

Plant  
Machinery



Auxiliary  
Machinery



Plant  
Upgradation



Spare &  
Consumable



 **Heaven<sup>TM</sup>**  
**extrusions**  
Extrusion >> Expertise >> Excellence

*In Order to carry a positive action  
We must develop a positive vision*

# RAFFIA TAPE STRETCHING LINE



HEAVEN offer complete tape stretching line with output capacity up to 350 kg/hr. Our plants are fully automated with highest control technology. We manufacture the plant as per customer's specific requirements with gives 100% satisfaction to our valuable customers. our expertise in energy saving gives our plant to produce tapes at minimum power consultant, we offer highest PPR (Pre-Performance Ratio) with lowest capital investment. That means minimum payback period & nearest breakeven point. We also offer performance guarantee.

Next generation tape stretching lines from HEAVEN for manufacturing of PP/HDPE flat tapes, fibrillated tapes and serrated tapes for many applications like... Woven / Knitted Sacks/Bags, Tarpaulins, FIBC (Jumbo Bags), Wrapping Fabrics, Ropes, Sewing threads, Carpet backing, Geo and Agro Textile and more...

We deliver all four aces to our customer for their guarantees win.

1. Minimum maintenance cost
2. Minimum energy consumption per kg.
3. Minimum running cost per kg.
4. Minimum investment per kg. output capacity

## Application

- Fertilizer Bag
- Paper | Textile Bag
- Chemicals Bag
- Sugar Bag
- Bird Feed | Dog Feed | Cat Feed | Horse Feed | Bird Seeds
- Cement Bag
- Flour food bag
- Rice Bag
- Fruits & vegetable etc.
- Tarpaulin for monsoon sheds
- General purpose packing bag
- Packaging of Onions | Potatoes | Garlic | Groundnuts

## Technical Specification

Raffia Tape Stretching Line	HE - TSL 70-150	HE - TSL 75-200	HE - TSL 80-250	HE - TSL 90-350
Screw Die (mm)	70	75	80	90
L/D Ratio	32:1	32:1	32:1	32:1
Die Width (mm)	800	900	1100	1300
Max. Output PP (Kg/hr.) HDPE	150 / 135	200 / 170	250 / 230	350 / 315
Mani Drive	45 kw	56 kw	75 kw	110 kw
No. of cheese winder	130 nos	150 nos	180 nos	220 nos
Max. line speed (mpm)	280	280	350	350
Total connected load with inverter winder	149.77 kw	181.37 kw	206.07 kw	293.72 kw
Tape plant dimension with winder (mm)	25152 (L) 3925 (W) 5280 (H)	2575 (L) 3925 (W) 5280 (H)	27435 (L) 3925 (W) 5280 (H)	28825 (L) 3925 (W) 5380 (H)

# EXTRUSION COATING LAMINATION PLANT

HEAVEN multi-function coating laminating machine is developed contiguously by ourselves, based on our production experience of more than fifteen years. It is characterized by advanced technique, reliable quality, easy to operate and high automation which is used widely in the industries of chemical, petrochemical, cement, sugar, salt, grain and wheat, animal feed, commodity items, metallurgy and mining and general purpose packaging, storage and transportation of many kinds of material. The line uses PP or PE as raw material, through the flow-casting coating and lamination technology, achieving single-sided/double-sided coating or paper-plastic lamination with substrate (plastic woven fabric) to produce coated or laminated products.



## Technical Specification

Sr. No.	Model	Screw Size (mm)	Die Width (mm)	Coating Thickness Range in Micron	Max Line Speed MT/MIN.	Max Prod. Capacity (KG/HR.)	Total Connected Load (KW)	Main Drive (HP)	Polymer to be Processed	Over All Dim. L x W x H
1	HEL/1200	70	1200	10 to 75	120	120	62	25	LDPE/PP	30 x 15 x 15
2	HEL/1650	75	1650	10 to 75	120	150	78	30	LDPE/PP	40 x 16 x 15
3	HEL/2200	80	2200	10 to 75	100	180	86	40	LDPE/PP	40 x 20 x 15
4	HEL/2600	90	2600	10 to 75	80	200	98	50	LDPE/PP	40 x 20 x 15
5	HEL/3250	90	3250	10 to 75	80	220	105	50	LDPE/PP	40 x 25 x 15
6	HEL/3860	75X75	3860	10 to 75	60	250	135	30x30	LDPE/PP	40 x 40 x 15
7	HEL/5300	90X90	5300	10 to 75	60	350	145	40x40	LDPE/PP	40 x 40 x 15

