

Offer No.

Date:

## BEIER MACHINERY CO., LTD

### TSK-65 Compounding & Pelletizing Line



*A TSK-65 line ready for pre-shipment test. (The picture is only for reference)*

*Zhangjiagang City Economic Development Zone, East of Gangcheng Avenue,  
Jiangsu Province, China*

*Contact person:*

*Mobile:*

*Canada, U.S.A. & Mexico*

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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 compounding and pelletizing line for the production of color concentrates.**

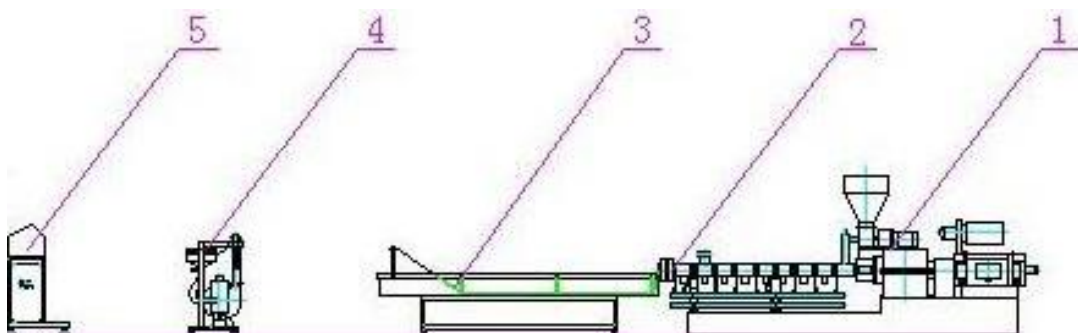
**1.1 General information:**

Raw material & formulation	Base materials and color concentrates
Melt capacity	Pellets with a diameter: 3*3mm Output: 150-600 lbs/hr (depending on the formulation)
Central height:	1m
Machine color	Standard color: RAL5005 (Blue)
Product photo	 

**1.2 Main commercial terms**

Project	TSK-65 Strand Compounding & Pelletizing Line
Price in U.S. funds	<b>FOB Shanghai INCOTERMS 2000</b>
Payment terms	50% down payment by W/T 50% by W/T before delivery and after inspection & pre-shipment test
Delivery time	60 working days from the date of receiving the down payment and a technically clarified order.
Packaging	Wood pallet covered by plastic film
Warranty period	13 months from the date of the bill of lading

**1.3 Flow sheet**



**1.4 Machinery list and price:**

No.	Machinery	Qty.	Price (USD)
1	Screw loader	1 set	
2	TSK-65 Co-rotating Twin Screw Extruder	1 set	
3	Screen changer (JC Times) & strand die	1 set	
4	Water cooling tank	1set	
5	Strong-air dryer	1 set	
6	Pelletizer	1 set	
7	Vibrator (pellet screener)	1 set	
8	Blower & Silo	1 set	
Price EX works INCOTERMS 2000			
Inland transportation cost to Shanghai port (1x20'GP)			
Packaging cost			
<b>Total FOB Shanghai INCOTERMS 2000</b>			

**Remarks:**

1. If a PLC control system (Siemens) is required: Add
2. Beier Machinery will set-up the complete extrusion line 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:**

**1. Screw Loader**

**Motor:** 2.2kW (3hp)

**Materials:** Stainless steel

**Control:** Time relay



## 2. TSK-65 Co-rotating Twin Screw Extruder



### Screws :

Diameter: 62.4mm, L/D: 40:1, Center distance: 52mm

Screw material: W6Mo5Cr4V2

Screw speed (co-rotating): 600 rpm

### Barrel:

Material: 45# steel+ α 101 alloy

Heating zones: 8 zones, Cast Aluminum with a stainless steel cover

Heating power: 28.8 kW (Heating power: 3.6 kW/zone)

Total heating power: 33.8 kW (including the strand die & screen changer)

Barrel cooling: Cooling water

Water pump: 0.55kW (.75 hp)

### Drive system:

Motor power: 90kW (120 hp) (AC)

Oil pump power for the gear box lubrication: 1.5kW (2 hp)

