

Water circulation wash-box

Clean · Efficient · Environmentally friendly

Water Filtration Treatment Unit.

Product introduction

The traditional belt conveyor cleaning method is to use the cleaners installed at the discharge area of head pulley, cleaning the adhering material particles on the return side. The cleaning effect of the cleaners depends largely on the characteristics of the material, the belt surface is good or bad, the material of the blades and the degree of adhesion with the belt surface, especially in the cleaning of sticky small particles of material, there will often be some uncleaned smaller sticky material bonded to the return conveyor belt surface leading to carrybacks.

Boton's intelligent water circulation wash-box washes the belt surface with hi-pressure water flow to remove fine particles while cleaners clean the belt. Water scraper removes the residual water on the belt surface together with air flow to dry the belt. The material under flushing can be processed through sedimentation tank, the material after sedimentation goes into the silo, and the water is recycled after being processed by filtering and cleaning device. It improves the cleaning efficiency, is more friendly to the environment and saves resources.



High-pressure water treatment unit.

Water circulation wash-box

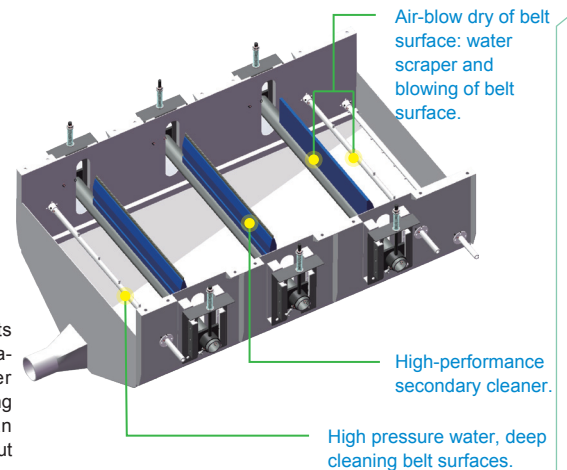
(combined with on-site sewage collection pool to realize closed-loop cleaning cycle)

The cleaning part

The cleaning part consists of secondary cleaner, water scraper, water blade, air blade, box body washing and so on integrated to realize dynamic belt surface cleaning and air drying.

Water cycle purification device

Water cycle purification device according to the use of requirements can be divided into: sewage collection unit, a combination of formulation dispensing unit, comprehensive coagulation reaction, water residue separation and deep purification of water and so on. According to the site conditions to choose the water treatment function, can realize the complete purification of water circulation, purification without circulation or purified water rinsing without circulation.



Features and strengths

- ★ The standard cleaners clean the belt surface, and the high-pressure water flow cleans the belt surface in depth to ensure the thorough removal of fine dust.
- ★ Pneumatic-hydraulic tensioning: In addition to the standard spring tensioning, the sweeping device can adopt a unique pneumatic-hydraulic tensioning structure to maintain constant pressure.

- Preliminary filtration of the cleaning water ensures the life of the system.
- According to the running status of the belt, it can realize: intermittent operation, continuous operation, independent local operation and remote auxiliary operation.
- Concentrative flushing can be configured: after the accumulation of materials in the scraping area, a large amount of water is used to flush the accumulated materials through one-time flushing.
- Adopting PLC as the core control element, with independent control system. The system device has interlocking and unlocking functions with the host system.

Technical parameters and selection guide

Category		Parameters	
Belt width		600mm~2400mm	
Belt speed		~5.5m/s	
High-pressure water system pressure		3.5MPa	
High-pressure water system flow		6m³/h	
Filtering flow		6m³/h	
Category		Parameters	
Voltage level		380V	
System power		8.5kw	
Exterior Dimensions		Control box 1600mm*1500mm*1000mm	
Weight		550kg	

Ordering information

Clean water rinsing without recirculation

Belt width(mm)	Item code	Belt width(mm)	Item code
650	BTZN-CLWS650-C	1600	BTZN-CLWS1600-C
800	BTZN-CLWS800-C	1800	BTZN-CLWS1800-C
1000	BTZN-CLWS1000-C	2000	BTZN-CLWS2000-C
1200	BTZN-CLWS1200-C	2200	BTZN-CLWS2200-C
1400	BTZN-CLWS1400-C	2400	BTZN-CLWS2400-C

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Boton focuses on providing intelligent service solutions for industrial bulk material handling. Our main business includes intelligent turnkey service, overall solutions for intelligent conveying, retrofit projects focuses on energy saving, environmental protection and green transformation etc. We took the lead in launching a new model of "integrated general contracting services for conveying systems" in China which changed the situation of different value orientations in the traditional product sales model. This new model speeds up marketization of new technology & new products and has been recognized by many customers domestically and globally.

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