

THERMOFORMING SOLUTIONS

MULTISTATION PRESSURE FORMING MACHINE
INMOULD CUTTING FORMING MACHINE



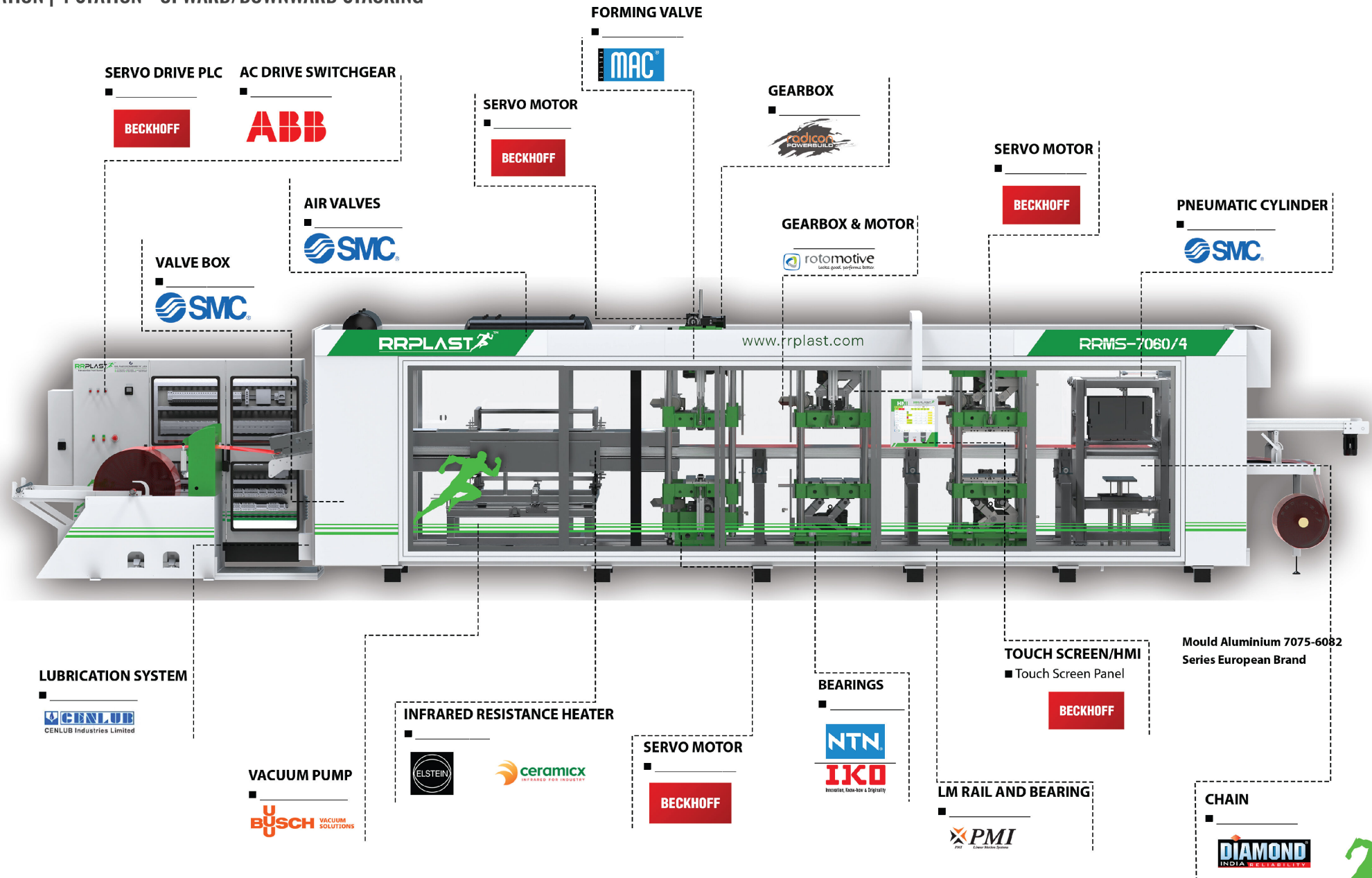
RRPLAST™

Extrusionline Front Runner



RR MULTI-STATION PRESSURE FORMING MACHINE

3 STATION | 4 STATION - UPWARD/DOWNWARD STACKING



RR MULTI-STATION PRESSURE FORMING MACHINE

3 STATION | 4 STATION - UPWARD/DOWNWARD STACKING

- Material: PP/PS/PET/PVC/PLA/Biodegradable
- Sheet Thick: 0.2 mm - 1.5 mm
- Max Sheet Width: 710 mm
- Forming Area: 700 mm X 600 mm
- Product Depth: Up to 130 mm
- Dry Cycle: 60
- Operation Cycle: Up to 30-40
- Running Power 55 kW

Characteristics

- Internally cooled chain rails made of special aluminum profile
- 150 m³ vacuum pump with oil level warning system located in a special cabinet outside of the main chassis
- Unwinder unit lifting capacity 12,000 kg able to work with double rolls
