THERMOFORMING SOLUTIONS

MULTI-STATION PRESSURE FORMING MACHINE











RR MULTI-STATION THERMOFORMING MACHINE

RUNNING CYCLE SPEED 30-40 CYCLE/MIN FOR HINGED CONTAINERS

3 STATION & 4 STATION

- MATERIAL: PP/PS/PET/PVC/PLA/BIODEGRADABLE
- SHEET THICK: 0.15 MM 1.2 MM
- MAX SHEET WIDTH: 710MM
- FORMING AREA: 650 MM X 540 MM

- PRODUCT DEPTH: UP TO 130 MM
- DRY CYCLE: 60
- OPERATION CYCLE: UP TO 30-40
- RUNNING POWER 55 KW



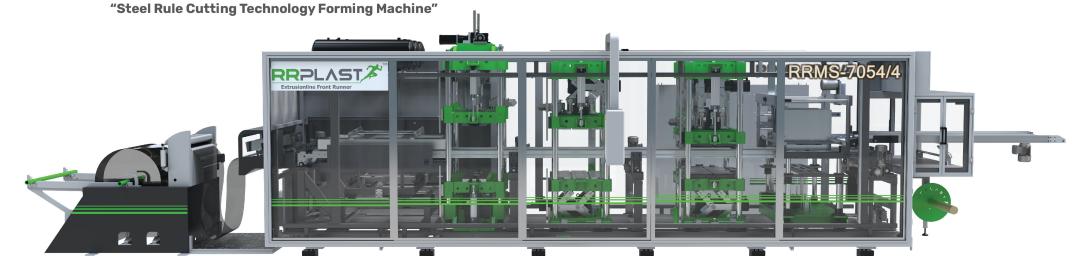




FRUIT PUNNETS



MEAL TRAY



Main Technical Parameters

Technical Features	RRMSF 70/54 Three Station Pressure Forming Machine			
Material to be Formed	PET/PP/PS/PLA/OPS/PVC			
Sheet Thickness	0.15 mm TO 1.2 mm			
Max/Min Sheet Width	720/420 mm			
Maximum Dry Run Cycle	60 Cycle/min			
Operation Cycles (PET/PS)	peration Cycles (PET/PS) 25-40 Cycles/Minute [Depending on Sheet Thickness, Product Depth, Product Desi			
Operation Cycles (PP)	Cycles (PP) 20-30 Cycles/Minute [Depending on Sheet Thickness, Product Depth, Product Design]			
Maximum Mould Dimensions	s 700 mm X 540 mm			
Height of Positive Forming	130 mm			
Depth of Negative Forming	130 mm			
Unwinder Sheet Roll	Up to 1 meter Diameter and 600 kg weight			
Total Running Load	55 kW			
Dimension of Machine(L*W*H mtr)	14 X 4.5 X 3 - 4 Station			
	12 X 4.5 X 3 - 3 Station			

Precise & Simple Operation

Automation With Cost Saving

Repeatability With Same Accuracy

Quick Mould Change

Characteristics

- Low operation noise
- Easy to operate
- High speed
- Fully automatic
- Robust in construction

Applications

- Trays
- Hinged container
- Hinged sweet box
- Tilligea Sweet
- Meal trays
- Electrical applications



MATERIAL UNWINDER SYSTEM

- Roll lifting system Pneumatic
- Able to work with double-roll
- Analog-controlled, non-stop roll opener
- Roll dia 1 meter or 600 kg can be loaded





PRE-HEATING SYSTEM

- 15 minutes in the preheating system with 30 kW hot air circulation capacity
- 25 minutes in the preheating system with 45 kW hot air circulation capacity

This is an oven which ensure high heat materials like PP to expand naturally before the plastic sheet enters into the thermoforming machine and its chain pins. This eliminates distortion on the sheet and reduces sagging.

FORMING STATION

- 4 Column servo motor group
- Servo-driven plug assist on top press (optional bottom)
- Forming by air pressure and/or vacuum
- Tool fixing system with electrical safety interlocks
- Clamp frame or plug assist on top and bottom of former
- Motorized mould height adjustment
- Pneumatic weight balancing system
- Log life, special needle bearings, gap less joints
- System for taking up the play between the nuts and shafts whilst in group motions
- Flow control sensor for cooling water



HOLE PUNCHING STATION

- Servo motor driven, top and bottom independent
- Individual motion control of stroke movement of top and bottom hole tables
- Motorized vertical adjustment of top table
- The motorized position adjustment of the station with rotary encoder
- Pneumatic weight balancing system
- Long-life, special needle bearings, gap less joints
- Vacuum device for hole-punching scraps