## Twin die system coating lamination plant

Sr. No.	Plant Model	Screw Size (mm)	Die Width (mm)	Coating Thickness Range in Micron	Max Line Speed MT/MIN.	Max Prod. Capacity (KG/HR.)	Total Connected Load (KW)	Main Drive (HP)	Polymer to be Processed	Over All Dim. L x W x H
1	HELD/900	70 x 2	900 x 2	20 to 75	120	100 to 120	85 KE	40	LDPE/PP	24 x 35 x 12
2	HELD/1000	80 x 2	900 x 2	20 to 75	150	140 to 180	95 KW	50	LDPE/PP	24 x 35 x 12



# MULTI LAYER BLOWN FILM PLANT

HEAVEN offering Multi-Layer Blown Film Line is used for producing tubular film. The film is applicable for heavy-duty packaging bags on FFS automatic packaging line in petrochemical and chemical industries. The products are erect, beautiful, high-strength, convenient for stacking, and preventing from slide-down. Especially they are convenient for recycling and reusing, which accords with the requirements of environment protection. At present, both here and abroad, the products have been used widely. Film Blowing Machine adopts a lot of new technique and technology such as Three-layer-co-extrusion stacking-type blown die, dual-lip cooling ring, IBC, bubble stabilizing device, multi-layer rotation take-off, corona treatment station, central-guide friction and Surface type automatic winder, flexographic printing, anti-slip embossing, adjustable edge-folding and forming.

## Application

Multilayer films are used for varied crucial application in flexible packaging, which demand vital film properties like dart impact strength, puncture resistance, hot tack strength, gloss, oxygen and moisture barrier etc.

- Water Pouch Film
  - Milk Film
  - Edible Oil Film
- Lamination Film
  - Liquid Packaging
  - Tea Packaging
- Tomato Catch Up Packaging
  - Food Packaging Film
  - Stretch Cling Film

## Technical Specification

Model		HEMLBL 1000	HEMLBL 1200	HEMLBL 1350	HEMLBL 1700
Feature	Lay Flat Width	600-900 mm	800-1100 mm	800-1250 mm	900-1600 mm
	Film Thickness	20-150 MICRON	20-150 MICRON	20-150 MICRON	20-150 MICRON
	Max Output	150 kg/hr.	150 kg/hr.	160 kg/hr.	160 kg/hr.
	Screw Dia. (mm)	40/45/40g	45/45/45g	45/55/45g	55/55/55g



# MONO LAYER BLOWN FILM PLANT

HEAVEN Offering Mono Layer Blown Film Line is used for producing tubular or flat film. The film is applicable for Light duty packaging bags on Food Industries, Health care industries, garment industries, woven sack industries and general purpose carry bag. The products are erect, beautiful, high-strength, convenient for stacking, and preventing from slide-down. Especially they are convenient for recycling and reusing, which accords with the requirements of environment protection. Mono layer blown film line a lot of new technique and technology such as Spiral type stationery or Rotating die head, dual-lip cooling ring, bubble stabilizing device, Height adjustable take off unit, corona treatment station, central-guide friction and central winder, anti-slip embossing, adjustable edge-folding and forming. The line adopts automatic microcomputer control, equipped with colorful touch screen, integrated with HMI developed by ourselves, to accomplish most of line operation and control, and achieve functions such as on-line help, production record, on-line inspection, safety protection and startup protection. Mono layer line extruding suitable material: LDPE, LLDPE, HDPE etc.



