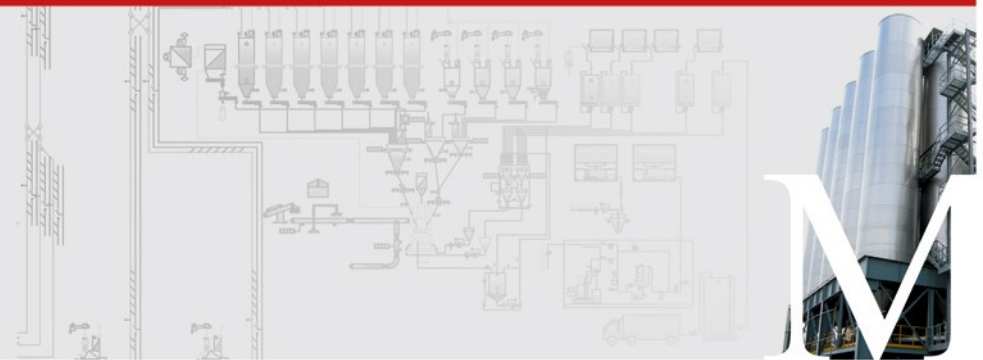


MESNAC

Mixer Feeding System

QINGDAO MESNAC CO., LTD.

Add: No.2 New York Road, Qingdao Free Trade Zone, China
Postal Code: 266555
Office Add: No.1 Zhengzhou Road, Qingdao, China
Postal Code: 266045
Fax: 86-532-84011804
Tel: 86-532-84011481 84011482
Website: www.mesnac.com
E-mail: info@mesnac.com



General Introduction

Rubber & Tire Machinery Manufacturer



Reliable with Low Price

- high quality level
- most economic success
- system with just enough essential parts and designed with ergonomics
- perfect design for operation in 24 hours per day, 365 days per year

One-stop Service

- understanding customers' requirements correctly
- optimized complete solutions to various situations
- designed suitable for your measurement
- powerful project management (turn-key ability)
- strong ability to modify and upgrade your existing systems
- short delivery period, cut time waste
- in-time, long-term and closest customer service (Europe service center, India service center.....)

Full of Experience

- more than 90% domestic market share
- provide systems (including turn-key project) or service to our customers all over the world. (UK, Italy, Romania, Hungary, Poland, Russia, Thailand, India, Iran, Japan, Brazil.....)
- team with experienced specialists and skilled technicians
- specialized in handling various materials (including sulphur)
- own two R&D centers: Powder Handling Technology Centers, Mixing Rubber Test Center

GREEN Workshop

- maximum energy saving
- dust free and enjoyable clean environment
- complied with European emission regulations

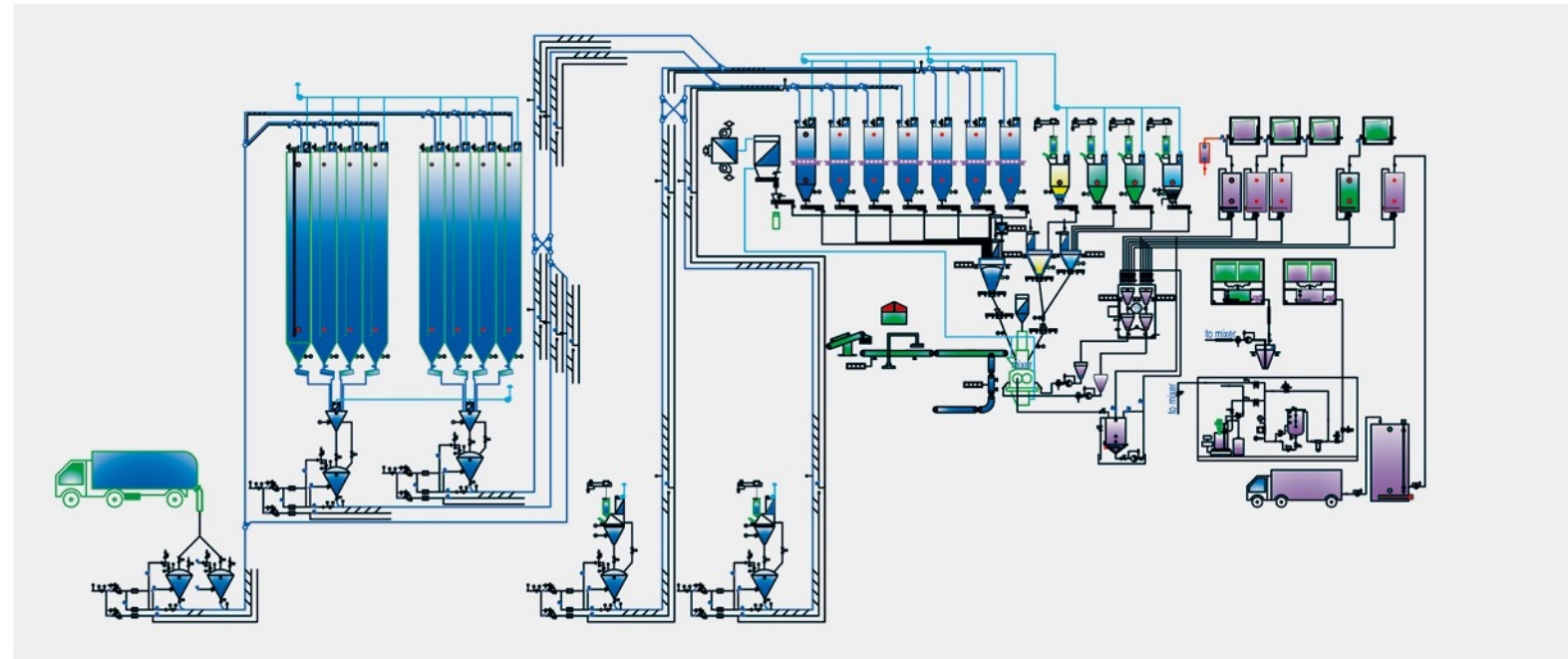


With thousands of systems' manufacturing experience, QINGDAO MESNAC CO., LTD. is known as today worldwide: the technology leader of rubber handlings, especially in mixing shop. We've gained more than 90% domestic market share and reached the top 20 tire equipment manufacturers of the world.

