

Note: The picture is for reference, the actual one may differ.

TSE-65D Water Strand Pelletizing Twin-Screw Extruder



Note: The picture is for reference, the actual one may differ.

Dear Sirs,

We refer to your requirement, and thank you for the confidence in our equipment and service.Now we quote you:

One(1)co-rotating TSE-65 twin screw extruder L/D=40

Process	Thermoplastic
Output	About 400-600kg/h , according to the raw material, formula and processing condition, etc.





1. Scope of supply

Quantity	Designation	Remarks
1	Premix & Feeding system Consisting of:	
	Twin-screw metering feeder	
	Two stage side feeder	
1	TSE-65D Consisting of:	
	1 AC MOTOR, P=160kw for max.600rpm screw speed.speed regulated by ABB inverter.	
	1 MECHANICAL NYLON PIN CLUTCH	
	1 REDUCTION AND DISTRIBUTION GEAR	
	made in China,main bearing is NSK Japan	
	total torque 2 x 1273 Nm	
	1 PROCESSING SECTION L/D = 40	
	bimetallic liners for barrels (hardness HRC=60 ${\sim}62$) and scre	
	elements high-speed steel W6Mo5Cr4V2(hardness	
	HRC=58~60)	
	1 SOFT WATER COOLING SYSTEM	
	1 VACUUM SYSTEM	
	1 HYDRAULIC SCREEN CHANGER	
	1 ELECTRICAL CONTROL CABINET	
1	WATER STRAND PELLETIZING LINE	
	1 WATER TROUGH	
	1 VIBRATION SIEVE	
4	1 PRODUCT HOPPER SPARE PARTS	
1	SPARE PARIS	

FOB Shanghai for whole set of extrusion line.

Payment: 40% down payment, then contract takes effect. 60% upon the acceptance of the machines by the Buyer's inspector at the Seller's factory and before transportation.

3.Configuration for TSE-65D Twin-Screw Extruder

No	NAME	QUANTITY	REMARK
1.0	Feeding system		
1.1	Twin-screw metering feeder:	1set	