## Application

- Shopping Bags, Grocery Bags, T-Shirt Bags
- Liner for woven sacks, Cans and other industrial needs
- Refuse Bags, diaper films, packaging of dairy products
- Construction Roofing sheet, Green House films
- Garment Bags and fresh producing packaging
- Wrappers for food products, laundry and Garbage bag
- Heat Sealed sterilized packages for surgical instruments
- Packaging of frozen foods
- Health care packaging
- Courier bags

## Technical Specification

Model		HEBL 1000 HM	HEBL 1255 HM	HEBL 1265 LD	HEBL 1365 LD	HEBL 1650 LD
Feature	Lay Flat Width	600-900 mm	400-1100 mm	400-1100 mm	550-1250 mm	550-1500 mm
	Film Thickness	20-100 MICRON	150-100 MICRON	20-100 MICRON	20-120 MICRON	20-150 MICRON
	Max Output	70-75 kg/hr.	85-90 kg/hr.	100 kg/hr.	125 kg/hr.	130 kg/hr.
	Screw Dia. (mm)	50g	55g	65g	65g	65g

## THREE LAYER CAST FILM LINE

HEAVEN Cast Film Line is a high-plasticizing, easy operating, long-life and energy saving cast film machine which is of our company accumulated experience on the manufacturing of cast film machine and actual operation of customers and combine foreign top technology to renovate. The machine is mainly used to produce Three layers LLDPE, LDPE, PE, and other cast film. The machine adopts the top intelligent industrial control system combined with hidden auto cutter, auto cut off and manipulator for automatic roll Auto Carton Loading Unloading Unit/Auto Air Shaft Inflation exchange to ensure the operation is safe and easy, winding is more solid and smooth. Therefore, it ensures top product quality and the productivity; reduce the production cost to create bigger value. The main unit installed a shaking device to improve the smoothness of the web roll and appearance quality and make the products more competitive.



### Optional

- Melt Gear Pump & PID Control System.
- Micro-computer & Touch Screen Accurately Controlled Temperature Controller.
- Fully Automatic Robot Hand Roll Change and Loading System.
- Fully Automatic Continues type Screen Changer.

### Features

- Screw design adopts special mixing function and high plasticizing design which combine import static mixer to ensure plasticization is good, colour is uniform and increase extrusion capacity greatly.
- Coat Hanger type T-die material employs imported top special mould steel. By high precise process and treatment to ensure the long-term use of the T-die and no deformation. Meanwhile insures material extrusion is more smooth and stable.
- Inside cool roller adopts two-way circulation design and built-in spiral flow way to ensure roller surface temperature is equal.
- Winding Station can move forth and back. Adopts advanced torque motor with four-axis automatic tension control. Both the speed and film width are freely adjustable.

### Technical Specification

Sr. No.	Plant Model	Screw Size (mm)	Die Width (mm)	Film Thickness Range in Micron	Max Line Speed ML/Min.	Max Prod. Capacity (kg/hr.)	Total Connected Load (kw)
1	HSCFL/1250	50/65/50	1250	20 to 75	125	100 to 120	120 kw
2	HSCFL/1750	55/75/55	1750	20 to 75	125	140 to 180	150 kw
3	HSCFL/2250	75/90/75	2250	20 to 75	125	220 to 250	180 kw







HEAVEN Offering Air bubble Sheet Plant It's commonly used as a layer of protection for the packaging industry for fragile goods. This is achieved by utilizing dual extruders each feeding a separate die. One side of the film is heated in a vacuum mould forming the bubble and then the two layers are sealed together. The lines are able to produce air bubble packaging up to 2000 mm wide at a speed of up to 60 mpm. Air Bubble Wrap Sheets, a flexible and transparent plastic sheeting containing numerous small air pockets. The sheets offer cushioning and scratch protection far superior to packing paper and are used to protect items during shipping and storage. Bubble wrap is lightweight, water resistant, reusable on-scratching and is used for packing fragile items. It can be used to cushion medium to heavy weight products.

