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YADONG GROUP

中国青岛亚东机械集团



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Description



INVOICE NO.: JD20231120


DATE: NOV 20 , 2023

TO: Yazd Faravahar Oil seal Company

SHIPMENT: FROM: Qingdao,China

TO: Bandar Abbas,Iran

Goods Description	MODEL	QTY	UNIT PRICE	AMOUNT
Rubber Rolling Mixer 	XK-φ300*750	1SET		
Kneader 	X(S)N-25L	1SET		
Skeleton Oil Seal Press 	150TON	1SET		
Rubber Cutting Machine 	SC-600	1SET		

<p>Rubber Bale Cutter</p> 	<p>XQL-600</p>	<p>1SET</p>		

<< BUSINESS TERMS >>

1. PAYMENT TERMS:

1.1 Down payment : 30% by T/T paid in advance, then we will arrange the production.

1.2 Balance payment : 70% by T/T paid off before the machines are ready for shipment.

2. PACKING CONDITION: Suitable for long-distance transportation according to Exporting Standard.

3. DELIVERY TIME: 45 working days.

4. WARRANTY PERIOD:

1year According to National Standard, we will supply our Professional&Fast after-sale service and all the time.

5. BANK INFORMATION:

- **BENEFICIARY:** QINGDAO JUDONG INDUSTRY CO., LTD
- **Registration Number:** 913702207569379014
- **NAME OF BANK:** BANK OF CHINA QINGDAO BRANCH, QINGDAO ECONOMIC AND TECHNICAL DEVELOPMENT ZONE SUB-BRANCH
- **BANK ADDRESS:** NO.65, XIANGJIANG ROAD, QINGDAO ECONOMIC AND TECHNICAL DEVELOPMENT ZONE, 266555 , CHINA.
- **ACCOUNT NUMBER:** 228604391163
- **SWIFT CODE:** BKCHCNBJ50A

REMARK: QINGDAO JUDONG INDUSTRY CO., LTD Is the subsidiary company and the professional exporting department of YADONG GROUP. It is mainly in charge of the exporting working for YADONG GROUP.

CONFIRMED BY BUYER:

CONFIRMED BY SELLER:

<< MACHINERY DESCRIPTIONS >>

RUBBER ROLLING MIXER (RUBBER MIXING MILL)

MODEL: XK-300*750 (12 inch diameter)

1. Application:

- (1) The machine is a general equipment in rubber industry. It is mainly used for plasticating and mixing of rubber compounds or plastics materials, warming and sheeting rubber compounds, cracking and refining reclaimed rubbers.
- (2) It has strong adaptability to rubber, high output, good quality and obvious energy saving effect.
- (3) By high technology and new structure, the new opening-style mixing machine has the advantages of stable structure, low noise, high working efficiency and strong mixing-capacity, etc.

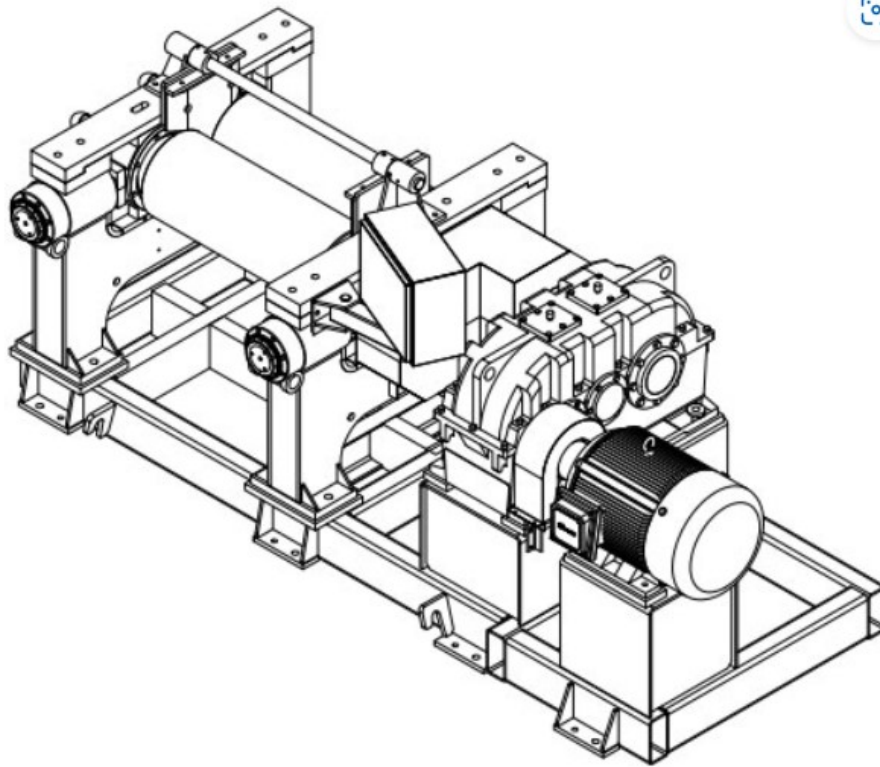
2. Main structure and characteristics:

