

[Twin Screw Conical Extrusion with Under Water Pelletizing System For Sale Ref ID #SM4357](#)

Twin Screw Conical Extrusion Under Water Pelletizing System

Year 2019

Name of Manufactured Neoplast Engineering Private Limited Ahmedabad

Capacity 200 Kgs/Hr

Total Connected Power 52 Kw

1.1 Super Conical Twin Screw Extruder Model NCMT - 58

Main motor of 40 H.P. (30 kW.) with A.C. Variable Frequency Drive.

Auto tune type Temperature controller.

Horizontal Dose Feeder, Including Control Dosing Screw, Screw Speed Infinitely Variable To Optimize

Filling Degree Of Extruder Screws, Synchronized With Extruder Motor With Electric Control.

Vented Barrel Including Vacuum Pump. Thermo-Regulation Barrel Cooling With Distilled Water.

4 Control Points For Barrel.

Standard Adopter Execution Transition Piece Between Extruder And Tool.

Hole Insert Inter Changeable.

The Rated Production Capacity Is 160-220 Kg/Hr*, However The Production May Vary Depends On Quality Of Raw Material, Formulation Etc...

The Extruder Is Controlled By State-Of-The-Art Electric Control Panel.

Technical Specifications:

Drive: - Reputed Make A.C. Variable Frequency Drive With Force Cooled A.C. Motor Of 30 Kw. (40 HP).

Heaters: - Ceramic Bend Barrel Heater With S.S. 304 Cladding.

Vacuum Pump Of 2.2 Kw. Water Ring Types Mono Block 46-M3 Per/Hr. Capacity.

Barrel Cooling - Distilled Water Cooled Barrel, Closed Circuit Cooling With 0.75 Kw. (1 HP) Pump Unit.

Screws - Especially Designed Conical Twin Screws For PVC Extrusion To Control Heat In Metering Zone With Cimitherm Tube For Screw Cooling Arrangement.

Temperature Controllers - Auto Tuned PID Type.

Number Of Heating Zones - 12 (4 For Barrel & 8 For Adaptor & Tooling With 4 Nos. Add On)

Horizontal Dose Feeders With 0.75 Kw. (1 HP) A.C. Variable Frequency Drive.

Gear Box - Robust, Main & Distribution Gearbox.
Gas Nitrided Conical Twin Screws & Barrel.
Synchronization Of All Drives Is Provided.
Heat Cool Unit (Thermoregulation Unit)
Temp. Range Maximum 150° C With Screw Rotary Joints And Tubes With Heat Exchanger Ready To Connect Unit.
Temperature Controller Zone:
Temperature Controller Zones: 4 Nos. For Barrel And 4 +4 Add On Total 8 For Adaptor And Tooling
Vented Barrel Including Vacuum Pump
Vacuum Pump Of 2.2 Kw. Water Ring Types Mono Block 46-M3 Per/Hr. Capacity.

1. 2 Crammer Feeder

Force Feeder (Crammer Feeder) Increase Output Capacity. It Is Mounted On Hopper. Motor 2.2. Kw. With A.C. Variable Frequency Drive & Driven With Geared Motor.

1.3 Melt Temperature/Melt Transducer With Display:

This Sensor Is Mounted At Cross Head, Immediately After Front Flange Of The Extruder,
It Measures Melt Temperature And Melt Pressure Of Polymer Melt Which Can Be Displayed Digitally By Digital Indicator, Mounted In Main Control Panel Of Extruder
The Transducer Is Of Reputed Make With Required Melt Pressure Range & Melt Temperature Range.

1. 4 Under Water Pelleting System Model NLC 10

Pellet Capacity : 200-250 Kgs/Hr. Depending On Product And Formulation.
Polymers Can Be Pelletized : LDPE,HDPE,PP, PVC Etc
Die Plate : With 48 Nos. Of Holes And Dia 3.2mm-3.5 Mm Of Pellets As Per Product R
Maximum Operating Pressure : 175 Bar At 300 °c
M.O.C. : D2 Steel Hardened And Ground Up To 55 – 60 Hrc
Die Plate Heating : Electric Heat, 1 Phase, 50 Hz, 240 Volts. Wired In Parallel.
Number Of Heaters : 8 Of 400/600 Watts. (High Density)
Drive Motor : Ac, 3.7 Kw, 3 Phase, 50 Hz. 415 Volts, 2900 R.P.M. Tec, Frame Electric Motor.

Cutter Speed : 0 To 3600 R.P.M.

Cutter Blades : 4/6 Spokes

M.O.C. : S.S. 304 Cutter Hubs With Double Edged Blades Of Hardened Tool Steel Up To

45-50 Hrc.

Blade Adjustment : By Spring Loaded Arrangement.

1.5 Screen Changer

Dia. 110 To 150 mm Platen Type Screen Changer (Heavy Duty) .

3 H.P. Accumulator Power Pack (6 Litre) Along With Heater And Fastener Diverter Valve With Master Cylinder.

3 H.P Accumulator Power Pack, (4 Litre), Hosepipe Along With Heaters & Fasteners

Advantages:

It Filters The Plastic Material And Removes Impurities There By Preventing Damage To The Die & Barrel And Hence Increases The Life Of The Machine. Quality Of The Final Product Remains Consistently Good.

Leakage Problem Gets Eliminated.

Also Absolutely Eliminates The Idle Time.

Maximum Utilization Of Plant Becomes Possible.

Increases The Life Of Mesh And Hence Saves Money.

Easy To Operate.

The Highlight Of This System Is Its Energy Saving Ability

1.6 Classifier/Vibrator

Size: 24" • 2 Deck - 3 Tire S.S. Body & Screen.

0.37 Kw, 1450 Rpm, 50 Hz 415 V Electric Motor.

Two Nozzles Are Incorporated In This System. One Is For Collection Of Sieved Material And Another For Coarse Particles.

Inline Fitting Arrangement.

Easy For Cleaning And Maintenance.

Low Noise

Please Note: Plant in Working Condition Kept Aside on January 2020 as Installed Higher Capacity Line