- Isolated, energy-efficient and high performance infrared ceramic heating elements (standard)
- Servo driven plug (standard)
- Motorized X-Y blade adjustment system (provided as standard)
- Extra long heating tunnel of 4 index (standard)
- Power control with load-cell (optional)



BAKERY PACKAGING

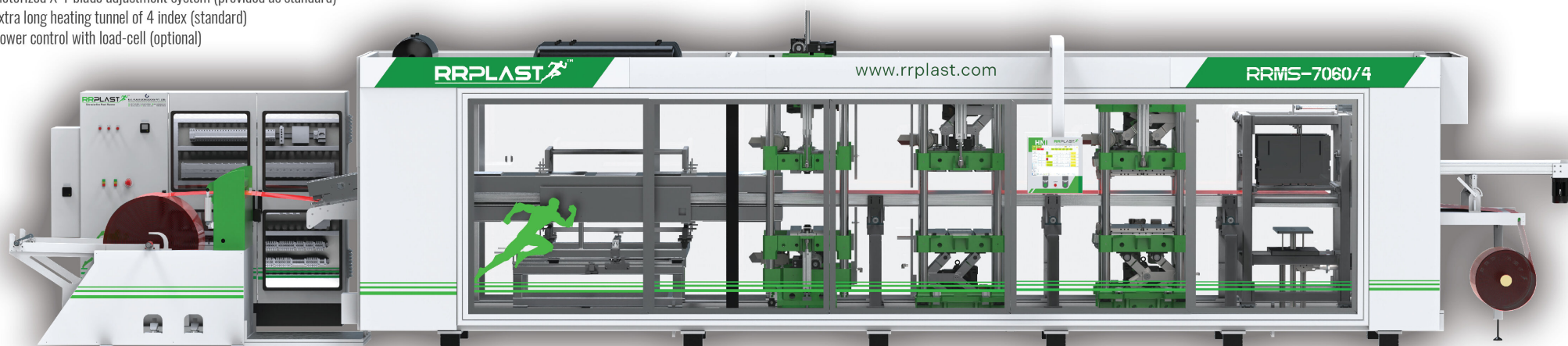


FRUIT PUNNETS



MEAL TRAY

RUNNING CYCLE SPEED 30-60 CYCLE/MIN FOR HINGED CONTAINERS
“Steel Rule Cutting Technology Forming Machine”



Main Technical Parameters

Technical Features	RRMS 7060 Four Station Pressure Forming Machine
Material to be Formed	PET/PP/PS/PLA/OPS/PVC
Sheet Thickness	0.2 mm to 1.5 mm
Max/Min Sheet Width	720/420 mm
Dry Cycles Speed	60 Cycle/min
Maximum Mould Dimensions	700 mm X 600 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	60 kW
Dimension of Machine(L*W*H m)	13 X 3 X 3 - 4 Station
	12 X 3 X 3 - 3 Station

Note: The specification are subjected to change without prior notice.

