

**BEIER MACHINERY CO., LTD**  
**SJ150/32 Single Screw Extruder**  
*(Capacity: 2000 lbs/hr from Regrind Flake)*



*(The picture is only for reference)*

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Thank you very much for your inquiry. We are pleased to offer you the following based on our enclosed general terms and conditions of delivery and sale.

**1. Project evaluation: A SJ150/32 single screw extruder.**

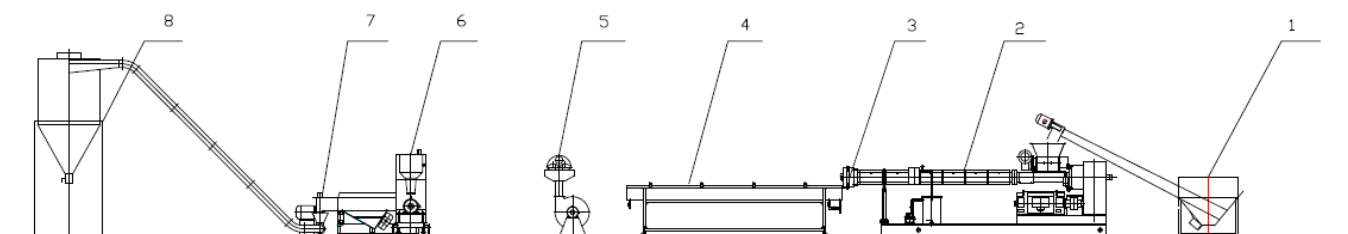
**1.1. General information:**

Raw materials	PE/PP/ABS Regrind Flake Particle size: Φ8-14
Melt capacity	2000 lbs/hr
Central height:	1m
Operation direction	From right to left (face to the operator panel)
Machine color	Standard color: RAL7016 (Anthracite grey) ; RAL9002 (Grey white)
Picture of the final product	

**1.2 Main commercial terms**

Project	SJ150/32 Single Screw Extruder
Payment terms	50% down payment by W/T 50% by W/T before delivery and after inspection
Delivery time	80 days from the date of receiving the down payment and a technically clarified purchase order.
Packaging	Fumigation wooden pallet and covered by PE stretch film, crated.
Warranty period	13 months from the date of the bill of lading

**1.3 Flow sheet : Typical Beier Strand Pelletizing Line**



**1.4 Machinery list and prices:**

No.	Name	Qty.	Price (USD)
1	SJ 150/32 single screw extruder with a designed barrier mixing screw.	1	
Total EX Works INCOTERMS 2000			
Inland transportation cost to Shanghai port (1x20'GP)			
Packaging cost			
<b>Total FOB Shanghai port</b>			

Remarks:

1) If a PLC extruder control system is required (Siemens), Add:

**2.1 Technical data**

**1.SJ150/32 single screw pelletizing extruder**



**Screw:**

Screw diameter: 150mm,

L/D ratio: 32:1

Screw material: 4140 HT (28-32 Rc) with Colmonoy 57 flight hardfacing and .001" chrome.

Screw design: A single stage barrier screw with a mixing section. The screw is cored for cooling through the feed section. The drive shaft is a step-type with two keyways.

**Barrel:**

I.D.: Nitride to a thickness of: 0.4 ~ 0.7mm

Hardness: (HV) 950-1100

Inner surface finish: Ra ≤1.6um

Heating zones: 6

Heating power: 67kW

Heaters: Cast Aluminum with stainless steel covers

Cooling: Air fans: 0.55 kW × 7 sets

**Drive motor:**

Motor power: 355 kW DC

Brand: Siemens-Beide, China

**Gearbox:**

Brand: Chengbrand Extruder Gear Box Model DJY360

Gears: All gears are made of high quality alloy steel 20CrMnTi which are case carburized and quenched to a surface hardness of 58~62 HRC. They are finish ground to a high quality class 5 (GB/T10095-2001). The precision lead and profiles assure perfect contact under load maintaining a low noise and a high efficiency performance.

