

BEIER MACHINERY CO., LTD

BRP130/26 Parallel Twin-screw Extruder



(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 parallel twin screw extruder for use in the production of RPVC calendering sheet film, pipe, etc.

1.1. General information:

Raw material & formulation	PVC resin powder & CaCO ₃ , lubricants, stabilizers, modifiers, pigments, antioxidants, etc.
Melt capacity	1100kg/h (2500 lbs/hr) Depending on the material formulation.
Central height:	1350mm
Machine color	Standard color: RAL7016 (Anthracite grey)  RAL9002 (Grey white) 

1.2 Main commercial terms

Project	BRP130/26 Parallel Twin-screw Extruder
Price in U.S. funds	FOB Shanghai INCOTERMS 2000
Payment terms	50% down payment by W/T 50% by W/T before delivery and after inspection/trial.
Delivery time	80 days from the date of the receiving down payment and a technically clarified purchase order.
Packaging	Wood pallet covered by plastic film and crated.
Warranty period	13 months from the date of the bill of lading

1.3 Machine price:

No.	Machine	Qty.	Price (USD)
1	BRP130/26 Parallel Twin-screw Extruder	1	
Price EX Works INCOTERMS 2000			
Inland transportation cost to Shanghai port (20' GP x1)			
Packaging cost			
Total FOB Shanghai INCOTERMS 2000			

Remarks:

Beier Machinery will set-up the extruder for testing, before shipment to the customer. All costs relating to the test materials and compounds are the responsibility of the customer.

2. 1 Technical data

BRP130/26 parallel twin-screw extruder



Screws:

Diameter: \varnothing 130mm,

L/D Ratio: 26

Screw speed (counter rotating) 1-35 rpm

Screw material: 38CrMoAlA (Nickel-chromium-molybdenum alloy steel)

Surface treatment: Nitride to a depth of: 0.5~0.7mm

Hardness: (HV) 740-940

Internal screw core temperature control system (heat pipe technology)

Barrel:

Inner Surface: Nitride to a thickness of: 0.4 ~ 0.7mm

Hardness: (HV) 940-1100

Barrel temperature control system:

Heating mode: Cast aluminum heaters with stainless steel covers.

Cooling system: Air cooled (cooling fans)

Heating zones: 6 sets with a total power of: 90kW

Fans: 3 sets x 550W + 1set x 750W

Dosing feed system

Hopper material: Stainless steel

Dosing feeding device:

Feeding motor: 1.5kW

Speed controller: ABB inverter

Vacuum vent system

Vacuum pump motor: 2.2kW;

Vacuum degree: 0~ -0.075 Mpa

Gearbox

Four shaft gearbox design reduces the torque transfer onto the screws, allowing for 40% higher motor ratings.

High torque with low noise

Cooling system: Large capacity heat exchanger for efficient, stable oil cooling.

The gearbox to screw connection is done by an involute spline for excellent connectivity, stable operation and simplified screw removal.

Gear box material: 20CrMoTi; reduction gears: Nitride

Reducing box: Jiangyin brand, China

Transmission box: Jiangyin brand, China

Main motor

AC motor: Simo, China

Motor power: 132kW AC with an ABB inverter.

Electrical control system: UL approved electrical components and all of the required safety items.

Speed controller: Parker

Alarm system

AC contactors and relays: Schneider

Air switches: LG

Current protection

Screw protection

PLC control system: Siemens

2.2. Spare parts included

No.	Name	Qty.	Used for
1	Large spanner	1	Extruder
2	High-speed axis gearbox seal	1	
3	Small contactors	2	Electrical cabinet
4	Buttons and switches	2	
5	Intermediate relays	2	
6	Thermocouples	3	
7	Potentiometers	2	

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	3-phase/460V/60Hz
Wire/cables/water:	Wires/cables: From the power supply to control cabinet of the extruder. Water: Supply water to the extruder.
Cooling Water	Inflow temperature T1: ≤20°C, ≥0.3Mpa, ~ 15~16 M³/hr Outflow temperature T2: T1+5°C; Hardness: 5-8°dH;
Installation power	228 kW (Production consumption typically 70%)
Compressor	0.3m³/min, 0.4Mpa-0.8Mpa
Ancillary staff	1 Person

3.2 Service

Technical documentation	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.
Arrangements for inspection, installation and testing of the equipment	<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>

Quantity and quality guarantee	<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>a. Guarantee period and after-sales services: 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>a. Long-term service:</p> <p>Beyond one year, BEIER will provide the Buyer with spare parts at reasonable prices and provide long-term technical guidance.</p>
Validity	Three months from the quotation date.

We thank you for your inquiry

Beier Machinery