Clamping Force	Forming Station	60,000 daN
	Punching Station	75,000 daN
	Cutting Station	75,000 daN
Heating Power		84 kW
Total Installed Load		120 kW for 3 station 130 kW for 4 Station
Air Requirement		6-8 m³/min
Cooling Requirement		25,000 Kcal/h
Vacuum Pump Capacity		150 m³

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

MULTISTATION - INDIVIDUAL STATION



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



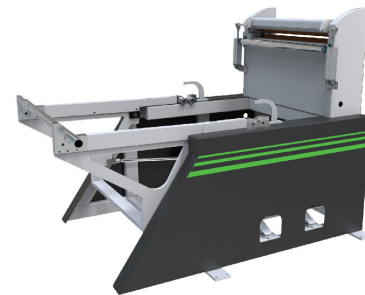
CUTTING STATION

- Servo motor driven, top and bottom independent
- Motorized precision cutting adjustment on top table by 0.03 mm/pulse
- Cutting knife heating (max 170°C) 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)



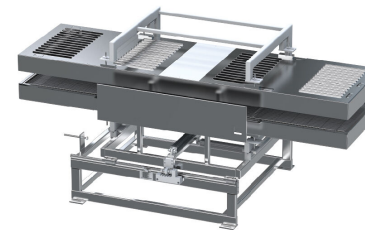
UPWARD STACKER UNIT

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



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.



ELECTRICAL CONTROL PANEL

- High quality components used for the electrical cabinet
- Air-conditioned cooling system
- Polycarbonate protection windows
- Easy handling with mobile system



INMOULD CUTTING PRESSURE FORMING 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

HYGIENE PACKAGING

LESS LABOUR COST

35
CYCLE/MIN
*

SKELETON WINDER

ELECTRICAL CONTROL PANEL
WITH PLC BASED TOUCH SCREEN

ROBOTIC PICKER

DIE PILLAR

HEATING TRAY

UNWINDER

STACKER CONVEYOR



DAIRY PACKAGING



PET GLASS



PLATES AND BOWLS

STACKING OPTIONS

ROBOTIC STACKER



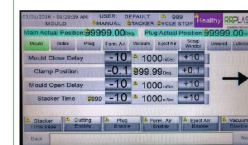
PALLET TYPE CUP STACKER



BELT TYPE CUP STACKER



PLC WITH TOUCH SCREEN



INMOULD CUTTING TFM MOULD



CUP AUTOMATIC COUNTING AND PACKING MACHINE



Main Technical Parameters

Model	Type	Forming Area	Sheet Thickness	Product Height	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	180 mm	40 kW Max	60	PP up to 30 HIPS up to 45 PET up to 40	PP up to 20-25 HIPS up to 20-25 PET up to 20-25
RRTFM 8060-3S	Fully Servo Type	800 mm X 600 mm	0.3 mm to 2 mm	180 mm	80 kW Max	30	18 - 22	Only with Robot

Note: The specification are subjected to change without prior notice.

Optional features:-

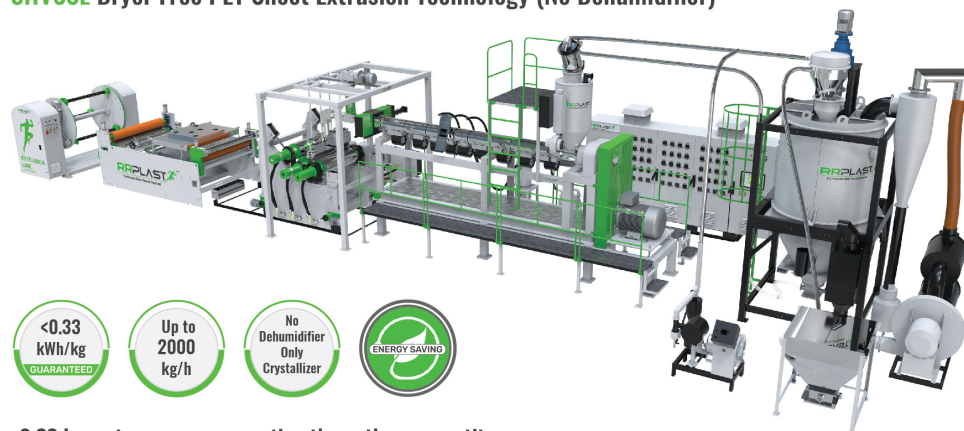
- Robotic stacker or Pellet/Belt conveyor type available
- Thermoforming moulds for PP, PS, and PET
- An in-line crusher can be provided
- AC for panel (Optional)
- Auto lubrication provided
- Baumüller Germany servo software used

