




Pellets Extruder Set Technical Parameters (20KG/H)

Pellet Ext L20:

Extruder+Controller+Hopper Dryer+Compressed Air Source Components

<p>Weight: 180kg</p> <p>Size: H1820 x W733 x L338 mm</p> <p>Screw Size: D36 x L900 mm</p> <p>Screw Treatment: 38CrMoA1A+Nitriding Treatment</p> <p>(L/D): 25:1</p> <p>Max. Motor Torque: 15N.m</p> <p>Melt Pump Motor Torque: 5.0N.m</p> <p>Rolling Shaft Motor Torque: 1.91N.m</p> <p>Gear Ratio between Motor and Screw: 1:30</p> <p>Gear Ratio between Motor and Melt Pump: 1:40</p> <p>Gear Ratio between Motor and Rolling Shaft: 1:2</p> <p>Max. Screw Speed: 83 (r/min)</p> <p>Max. Melt Pump Speed: 60 (r/min)</p> <p>Melt Pump Flow: 20kg/h</p> <p>Screw Heating Temperature: 0-500 °C</p> <p>Melt Pump Heating Temperature: 0-450 °C</p> <p>Installable Equipment: Robot Arm & Frame Type</p> <p>Heating Zones: 4</p>	<p>Cooling Zones: 2 (Insulation Section & Melt Pump Coupling)</p> <p>Temperature Control: PID</p> <p>Cooling Method: Water Cooling (Insulation Section)+Air Cooling (Melt Pump Coupling)</p> <p>End Part Sensor: Equipped with Melt Pressure Sensor</p> <p>Auxiliary Feeder Type: Optional Pneumatic Vibration Feeder (for materials with high surface viscosity such as TPU/PU)</p> <p>Software : IEMAI 3D EXPERT</p> <p>Power Servo Motor: STEPCNC</p> <p>Power Supply: 220V/50HZ</p> <p>Screw Servo System: 3.8KW</p> <p>Melt Pump Servo System: 1.5KW</p> <p>Rolling Shaft Servo System: 0.6KW</p> <p>Total Power: 15.5KW</p> <p>Extruder Control: Servo Motor+Planetary Reducer</p> <p>Maximum Throughput: 20KG/H</p> <p>Applicable Nozzle: 4,6,8,10,15,20 mm</p> <p>Recommended Layer Thickness: 2-10 mm</p>	
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Necessary Auxiliary Kit:

Hopper Dryer 25kg

Applicable to Pellet Ext S3 &P10 &L20

Weight: 40kg

Size: H1530 x W870 x L520 mm

Pellets Drying Capacity: 25KG

Drying Humidity: <20% RH

Drying Temperature: 0-120 °C

Power Supply: 220V/50HZ

Total Power: 3635W

Efficient and Energy-saving Thermal Circulation Drying

Equipped with Upper/Lower Discharging Options


Equipped with a Discharge Port for

Ease of Granular Materials Cleaning





Compressed Air Source Components

<p>Applicable to Pellet Ext L20</p> <p>Screw Type Compressor Parameters</p> <p>Weight: 115kg</p> <p>Size: H830 x W700 x L600 mm</p> <p>Generated Flow : 1.1m³/min</p> <p>Generated Pressure: 0.8Mpa</p> <p>Power Supply: 380V/50HZ</p> <p>Total Power: 7.5KW</p> <p>Permanent Magnet Variable Frequency Motor</p> <p>Air Tank Parameters</p> <p>Weight: 110kg</p> <p>Size: H720 x W750 x L1960 mm</p> <p>Operating Pressure : 0.8Mpa</p> <p>Capacity : 600L</p> <p>The top is equipped with safety automatic exhaust valve.</p> <p>Drainage holes at the bottom.</p>	<p>Air Dryer Parameters</p> <p>Weight: 38kg</p> <p>Size: H660 x W650 x L425 mm</p> <p>Operating Pressure: 0.4-1.0 Mpa</p> <p>Air Treatment: 1.5m³/min</p> <p>Air Source Pressure: 0.8Mpa</p> <p>Power Supply: 220V/50HZ</p> <p>Total Power: 370W</p> <p>The inlet is equipped with a primary filter.</p> <p>2 precision filters at the outlet.</p>	 A photograph of the compressed air source components. It includes a blue vertical air tank, a green and black air dryer, and a blue and black screw-type compressor. The components are connected by hoses and are shown on a white background.
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Controller

<p>For Pellet Ext L20, the temperature controller will be dedicated version. To be update later date.</p>		
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