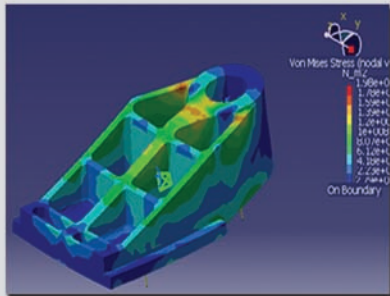


Discover the World of Professional Extrusion

Three-Layer Co-extrusion Sheet Machine SH-TSH20PEW30



Shouman is one of the leading providers of blown film machinery and complete plastic processing lines. With 25 years of experience, the company has gathered invaluable knowledge in the field of plastic processing. Our major strength in blown film industry is our capability to provide customers with complete solutions, starting from complete packaging systems, and ending up with green house film and agrifilm lines. Our design and manufacturing technologies are streamlined to enhance reliability, cost effectiveness, and productivity.



3D Computer Aided Design enhances reliability and robustness.



Optimized die design ensures uniform flow distribution.

Global Presence

Global operation requires global thinking, different markets need different strategies. Selling machinery around the world while keeping customers satisfied takes a lot of organization and clear vision. Listening to our customers and understanding their needs are our key tools for boosting our global presence. Throughout the past 25 years our machinery have reached more than 24 countries in Africa, Asia, and Europe.





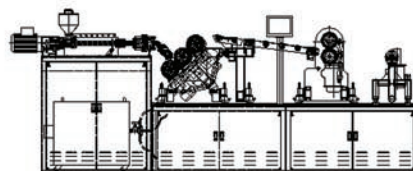
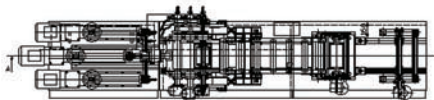
Description

Co-extrusion sheeting line with three layer configuration. Each extruder is fitted with a 20 mm screw for processing of PE.

Applications

The compact size of the machine and the low material consumption in extrusion make the machine suitable for several applications such as:-

- Testing resin processability.
- Testing resin properties.
- Testing additives and investigating product properties.
- Small production runs.
- Optimizing processing conditions.



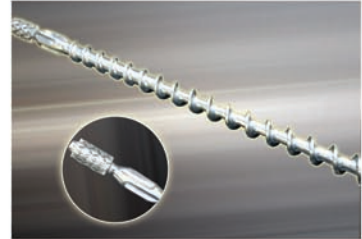
Co-extrusion

The machine is equipped with three extrusion systems. The extruders along with the feeding hoppers are specially designed and optimized for the co-extrusion process. The three-extruder system is capable of producing a multi-layer structure with the desired performance criteria based on the required end-product characteristics.



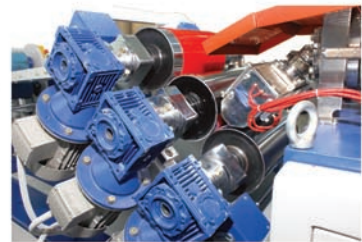
Optimized extruder design

Each extruder is designed to provide excellent homogeneity of melt at low and safe extrusion temperature. The extruder screw is designed to process HDPE, LDPE and LLDPE.



Flat T-Die

Attached directly after the extrusion system is a flat T-die for forming the three-layer extrudate in a precise and uniform shape. The modular system is the passage guiding the molten polymer from the extruders to the T-die.



Calender

The three rollers calendaring system is water cooled to dissipate the heat accumulated in the roller. The calender is equipped with an adjustable roller system to facilitate controlling the product thickness. The calender system itself is easily movable on a guided track.



Cooling track

A series of auxiliary rollers guide the PE sheet after the calender to deliver a stable and well established product shape to the winder. The cooling track utilizes a low friction dynamically balanced light weight rollers.



Operator interface and control system

The machine is equipped with an advanced and user-friendly operator interface. The interface allows operating and controlling the whole extrusion process easily and safely.



Technical Specifications

Production	Material	LDPE - HDPE - LLDPE
	Sheet thickness	0.2 - 1.5 mm
	Sheet width	Up to 250 mm
	Capacity	Up to 20 Kg/hr
Extruder	Screw dia.	3 X Φ 20 mm
	L/D ratio	28
	Material	Special alloy steel polished and nitrided
	Heating capacity	7 kW
	Main driving motor	2.2 kW X 3 (Siemens) variable speed with inverter
Head	Effective width	300 mm
	Lip opening	Max. flilip adjustment (2.5 mm)
	Material	Pre-hardened alloy steel and all surfaces in contact with polymer are polished and chrome plated.
	Heating capacity	2 kW
Calender	No. of rollers	3
	Roll diameter	Φ 168
	Drive motor	300 kW
	Roll surface	Mirror like hard chrome plated
Operation	Type	Separate cabinet with PLC
Control unit	Temp. control units	PLC 8 units
Others	Visualization	Touch panel TP1708 control (Siemens)
	Actuation	SCC & Magnetic switch
Dimensions	Length	3820 mm
	Width	900 mm
	Height	1550 mm



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