R-PET, A-PET SHEET EXTRUSION LINE

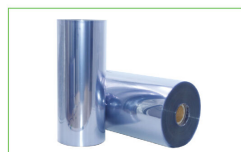
A-PET, PET-G, R-PET, PLA, PP, PS 3HVSSE Vented Dryer Free PET Sheet Extrusion Line

RR Plast developed 3 high vacuum single screw extrusion (3HVSSE) lines for PET sheets. This line is equipped with a 3-degassing system and no need for a dehumidifier unit.

3HVSSE Dryer Free PET Sheet Extrusion Technology (No Dehumidifier)



<0.33 Lowest energy consumption than other competitors



R-PET SHEET ROLL



WATER CUPS



PUNNETS FOR FRUIT/VEG

High-Quality Output from Recycled Material

Delivers crystal-clear R-PET sheets comparable to virgin PET, ideal for food-grade and thermoforming applications. 100% Recycled PET Capability - Enables full circular economy solutions by turning post-consumer PET into high-quality sheets

Main Technical Parameters

Model	Unit	90/45V3	100/45V3	120/45V3	120/45V3	150/45V3	160/45V3
Thickness of Sheet	mm	0.15-1.5	0.15-1.5	0.15-1.5	0.15-1.5	0.15-1.5	0.15-1.5
Co-Extruder		65/45V3	65/45V3	75/45V3	75/45V3	90/45V3	100/45V3
Main Motor Power	kW	75 & 30	90 & 30	160 & 55	200 & 55	250 & 90	355 & 90
Sheet Width	mm	800/1000	800/1200	1000/1600	1000/1600	1400/1800	1600/1800
Output 1-Layer	kg/h	400	600	800	1000	1200	1600
Output 3-Layer	kg/h	500	750	1000	1250	1500	2000

Note: The specification are subjected to change without prior notice

PP, PS ECO-EFFICIENT SHEET EXTRUSION LINE

RR Plast developed Eco-efficient single screw extrusion line to save Power, Space, and Less residence time.

Unique features: -

- 50% More power saving than a standard extruder
- 50% Space saving compared to standard machine
- 50% Less material residence time in the extruder
- Monolayer/Multilayer sheet extrusion possible
- Sheet Extrusion output from 300-1500 kg/h for PP, PS based on the raw material of a uniform mix with a minimum bulk density of >400 gm/L

**50%
POWER SAVING**

Energy Saving

@500 kg/h - PP - 22,880 unit (kWh/kg) saving per month
@1000 kg/h - PP - 45,760 unit (kWh/kg) saving per month



ECO-EFFICIENT EXTRUDER

PP Sheet - 0.22 kWh/kg

PS Sheet - 0.20 kWh/kg

VS

CONVENTIONAL EXTRUDER

PP Sheet - 0.33 kWh/kg

PS Sheet - 0.26 kWh/kg



SHEETS FOR FFS PRODUCTS



MICRO-OVEN PRODUCTS



DAIRY PACKAGING

Main Technical Parameters

Model	Unit	65/33-1000 (ECO)	75/36-1000 (ECO)	90/36-1000 (ECO)
Sheet Thickness	mm	0.3-2	0.3-2	0.3-2
Sheet Width	mm	700-900	700-900	700-900
Motor	Kw	75	110	160
Output (PP)	kg/h	300-350	500-600	700-800
Output (HIPS)	kg/h	300-400	600-700	900-1000

