

**Green mountains and green waters,  
people-oriented**



**15+ years experience in environmental  
protection industry**



**Sewage treatment equipment integrator**

**One-stop service provider of mobile sludge dewatering truck**

**青本环保科技（江苏）有限公司**

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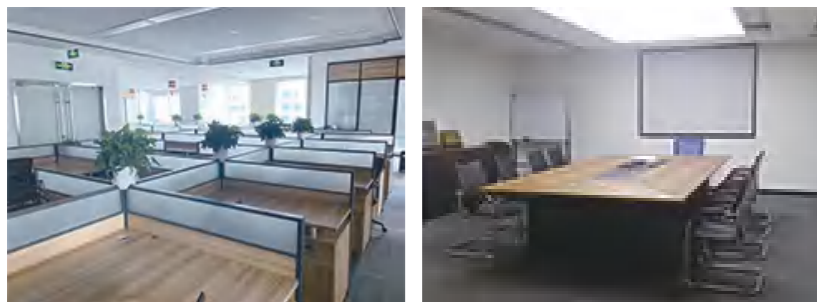
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**CONTINUOUS DEVELOPMENT  
SURPASSING ONESELF  
STRIVING FOR FIRST-CLASS**



THE UNCEASINGLY EXPANDED ENTERPRISE LAYOUT AND CONTINUOUSLY GROWING BUSINESS PARTNERS ARE GRADUALLY TURNING THE DEVELOPMENT BLUEPRINT INTO REALITY

## COMPANY PROFILE



Qingben Environmental Protection Technology (Jiangsu) Co., Ltd., founded in Yangzhou, is a professional manufacturer and service enterprise of sludge and sewage treatment equipment.

Qingben Environmental Protection's mission is to improve the environment, promote green development, and create a beautiful home with green mountains and water, and people-oriented Chemical equipment, complete sets of sewage treatment equipment, river and lake sludge drying equipment and technical services. Qingben Environmental Protection takes technological innovation and solves the problem of sewage and sludge environmental pollution as its mission, and is committed to becoming an environmental protection enterprise with leading technology and excellent quality. We will make unremitting efforts for a beautiful home with green mountains and clear waters and people-oriented.

## Company Culture

Corporate culture is the soul of an enterprise as well as the inexhaustible driving force for development.

### Qingben spirit

Green mountains and green waters, people-oriented

### Qingben Mission

Taking improving the environment as our own responsibility, creating a beautiful home with green mountains and clear waters

### Qingben Vision

Build with ingenuity, pursue quality, and become a high-quality supplier in the field of environmental protection equipment

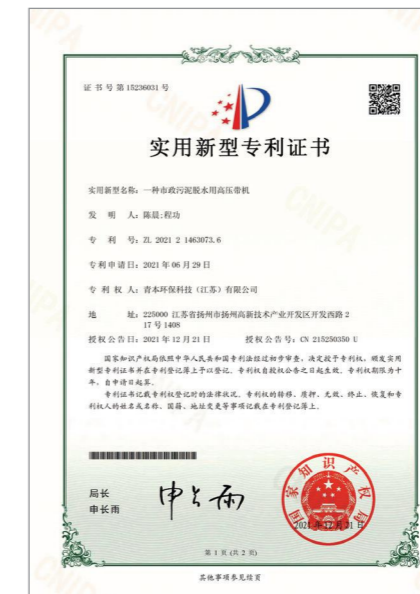
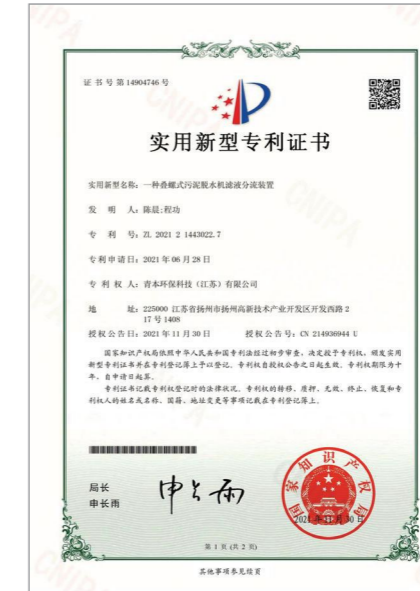
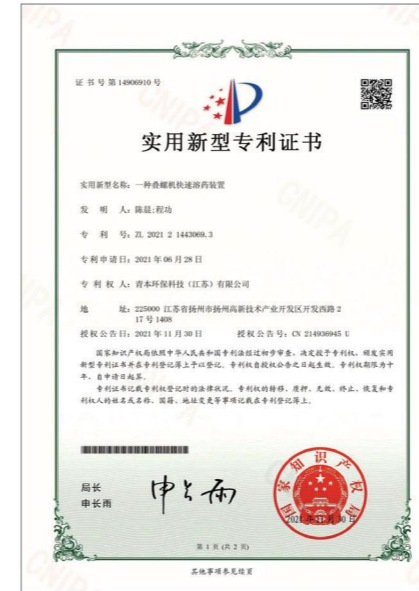
### Qingben Values

