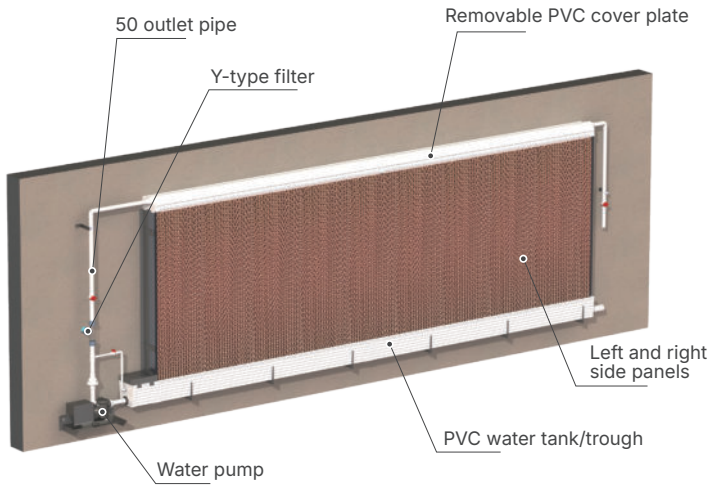


EVAPORATIVE COOLING SYSTEM | INLET



Features of Integrated Evaporative Cooling System

- Built-in integrated water tank eliminates the need for additional water curtain pools, reducing costs;
- The water tank is made of thickened PVC material, offering anti-aging properties and a long service life;
- Built-in integrated water tank eliminates the need for additional water curtain pools, reducing costs;
- Equipped with an automatic water replenishment function to prevent dry operation of the water curtain;
- A drainage outlet at the bottom of the tank allows easy discharge of wastewater with no residue;
- The water pump is configured with top domestic brands, guaranteeing reliable quality.



Integrated Cooling Pad Parameter Configuration

Water Pump Model	Rated Power	Maximum Flow Rate	Maximum Head (Or Maximum Lift)	Wet Pad Length
STP50	0.37kw	12.6m³/h	11m	0-6m
STP75	0.55kw	14.4m³/h	10.5m	6-12m
STP100	0.75kw	16.5m³/h	11m	12-15m
STP120	0.9kw	18m³/h	13m	15-18m



- Ammonia, hot air, and other gases accumulate in the upper part of the pig house, facilitating their exhaust;
- Materials available include PE/PVC, with weights of 200g/m² and 500g/m² respectively;
- The top-to-bottom opening method helps reduce cold drafts directly hitting the pigs, minimizing cold stress;
- Drive options include manual and electric; features superior UV resistance and a long service life;
- The recommended maximum length for top-open curtains is 20 meters.



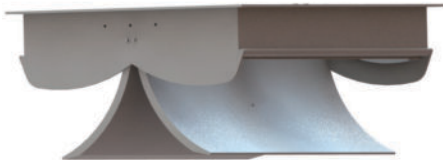
- Customizable dimensions to meet design requirements.
- Made of sunlight (polycarbonate) panels with excellent thermal insulation (superior to sliding curtains).
- Sealing strips between adjustable upper and lower panels ensure high airtightness.
- Manual, electric, or hybrid (manual/electric) operation for opening/closing.
- Louver blades guide airflow upward to the ceiling, reducing cold stress on pigs.

Self Balancing Air Intake Window



- The automatic balancing vent can adjust the size of the air inlet according to the number of fans in operation, without the need for electric or manual control.

Roof Double Opening Ventilation Window



- Made of engineered ABS plastic and PVC steel-plastic materials, it features corrosion resistance, anti-aging properties, deformation-free durability, tight sealing, and smooth opening and closing. Additionally, it offer double-layer insulation, making it the ideal choice for ceiling ventilation.

Sidewall Air Intake Vent



- Made of high-quality engineering plastic through injection molding, offering greater density for enhanced durability; features a pulley-guided design for damper adjustment, effectively reducing resistance.

Sliding Curtain



- Dimensions can be customized according to design requirements;
- The curtain panels are made of PVC or polycarbonate sheets, providing strong insulation;
- Both sides adopt a guide rail structure for smooth vertical sliding, ensuring excellent sealing performance;
- The opening mechanism operates from top to bottom, facilitating exhaust gas discharge and reducing cold stress;
- Available in manual, electric, or manual-electric hybrid operation modes;
- The perimeter of the opening is sealed with PVC rubber material, minimizing air leakage and enhancing sealing performance.

DEODORIZATION SYSTEM



Integrated Fan Deodorization Unit

- Achieve highly efficient deodorization through the combination of fans and deodorizing filter media.
- The housing is made of SMC fiberglass-reinforced plastic, offering excellent corrosion resistance and a long service life.
- Equipped with a high-negative-pressure fan, ensuring stable performance and guaranteed airflow.
- The S-shaped corrugated filter media effectively increases the contact area with odorous gases, rapidly reducing odor concentration.
- The V-shaped water-retaining plate effectively prevents moisture loss, significantly reducing the equipment's water consumption.

Water-Circulating Deodorizer Mode

- Modular design solution (material frame size fixed: 500*700*250).
- Top water circulation reduces ammonia concentration by 60%, and adding acid achieves 75%.
- Top water circulation method minimizes water loss and lowers operating costs.
- Low material cost, corrosion-resistant, acid and alkali resistant, and aging-resistant.
- Main components include the material frame (with balls), water tank, top water circulation system, and electrical control system.

AIR FILTRATION SYSTEM



Sub-HEPA Filter Unit

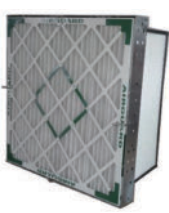
- Pig farms can effectively filter out over 99.5% of 0.3μm particles through their air filtration system, significantly preventing infection by pathogenic microorganisms such as Porcine Reproductive and Respiratory Syndrome (PRRS), African Swine Fever (ASF), Pseudorabies, Foot-and-Mouth Disease (FMD), and Swine Enzootic Pneumonia.
- Based on tunnel ventilation and ceiling ventilation, the multi-stage filtration system incorporates different filter materials to effectively extend the service life of the filters.