- (1) This machine is a two roller rubber mixing machine, which is mainly composed of motor, reducer, speed ratio gear, front and rear rollers, bearing, frame, cover, base, distance adjusting device, parking device, lubricating device, etc. The base and frame are welded with steel plate and annealed after welding.
- (2) The front and rear rollers are installed in the bearing in the frame in parallel, and the motor drives the relative rotation through the reducer, rod pin coupling and speed ratio gear, so as to achieve the purpose of rubber mixing. The roller is made of centrifugal casting and cold hardening alloy cast iron, hollow structure, which can be filled with steam and cooling water to adjust the surface temperature of the roller. The hardness of the working surface is HS 68-75, and the roller surface has high hardness and smooth finish. The roller bearing seat is equipped with rolling bearing, the rear roller bearing seat is fixed on the frame, and the front roller bearing seat can slide back and forth on the frame guide rail.

3. Main Technical Parameters:

NO.	MODEL	XK-Ø300 (12")
1	Working diameter of rolls	Ø300 mm
2	Working length of rolls	750mm
3	Working linear speed of front roll	15.7m/min (can be designed as per your customized requirement)
4	Friction ratio of front and rear rolls	1: 1.25 (can be designed as per your customized requirement)
5	Max gap range	0~10mm
6	Capacity per batch	15~20kg
7	Driving motor power	22KW(AC)

8	Bearings of mixing rollers	Rolling bearing
9	Lubricating mode	Grease/Oil lubrication
10	Nip adjustment method	Manual
11	Power supply	As per Customer's demand
13	About weight	5500kg



4.General Mechanism :

- 4.1 Rolls set
- 4.2 Base and frame
- 4.3 Roll adjusting nip device
- 4.4 Rubber guard set
- 4.5 Material tray
- 4.6 Transmission system
- 4.7 Overload protection system
- 4.8 Emergency brake system
- 4.9 Lubricating system
- 4.10 Rubber cutting system

4.11 Electrical control system

5. Detailed Specification:

5.1 Rolls set:

5.1.1 The rollers are made of **high quality chilled cast alloy iron after annealing treated and precision grinding. It is very hard, beautiful and very clean**

5.1.2 The inner of roller is hollow, steam or cooling water can pass through it, so the roller temperature can be adjusted (cooled/heated).

5.1.3 The active surface of the roller possesses higher hardness and fine wear-resisting.

5.1.4 Adopting high quality bearings (8pcs bearings for each machine), and guarantee machine's more stable quality and performance.

5.2 Base and Frame:

Base frame is annealing treated , with whole piece welding to make the machine more stable and stronger.

5.3 Roll space adjustment device:

The rolls nip is adjustable by manually safely and operation conveniently.

5.4 Rubber guard set :

The rubber guard set can be fixed or moved between two sides of the machine as per your demand.

5.5 Material tray: Adopt high quality steel board to make it.

5.6 Transmission system:

Adopt professional rubber mixing mill ZSY type Hardened Gear Reducer, to guarantee the machine of stable and

excellent performance.

5.7 Overload protection system:

The machine is equipped with an overload protection device to prevent the major components from being damaged due to overloading.

5.8 Emergency brake system:

5.8.1 Furnished with high quality Electro-Hydraulic drum brake, when the power is on, the machine is off rapidly, it is very safety.

5.8.2 The emergency bars are fixed on **the Left, Right, Front and Back** of the machine frame for your convenient operation.

5.9 Lubricating system:

Adopt grease lubricating method, operation convenient, guarantee good lubricating performance and clean environment.

5.10 Cutting system:

The machine is equipped with professional **cutting attachments** for cutting rubber sheet more conveniently.