CE



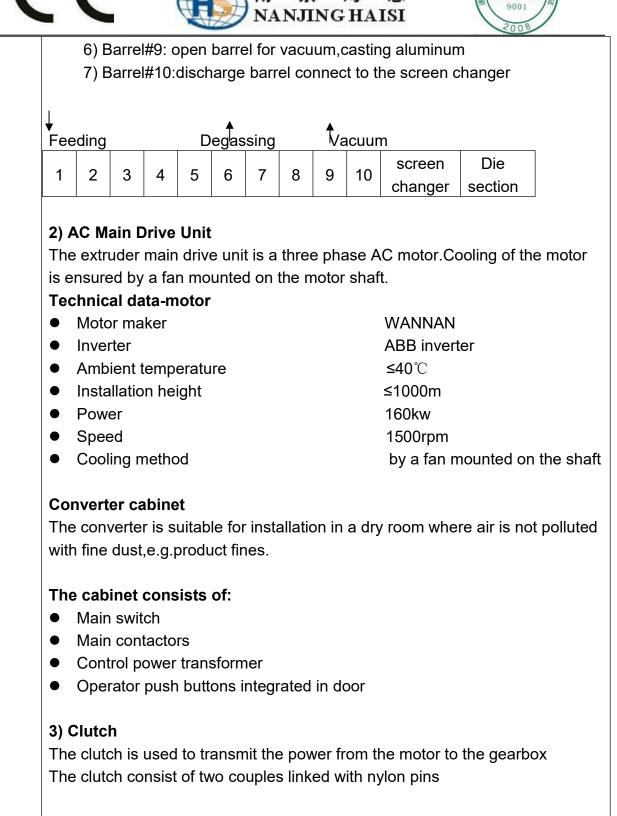


	NANJING ITAISI		
	motor power is 1.5kw. Speed regulated by ABB transducer.		
1.2	Two stage side feeder	1set	
	Forced feeder power: 2.2kw		
	Barrel material: α 101+45# steel		
	Feeding screws: twin screw, material of high s	speed anti-a	abrasion steel
	W6Mo5Cr4V2.		
2.0	Twin screw extruder		
2.1	Main extruder:TSE-65/600-160-40	1set	
	1) Screw diameter: 62.4mm.		
	Screw length(L/D):40		
	Screw speed:600rpm		
	Barrel number:10		
	The individual barrel section are designed as:		
	Barrel#1-10 made of bimetallic liners(45#steel+ α 101), processing heat		
	treatment.HRC=60-62.		
	A pair of screw shafts, complete with screw ele	monto:	
			Cr41/2
	Screw elements are made of high speed tool steel W6Mo5Cr4V2, HRC=58-60.		
	All barrel sections heated electrically and cooled by water. All the heating power:~37kw		
	Barrel arrangement:		
	1) Barrel#1: open barrel for feeding		
	2) Barrel#2-3:closed barrel, casting copper		
	3) Barrel#4-5: closed barrel, casting aluminium		
	4) Barrel#6: open barrel for side feeder,casting aluminum		
	5) Barrel#7-8: closed barrel,casting aluminum		

6







4) High torque type D Reducing and distributing gearbox

The gearbox reduces the motor speed to the speed of the screw shafts and distributes it to the two output shafts. Screw torque is 1273 N.m per shaft The gearbox consists of:

- Involute gear teeth couplings between the output shafts and screw shafts
- Integrated thrust bearing assembly, radial bearings of the output axis are NSK products





思

油

Bottom part of casing designed as oil sump Equipped with water plate condenser



5) Processing section Description Screw barrel

The flexible modular principle is realized with screw barrel sections from the wide range of different designs possible. Fast, intensive and uniform heating of the screw barrel section is ensured by electrical heaters. The barrel sections are cooled with water, by means of an internal bore system, with bores arranged close to the inside barrel wall.

Barrel sections are available as:

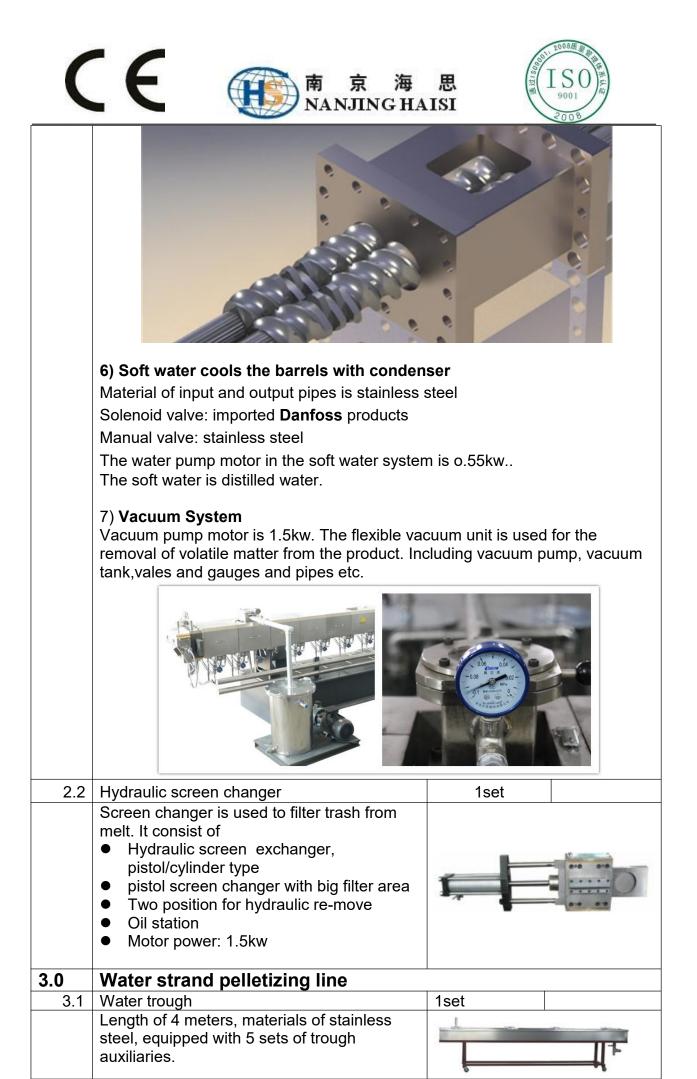
- Closed barrel section
- Barrel section with opening for material feed or for devolatilization
- Barrel section with top open for venting

The processing section is provided with stainless steel plates as a protection against accidental contact.

Screw shafts/Screw elements

The intermeshing screws co-rotate and wipe each other with narrow clearance so that no residues are left in the screw flight and clean effort is thus reduce.

