm Ø	2 cavity	
Depending upon material time and thickness		

Depending upon material type and thickness.

#### GN1407TM-B Inline formation

GN1407TM-B TOOLS FOR CUPS & LIDS	
54mm Ø - 56mm Ø	10 cavity
57mm $\varnothing$ - 72mm $\varnothing$	8 cavity
73mm Ø - 84mm Ø	6 cavity
85mm Ø - 100mm Ø	3 cavity
101mm Ø - 154mm Ø	2 cavity
155mm Ø - 180mm Ø	1 cavity

Depending upon material type and thickness.



## Machine specifications

	GN1406TM-B	GN1407TM-B
Forming Area	320mm x 150mm (12.6" x 5.9")maximum	320mm x 180mm (12.6" x 7.1")maximum
Depth of Draw (negative)	120mm (4.7")maximum	120mm (4.7")maximum
Depth of Draw (positive)	25mm (1")maximum	25mm (1")maximum
Sheet Width	380mm (15") maximum (depending on material type)	350mm (13.8") maximum (depending on material type)
Material Thickness Range	0.25mm - 1.2mm (0.010" - 0.048")	0.35mm - 2.0mm (0.014" - 0.080")
Material Roll Diameter	1000mm (39.3")maximum	1000mm (39.3")maximum
Dry Cycles per Minute	45 maximum	30 maximum
Main Supply Voltage	3x 400V+ N+PE, 50-60Hz (380V - 415V) 24 Volt DC Control Voltage	3x 400V+ N+PE, 50-60Hz (380V - 415V) 24 Volt DC Control Voltage
Power Consumption	15 Kilowatts/hr (Approximate)	40 Kilowatts/hr (Approximate)
Air Pressure	6 bar (87 PSI) minimum	6 bar (87 PSI) minimum
Air Consumption (Average)	1250 Litres/min (43.75 CFM)	1250 Litres/min (43.75 CFM)
Cooling Water Consumption (Average)	20 Litres/min @ 15 °C - 20 °C (5.2 gal/min @ 58 °F - 68 °F)	15 Litres/min @ 15 °C - 20 °C (4.0 gal/min @ 58 °F - 68 °F)
Machine Dimensions (I x w x h)	2400mm x 1750mm x 2050mm (94" x 69" x 81")	3650mm x 1800mm x 2258mm (144" x 71" x 89")
Machine Weight	1000kg (2200 lb)	1400kg (3080 lb)

#### MACHINE COMPLETE WITH ROLL LIFT GN1406TM-B GN1407TM-B DIM "A" 23' - 7" 7200mm 24' - 7" 7494mm DIM "B" 11' - 4" 3450mm 11' - 4" 3450mm DIM "C" 6'-0" 1830mm 6' - 0" 1830mm DIM "D" 3' - 2" 948mm 3' - 2" 948mm DIM "E" 7' - 10" 12' - 0" 2400mm 3650mm DIM "G" 5' - 9" 1750mm 5' - 11" 1800mm DIM "H" 6' - 9" 2050mm 7' - 5" 2258mm

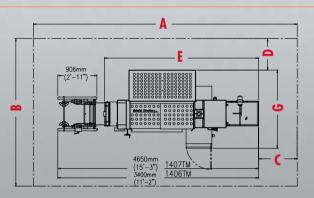
2072mm

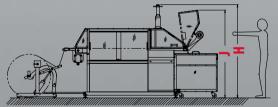
6' - 10"

DIM "J"

6' - 8" All dimensions are approximate

2030mm





MACHINE COMPLETE WITH ROLL LIFT



Cost effective tooling is designed, manufactured and production tested at our facility.

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### A world wide network of GN representatives is available to assist you.

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