5.11 Electrical control system:

Adopt high quality and famous brand electric components, the operation is convenient and safely.

User can connect the box to the out power supply directly when use the machine.

6. Main Parts Origin List :

6.1 Main motor :

Siemens motor, HUALI motor, LEADGO motor or KAIYUAN Motor

Famous brands, very high quality.

6.2 Main Gearbox reducer :

GUOMAO or KAIBO

Very famous in China, Top brand in China

6.3 Rolling bearings :

ZWZ brand

Best quality bearing brand of China

6.4 Low-voltage apparatus :

CHINT ,DELIXI, OMRON

Famous brands

6.5 Button and indicating light :

Schneider brand

Famous brand in world

6.6 Roller :

Dalian BaoFeng Roller Manufactory,

Best quality and famous brand of China

7. Accessories:

NO.	PARTS NAME	POSITION
1	Elastic rings	Coupling device
2	Safety gaskets	Safety device

KNEADER

MODEL: X(S)N-25L

I . Working Environment and Application

1. Application: Used for rubber or plastic material plasticizing, mixing, or rubber and plastic blending.
2. Working Environment Temperature: 5°C~40°C
3. Relative Humidity: ≤ 60%
4. Noise: ≤85 dB
5. Atmospheric conditions: Good. No acid, alkali, or any other etchant gas

6. Water: softened water, or industrial pure water
7. Pressure of Cooling Water: 0.3~0.4 Mpa
8. Temperature of Cooling Water: 25 ± 5°C
9. Lighting Condition: Good
10. Pressure of Compressed Air: 0.6~0.8 Mpa

II. Supply Range

1. Stock pressing device1 set
2. Rack1 set
3. Mixing device 1 set
4. Tilting device1 set
5. Reducer1 set
6. Support 1 set
7. Belt transmission device1 set
8. Pneumatic control system.1 set
9. Heating and cooling system 1 set
10. Support of limit1 set
11. Base1 set
12. Main motor1 set
13. Electric control cabinet and operation station1 set
14. Dusting outlet1 set
15. Full set of technical documents2 sets

III. Main Specifications

1. Total volume of mixing chamber: **55L**
2. Working volume of mixing chamber: **25L**
3. Rotational speed of rotors: 32/27
4. Pressure of compressed air: 0.6~0.8 MPa
5. Pressure of cooling water: 0.2~0.4 Mpa
6. Pressure of heating steam: 0.5~0.8 Mpa
7. Tilting angle of mixer chamber: 140°
8. Driving part:

Main motor

Power: **37Kw (AC)**
Voltage: As per customer demand

Hydraulic tilting motor

Power: 3 Kw
Voltage: As per customer demand

9. Overall dimension: 2675×1650×2560 (mm)

10. About weight: ~ 5500kg

IV. Working principle and structure features

The working principle of this machine is similar to the ordinary internal mixer. Under the pressure of ram, the two rotors shear, extrude, and stir rubber (plastic) materials at different rotational speed in the pressure-tight mixing chamber, and finish the process of mixing or plastication.

1. Mixing Device

The mixing chamber is made up with W-shaped middle body and left & right side plates. Front and rear rotors are respectively installed on the left and right side plates, adopting the annular barrel bearings and bearing sleeves.

Left and right side plates are Jacket structure with cooling (heating) cavity. Material contact surface of the mixing chamber is chrome plating processed. Thickness: 0.15mm, Hardness: HV900~1000.

The rotor's screw wing body is welded on the shaft. On the surface of screw wing body and rotor's seal face are build up welded with abrasion resistant alloy. (Thickness: ~5mm Hardness: 50HRC) Material contact surface of the whole rotor is chrome plating processed. (Thickness: 0.15mm Hardness: HV900~1000)

Advantage:

Low noise, high torque, good durability, safe and convenient operation, high production efficiency.

- High quality rotor part, with very durable performance.

The seal ring we adopt is made from heat resisting and abrasion resistant bronze and PTFE material of small expansion coefficient. Adopt no oil lubrication for the friction face to ensure the seal effect and to protect the material from being polluted.

2. Transmission system

The drive system is made up with main motor, belt, and reducer. Through the inner gear coupling, the output shaft of reducer drives friction gears, and front and rear rotors will rotate at different speed.