- Screw elements with various pitches and lengths
- Kneading blocks with various angles of stagger, numbers of kneading disks and disk widths.
- Screw tips to fix the screw set axially
- Gear teeth connection to ensure power flow between the screw shaft and screw elements.

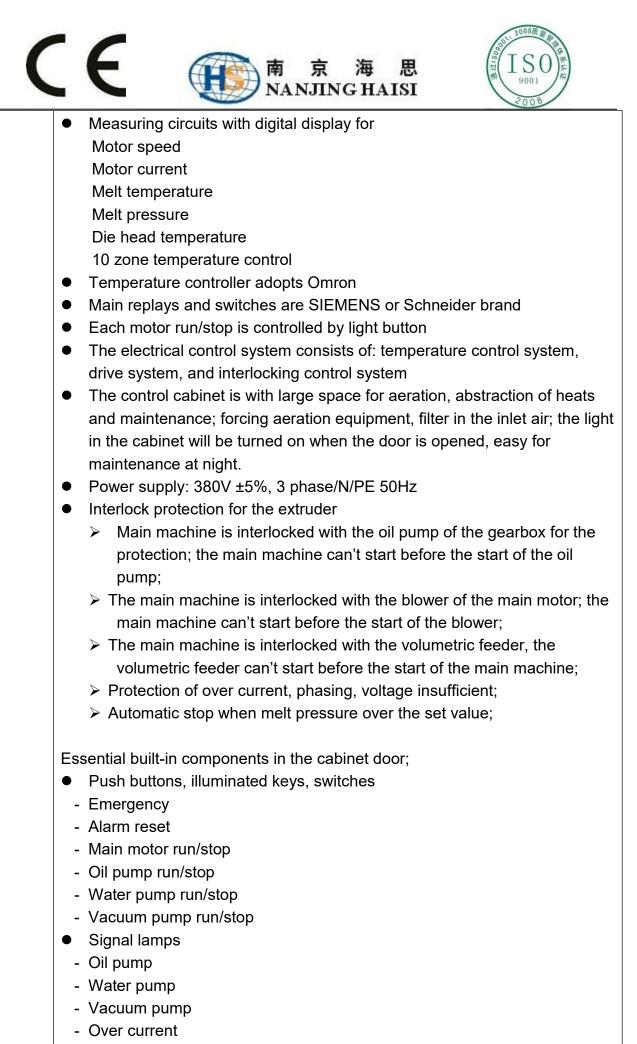


CE





3.2 Air kmife 1set Motor power of 2.2kw, with water collection function. Motor power of 2.2kw, with water collection function. 3.3 Granulator 1set Motor power of 7.5kw, speed controlled by ABB transducer. 1set Jub ABB transducer. 1set Motor power 0.22kw, vibrating area 0.35m ² . 1set Motor power 0.22kw, vibrating area 0.35m ² . 1set Motor power 0.22kw, vibrating area 0.35m ² . 1set Motor power 3kw, to convey granules to silo. 1set Motor power 3kw, to convey granules to silo. 1set Material of stainless steel, volume of 1.5M ² , equipped with conveying tube. 1set 4.0 Electric control cabinet 1set For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification: • Max. Ambient temperature: 40 °C 1set			2008
function. Iset 3.3 Granulator 1set Motor power of 7.5kw, speed controlled by ABB transducer. Iset ABB transducer. Iset 3.4 Vibration sieve 1 set Motor power 0.22kw, vibrating area 0.35m ² . Iset 3.5 Blower 1 set 3.5 Blower 1 set Motor power 3kw, to convey granules to silo. Iset 3.6 Product silo 1 set 3.6 Product silo 1 set 4.0 Electric control cabinet 1 set For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification: 1 set	3.2	Air knife	1set
Motor power of 7.5kw, speed controlled by ABB transducer. ABB transducer. 3.4 Vibration sieve 1 set 3.4 Vibration sieve 1 set Motor power 0.22kw, vibrating area 0.35m². Image: Control context of the set of		-	
ABB transducer. ABB transducer. 3.4 Vibration sieve 1 set Motor power 0.22kw, vibrating area 0.35m ² . 1 set 3.5 Blower 1 set 3.6 Product silo 1 set Material of stainless steel, volume of 1.5M ³ , equipped with conveying tube. 1 set 4.0 Electric control cabinet 1 set For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification: 1 set	3.3	Granulator	1set
Motor power 0.22kw, vibrating area 0.35m². Image: state of the		ABB transducer.	
3.5 Blower 1set 3.5 Blower 3kw, to convey granules to silo. 1set Motor power 3kw, to convey granules to silo. Iset 3.6 Product silo 1set 3.6 Product silo 1set Material of stainless steel, volume of 1.5M³, equipped with conveying tube. 1set 4.0 Electric control cabinet 1set For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification: 1set	3.4	Vibration sieve	1 set
Motor power 3kw, to convey granules to silo. Image: Conversion of the stain		Motor power 0.22kw, vibrating area 0.35m ² .	
3.6 Product silo 1set 3.6 Material of stainless steel, volume of 1.5M³, equipped with conveying tube. 1set 4.0 Electric control cabinet 1set For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification: 1set	3.5	Blower	1set
Material of stainless steel, volume of 1.5M³, equipped with conveying tube. 4.0 Electric control cabinet 1set For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification:		Motor power 3kw, to convey granules to silo.	
1.5M³, equipped with conveying tube.1.5M³, equipped with conveying tube.4.0Electric control cabinet1setFor indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification:	3.6		1set
For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions. Essential components as per machine specification:			
atmosphere, under normal ambient conditions. Essential components as per machine specification:	4.0	Electric control cabinet	1set
		For indoor installation within 5m to the extruder in non-hazardous atmosphere, under normal ambient conditions.	