Main filter: MERV15 grade



Pre-filter: MERV8 grade



24" filter unit: MERV15 grade

W-shaped Coarse Filter Cotton

- The primary materials of the coarse filter cotton are PET (polyester fiber) and PP (polypropylene fiber), with a thickness of 5mm.
- The filter cotton includes an internal metal support mesh (galvanized steel mesh, 0.4mm thick, mesh size 20*30mm).
- The filter cotton features a W-shaped structural design, with an overall effective air intake area (unfolded area of the coarse filter cotton) three times that of the projected installation cross-section.
- Suitable for air filtration in temperatures ranging from -10 to 100°C, humidity ≤80%, and mildly acidic or alkaline environments; non-flammable, self-extinguishing, with a flame-retardant standard of F1.
- Equipped with detachable connection clips for quick removal in cases of excessive resistance or other factors.
- Uses G4 filter cotton as the filtering material, offering low material costs.
- Filtration efficiency for 5μm particles is 50%~80%.



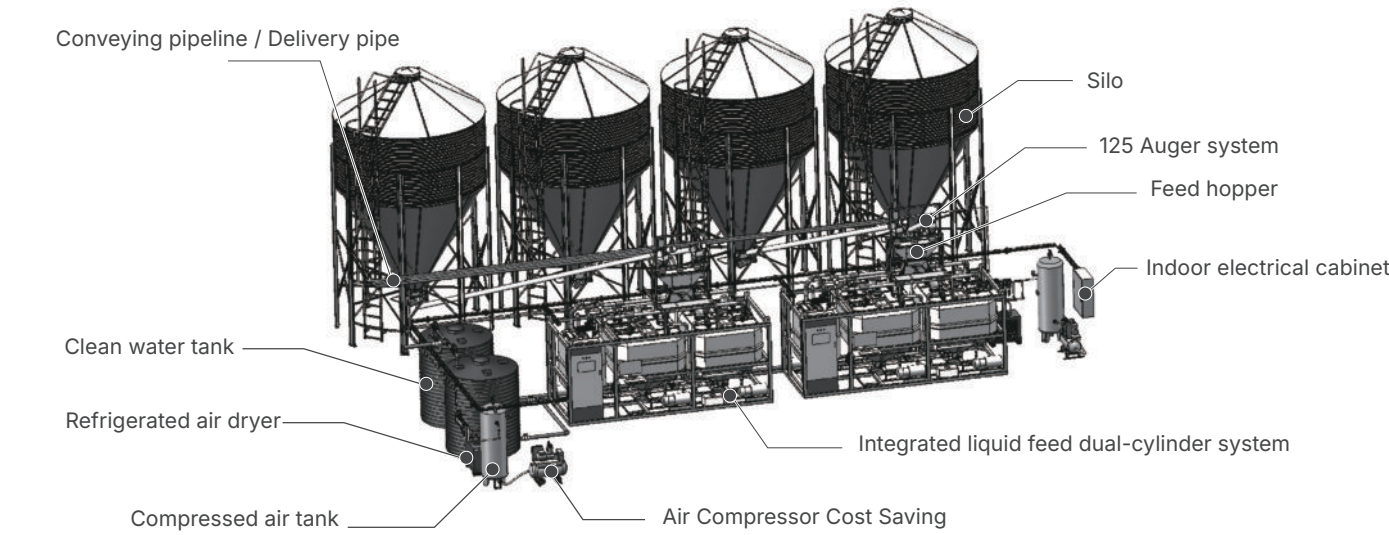
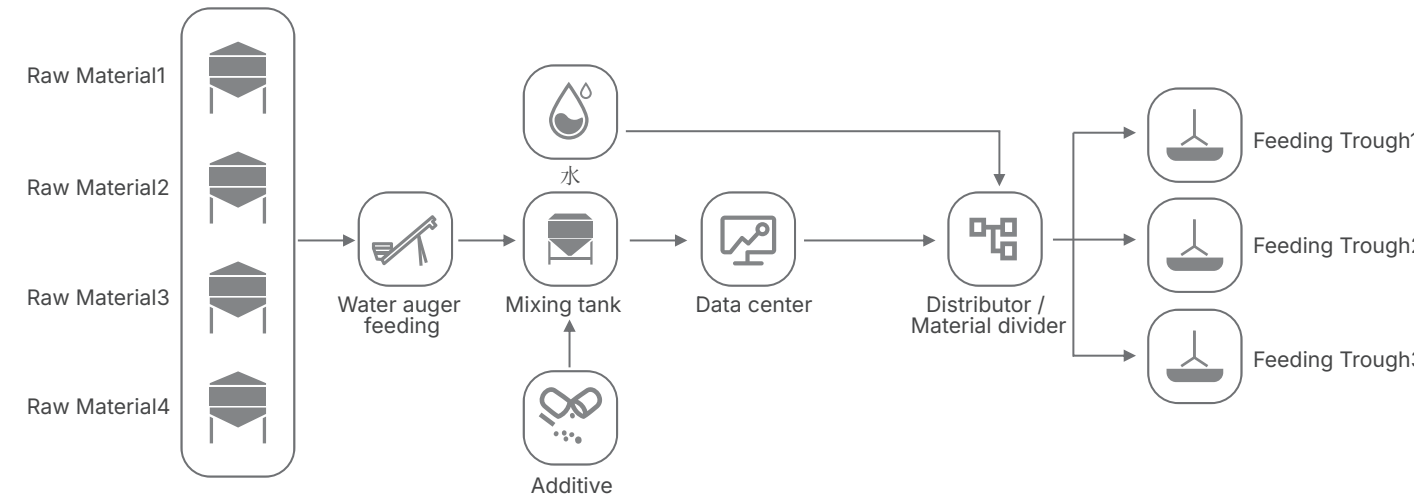
LIQUID FEED DELIVERY SYSTEMS