Bearings: Wafangdian Industrial Bearings model ZWZ, or Kabra Bearing model DYZV or Harbin Bearing model HRB.

Oil seals: Freudenberg-NOK Simrit seals.

Maximum screw rpm: 120

**Electrical components:**

UL approved electrical components and the required safety features are included (through the door lockable, safety disconnects, etc.)

Governor: Parker

Contactors: Schneider

Air Switches: LG

Relays: Omron

Temperature controllers: Omron

## 2.2 Spare Parts Included

No.	Name	Qty.	Application
1	Screw dismantling tool	1	Extruder
2	Oil seals	2	Gearbox
3	Thermocouples	3	Barrel
4	Low voltage circuit-breaker and small AC contactor	1 each	Electrical cabinet

## 3.1 Work conditions provided by the customer at the installation site.

Warehouse/Workshop	Supply of cranes, fork-lifts or other lifting equipment. Mounting materials and tools.
Temperature & Humidity	≤40°C, ≤95%
Power supply	460/3/60
Wire/cables/water	Wires/cables from the power supply to the control cabinet of the extruder are supplied by the customer. Beier will supply all electrical cables from the control cabinet to the extruder. Water hoses must be supplied by the customer.
Cooling Water	Inflow temperature T1: ≤20°C, ≥0.3Mpa, ~ 15~16 M3/hr Outflow temperature T2: T1+5°C;
Compressor	0.3m <sup>3</sup> /min, 0.4Mpa-0.8Mpa
Ancillary staff	1 Person

## 3.2 Energy consumption

Installation power	429kW Actual production power consumption percentage: 70%-80%
Cooling Water	1M <sup>3</sup> /hr
Vacuum	-0.095MPa

**3.3 Service**

<p><b>Technical documentation</b></p>	<p>All the symbols on the equipment will be in English. BEIER is responsible for providing a general layout plan, electrical plan, installation orientation and a manual in English for the Buyer.</p>
<p><b>Arrangements for inspection, installation and testing of the equipment</b></p>	<p>a. After all the equipment is delivered to the customer's factory; the Buyer is responsible for all preparation work, e.g. electricity supply, water supply, cranes and labor, etc.</p> <p>b. BEIER will prepare visa applications for their engineers, who will review the equipment installation and testing at the Buyer's factory.</p> <p>c. The Buyer will buy a round-trip air ticket for the engineer(s) after the visa application is approved. The Buyer is responsible for all expenses generated, e.g. visa application fees, meals, accommodation and an allowance of \$125.00 per day for each engineer.</p> <p>d. The engineer(s) will provide free training for the operators and maintenance people in Buyer's factory.</p> <p>e. If the Buyer does not request commissioning by BEIER's engineer(s) within four months from the date of the bill of lading, it will be accepted that all the equipment has been successfully tested and approved by the Buyer.</p>
<p><b>Quantity and quality guarantee</b></p>	<p>In the case of quantity discrepancies or damage to any of the equipment at the destination, the Buyer will file a claim within 30 days after the arrival of the goods at its destination. The insurance company and the shipping company will be responsible for all discrepancies and damage caused by the shipping company or other transportation companies.</p> <p><b>a. Guarantee period and after-sales services:</b> 13 months from the date of the bill of lading.</p> <p>During this guarantee period, BEIER will provide spare parts without charge in cases of quality discrepancies. If malfunctions are caused by the Buyer's improper equipment operation; BEIER will provide the Buyer with spare parts at cost prices.</p> <p><b>a. Long-term service:</b></p> <p>Beyond one year, BEIER will provide the Buyer with spare parts at reasonable prices and provide long-term technical guidance.</p>
<p><b>Validity</b></p>	<p>Three months from the quotation date.</p>

**We thank you for your inquiry**

**Beier Machinery**