

# **YMR PLAST PVT. LTD.**

Excellence In Industrial Machine Manufacturing

**INOVATING  
THE FUTURE**

GSTIN:-08AABCY5697B1Z2

[www.ymrplast.com](http://www.ymrplast.com)

YMR PLAST is a pioneering force in the world of industrial machinery, specializing in custom solutions for a wide range of industries. With a rich portfolio including Sheet Fed Heavy Gauge Thermoforming Machines, Special Purpose Vacuum Forming Machines, and more, we are dedicated to pushing the boundaries of technology and innovation.

Our commitment to precision and excellence extends to every project we undertake, from crafting cutting-edge HEATER OVEN systems to creating advanced solutions like SINGLE/DOUBLE SKIN PACKING & BLISTER FORMING MACHINES for the automotive sector. With a track record of Hydraulic and Servo Thermoformers, Extrusion sheet lines, and more, we pride ourselves on our unwavering dedication to delivering state-of-the-art machinery and reliable equipment.

At YMR PLAST, we're not just a manufacturer; we are your strategic partner for industrial advancement, providing the tools and expertise you need to thrive in your industry.



## **Mission:**

We are dedicated to engineering excellence, pioneering innovative machinery solutions that enhance industrial processes while ensuring our customers' success through tailored equipment that drives efficiency and productivity.



## **Vision:**

Our vision is to be the cornerstone of technological progress in diverse sectors, setting the standard for cutting-edge, dependable machinery and advancing industry through reliability and innovation.



# Our Projects

## Sheet Fed Heavy Gauge Thermoforming Machines

Model-YMR -SHGT- 01

### Closed Chamber Design | Tailor Made | Automation Options

YMR specializes in custom-built single station thermoforming machines, utilizing a closed chamber design for precise thermoplastic sheet control. Our machines range from compact to XXL sizes (1180x1000 mm to 4500x2500 mm) and can be equipped with automation for enhanced efficiency.



### Features:-

- Robust machine design for extended machine lifespan.
- Customized parametric machine design based on customer requirements.
- Electrical panels comply with CE/UL guidelines and use certified components.
- Flexible machine movements with electric servo motor and pneumatic cylinder options.
- Heater oven design includes IR ceramic/quartz/flash elements with zone control.
- User-friendly HMI for easy parameter configuration.
- Dual-level safety measures with electric and pneumatic locking, light guards, & interlocks.

### Technical Specifications:-

#### Max Forming Area (in mm)

L-1000 | 1200 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 4800

W- 800 | 1000 | 1200 | 1500 | 2000 | 2500

#### Max Tool Height (in mm)

400 | 500 | 650 | 750 | 1050

All machines are custom built and tailor made as per customer's requirement using parametric design.

## Heater Oven – Zone Controlled Heating

### Infrared (IR) Ceramic Type

Our Heater Oven features Zone Controlled Heating, allowing precise temperature control for optimal thermoforming performance and product quality. It utilizes advanced IR ceramic and quartz elements to ensure even heating throughout the process.



### Features:-

- **Zone Control:** Precisely regulates temperature for consistent thermoforming.
- **High-Quality Elements:** Uses advanced IR ceramic and quartz elements.
- **Efficient:** Maximizes energy efficiency for cost savings.
- **Customizable:** Easily adjust heating settings to meet specific needs.
- **Quality Results:** Ensures high-quality, evenly formed products.

### Applications:-

**Automotive:** Passenger and Commercial Vehicles, Agriculture & Earth Moving Equipment, Lightweight Electric Vehicles, Interiors of Buses, Railway Interiors, Aircraft Interiors, Bedliner of Pickup Trucks.

**Industrial & Equipment:** Renewables - Windmill Nacelle, Material Handling Pallets, Gym Equipment Covers, Motor Covers.

**Household & Interiors:** Refrigeration Liners, Whitegoods, Signages, Sanitary-ware Bathtubs, Jacuzzi Spas & Shower panels, Chemical Toilets, Skylights, Automats/Car mats.

**Specialized Applications:** Medical Device Covers, Luggage, Mobile Robot coverings.



## (SPM) Special Purpose Vacuum Forming Machine

### Model-YMR -SPM S

Vacuum forming, a simple plastic thermoforming method, shapes one side efficiently, while vacuum casting precisely duplicates plastic parts with silicone molds and depressurization, often using polyurethane (PU) resins to mimic real materials.