The Zesting Ground Liquid Intelligent Feeding System is developed by the R&D team of Zesting Technology Co., Ltd. After five years of dedicated research, this system is designed to rival renowned European liquid feed products. It comprises intelligent subsystems for complete feed preparation, fermented auxiliary ingredient selection, mixing, distribution and feeding, pipeline cleaning, and more. Integrated with an IoT platform, the system operates under computer-controlled automation across all processes. Tailored to the actual conditions of each swine group, it enables fully intelligent operation based on predefined feeding curves, ensuring balanced nutrition and optimal feed conversion ratios (FCR). The system achieves timed, quantitative automatic feeding and data collection management.

Advantages

- Low investment, high quality, and controllable standards
- Integrated frame structure, shipped as a whole, and quick to install
- Multiple automatic pipeline cleaning functions
- Android control system, easy to operate with a touch screen
- Remote monitoring and data collection, enabling you to effortlessly keep track of the production status of the pig farm



Lowering Costs of Air Compressors

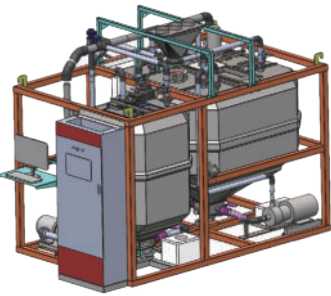
- 10% reduction in feed consumption Only 1 operator needed for a 5,000-head fattening farm
- No feed-induced dust, reducing medication use by 60%
- 11% less manure output, 21% less water usage

Improve performance

- Reduce feed conversion ratio (FCR) by 0.15-0.25
- More uniform body size
- Achieve 10 days earlier market readiness

More convenient to use

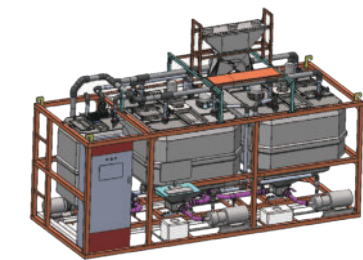
- Automated and unmanned cleaning: Worry-free and labor-saving
- Fully simulated graphic display: Simpler and more intuitive
- Unmanned operation: Remote feeding and monitoring with one-click data export



ZX-ZIXI-3T

Model ZX-ZIXI-3T

Project	Configuration Guide
Farming scale	1500-3000heads
Product advantages	Integrated structure, quick installation, high-quality standards and controllability, shipped as a complete unit, Android control system, multiple self-cleaning functions for pipelines.
Feeding time per meal	2-3H
Capacity	3T stainless steel
Main pump parameters	7.5kw/25m³/h
Main pump inlet/outlet diameter	DN65/DN50
Water pump parameters	5.5kw/25m³/h
Water pump inlet/outlet diameter	DN80/DN80
Mixing motor power/speed	1.5kw/65rpm
Total installed power	15KW
Product Configuration Specifications	● SUS304 mixing tank and return water tank with weighing function ● Dual-pump structure; the main pump and water pump can be switched for emergency use ● Integrated frame structure ● The feed valve adopts a ball valve, while the discharge and other valves all use diaphragm valves ● Externally equipped with a 3T clean water tank



ZX-LFI-P31

Model ZX-LFI-P31

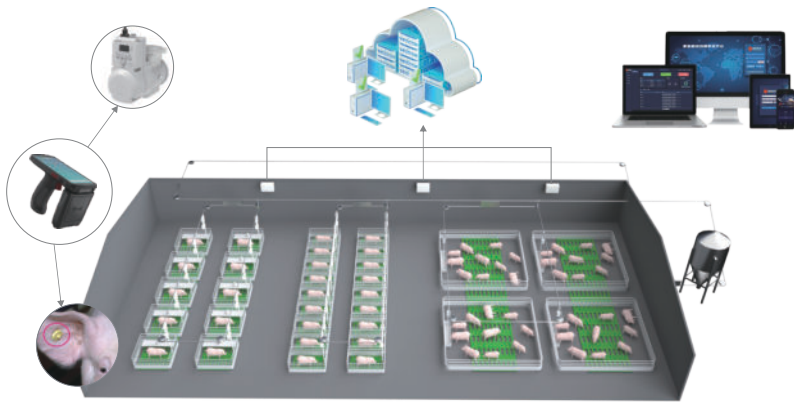
Project	Configuration Guide
Farming scale	3000-5000 heads
Product advantages	Integrated structure, quick installation, high-quality standards and controllability, shipped as a complete unit, PLC control system, multiple self-cleaning functions for pipelines.
Feeding time per meal	2.5H-3.5HH
Capacity	3T SUS304
Main pump parameters	7.5kw/25m³
Main pump inlet/outlet diameter	DN65/DN50
Main pump inlet/outlet diameter	DN80/DN80
Mixing motor power/speed	1.5kw/65rpm
Total installed power	18KW
product Configuration Guide	● PE material mixing tank and return water tank, equipped with weighing function ● Single-pump structure for simultaneous water supply and material delivery ● Integrated frame structure ● All valves (including main pipeline) use diaphragm valves ● 3KW screw air compressor