3. Tilting device and the driving device

- hydraulic control titling mode

Adopt hydraulic control titling device, the performance is very good and durable. The mixing chamber will overturn forward to discharge stock, and will stop by 135~140°when it touches the limit switch. After discharging, the mixing chamber will return to the home position by touching the limit switch.

4. Pressing Device and Pneumatic Control System

The pneumatic station drives the ram of pressing device to pressurize the compound. The ram is of W-shaped jacketed structure. Cooling water can be poured into the jacketed cavity. The material contact surface of ram is plated with hard chromes.

5. Heating and cooling system

The equipment is installed with a set of cooling (heating) pipeline. Because all the material contact surface of this machine is of jacketed structure, and all the inlet and outlet pipelines are installed with stop valves, the cooling/heating effect is very good.

V. Electric Control System

We adopt Siemens PLC as main controller. The main electrical components are made of DELIXI/CHINT and other excellent domestic products,The whole electric control system is easy operating, safe, and reliable.

VI., List of main parts and auxiliary equipment

No.	Item	Origin and brand
1	PLC	SIEMENS, Famous t brand in the world
2	Pneumatic component	YONGYI ZHEJIANG, Famous t brand of China.
3	The motor	DALMO / BEILONG , Famous t brand of China.
4	Reducer	KAIBO, Famous t brand of China.
5	Low-voltage Electrical components	DELIXI/CHINT, Famous t brand of China.
6	Rotary joint	AOXUAN SHANDONG, Famous t brand of China.

SKELETON OIL SEAL PRESS

MODEL:150T

1. Main Technical Parameters:

NO.	Technical Parameter	150T	Remarks
1	Nominal mold clamping force	150Ton	
2	Heating plate specifications	Upper heating plate: 420mm×460mm	Formwork board: 410mm*475mm
3		Down heating plate: 420mm*460mm	
4	Number of hot plates	2pcs	

5	heating method	Electric heating	0-250°C
6	Temperature control method	Smart digital display	Smart digital display temperature
7	Piston diameter	Φ320mm	Material: Chilled alloy
8	Number of cylinders	1SET	
9	Hot plate spacing	200mm	
10	Master cylinder maximum stroke	200mm	
11	big pillar	φ 80mm	
12	System usage pressure	20Mpa	
13	structure type	Four column	
14	control method	PLC Control	
15	Pressure setting method	Pressure sensor control	
16	Motor Power	5.5KW	
17	total heating power	10KW	
18	Machine weight	3000KG	

2. Main performance characteristics:

1. The equipment has the functions of automatic rise, automatic exhaust, automatic pressure compensation, automatic constant temperature, vulcanization timing, time alarm, automatic descent, up and down ejection, etc.;
2. Description of the main components of the host
 - 2.1. Column: The material is made of medium carbon quenched and tempered and processed, and the surface is plated with hard chromium axis. The surface hardness is HRC55-58. Size: φ 80mm;
 - 2.2. Oil cylinder: The material of the oil cylinder is high-quality QT500-7, the bore diameter is Φ320mm, and the quantity is 1 piece.
 - 2.3. Machine body: AUTO CAD-assisted mechanical design is used. The ductile iron QT-500 is age-passivated and has high strength and toughness. The tensile strength is 50kgf/mm.
 - 2.4. Plunger: The plunger is made of LG-P chilled hard alloy material. This material has high surface hardness and is not easy to wear. The depth of the chilled hard layer is 8-15mm and the hardness is HRC60-70 degrees, which improves the overall service life of the plunger.
 - 2.5. Rails for entering and exiting the mold: The sliding surface is made of S50# steel and is heat-treated to HRC 55-58, and is equipped with bearings to ensure stable sliding in and out of the mold. Long wear life. The slide rail and the hot plate are separated to prevent the temperature of the hot plate from dissipating and saving electricity.
 - 2.6. Seals: The cylinder seals use YX-type polyurethane oil seals, which are oil-resistant, aging-resistant and wear-resistant.
 - 2.7. Heat insulation board: The heat insulation board is made of high-quality calcium silicate board, with a pressure resistance of

3.5Mpa and a thermal insulation coefficient of 0.031.

2.8. Hydraulic system: The main hydraulic components are from Taiwan's brand, which are easy to purchase and replace, with reasonable layout and easy maintenance and repair.