Win by quality, expand by quantity, adhere to quality as the foundation of our business; Taking faith as the foundation, sticking to honesty is the way of life; managing benefits, Win the market with service and stick to corporate brand positioning



# HONORS AND CERTIFICATES

Honor exists because of customers: because all our efforts are for customer satisfaction. Honor is affirmation, trust and encouragement, honor is our golden business card and pass, honor is our road signs and journeys. Honor represents the past, and the company regards honor as an inexhaustible driving force to motivate itself to continuously improve and make progress.





SCALE MANUFACTURING CASTS ENTERPRISE  
STRENGTH AND BRAND



## PRODUCTION WORKSHOP

The basis of market competition is inseparable from production strength and perfect advanced hardware facilities. Knowing the importance of hardware facilities, Qingben took the lead in introducing foreign advanced production equipment in the same industry. In the past few years, it has invested funds to upgrade the hardware facilities, and produced high-end high-quality products that meet international standards with international production facilities.



SOLID AND PERFECT SERVICE, MAKE THE COMPANY'S MARKETING NETWORK COVER THE WHOLE COUNTRY, PRODUCTS ARE TO OVERSEAS

**PARTNER**



Each engineering example is oriented to customer needs, Provide customers with professional sludge reduction solutions, equipment automation, Intelligent upgrade to ensure stable and efficient operation of each equipment, and continue to create value for customers

**ENGINEERING EXAMPLE**

High-pressure belt deep dehydrator project site



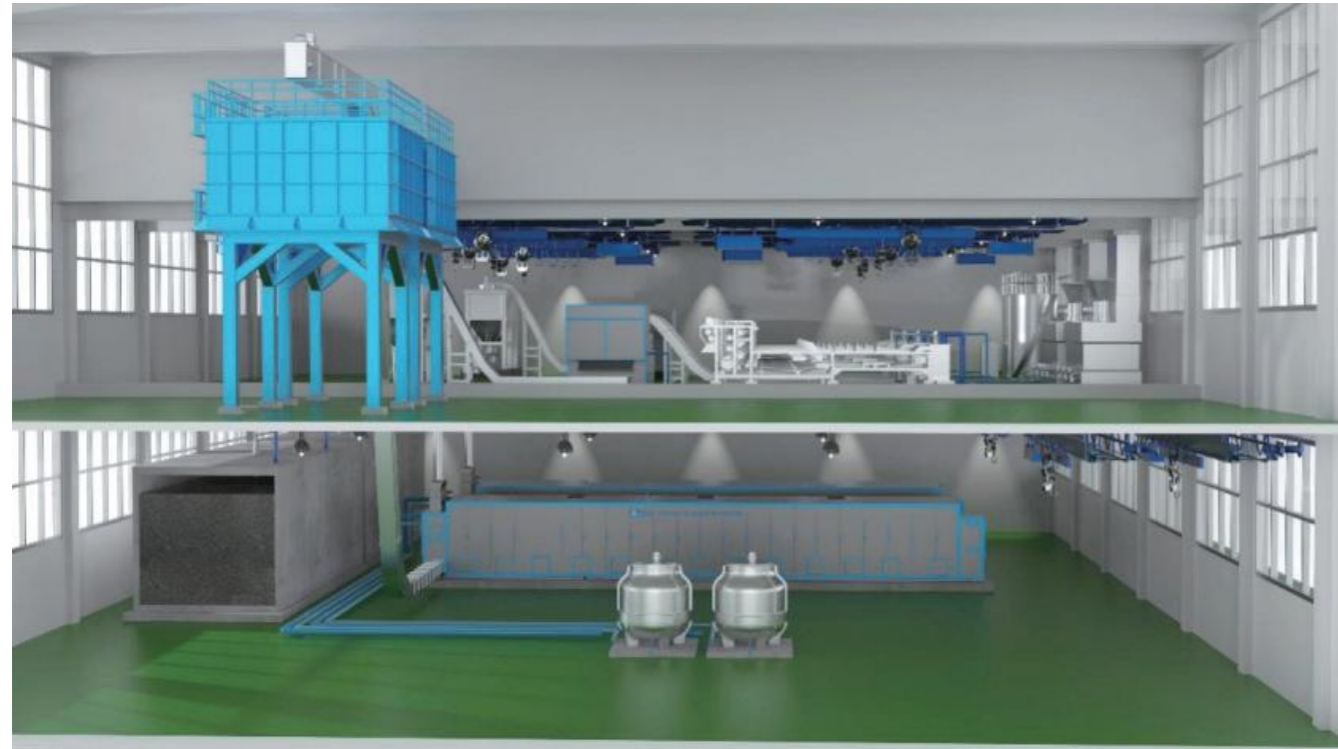
Project site of Spiral Sludge dehydrator