INTELLIGENT FEEDER DOSER



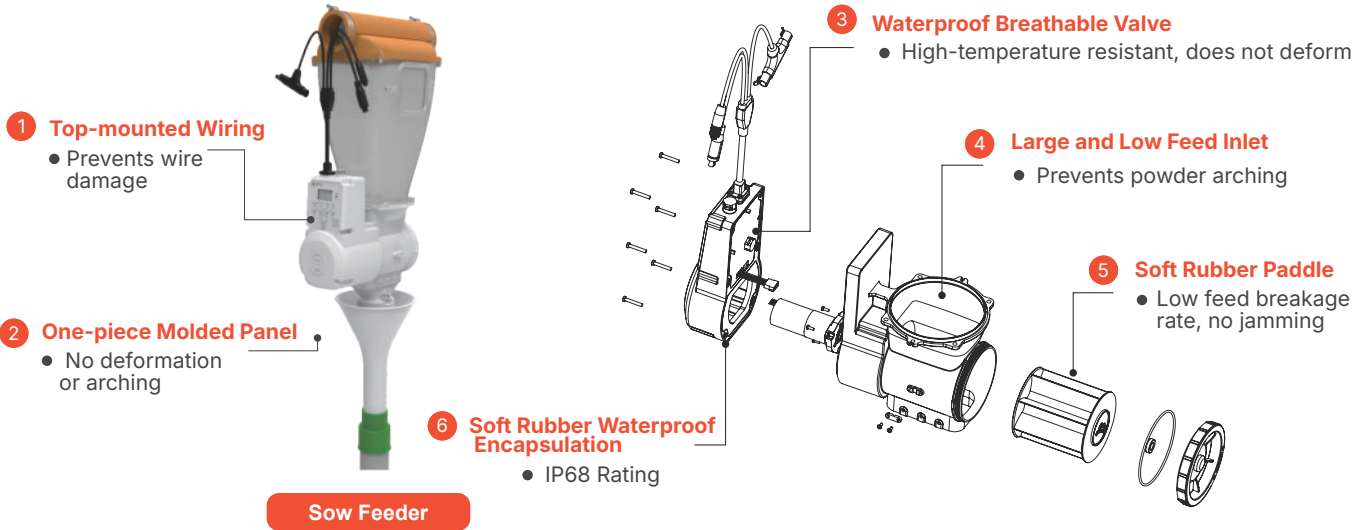
The precision feeding platform centrally manages individual precision feeders in each pen, enabling them to deliver appropriate water and feed to pigs of different sizes and conditions according to predefined feeding standards and types. This achieves the goal of regulating sows' body condition and health status.

Zesting Ground Intelligent Precision Feeders can tailor feeding standards based on seasonal environments, breeds, backfat thickness, and lactation status, effectively ensuring the health and backfat levels of pigs. They address challenges such as the difficulty, inconsistency, and poor timeliness of manual feed adjustment, replacing human labor with automated precision control. This allows breeding personnel to focus more on feed data analysis and production management.

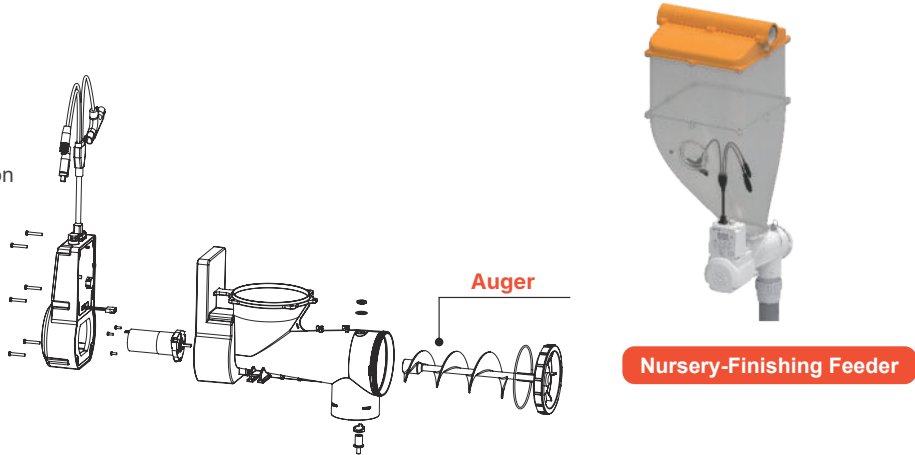


	Feed intake	Feed residue	Staff investment	Personnel flow	Liquid-material blending	Feeding guidelines	Abnormal situation
Traditional farming	Manually controlled, difficult to manage	Waste and hygiene issues.	High labor intensity Large workforce input	Manual operations result in high personnel turnover	Inconsistent water-material mix	Manual mixes vary by experience	No feeding records, making it difficult to detect abnormalities
Intelligent feeding	Records the amount of feed distributed	No residue, perfectly clean	Fully automatic control Low personnel input	Remote operations reduce personnel flow	Accurate water-material ratio boosts growth rate	Auto-analysis finds optimal feed	Timely detection of abnormal pig feeding behavior through data recording

Product Structure and Advantages



- VO Flame-retardant Nylon Material, high hardness, excellent fire resistance
- Aviation/Automotive Connectors, easy installation
- Encoder-equipped Motor, high-precision control
- Emergency Button, manual discharge during malfunctions
- Modular Design, easy maintenance and part replacement



Sow Management

Precision Feeding / Precision Water Control / Multiple Feeding Methods / Effectively Improve Feed Intake

- Reduce feed waste
- Improve sow utilization rate
- Improve weaned sow estrus rate
- Increase litter weight of piglets
- Reduce sow stress
- Increase the number of weaned piglets
- Reduce manual management difficulty



Finisher & Nursery Management

Batch Feeding / Precise Measurement / Avoid Feed Waste / Improve Feed Intake

- Reduce post-weaning stress
- Minimize feed waste
- Enhance daily weight gain and finishing efficiency
- Strengthen biosecurity
- Ensure uniform body condition in pigs



Leaflet Style: Sow Management

Function	Parameters	Function	Parameters
Structure	Blade type	Feeding Mode	Fixed Amount/Scheduled Meals/Free Feeding
Storage Capacity	7L	Water-to-Feed Ratio	Customizable
Power	10W	Communication Method	RS485
Operating Voltage	DC48V	Waterproof Rating	IP68
Dosing Accuracy	Within 5%	Flame Retardant Rating	Vo
Dosing Speed	Granules: 6.6 kg/min, Powder: 7.2 kg/min.		