CUTTING STATION

- Servo motor driven, top and bottom independent
- Motorized precision cutting adjustment on top table by 0.03 mm/pulse
- Cutting knife heating (max 170c) and isolation plate
- Motorized cutting knives X-Y adjustment system with measurement by rotary encoder
- The motorized position adjustment of the station with rotary encoder
- Tool fixing system with electrical safety interlocks
- Pneumatic weight balancing system
- Long-life, special needle bearings, gap less joints
- System for taking up the play between the nut and shaft (very important for long knife life)







- The motorized position adjustment of the station with rotary encoder
- Electrically driven conveyor
- Variable working modes
- High-speed & more accurate stacking



INMOULD CUTTING THERMOFORMING MACHINE

WITH ROBOTIC PICK UP

- RRTFM thermoforming machine is the latest technology machine developed by RR Plast according to the market and customer demand
- PP, PS, PET, PLA, and Biodegradable material sheets can be formed
- Highly efficient and less maintenance
- Hygiene packing with the help of the robot
- Complete Turnkey solution provided -Sheet -> Thermoforming -> Mould -> Robotic Pickup -> Skeleton Crusher



DAIRY PACKAGING



PET GLASS



PLATES & BOWLS



HYGIENE PACKAGING LESS LABOUR COST	ELECTRICAL CONTROL PANEL	RRPLASTA*			
SKELETON WINDER		ROBOTIC PICKER	STAC	ARPLIST A	UNWINDER EATING TRAY

Model	Туре	Forming Area	Sheet Thickness	Running Load	Dry Cycle/min	Working Cycles/min Without Robot	Working Cycles/min With Robot
RRTFM 6535-3S Fully Servo Type	650 mm X 350 mm	0.3 mm to 2 mm	40 kW Max	60	PP up to 30	PP up to 20-25	
					HIPS up to 45	HIPS up to 20-25	
						PET up to 40	PET up to 20-25

Optional features:-

- Robotic stacker or Pellet/Belt conveyor type available
 AC for panel (Optional)
- Thermoforming moulds for PP, PS, and PET
- An in-line crusher can be provided

- Auto lubrication provided
- Baumüller Germany servo software used



ROBOTIC STACKER



PLC WITH TOUCH SCREEN



INMOULD CUTTING TFM MOULD



ROLL FEED CRUSHER

WITH BLOWER & SILO



Main Technical Parameters

Model (Skeleton Sheet)	RRSG-750/SK	RRSG-1000/SK	RRSG-1200/SK			
Application	Sheet Thickness 0.2-2 mm Thermoforming Skeleton / Sheet					
Output (kg) PP/PET (for HIPS 25% extra output)	200-300	400-500	550-700			
Motor (kW)	18.5	30	37.5			
Blade Width (mm/inch)	750 (30")	1000 (40")	1200 (48")			
Rotating Blades	3 + 3	3 + 3	3 + 3			
Fixed Blades	2 + 2	2 + 2	2 + 2			
Screen Size (mm)	12	12	12			
Blower Motor (kW)	2.25	3.75	3.75			
Silo (ltr)	500	500	500			

Note: The specification are subjected to change without prior notice

Sheet Skeleton Grinder Features:-

- Suitable to crush PP, PET, PS, ABS, and TPE material sheets
- The soundproof design ensures a low noise level
- Cutting chamber design ensures a low noise level
- Control nip feeding ensures continuous operation & consistent output
- High-quality material D2 is used for blades
- Inbuilt control panel with drive & relay provided
- Dust cyclone separators can effectively remove the air from regrind and facilitate the material collecting
- The cutting chamber made of high rigidity material, after processing by CNC machine, has features like high intensity, super wearability, no contamination, long service life, and easy maintenance and repair.



RRPLAST Extrusionline Front Runner

THERMOFORMING APPLICATIONS

AGRICULTURE PACKAGING







GRAPES PUNNETS



STRAWBERRY PUNNET

WATER & JUICE



WATER GLASS



JUICE GLASS



PACKAGED WATER CUP

FOOD DELIVERY PACKAGING



MEAL TRAY



BIRYANI BOX



SWEET PACKAGING

DAIRY PACKAGING



ICE CREAM CUP



YOGURT CUP



CHOCOLATE TRAY

BAKERY PACKAGING



CAKE CONTAINER



MACARONS TRAY



PASTRY PACKAGING

MEAT, FISH & EGG PACKAGING



MEAT TRAY



EGG TRAY



FISH TRAY

FAST FOOD PACKAGING



HOT DOG PACKAGING



FOOD PACKAGING



SANDWICH PACKAGING

DRY FRUIT & SNACKS PACKAGING



DRY FRUIT PACKAGING



SNACKS PACKAGING



FRIES, CHIPS & COOKIES

INDIAN AT HEART - GLOBAL IN SPIRIT



EXPORT TO MORE THAN 60 COUNTRIES



VENTED RECYCLING PLANT



DIRECT FEED RECYCLING PLANT



PP, PS SHEET LINE



ROTO COMPOUNDING PLANT

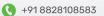




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