## Application

- Electronic & Electrical Appliances
- Handicrafts
- Scientific Instruments
- Fruits & Vegetables
- Glassware, Ceramic Products
- Pharmaceuticals
- Engineering & Automobile Spare Parts
- Machinery Wrapping

## Technical Specification

Plant Model	Screw Size (mm)	Max Sheet (mm)	Max Production Capacity (kg/hr.)	Total Produced Load (LW)	Dimension of plant (feet)		
					L	W	H
HEABS1000/80	90	1000	90	90	30	15	18
HEABS1500/90	100	1500	125	110	45	25	18
HEABS2000/90	105	2000	150	135	50	30	20

# PP/HDPE MONOFILAMENT PLANT



High output and outstanding quality Monofilament Lines

HEAVEN offering in range of products highly efficient Monofilament Lines to produce HDPE / PP Monofilament for manufacturing of:

- Granulate Hopper with Hopper Loader
- Energy Saving Extruder with Barrier Screw with 30:1 L/D Ratio
- Continuous or Standard Hydraulic type Screen Changers
- High precision Monofilament die for bunch and separate monofilament
- Quenching Tank with parallel Quenching for fast cooling
- Heavy duty Vibration free Holding Godets unit with no. of Five Roller
- Energy efficient Hot Air Oven or Hot Plate unit for uniform starching
- Control Voltage PIDS with +\_ 1o C accuracy having 4 to 6 meters length
- Heavy duty vibration free Stretching unit with No. of Seven Rollers
- Individual torque driven Bobbin winder for bunch winding or Online Ring winder
- AC frequency drive control system for complete plant for energy saving and maintenance free installation
- Temperature control system with SSR system for Energy Saving
- Independent complete technical support

## Application

- Ropes and Twines
- Fishing Net
- Doll hair & Wig hair
- Knitting yarn
- Carpets
- Tooth brush bristles
- Mosquito Net
- Threads
- Artificial grass

## Technical Specification

Monofilament Line				
Model		HE MF-70	HE-MF-80	HE MF-90
Screw Dia (in mm)		70	80	90
L/D Ratio		30.1	30.1	30.1
Max. output (kg/hr.)	PP	120	180	250
	HDPE	115	150	200
Godet Width (mm)		650 mm	900 mm	1200 mm
Godet Dia (mm)		320mm	320 mm	320 mm
Dimension (L x W x H) meters		18 x 2.5 x 205	180 x 2.8 x 2.5	19 x 3 x 2.5
Optional Equipments		<ul style="list-style-type: none"> <li>• Flange / Bobbins Winders</li> <li>• Melt Pump</li> <li>• Jumbo Winders</li> <li>• Monofilament / Dun Line Die Plant</li> </ul>		



# PP/PET BOX STRAPPING PLANT

HEAVEN has developed High-tech Box Strapping Plant to produce straps from Polypropylene granules. The Strap is suitable for manual clamping application, heat-sealing application and fully automatic machine heat-sealing application. We offers various models for single line, two lines, three lines and four lines straps with width of 6mm, 9mm, 12mm, 16mm and 19mm and Co-Extrusion Plants for Two Layer or Lining on straps with high production range from 35 kg to 150 kg/hrs capacity.

Box Strapping Extrusion Generates Plastic Sections of Continuous Length through Plastic Extruder. Plastic Granules are melting by required elements through Plastic Extruder to form a furnished product. This Process is carried out through Various Components like Extruder, Quenching tank, first godet, hot water tank, stretching godet, online single color printing machine, embossing unit, Stabilizing unit, third godet unit and wind on core winder.



## Application

- Textile Cloth Packing
- Textile Industry
- Paper Industry
- Wooden / Corrugated Box Packing
- Cotton Industry
- Paper Packing
- Steel Industry
- Ceramic Industry
- in Different Industries
- Aluminum Industry