Auger-Type: Nursery-Finishing Management

Function	Parameters	Function	Parameters
Structure	Auger type	Feeding Mode	Fixed Amount/Scheduled Meals/Free Feeding
Storage Capacity	20/40/60L	Water-to-Feed Ratio	Customizable
Power	10W	Communication Method	RS485
Operating Voltage	DC48V	Waterproof Rating	IP68
Dosing Accuracy	Within 5%	Flame Retardant Rating	Vo
Dosing Speed	Granules: 2.6 kg/min, Powder: 2.5 kg/min		

INTELLIGENT DRY-WET FEEDER

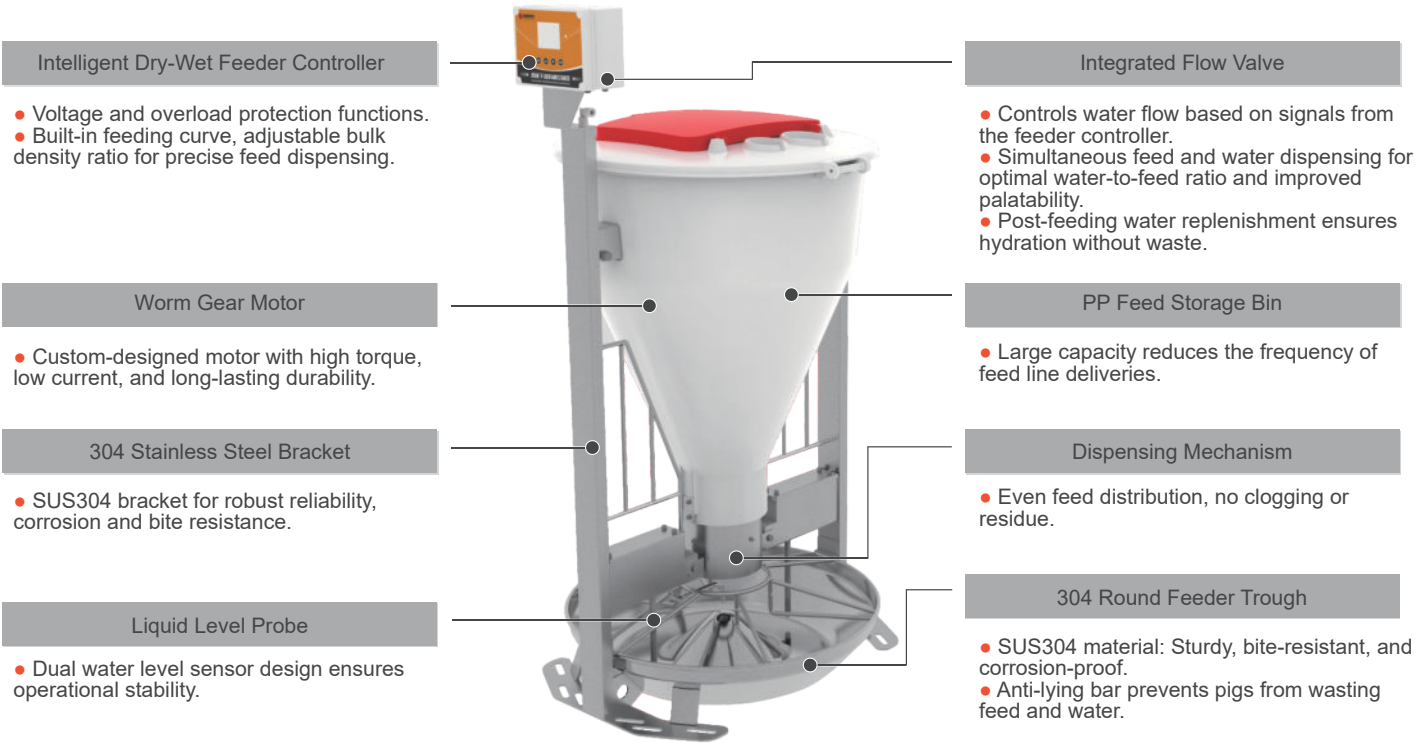
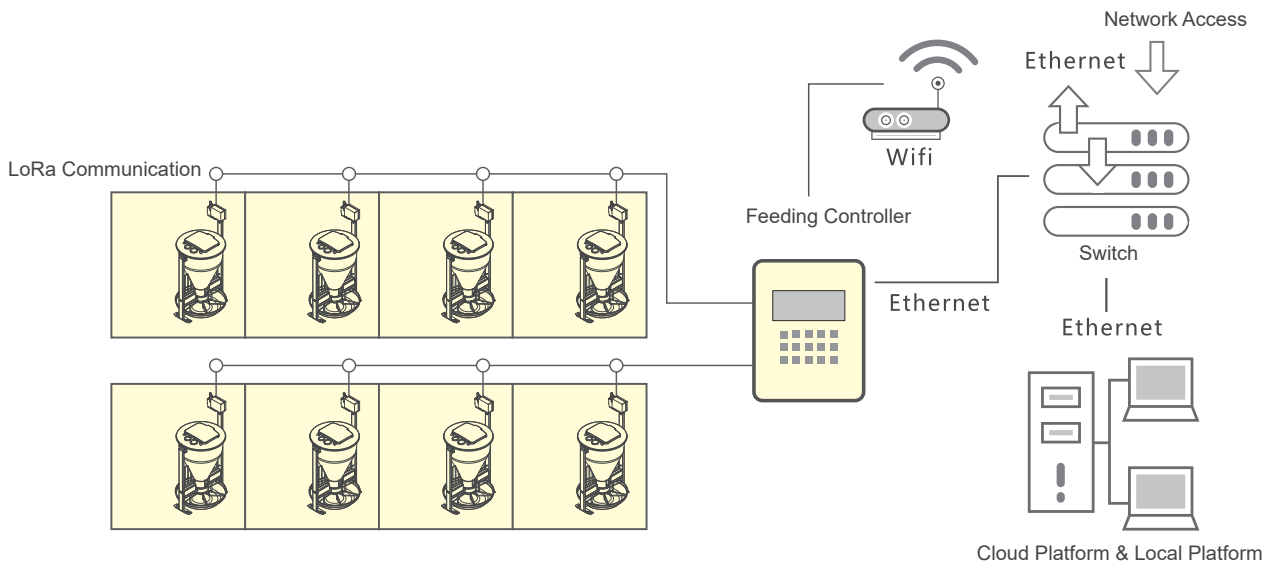