Mixer Feeding System

The mixer feeding system is an intelligent and automatic feeding system with high-tech researched and manufactured by MESNAC used for rubber and tire industry. The system adopts widely modern IT technology with in-depth development of information resources and integrates process control with production plan, material management and quality tracing, realizes control and management by one system.

- The system has been serialized, used for mixer with different capacity and different client requirements, can apply to:
- Bulk pneumatic conveying system with different packing form (sack, big bag, truck)
- Auto-batching and weighing system for different materials (powder, particle, liquid, etc.)
- According to clients' need, PLC, industrial computer and instrument of SIEMENS, MITSUBISHI, AB, OMRON can be used.
- According to clients' need, mixer supervising and controlling can be combined with the feeding control system
- Different feeding system supplied by other supplier can be rebuilt and maintained
- Overall energy saving reforming of compressed air and steam used in client's whole product process can be carried out



Day Bin



Slab Cutter



External Bypass Conveying Pipeline



Powder Scale



Paper Bag Discharge Station



Dust Collector



Oil Scale



Blow Tank



Silo

System Characteristics

Pneumatic conveying system

Advanced air control technology--low energy consuming and material degradation

- Save air consuming about 5-25% comparing with the similar system
- Carbon black pellet degradation no more than 5%(L<100m)



Adjustable laval nozzle, regulate air flow continuously

High conveying capacity and long distance

- Max.conveying capacity 30T/hr
- Max.conveying distance 300m



External by-pass structure and optimum boosting control mode

Material blending--cuts down cost and improves product homogeneity



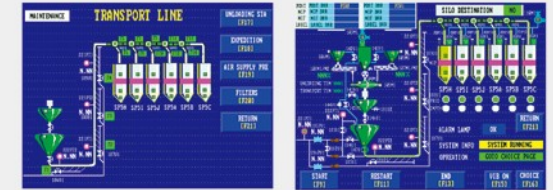
Safety, reliable and environment friendly

- Receiving silo duplex protect with pressure switch and safety valve
- Dust detecting and alarming
- Conform to CE explosion proof directive



Intelligent control system

- Running with load, high/low capacity conveying, auto optimizing conveying parameters



Batching, discharging system

Quick dosing, high precision and fast discharging

- Double-screw feeder with increment pitch and inverter control
- Auto-scale aligning function
- Powder scale with respiring balance device
- Scale hopper and discharging unit with flexible structure



Secure mixing compound homogeneity

- Several sets of slab cutter arrangement feeding
- Intelligent mixing control

Main equipments and features

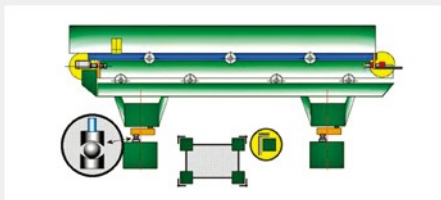
Slab cutter

- Swing anvil with rotary cutter cutting mode
- High precision interference adjusting mechanism
- Max. cutting thickness 20mm
- Max. sheet width 1200mm
- Cutting length 10-350mm



Rubber scale

- Four sets of cantilever weighing modular
- No joint belt, worm gear reducer driving with inverter control
- Stainless steel side fence plat



Powder scale

- Liner shaking with air cylinder
- Rationale respiring balance device
- Auto-scale aligning function



Oil scale

- Stainless steel structure
- One scale hopper with 2 collecting hoppers and 2 injecting pumps
- Two valves controlling oil feeding



Screw feeder

- Increment pitch
- Double screw structure
- Quick, slow and dot feeding with inverter control
- PTFE stuff seal



Dust collector

- Pulse-jet filtering bag structure
- Bag made of oil proof, moisture proof and anti-static electricity material
- Pulse control with differential pressure or time
- Conform to explosion proof need
- Dust emission content no more than 5mg/m3



Control system of mixer feeding system

General introduction



Control software(PLC) is the key of control system, using PLC with powerful function to realize. Several control modes: manual mixing and manual weighing, auto mixing and auto weighing, auto mixing and manual weighing, manual mixing and auto weighing. According to clients need, the PLC, industrial computer and instrument of famous product such as SIEMENS, MITSUBISHI, AB, OMRON can be used.

Management software system

- Alarming message self definition
- Providing data record form
- Equipment malfunction diagnosing online
- Production plan management
- Production formula management
- Manual reporting function
Realizing material auto/manual weighing data reporting form completely, weighing time, weight data, total weight can be reported while switching over
- Raw material consuming statistics function
- Dynamic monitor function
- Intelligent mixing function





Qingdao MESNAC Co.,Ltd maintained long term ties with many famous rubber & tire manufacturers. The products of our company have been selected by over 300 rubber & tire manufacturers in dozens of countries and regions. Till now, we have established 9 large regional service centers covering the whole world to guarantee your selection.