## Technical Specification

Plant Model	Screw Size (mm)		Max. Production Capacity (kg/hr.)	Total Connected Load (kw)	Dimension of plant		
					L	W	H
Semi Auto (Heat Sealable) Strapping Plant							
HEBX 50	50	9, 12, 16 – Single Lines	35	50	85	5	8
HEBX 65	65	9, 12 – Two Lines 16, 19 – Single Lines	65	65	95	6	8
HEBX 75	75	9, 12 – Three Lines 16, 19 – Two Lines	90	85	105	6	8
Fully Auto Strapping Plant							
HEBX 50	55	9, 12, 16 – Single Lines	35	60	90	6	10
HEBX 70	70	9, 12 – Two Lines 16, 19 – Single Lines	65	90	105	6	10
Pet Box Strapping Plant							
HEBX 75	75	9, 12 – Two Lines 15, 19 – Single Lines	100	145	110	15	20
HEBX 80	80	9 – Three Lines 12, 15 – Two Lines, 19 – Single Lines	150	175	120	15	20

# SYNTHETIC STRING (SUTLI) PLANT



## Silent Features

- Optimum product costing due to high productivity with less power consumption
- Nitrided screw and barrel made out from special nitro alloy steel for long life and trouble free operations
- Helical gear box with inbuilt thrust bearing
- Manual lever type screen changer
- Uniquely designed 'T' die ensuring uniform flow distribution
- Cheese winders with different size winding options like 2.5", 4", 6", 8" etc.
- Microprocessor based PID temperature controller
- Synchronization of all AC motors

## Technical Specification

Plant Model	Screen Size (mm)	Max Productions Capacity (kg/hr.)	Winding Station (Nos.)	Total Connected Load (kw)	Dimension Plant (ft.)		
					L	W	H
HESP-50	50	35	14	32	40	5	6
HESP-65	65	60	21	44	50	6	8
HESP-75	75	75	27	65	60	7	8

# PP/HDPE/LD/LLDPE PLASTIC RECYCLING PLANT

HEAVEN offers various models for Recycling Line to make granules form woven sack industries and other plastic industries. We offer various range in screw diameter 75mm, 90mm and 100mm with / without vent system screw and barrel, die (Plan or Die Face cutter type) and palletizer unit.

This plastic reprocess machine is used to process PE and polyethylene plastic waste to recover the scraps and byproducts at the end of plastic fabrication.



## Features

- Optimum product costing due to high productivity with less power consumption
- Nitrided screw and barrel made out from special nitro alloy steel for long life and trouble free operations
- Helical gear box with inbuilt thrust bearing
- Hydraulically operated platen type screen changer
- Palletizer with AC invertor drive
- Hydraulic Screen Changer
- Microprocessor based PID temperature controller

## Optional

- Melt Pressure Transducer
- AC Invertor Drive For Extruder
- Scrap Grinder
- Simple Mixer
- Agglomerator

## Technical Specification

Plant Model	Screen Size (mm)	Max Productions Capacity (kg/hr.)	Total Connected Load (kw)	Dimension Plant (ft.)		
				L	W	H
HERP/75	75	75	35	30	4	7
HERP/90	90	110	45	32	4	8
HERP/100	100	150	55	40	4	8
HERP/110	110	200	65	40	4	8
HERP/120	120	250	70	45	4	8



HEAVEN as one of the leading and innovative manufacturers of all kinds of plastics processing extrusion plant and machinery. We are introducing new range of machineries. Heaven is aiming to deliver benefits of continuous research & development and advance technology to customer with quality product with highest quality at affordable pricing. We have excellent team of engineers and quality control system to deliver quality value product and providing most important after sales service.

**OUR MACHINE ARE RECOGNIZED FOR THEIR HIGHEST QUALITY &  
PRODUCTIVITY WITH LESS PRICING AND ENERGY EFFICIENT IN  
DIFFERENT APPLICATION SEGMENTS VIZ.**

**PRODUCT RANGE**

- Raffia Tape Stretching Line • Extrusion Coating Lamination Plant • Multi Layer Blown Film Plant
- Mono Layer Blown Film Plant • Cast Film Line • Air Bubble Sheet Line • PP/HDPE Monofilament Plant
- PP/PET Box Strapping Plant • Synthetic String (Sutli) Plant • PP/HDPE/LD/LLDPE Plastic Recycling Plant • Rotogravure Printing Machine • Woven Bag Gazing Machine •

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