Product Introduction

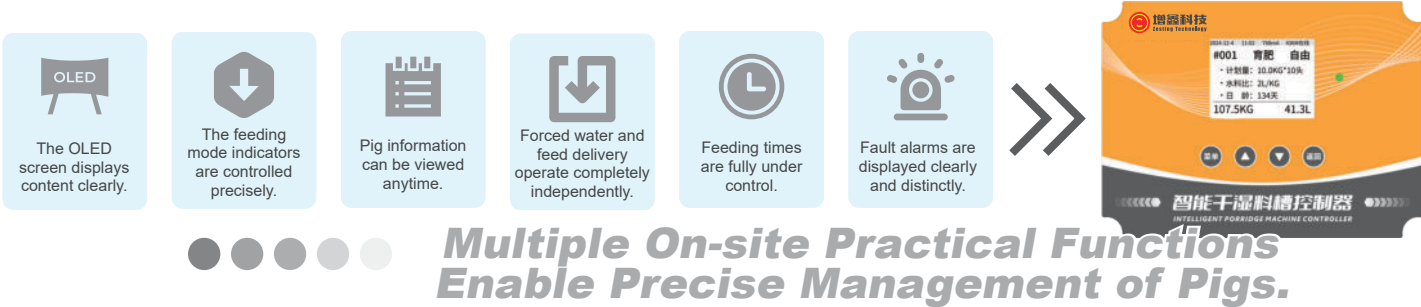
- Managed uniformly by the precision feeding platform for each pen's intelligent dry-wet feeder.
- The system provides appropriate water-feed ratios based on preset parameters for each pen and the remaining feed in the tray.
- Utilizes wireless LoRa communication.
- After connecting to the external network, feeding processes can be issued via the platform and controlled via a mobile app.

Product Advantages

- Free feeding—dispenses only after the previous portion is consumed, minimizing waste and reducing feed costs.
- Wet-mixed feed improves palatability, enhances feed utilization, and lowers mortality rates.
- Wet-mixed feeding reduces dust during dispensing, promoting healthier livestock.
- Faster daily weight gain and shorter time to market.
- Digital management of feeding data with real-time alerts for abnormal feeding patterns.



- Dry feed is delivered from the silo to the pig house via the feed line and stored in the intelligent dry-wet feeder's storage bin.
- The intelligent dry-wet feeder controls the motor and integrated flow valve according to optimized feeding curves to provide porridge feed for the herd.



Intelligent Dry-Wet Feeder System Parameters

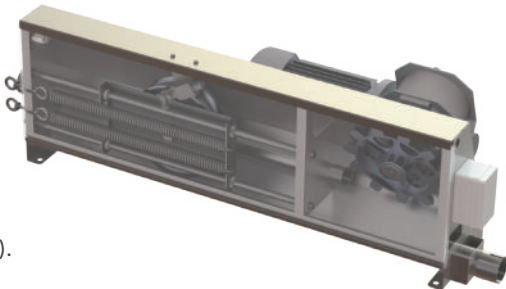
Swine Management	Parameters	Sow Management	Parameters
Supported Pig Types	Nursery, Fattening	Number of daily feedings	Adjustable settings
Overall Dimensions	1528mm*900mm*750mm	Feeding ratio per meal	Customizable settings
Feed Storage Capacity	140L	Water-to-feed ratio	Customizable settings
Feeding Tray Size	Nursery: H=105, D=φ600 Fattening: H=140, D=720	Water delivery method	Water and feed can be dispensed together, water first then feed
Power Supply	220V±5%	Communication method	Wireless communication
Total Power	120W	Controller waterproof rating	Ip67
Feeding Accuracy	≤5%	Motor	No-load current ≤ 0.75A; rated current 1.2A
Watering Accuracy	3%~5%	Feed storage bin	Made of PP material, aging-resistant, waterproof, and durable
Feeding Speed	Granular material: 7.8 kg/min Powder material: 6.5 kg/min	Feeder screen display size	2.8-inch OLED screen
Watering Speed	3.0L/min	Feeding mode	Scheduled feeding & free feeding

CHAIN DISK FEED DELIVERY SYSTEM



60/102 Power Host Unit

- The housing is made of 304 stainless steel.
- equipped with a chain tension protection switch and a door safety switch.
- the entire housing features a residue-free structural design for feed.
- maximum conveying distance of 300-380 meters (with ≤12 flat corner deflectors).
- maximum conveying capacity (60 Host Unit: 1.2 tons/hour) (102 Host Unit: 5 tons/hour).
- motor and gear reducer from top-tier brands (60 Host Unit: 1.5 kW/380V/50Hz) (102 Host Unit: 4 kW/380V/50Hz).