### Technical Specifications:-

Forming Area ( Max.)	Customise	Heating Control	Individual Four Heater Zone controlled by PID/PLC
Forming Area ( Min.)	1400 MM X 1800 MM		
Sheet Size ( Max.)	As Per Mould Size	Heating Element	Ceramic Heater / Tubular Heater
Max. Forming Depth	700 MM	Vacuum Pump	With Vacuum Tank
Max. Tool Load Capacity	30 Kgs to 450 Kgs.	Compressed Air Required	Approx. 7 kg/cm <sup>2</sup>
Forming Method	Vacuum Forming	Pneumatic Cylinder	Make Janatics
Sheet Thickness	1 mm to 4 mm.	Motor	Crompton / ABB
Material Used	PC, ABS, PP, HIPS	Switches / Contactors	L & T
Average Cycle Time	30 Sec.to 5 Min.	Limit Switch	Siemens
Heating Method	Top & Bottom Heating (as per rqd.)	Blowers	Industrial Type

## Technical Specifications:-

### Max Forming Area (in mm)

L-1000 | 1200 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 4800

W- 800 | 1000 | 1200 | 1500 | 2000 | 2500

### Max Tool Height (in mm)

400 | 500 | 650 | 750 | 1050

## Applications:-

**Turbo Base Plate for Roofing:** Enhance roofing efficiency with our Turbo Base Plate.

**Packaging and Displays:** Elevate product presentation through captivating displays.

**Consumer Goods:** Elevate consumer products with precision manufacturing.

**Medical Solutions:** Deliver precision and innovation in medical solutions.

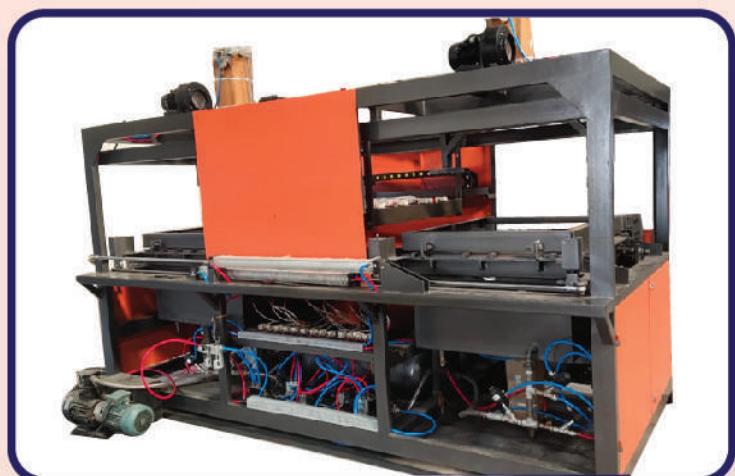
**Toy Industries:** Bring dreams to life with our tailored toy solutions.



## Brief Case Cell Vacuum Forming Machine

### Model-YMR -L1

This machine excels in processing ABS, PC, and recycled materials for high-quality luggage/trolley case shells. The YMR L1 series offers automatic operation, dual heating, and smart PLC control, with customization options available.



## Technical Specifications:-

Forming Area (MAX)	Customized	Heating Control	Individual Four Heater Zone controlled by PLC
Forming Area (Min)	Can make 20" 24" 28" cell size		Ceramic Heater/Tubular Heater
Electric Load	30 Kw. Aprox	Heating Element	Ceramic Heater/Tubular Heater
Max. Forming Depth	300mm.	Vacuum Pump with Air Tank	With Air Tank 1000 LMV
Sheet Thickness	1mm to 4mm.	Compressed Air Required	10 HP,
Material Used	PC, ABS, PP, HIPS,	Pneumatic Cylinder	Make Janatics
Average Cycle Time	30 Sect to 1 min.	Mould Cooling	Air Colling
Heating Method	Top & Bottom Heating	Wight	2500 KGS.(Approx)

## Features:-

Plastic Type:	ABS, PC, PE, PP, Sheets	Product Type:	Luggage Forming
Automatic:	Yes	Luggage Size:	20", 24", 28"
Heating:	Electric	HS Code:	8477209000
Machine Name:	Luggage Case Vacuum Forming Machine (auto Type)	Forming Speed:	48-50 Seconds For 2 Shells
Working Position: 2 Stations			

## Applications:-

It is perfect for efficient luggage shell production, accommodating various materials like ABS, PC, PP, and PS. Trusted by industry leaders like VIRAGE, NOVEX luggage and Ambassador, it's known for superior quality and user-friendly automation.