Note: The specification are subjected to change without prior notice

100/30-1000	120/30-1000
0.3-2	0.3-2
800-1000	800-1000
90	160
300-350	500-600
350-450	600-700

VERSUS

INMOULD THERMOFORMING TOOLS

SINGLE STATION CUP MOULDS



Ø 69 X 32



Ø 80 X 21



Ø 120 X 8



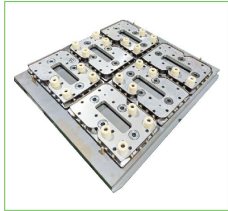
PP CUPS

MULTISTATION PRESSURE FORMING MACHINE MOULD

PET HINGED BOX MOULDS



FORMING



CUTTING



STACKING



HINGED BOX

PP MEAL TRAY MOULDS



FORMING



CUTTING



STACKING



MEAL TRAY

PET/PP LID MOULDS



FORMING



CUTTING



STACKING



LIDS

THERMOFORMING APPLICATIONS



GRAPES PUNNETS



STRAWBERRY PUNNET



SWEET PACKAGING



TOFFEE & COOKIES



MEAL TRAY



ROUND FOOD CONTAINERS



FOOD PACKAGING



DHOKLA PACKAGING



DAIRY CUPS



YOGURT CUP



JUICE GLASS



COOKIES & SNACK



EGG TRAY



MEAT TRAY



MUSHROOM TRAY



TOMATO PACKAGING



MULTI COMPARTMENT BOX



CREAM ROLL BOX



SNACKS BOX



MAYONNAISE/SAUCE

AGRICULTURE PACKAGING PUNNETS
FOOD DELIVERY PACKAGING CONTAINERS
BAKERY PACKAGING CONTAINERS
DRY FRUIT AND SNACKS PACKAGING CONTAINERS

WATER AND JUICE GLASSES
DAIRY PACKAGING CUPS
MEAT, FISH AND EGG PACKAGING TRAY
FAST FOOD PACKAGING CONTAINERS

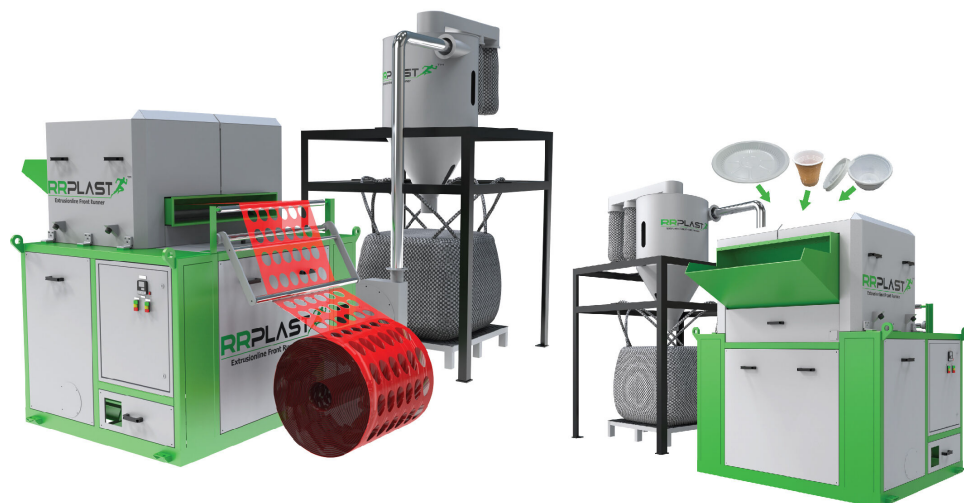


ROLL FEED CRUSHER

WITH BLOWER AND SILO (OFFLINE / INLINE USE)

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.