60/102 Conveyor Chain and Disc

Chain Material	Wire Diameter	Discmaterial	Diameter	Pitch	Chain Breakin Force	Sisc Slippage Resistance
20Mn2	5/7 mm	Nylon 66	45/75 mm	92 mm	60-disc: ≥3 tons 102-disc: ≥5 tons	Greater than 400 kg and 800 kg



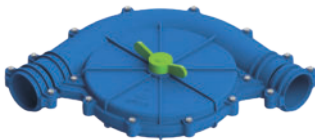
60/102 Stainless Steel Corner

Housing material: 304 stainless steel. Built-in sealed silicone strip for effective dust and water resistance. Stainless steel panel is flexible, preventing material blockage and minimizing conveying resistance. The rotating wheel is made of cast iron with a material guide chute to effectively prevent material accumulation.



Nylon Corner

The nylon housing features an integrated sealing strip for dust and water resistance. The ductile iron rotating wheel includes a guide chute to minimize material buildup.



AUGER FEED DELIVERY SYSTEM



Reliable Control Unit

The flexible auger control unit features automatic sensing and calibration to adapt to seasonal changes and flushing.

- Dual safety discharge guarantee, with a 30-second delayedmotor shutdown after the high-level anti-blocking switch is triggered.
- Capable of controlling single-phase or three-phase motors.
- The relay of the auger control unit (maximum 25 Amp load) is rated for 1.1 kW motors.
- 240V, 50Hz or 60Hz.

Drive Unit

The flexible auger is directly driven by a fully enclosed fan-cooled motor with a speed of 358 RPM and a power range of 0.55 kW to 1.5 kW (other speeds are available for special applications).

- Easy maintenance.
- Safety backup switch.
- Automatic thermal protection switch.

Discharge Assembly

- The discharge assembly is suitable for all flexible augers.
- Provides fully enclosed open/close discharge.

Extended Hopper Connection

- The extended hopper can be used for long-distance feed transportation and centralized supply.
- It can be installed at a 90° angle to the first flexible auger, allowing turns and extension of the flexible auger's conveying distance without the need for elbows.

Feeder

- Heavy-duty ball bearing assembly with grease fitting
- Inclined discharge switch
- Easy-access maintenance opening

Durable Discharge Hopper

- Flat opening and 30° discharge.
- Available in black, transparent, or heavy-duty metal models.



Designed for livestock feed storage, featuring high-standard galvanized thickness, exceptional durability, anti-corrosion properties, and waterproof characteristics. The seamless connection between the silo and the conveyor ensures perfect compatibility.

Silo Product Parameters

Silo Model	Capacity (metric tons)	Diameter (m)	Filling Height (m)
6'	2.5	1.83	3.25
6'	3.86	1.83	4.06
6'	5.21	1.83	4.85
6'	6.56	1.83	4.69
7'	4.17	2.13	4.12
7'	6.02	2.13	4.93
7'	7.86	2.13	5.75
7'	9.7	2.13	6.56
9'	10.01	2.74	5.11
9'	13.06	2.74	5.92
9'	16.1	2.74	6.74
12'	22.26	3.66	5.3
12'	28.75	3.66	6.12
12'	34.85	3.66	6.93



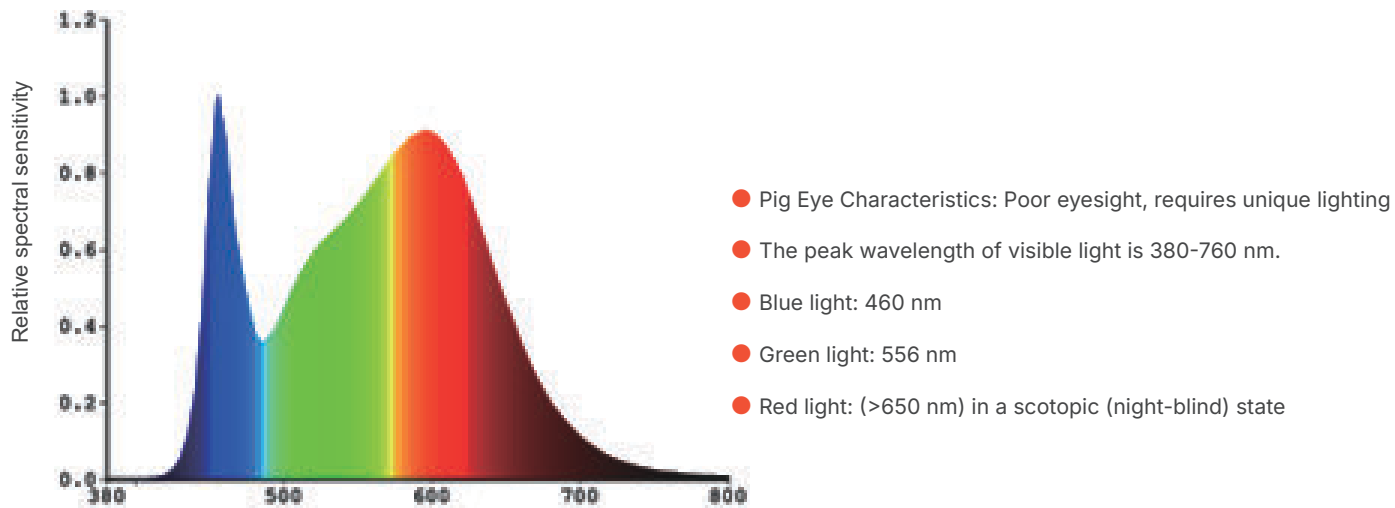
Product Features

- Specialized Manufacturing Process: Imported fully automatic CNC punching machines are used for corrugated sheet forming, punching, and other processes, enabling assembly line production to ensure precise installation of all components.
- Customers can freely choose silos with different storage capacities (ranging from 2T to 35T).
- The product is sturdy and durable, with high-strength anti-corrosion performance (hot-dip galvanized layer of 275μm), ensuring a long service life.
- The silo is equipped with a standard ladder that meets safety standards, featuring anti-slip grooves on the steps to prevent falls.
- The silo cover can be opened via ground control, offering simple operation for higher efficiency.
- The corrugated sheet edges are designed with a waterproof drip edge, allowing the silo to maintain optimal storage performance regardless of weather conditions.
- The silo is equipped with a transparent observation window for real-time monitoring of feed storage status.
- The internal feed guide directs feed flow from the hopper, while the conical mold ensures gentle movement of feed, improving flow efficiency and preventing long-term residue on the silo walls.