**MADE IN INDIA**

# Plastic Tray Vacuum Forming Machine



## Model-YMR-PTVF

Our Plastic Tray Vacuum Forming Machine crafts precision-molded plastic trays with efficiency and precision, meeting diverse industry needs.

### Features:-

**Precision Molding:** Craft precision-molded plastic trays efficiently.

**Versatile Applications:** Suitable for various industries, meeting diverse needs.

**Efficient Production:** Optimizes production processes for increased efficiency.

**High-Quality Output:** Ensures high-quality, precisely molded plastic trays.



### Technical Specifications:-

Automation Grade	Automatic PLC controlled	Length	3.2mtrs
Frequency	50hz	Maximum Speed	20-25 strokes per minute
Body Material	CRCA Pipes,BMS flats and bars,CRCA	Phase	3
Power Consumption	11kw.	Temperature Controller	PID/PLC controlled digital temperature controller
Air Pressure	7 kg per sq cm. Continuous	Voltage	415 V
Forming Area	700 MM X 800 MM	Weight	800 kg
Driven Type	Pneumatic	Warranty	1 Year
Heater	Infrared Ceramic Heaters		
Height	1.5mtrs		

### Applications:-

The Plastic Tray Vacuum Forming Machine finds applications in various industries, including packaging, food service, and medical, where precision-molded plastic trays are essential for organizing, protecting, and presenting products. Its versatility serves diverse needs, offering efficient and high-quality solutions for various sectors.



## Automatic Vacuum Forming Machine - Double Station

Model-YMR-AVF M

This Machine is designed for efficient, high-output production. It offers dual-station capabilities, ensuring increased productivity and versatility. Tailored for precision, it's suitable for various industries.



### Technical Specifications:-

Model / parameter	YMR-AVF M (with PLC)	Sheet thickness (mm)	0.-3.00
Adapt to material	PP, PS, PET, PVC, PE, ABS	Electric furnace specifications (kw)	18
Vacuum forming area (mm)	W610 * L560	Electric furnace control	Delta, automatic furnace transfer
Forming depth (mm)	max.150	Vacuum pump	2 HP
Forming speed (cycles / min)	8-30	Requires air pump (HP)	10 HP
Sheet width (mm)	max.600	Mechanical weight (kg)	About 1.5 T

### Features:-

**Efficient Dual-Station:** Low-cost, high-output production for both sides.

**Precise Temperature Control:** Stable regulation with far-infrared heating and digital display.

**Durable Stainless Steel:** Prevents rust and iron filings for longevity.

**Speedy Cooling:** Reinforced system accelerates production with stability.

**Rapid Molding:** Vibration demolding and automation for fast, consistent results.

**Optional PLC:** Enhance intelligence and automation capabilities.

## Applications:-

Packaging, Automotive, Medical: Versatile precision molding for diverse industries.



## Single/double Skin Packing & Blister Forming Machine

### Model-YMR-SDS

YMR offers semi-automatic Skin Packaging Machines in various sizes, purpose-built for secure skin-type packaging. Unlike adapted vacuum forming machines, our design eliminates the need for molds or dies. The process encases products in a clear PVC film, securely affixing them to pre-adhesive coated support cards.

### Applications:-

- Automotive parts (Gasket, Oil Seals)
- Engineering parts (Compressor parts & Bearing tools)
- Electrical and Electronic components
- Computer parts
- Hardware items
- Kitchen ware
- House hold items
- Gift articles
- Cream cup
- Drinking glass
- Tea & coffee cups
- Plastics roof tiles
- Disposable soap boxes
- Liquor bottles



## Technical Specifications:-

Forming Area	450MM X 610 MM	Motor	2 HP Make – ABB/HAVELS
Electricals & Switch	Make - SCHNIDER	Limit Switch	Make - OMRON
Vacuum Pump	500 LMV	Heater Moving	Pneumatic Cylinder
Heat Control	PID	Frame Moving	Pneumatic Cylinder
Electric Load	10 kw.	Cylinder Operation	Pneumatic Valve Control
Sheet Thickness	1.5 to 2 mm.	Machine Dimension	L-96" x W-72" x H-60"
Material Used	HIPS, PVC, ABS, PET	Machine Weight	1600 Kgs. ( Approx.)
Pneumatic Cylinder	Make - Janatics	Maximum Draw	100 mm.
Machine Operate	Timer Make - SELEC	Machine Doors, Frame & Parts	Powder Coated
Heating Element	Tubular Air Heater - ISI Make		



## Thermoforming ++ Solutions For Automotive Industry

Model: : YMR AUTOMOTIVE XL

YMR offers Thermoforming Solutions for the Automotive Industry, creating interior parts such as instrument panels and door panels. Our XXL thermoforming machine, with a max forming area of 4500 x 2500 mm is used for specialty vehicle manufacturing, including ambulances and fire trucks.