### Feed system:

Stainless steel hopper, Feed screw: 1.5kW (2 hp)

### Vacuum Venting System:

Vacuum pump: 1 set, 2.2kW (3 hp)

Vacuum degree = 0 ~ -0.01 Mpa

### Electrical cabinet:

Inverters: ABB or Hitachi

Temperature controllers: RKC

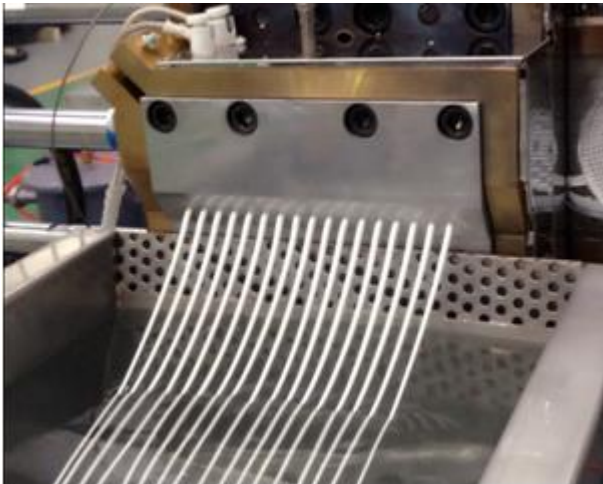
Contactors: Siemens

Circuit breakers: Schneider

**CSA approved electrical components**

**Melt capacity:** 280kg/hour (620 lbs/hr) Depending on the formulation.

**3. Screen changer (JC TIMES) & Strand Die**



The strand die photo is only for reference

**Motor power:** 2.2kW (3 hp)

**Material:** 38CRM0Al

**Number of strands:** 13-15

**4. Cooling water tank**

**Length:** 4000mm (13')

**Contacting material:** Stainless steel



**5. Strong-air dryer**

**Motor power:** 3kW (4 hp)

**Part of contacting material:** Stainless steel



**6. Pelletizer**

**Motor:** 5.5kW (7.5 hp)  
**Rotary speed:** 120-1200 rpm  
**Dimensions of the blade:**  $\Phi$  120x60  
**Maximum Output:** 300kg/hour (660 lbs/hr)  
**Dimension of the final product:**  $\Phi$  3x3  
**Speed controlled by a frequency inverter**



**7. Vibrator (pellet screener)**

**Motor power:** 0.2kW X2 (.25 hp x 2)  
**Contact with pellets:** Stainless steel



**8. Blower & Silo**

**Blower motor:** 3kW (4 hp)  
**Silo material:** Stainless steel  
**Volume of the silo:** 1.5m<sup>3</sup>  
**With a pneumatic slide gate**



**2.2. Spare parts included (free of charge)**

No.	Name	Qty.	Used for
1	Screw components	500 mm	Screws
3	Oil seals	3 pcs	Gearbox
4	Sealing rings for the vent chamber	3 pcs	Vacuum venting system
5	Fixed blade	1 pc	Pelletizer
6	Thermocouples	5 pcs	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. Dimension (M*M*M): 22 (Length) × 2.5 (width) × 2.5 (Height)
Temperature & Humidity	≤35°C, ≤95%
Power supply	460/3/60
Wire/cables/water:	Wires/cables: From the power supply to the control cabinet of this production line and all electrical cables from the control cabinet to each machine. Water: Supply water to the machines and reservoirs.
Cooling Water	Inflow temperature T1: ≤20°C, ≥0.3Mpa, ~5 M <sup>3</sup> /hr Outflow temperature T2: T1+5°C; Hardness: 5-8°dH;
Installation power	142.8kW (80% during production)
Compressor	0.6m <sup>3</sup> /min, >0.5MPA
Ancillary staff	1 Person

**3.2 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>	<ul style="list-style-type: none"> <li>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.</li> <li>b. BEIER will prepare visa applications for their engineers, who will review the equipment installation and testing at the Buyer’s factory.</li> <li>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.</li> <li>d. The engineer(s) will provide free training for the operators and maintenance people in Buyer’s factory.</li> <li>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.</li> </ul>
<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**