



Powder feeding system

Brief introduction:

- The system is divided into main silo system, configuration system, conveying system and automatic control system.
- Outdoor silo system: it is composed of silo, silo top dust collector, safety valve, arch breaking and density compensation device, metering feeder, screw conveyor, level meter, weighing system and other main components.
- The configuration system consists of preparation tank, frequency conversion mixer, solenoid valve, pressure transmitter, electromagnetic flowmeter, electric valve and other main components.
- It covers a small area and can save a lot of land area.
- A variety of optional configurations to meet the needs of different customers.



Density compensation air raid shelter device:

Our company has developed a set of silo powder density compensation device, which is characterized by changing the phenomenon that the material density at the bottom of the silo changes with the change of material level, so as to make the dosage of powder more accurate.

Advantages of adding Ca(OH)₂ in tap water industry

- Adjust pH value: adjust the pH value of water quality, improve the water quality of the effluent plant and improve the sense of drinking water inlet.
- Reduction of operation cost: take the original pH of 6.5 and the adjustment of naoha or Ca(OH)₂ to 7.1 as an example.
- In terms of dosage, Ca(OH)₂ has obvious advantages.
- Taking the water plant with 100000 tons/sweet water as an example, using Ca(OH)₂ as additive can save about 60000-70000 USD/ year.

Type processing capacity	10000 tons/day	100000 tons/day	200000 tons/day
NaOH	0.095t	0.95t	1.9t
Ca(OH) ₂	0.088t	0.88t	1.76t
Coagulation sedimentation	The addition of lime can also increase flocculants in the water body and enhance the physical effect of water settlement. The Ca (OH) 2 molecules entering the water play the role of flocculation core and promote the coagulation and settlement of suspended solids, flocs and other impurities in the water to form sludge.		
Adjust water hardness	The soft hardness of water quality is adjusted by adding Ca (OH) 2 molecule.		



Protection of equipment	When the pH is above 7, the corrosion of acid substances on plant equipment and pipe network can be reduced, so as to greatly reduce the operation, management and maintenance cost.
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- ★ The unique powder oscillation system can effectively solve the problem of powder cavity.
- ★ Sensitive and accurate semi suspension weighing system.
- ★ The external dimension of the tank can be reasonably designed according to the customer's requirements and the site environment. The tank can be either square or round.
- ★ In order to ensure the continuity and stability of the dosage, the storage tank is specially added to make the solution concentration output constant.
- ★ The proportioning concentration of 0.5% ~ 5% can be adjusted freely during operation. The whole system operates automatically, which can reduce human resources.
- ★ Low power consumption, low operation cost and management cost.
- ★ The type, model and quantity of dosing pump shall be selected according to the actual needs, and the pipeline shall be made of stainless steel or other materials.
- ★ The automatic control system carries out closed-loop control through flow signal and pH value to achieve full-automatic unattended.
- ★ During the automatic operation of the dosing system, the equipment can be manually controlled to facilitate maintenance.
- ★ Human machine interface with touch screen can only be used, and all data can be displayed in real time; The adjustment of system parameters is simple and reliable.
- ★ Fully automatic sediment and slag discharge system, slag water separation and recovery system.
- ★ Keep displaying the time and content of the last 300 fault records.
- ★ You can choose a variety of ways to communicate with the outside world for real-time monitoring.