## Technical Specifications:-

Forming Area	4500MM X 2500 MM	Heating Element	Tublar Air Heater - ISI Make
Electricals & Switch	Make - SCHNIDER	Motor	2 HP Make – ABB/HAVELS
Vacuum Pump	3500 LPM	Limit Switch	Make - OMRON
Heat Control	PLC Cantrol	Heater Moving	Pneumatic Cylinder
Electric Load	80 - 150 kw.	Frame Moving	Pneumatic Cylinder
Sheet Thickness	1.5 to 6 mm.	Cylinder Operation	Pneumatic Valve Control
Material Used	PC HIPS, PVC, ABS, PET	Machine Weight	2000 Kgs. ( Approx.)
Pneumatic Cylinder	Make - Janatics	Maximum Draw	700 mm.
Machine Operate	Timer Make - OMRON	Machine Doors, Frame & Parts	Powder Coated

## Applications:-

YMR's Thermoforming Solutions for the Automotive Industry are ideal for crafting interior components like instrument panels, door panels, IP-mid panels, DP-topper, arm-rests, and A/B pillars. Additionally, our XXL thermoforming machine caters to specialty vehicle manufacturing, producing parts for ambulances and fire trucks.

Automotive - Passenger and Commercial Vehicles, Agriculture & Earth Moving Equipment, Lightweight Electric Vehicles, Interiors of Busses, Railway Interiors, Aircraft Interiors, Refrigeration Liners, Whitegoods, Renewables - Windmill Nacelle, Signages, Luggage, Sanitary-ware Bathtubs Jacuzzi Spas & Showerpanels, Chemical Toilets, Material Handling Pallets, Gym Equipment Covers, Motor Covers, Medical Device Covers, Skylights, Automats / Car mats, Mobile Robot coverings, Bedliner of Pickup Trucks .



# Automatic Vacuum Forming Machine

## Model: YMR -VAVFM

YMR specializes in manufacturing Automatic Vacuum Forming Machines designed for the packaging industry. These multi-station machines offer Form-Cut-Stack capabilities with pressure forming for efficient production.



## Technical Specifications:-

Forming Area	600 x 600 mm.	Solid Stay Relay (SSR)	Make - Unisons
Chain Movement	Gear Box with Motor	Material Used	HIPS PVC, PET
Gear Box & Motor	Make - Bonvario	Electronic & Electrical Item	Make L&T
Safety Devices	Emergency Switch on Front Panel	Heat Control	PID/PLC - 8 Nos, Make - Select & Uidian
Vacuum Pump	600 LPM with Vacuum Tank	Electric Load	20 kw.
Heating Elements (24 Heaters)	Ceramic, Make - Hi Heat England	Running Load	15 kw.
Heater Moving	UP & DOWN	Machine Dimension	L-100" x W-52" x H-64"
Motor - 2 HP	Make - ABB	Control Panel Dimension	L-16" x W-36" x H-50"
Chain	Make - Diamond	Machine Weight	1500 Kgs Approx
Pneumatic Cylinder & Valve	Make - Janatics	Machine Doors, Panel, Parts	Powder Coated

## Applications:-

- ▶ Fruit packaging
- ▶ Vegetable packaging
- ▶ Food Packaging
- ▶ Meal Trays
- ▶ Bakery & Confectionary Containers
- ▶ Dairy Containers
- ▶ Retail Trays
- ▶ Material Handling
- ▶ Medical Packaging
- ▶ Electronic Packaging



## Hydraulic And Servo Thermoformers

**Model: YMR-HS TFM**

YMR's latest thermoforming and vacuum forming machines feature fully automatic Servo-controlled PLC systems and robust hydraulic systems. They excel in crafting disposable kitchenware such as glasses, plates, and trays from materials like PP, PET, and foam PS. These machines prioritize safety with infrared heaters, solid-state relays, and central lubrication, offering low maintenance for trouble-free, extended operation.



