

Simple/Reliable/Green/Efficient

大牧人  
Big Herdsman

## AUTOMATIC MANURE CLEANING SYSTEM

The automatic manure cleaning system is a vital component of modern poultry farming, designed to efficiently clean manure, improve farm sanitation, and enhance biosecurity. The system comprises three modules: in-cage longitudinal cleaning, horizontal-inclined cleaning, and central cleaning systems.



WEBSITE

✉ [bigherdsman@bigherdsman.com](mailto:bigherdsman@bigherdsman.com)



**EGG** PRODUCTION



## Inside Manure Cleaning System

The longitudinal manure cleaning system in the cage is mainly to regularly remove the chicken manure in the cage from the longitudinal conveyor belt inside the cage to the horizontal manure cleaning machine outside the cage to clean chicken manure in the chicken house. The system is mainly composed of three parts: rear end drive device, front end driven device and manure belt.

- The system adopts well brand motor, with good overall strength and stable operation.
- Drive roller adopts high quality structural steel drive roller with hot dip zinc, corrosion resistant, stable operation and long service life.
- The belt pressing roller is a segmented rubber pressing roller, which can effectively prevent the deviation of the manure belt.
- The pressing roller is equipped with a pressing mechanism, which can effectively prevent the manure belt from slipping.
- Adopt double-channel PU material one-piece open mechanism of excrement cleaning scraper, close to the excrement belt, clean excrement scraping, convenient operation.
- Nylon spiral driven roller at the front can easily export chicken feathers and other sundry things without hurting the manure belt.
- The front end with high PVC inner scraper can effectively prevent chicken feathers and other sundries from entering the driven roller.
- PP material conveyor belt, wear resistance, anti aging, low friction coefficient.



## Outside Manure Cleaning System

The outside manure cleaning system includes horizontal - lifting manure removal system and central manure removal system in the field area. The indoor horizontal manure scraper is used to transport the manure transported by the longitudinal conveyor belt in the cage to the outdoor inclined manure scraper which is used to transport the manure to the manure truck, manure scraper on the farm or designated storage area outside. The manure delivery system on the farm is mainly used to deliver manure of multiple poultry houses intensively to the organic fertilizer room or the position designated outside the farm, which can greatly reduce the manure removal time on the farm, reduce the labor, lower the environmental pollution risk of the farm, and improve the biological safety of the farm.

- Profile welded hot-dip galvanizing frame-type main structure, with rust prevention and corrosion resistance, and high strength.
- The belt pressure roller driving structure is suitable for complex working conditions, such as diluted manure, rain water and slippery conditions, and can effectively prevent the manure conveyor belt from slipping.
- Chain tension transmission mechanism can avoid the phenomenon of chain skipping.
- Multi-channel scraper blade structure facilitates high efficiency of manure belt cleaning.
- The scraper blade handle structure is simple, convenient, practical and clean.
- Anti-deviation structures are provided at front and rear ends to ensure no deviation of the manure conveyor belt.
- Annular rubber conveyor belt is wear-resisting anti-corrosion and durable.
- Different lap joint schemes for manure scraper, Multiple transportation modes such as underground, above-ground and overhead transportation, applicable to complex terrain conditions.



## BIG HERDSMAN MACHINERY(JIAOZHOU) CO.,LTD

Add: Shangde Avenue and Huanghe Road Intersection, Jiaozhou Economic and Technological Development Zone, Qingdao City, Shandong Province, China

Tel: +86-532-6696 2297 / +86-532-5850 3988

Website: [www.bigherdsman.com](http://www.bigherdsman.com)



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