2.9. Electrical system: The main PLC electrical components of this machine adopt the internationally renowned brand OMRON from Japan. The electrical device has small size, compact structure, fatigue resistance, and is adaptable to continuous high-intensity work.

3. List of main parts and auxiliary equipment:

NO.	Item	Brand
1	PLC Control system	Mitsubishi (Japan)
2	Touch screen	Weinview (Taiwan)
3	Double contact pressure gauge	Danfoss (Denmark)
4	Temperature module	OMRON (Japan)
5	AC contactor	Schneider (France)
6	Inductive switch	Yang Ming (Taiwan)
7	Push button switch	IDEC(Japan)
8	Motor	YUANPAN(China)
9	High pressure oil pump	HYTEK (Taiwan)
11	Heating control system	Yang Ming (Taiwan)
12	Electromagnetic valve	SEVEN-OCEAN (Taiwan)
13	Prefill valve	Taiwan brand
14	Sealing parts	NOK(Japan)
15	Heat pipe	Taiwan brand
16	Steel material	45# Steel

RUBBER CUTTING MACHINE

MODEL:SC-600

MAIN TECHNICAL PARAMETERS:

Equipment Name		SC-600 CNC rubber sheet slitting&cutting machine	
Voltage	380v 50Hz	←	Internal structure
Cutting width(max.)	600 mm		

Cutting thickness(max.)	20 mm
Crosscutting range	0 ~ 9999 mm
Cutting range	25 ~ 600 mm
Cutter material	High quality Inlaid edge steel
Slitting circular blade quantity	25 PCS
Cross-cut size adjustment method	Touch screen by PLC control.
Cutting size adjustment method	manual adjustment
Crosscut motor power	1.5kw+ reducer
Slitting servo motor	1.8kw (servo motor) + reducer
Weight	700 kg
Dimensions	1100×1200×1400 mm

- **PLC System: Mitsubishi Brand, Japan**
- **Cutting Blade: Japan brand or Famous brand made in China**
- **AC Contactor: Schneider Brand, France**

RUBBER BALE CUTTER

MODEL: XQL-16

1. Application:

This machine is mainly used to cut the natural rubber, synthetic rubber, and other plastics materials, especially it is suitable to be installed near the rubber mixer to cut small piece of rubber.

It mainly consists of rubber knife, frame, cylinder, base, auxiliary table, hydraulic system, and electric system. The lead is casted on the base under the rubber knife for protecting the edge of the rubber knife.

When cutting the raw rubber, put the raw rubber under the rubber knife, then press the start button, the knife can cut the rubber.

Two limit switches are installed on the frame to control the reversal valve to change the movement direction of the rubber knife, at the same time it protects the cover of the cylinder.

➤ **In addition, the machine has the following features:**

1. Reliable hydraulic system ensures efficient and stable operation;
2. It has three working modes to facilitate production management;
3. The whole machine adopts an all-steel structure, which is sturdy and durable and has a long service life;

2. Main Technical Parameters:

NO.	MODEL	XQL-660
1	Power Supply	According to customer's demand
2	Cutting width	660mm
3	Stroke	600mm
4	Total Pressure	30Ton
5	Main motor power	5.5kw
6	Cutting speed	10-50 times/minute
7	Knife materials	Hard Alloy Steel
8	Overall dimensions	1200×1200×2100 (mm)

3. Electric Principle:

1) General explanation

Before operation, you should check the circuit and each contact in accordance with the electric diagram, and also check the running direction of the motor.

2) Electric equipment maintenance

- (1) All electric equipment should be grounded.
- (2) Contacts should be tightly closed for fear of oxidation and overheat.
- (3) All contacts of relay should be kept clean, and the wear-out contact should be changed. It is not allowed to lubricates the contact with lubricant. The dirt on the contact should be cleaned by using the sand paper or fine file.

(4) Periodically check the motor and change the grease in the bearing.

4. Hydraulic system

The hydraulic system is installed in the left side of the primary machine. It consists of paddle pump, overflow valve, electromagnetic reversal valve and so on. The oil in the container is used by the oil pump. Our recommended oil are N32 and N46 machinery oil. Before pouring the oil into the container, it should be filtered for fear of dirt coming into the container.

The oil from the geared pump goes into the cylinder through the electromagnetic reversal valve, thus makes the knife go down and cut the rubber. After cutting, the low limit switch makes the knife go up. The upper limit switch makes the knife stop at certain position.