## Applications:-

### Food Packaging:

- ▶ Cups
- ▶ 4-5 Compartment Plates
- ▶ Hinge Lid Containers for Fast Food
- ▶ Lids for Food Trays
- ▶ Egg & Biscuit Trays
- ▶ Meat Trays
- ▶ Pennets and Trays for Fruit Packaging

### Other Packaging:

- ▶ Pharmaceutical Packaging
- ▶ Clamshell Blister Packaging
- ▶ Cosmetic Packaging

### Drinkware:

- ▶ Plastic Glasses and Cups

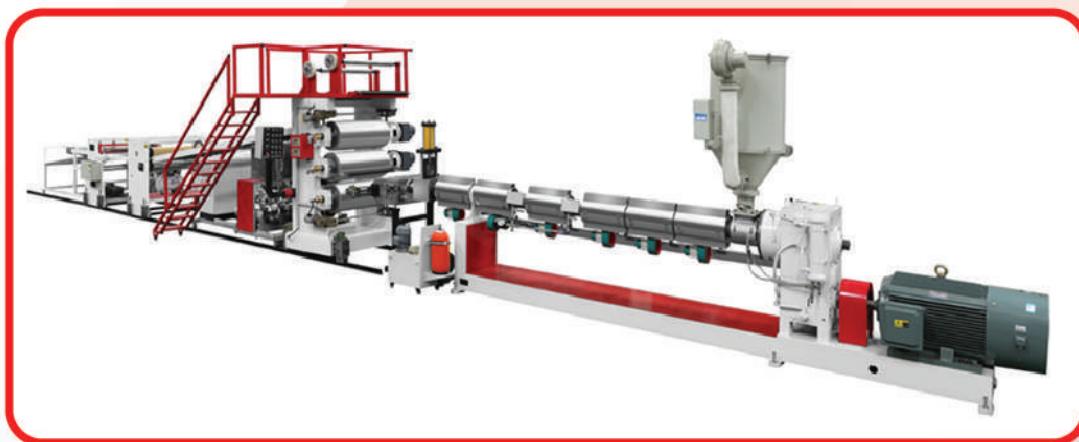


## Extrusion sheet line

**PP/PC/ABS Sheet Extrusion Machine:** Produces PP and PC sheets for thermoforming, packaging, and stationery industries, & roofing industries including transparent, dull polish, and two-color options.

**YMR PC Sheet Production Line:** Offers PC endurance boards for diverse applications, from gardens to roofing and decorative purposes.

**ABS Sheet Extrusion Machine:** YMR's PP/PC/ABS Sheet production lines cater to refrigerator and freezer components like door liners, inner liners, drawers, and water trays.



## Technical Specifications:-

Model	YMR-130/38V-2400	YMR-120/38V-1400
Material	PP/PC/ABS	PC, PMMA, GPPS
Sheet Width	1220/2100	600/800/1220 mm
Sheet Thickness	1.5-10	1.5-10
Extruder Specification	130/38; 45/30	120/38
Capacity (Max.)	500	400

## ABS Double Layer Sheet Extruder for luggage

### Technical Specifications:-

Model	YMR-3XE	Weight	10T
Plate thickness	1-4MM	Overall Dimension	16500*5200*3300MM
Plate Width	1-900MM	Total Power	100KW
Yield	210-230 KG/HR		



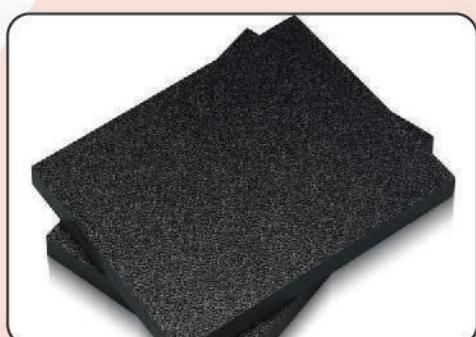
### Features:-

Multi-Layer Extrusion: Produces plastic sheets using ABS, PC, and alloys.

Trolley Bag Focus: Specifically designed for the trolley bag industry.

### Applications:-

Luggage Components: Tailored for manufacturing luggage components, ensuring quality and durability.



## Hydraulic Punch Cutting Machine

Our Hydraulic Punch Cutting Machine offers precise and efficient cutting solutions for various applications.