- Over pressure

T F 思 亰 海 南 NANJING HAISI Digital indicators and controllers - N zone temperature control - Die head temperature control - Main motor current - Twin screw speed - Melt temperature - Melt pressure 1 handle for main circuit breaker **南京海尾桥出设备**有限: 女法 网络法语 路市 **Spare Parts** 5.0 5.1 Wheel box input and output shaft oil seal 6 pcs 5.2 Screw component 300 mm 5.3 Casting aluminum heater 1 pc 5.4 O-ring seals 3pcs 5.5 Solid state relay 2 pcs Instruction and tools 6.0 1pc Instruction for assembling and operation 6.1 1pc Instruction for electrical control cabinet 6.2 1pc

3. Exclusions

Toolbox

6.3

6.4

List of machine delivered

The following are not included in the scope of our supply

• The preparation of the site with all the necessary foundation work, ceiling openings etc.

1pc

1set

- The connecting cables from the mains to the switch unit and from this to the various motors and auxiliary units of our equipment.
- The electrical installation including the required safety devices outside the machine and switch unit

CE 前京海思 NANJING HAISI



- The connection pipes, gravity feed hoppers etc. between the various units supplied by us
- Any required frames, platforms, suspension devices, covers for feed hoppers etc
- The operating media such as oil, grease etc. as well as raw materials for starting up and operation
- All equipment and services which are not expressly stated in our quotation.

4. Explanations

1) Validity of quotation

The quotation is valid until 1 month after date of its generation.

2) Warranty:

Since the formal acceptance of users, from the date, the warranty period is one year.

After the warranty period, spare parts are provided at cost price.

If the damage is caused because of incorrect operation of customer self, we are not responsible for this damage.

Some spare parts such as screw component and electric heaters, are kind of consumer good. If need more, customers could purchase them from our company at cost price.

3) Delivery:

Delivery time is within 50 working days after contract takes effect.

The transportation inside China is undertook by supplier, and unload cargo is done by the customers. According to the cargo list, customer signs the cargo list. The transportation and insurance is undertook by customer from board of Nanjing port to the factory. After the whole line transport to the factory, lay the machines according to the layout drawing, then inform the supplier for commissioning.

Customer should supply the water & electric cooperation. The supplier will make a course to teach the customer operate the machines.

4) Packaging:

Supplier will follow the customer's requirements (ordinary sea worthy) to package the production line.

5. Engineering condition

- Electricity power:3-phase, 380V, 50Hz(Any difference, please tell us)
- Control voltage (transformed):220V AC
- Total consuming power:~230kw
- Cooling water: 4-6bar,≤25°C
- Industrial soft water: 150L/tank, ≤25℃

CE 南京海思 NANJING HAISI



- Compression air : 4-8bar
- Temperature of electrical control cabinet : $\leq 38^{\circ}$ C, free of conductive dust
- No necessity to make special base, the machine put on even load-bearing ground

6. After-sales & tech-service

- Offer installation and operation guide
- Offer acceptance check and trial
- Train service to the operator from buyer
- Spare parts supply for long-term
- Long-term technical consult service
- Warranty period for one year (for free) No contain the quick-wear parts.