Main Technical Parameters

Model (Skeleton Sheet)	RRSG-750/SP	RRSG-1000/SP	RRSG-1200/SP
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 (litr)	500	500	500

Note: The specification are subjected to change without prior notice

SERVING CUSTOMERS GLOBALLY

3500+ INSTALLATIONS

78+ COUNTRIES

44+ YEARS

WORLD WIDE INSTALLATIONS



Machine Selection Criteria:-

Material: PET ☐ PP ☐ PS ☐ PLA ☐ Biodegradable ☐

Sheet Width: mm - Min & mm - Max Thickness Range: mm - Min & mm - Max

Layer: Mono Layer ☐ Two Layer (A-B) ☐ Three Layer (A-B-A or A-B-C) ☐
Four Layer (A-B-C-B) ☐ FIVE Layer (A-B-C-B-A) ☐ Seven Layer (A-B-C-D-C-B-A) ☐

Output Range: 300-500 kg/h ☐ 500-700 kg/h ☐ 700-1000 kg/h ☐
1000-1500 kg/h ☐ 1600-2000 kg/h ☐

Applications: Food Packaging ☐ Dairy Product ☐ Thermoforming ☐ Vacuum Forming ☐

Product: Provide us Drawing, Image, Sample for better understanding.

Remarks: _____

Note: Select each criteria and email us at info@rrplast.com



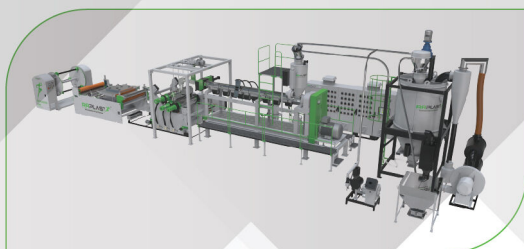
INDIAN AT HEART - GLOBAL IN SPIRIT

EXPORT TO MORE THAN 78 COUNTRIES

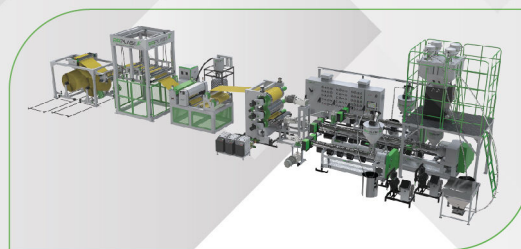


24,000 m² STATE OF THE ART FACTORY AT ASANGAON, THANE, INDIA 

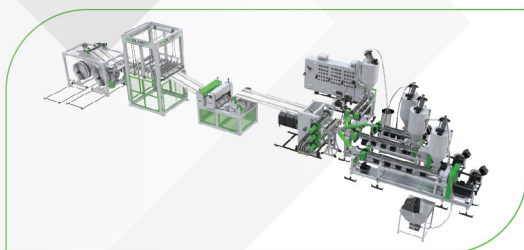
OTHER PRODUCT RANGE OFFERED BY RR PLAST EXTRUSIONS:-



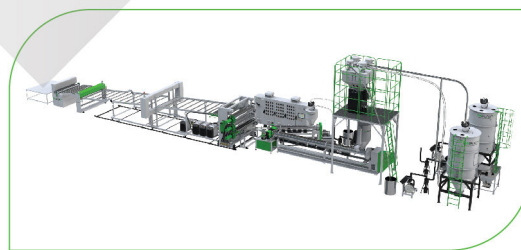
PET, PLA SHEET LINE



PP, PS SHEET LINE



MULTILAYER BARRIER SHEET LINE



ABS, HIPS, PMMA SHEET LINE

RRPLASTTM
Extrusionline Front Runner

44
YEARS OF INNOVATION

R.R. Plast Extrusions Pvt. Ltd.

Manufacturer & Exporter of Plastic Extrusion Machinery & Equipment

 **Head Office:** 403/404, 4th Floor, Dilkap Centre, Sakinaka, Andheri - Kurla Road, Andheri (E), Mumbai, Maharashtra, India, Pin - 400072

 **Factory:** Survey No. 164/4, 12/1, NH-3, Behind Hotel Pariwar Garden, Village Asangaon (W), Shahapur, Thane Maharashtra, India, Pin - 421 601

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