### Technical Specifications:-

MODEL	STF-HPC
Cutting Plate Capacity (Force)	600 x 600mm.
Double Drive	40 to 50 Ton Two side Operate
Electrical Load	5 HP
Electrical Circuit	MCB Make Havells
Motor	Make-ABB
Oil Tank Capacity	100 Ltrs.
Machine Weight	1200 Kgs (Approx.)
Machine Size	L-71" x w-50" x H-81"



## Automatic Bilster Sealing Machine

Our Automatic Blister Sealing Machine ensures secure and efficient sealing for a wide range of packaging needs.



### Technical Specifications:-

Model	YMR-ABS	YMR-ABS
Sealing Area	14" x 18"	18" x 20"
Heating	Digital Controller Based	Digital Controller Based
Cylinder Operation	Pneumatic Make Janatics	Pneumatic Make Janatics
Overall Load	3 kw.	5 kw.
Dimensions	L-50" x W-30" x H-62"	L-56" x W-36" x H-62"
Heaters	Plate Heaters	Plate Heaters
Digital Timer	Make Selec	Make Selec
Safety Devices	EMG Switch on Front Pane	EMG Switch on Front Pane
Machine Doors, Control Panel	Powder Coated	Powder Coated
Operation	Automatic & Manual	Automatic & Manual
Stroke Control	Limit Switch & Digital Timer Base	Limit Switch & Digital Timer
Moving Mould System	Manual	Manual
Weight	600 Kgs. (Approx.)	800 Kgs. (Approx.)
Air Compressor Required	3 HP	5 HP

# Automatic Aluminium Foil Food Container Machine



## Technical Specifications:-

MODEL	YMR-SFM	Control Panel	PLC
Suitable Foil Thickness	32-28 Micron	Foil Quality Sheet Cavity	8006 JINDAL Make
Container Size	120ml. to 650 ml.	Foil Width (Maximum)	220 mm.
Capacity	40 to 50 Container /Minute (Single)	Machine Dimension	L-84", W-48", H-108"
Power Consumption	3 Kw., Three Phase / Single Phase	Machine Weight	2000 Kgs. (Approx.)
Sheet Feeder	Mechanical/Pneumatic		

## Features:-

**Efficiency:** Provides rapid and efficient production of food containers.

**Versatility:** Can work with various aluminum foil materials, catering to diverse needs.

**High-Quality Output:** Ensures durable and secure food containers for safe packaging and storage.

## Applications:-

**Food Packaging:** Ideal for producing aluminum foil food containers for storage and takeout.

**Catering and Restaurants:** Meets the needs of catering services, restaurants, and food delivery businesses.

**Material Versatility:** Accommodates different types of aluminum foil materials.

## Reprocessing Machine

### Model: YMR- RM

Efficient waste plastic regeneration machine with quick hydraulic screen changer, automatic temperature control, and adjustable speed motor for HDPE, LDPE, PP, PC, etc. High output, steady performance, and economic benefits with excellent venting and plasticization.



### Technical Specifications:-

Model	Extruder 90	Extruder 100	Extruder 110	Extruder 120	Extruder 150
Production (kg/hr)	70-100	110-140	150-175/200-225	200-22-/250-300	400-500
Diameter of screw (mm)	90	100	110	120	150
Main motor (kw)	30	55	75	110	160
Heating Load (kw)	15	18	22	32	40
Hydraulic Screen Changer (Inch/HP)	8/3	8/3	8/3	10/5	10/5
L/D Ratio	33:1	33:1	33:1	30:1	30:1
Heating Zone	6	7	10	10	14
Rotating Speed	50-70	50-70	50-70	50-70	50-70

Materials that can be processed from this plant : PP, LD, HD, PE, HIPS, PS, ABS, PMMA, PC, PA and all types of engineering plastic.

## Lumps Extruder Machine

### Model: YMR- LUMPS

As a premier manufacturer in India, we specialize in high-quality Lumps Extruder Machines and plants, with our PP/HDPE reprocess machinery offering a cost effective solution for transforming plastic and raffia wastes into quality ropes, molded components, and yarns.





## MANUFACTURING AND INSTALLATION OF:-

Sheet Fed Heavy Gauge Thermoforming Machines, SPM) Special Purpose Vacuum Forming Machine, Plastic Tray Vacuum Forming Machine, Automatic Vacuum Forming Machine - Double Station, Single/double Skin Packing & Blister Forming Machine, Thermoforming ++ Solutions For Automotive Industry, Automatic Vacuum Forming Machine, Hydraulic And Servo Thermoformers, Extrusion sheet line, Hydraulic Punch Cutting Machine, Automatic Bilster Sealing Machine, Automatic Aluminium Foil Food Container Machine

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