

The specifications of the components of these sheet extruders are given below:

Components	Specifications
Extruder of 75 mm	<ul style="list-style-type: none"> • Material (Screw / Barrel): EN 41B, Gas Nitrated • Hardness: 65 RC • L/d ratio: 28:1 • Motor: 40 HP AC • Screw speed - rpm: 20 - 120 • Max. Output 150 & 100 KG/hr for HIPS, PP • Screw Type: Barrier type with special mixing zone • Barrel Cooling: Jacketed water cooling on feeding zone & • Blower cooling on heating zones • Hopper: 50 Kg capacity with sight glass, emptying chute, shut off slide & lid • Type of Barrel Heaters Ceramic Band Heaters with digital temperature controllers • Drive (AC Variable Frequency): 40 HP of Lenze, USA make
Screen Changers	<ul style="list-style-type: none"> • Main Extruder: Piston Type`
Sheet Die (T Die Fish tail type)	<ul style="list-style-type: none"> • Die type: "T" • Die lip width: 680 mm • Die Material: high-grade hot work alloy steel. • Sheet width (after trimming) - mm: 600 • Sheet thickness - mm: 0.2 - 1.5 • No of heating zones: 3 • Deckling locking, each side 50 mm • Flow surface: Hardened, hard chrome plated and polished to mirror finish and completely flash chrome plated • Gearbox Helical with thrust bearing
Roll calendar polishing stack assembly	<ul style="list-style-type: none"> • No of Rolls: 3 (1 fixed & 2 moving) • Chrome roller diameter (mm): 250 • Chrome roller face width (mm): 720 • Line speed - meters/ min.: 1 to 18 • Roller cooling systems: Water • Flow Channels Spiral • Roller Vertical Movement Pneumatic • Material of Rolls: EN 19, Hardened to 65 RC, hard chrome plated, ground & mirror super finished to less than 1 RA • Motor: 2 HP AC • Drive (AC Variable Frequency): 2 HP AC
Nip roller & side trimming unit	<ul style="list-style-type: none"> • Motor: 0.5 HP AC

2 Stage torque winder	<ul style="list-style-type: none"> • Type: Constant Torque with 2 Stations • Pulling roller diameter (mm): 100 • Material: One Rubber & other hard chrome plated • Line speed meters/ min.: 0 to 10 • Side Trimming Unit: 2 stainless steel blades with guide rollers • Clutch: Mechanical
Control Panel	
Heaters	<ul style="list-style-type: none"> • Barrel 2 KW Band Heater X 4 Zones of 2 Heaters: 16 KW • Piston Screen Changer 350 W Cartridge Heater X 4 Nos: 1.4 KW • Lever Type Screen Changer 1 KW Band Heater X 2 Nos: 2 KW • T Die 500 W Cartridge Heater X 13 Nos: 6.5 KW

These sheet extruders require the following utilities for carrying out the operations:

- Power Supply: 415 V +/- 5%, 50 C/S +/- 3%, 3 Phase
- Air Compressor: 2 HP
- Chilling Plant: 5 T with 3 Tanks
- Connected Load: 50 KW
- Space Required: 7 M X 3 M X 2 M (LWH) Approx