LIGHTING SYSTEM



Product Advantages



Five Protection Features

Dustproof
(Excellent sealing)
Round tube design
Smooth cover surface

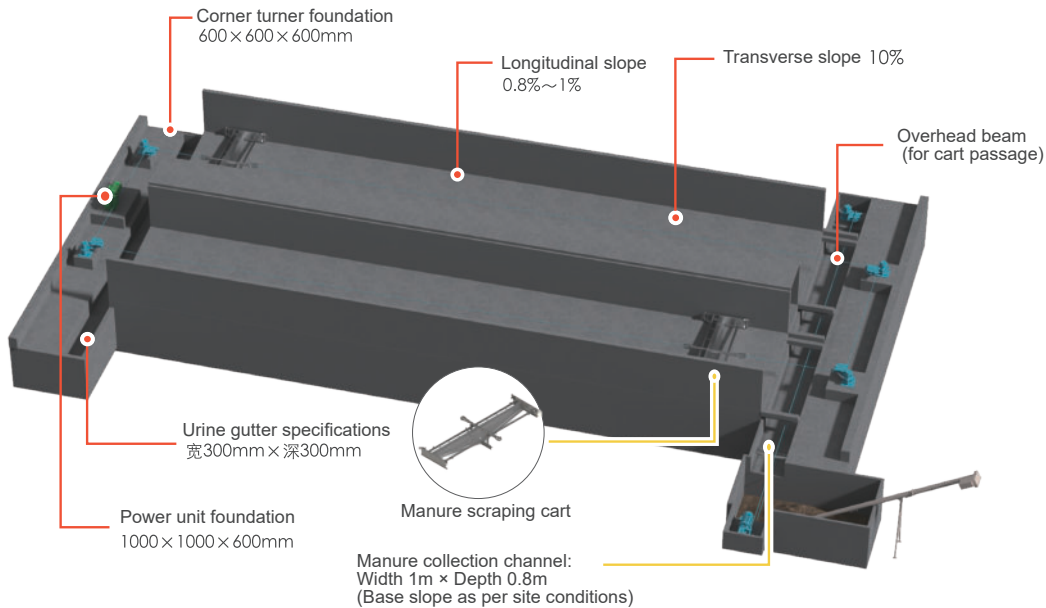
Waterproof IP67
There are various levels of waterproofing, not every level can meet the needs of pig farms.

Corrosion protection
The interior is exposed to chemicals like ammonia, cleaning solutions, and disinfectants.

IP69K Washdown Protection
High-pressure hose-down is frequently used in pig farms. Washdown-resistant luminaires are indispensable.

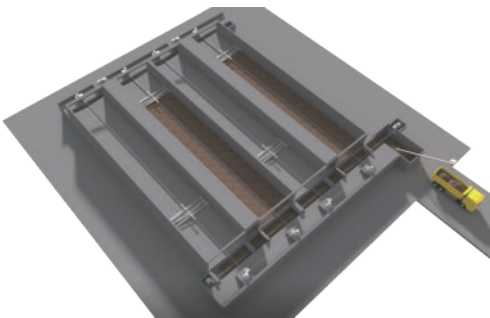
Fire and flame resistance
The entire LED tube, including the wiring, internal circuitry of the plug, and electronic components, fully complies with national flame retardant and fire safety standards.

MANURE REMOVAL SYSTEM



The Working Principle of The Manure Removal System

- Utilize a power traction device to achieve the back-and-forth operation of the manure scraping carts.
- When the wire rope is pulled forward by the transmission device, Cart A moves toward the high-end manure pool, scraping manure into the pool.
- Simultaneously, the scraping blade of Cart B lifts, moving synchronously toward the low-end urine gutter, while the manure-cleaning rod removes waste from the urine drainage pipe.
- When Cart B reaches the end and touches the limit switch, it automatically reverses direction.
- Cart B then moves toward the manure pool for scraping, while Cart A simultaneously moves toward the low-end urine gutter.
- This reciprocating motion achieves continuous manure cleaning in the manure gutter and waste removal in the urine drainage pipe.



The Advantages Of Manure Scraper

- Solid-liquid separation is achieved, with the scraped pig manure having a moisture content of 75%-80%, allowing it to be directly composted or sent to fermentation equipment for processing.
- The wastewater has a low concentration, making subsequent treatment simpler. The liquid discharged from the urethra has BOD, COD, and SS levels only 1/2 to 1/4 of those in flush systems, significantly reducing later treatment costs.
- The pig house environment is optimized. Mixing feces and urine can lead to anaerobic fermentation, producing large amounts of highly malodorous hydrogen sulfide, methane, and short-chain fatty acids. By using a scraping system, manure and urine are collected regularly each day, preventing bacterial growth and reproduction, reducing the risk of disease among pigs, and improving their growth rate.
- Labor costs are saved. The scraping system operates on a timer or PLC control, automatically performing manure removal at set intervals and frequencies, greatly reducing labor expenses.
- Operating costs are low. In flush systems, subsequent manure treatment requires a solid-liquid separator. The liquid separated by the machine has a BOD of about 10,000 ppm, COD of about 9,000 ppm, and SS of about 10,000 ppm. Compared to the scraping system, the wastewater treated by the separator has a higher concentration, necessitating greater investment in purification equipment for later processing.