Low-temperature dryer project site



## QBSD sludge deep dewatering and low-temperature drying process



QBSD Technical Process Layout

### Q B Product introduction

"QBSD sludge deep dehydration and low temperature drying "process is an efficient and energy-saving deep dehydration process developed by Qingben Environmental Protection and Tongji University, which can achieve one-stop sludge reduction, stabilization and harmless treatment. The sludge in the sludge thickening tank in the sewage treatment plant (moisture content of about 99%) can be reduced to less than 30%; The treated sludge can be comprehensively disposed according to local conditions by land utilization, building materials utilization, power plant or cement plant blending and other ways to realize resource utilization.

### Q B Process specification

Step 1: the sludge with moisture content of about 99% is transported to the conditioning tank of the stack snail sludge dewatering machine through the screw pump self-storage mud tank, and the PAM is transported to the conditioning tank of the stack snail sludge dewatering machine through the PAM dosing pump, and the sludge and PAM are fully mixed and flocculated in the conditioning tank. After the flocculated sludge is dehydrated by the superimposed sludge dewatering machine, the moisture content is reduced to about 80%, and then enters the high-pressure belt continuous sludge deep dewatering system, that is, into the sludge modified mixer.

Step 2: sludge modification. The physical and chemical properties of the sludge were changed by adding conditioner to the sludge modified mixer in the dosing system. In the sludge modified mixer, the sludge and the conditioner are mixed quickly and evenly. The function of the conditioner is to crack the structure of the sludge and destabilize the colloid, so as to reduce the water retention of the sludge and transform the bound water into "free water"; The sludge is "granulated" and "porous" to create conditions for further deep dehydration.

Step 3: deep pressing (dehydration) the modified sludge is transported to the high pressure belt continuous sludge deep dewatering machine. Under the pressing action of the high pressure belt continuous sludge deep dewatering machine, the sludge after deep dewatering forms 5-10mm multi-pore sheet mud cake to complete the deep dewatering process.

Step 4: The dehydrated sludge is lifted by the lifting conveyor to the subsequent low-temperature dehumidification and drying system for further treatment, and the final moisture content can be reduced to less than 30%.

### Q B Process characteristics

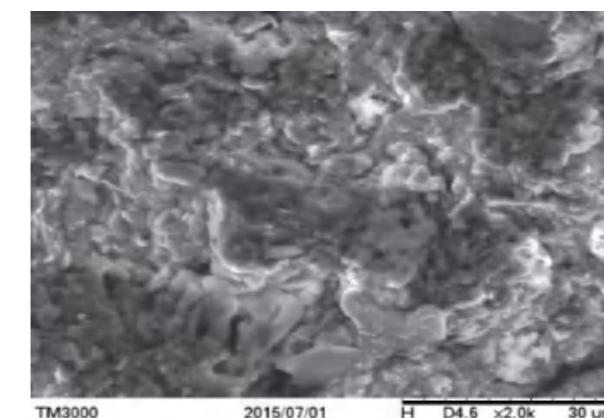
The sludge deep dewatering system is mainly to reduce the moisture contained in the sludge through mechanical dewatering, reduce the moisture content, reduce the volume of the sludge, and bring convenience to the subsequent treatment or disposal of the sludge. The general sludge dewatering system generally dehydrates the moisture content of sludge such as sludge settling tank and sludge thickening tank to 80-85% by mechanical dehydration, and the sludge naturally falls into the water after dehydration

Sludge receiving and feeding system for subsequent dry disposal. QBSD deep dehydration low temperature drying process system mainly adopts pretreatment system + high pressure belt continuous deep dehydration system. Different from traditional mechanical dehydration, the sludge deep dehydration process can reduce the sludge moisture content of the sludge enrichment tank from 80% to about 70%, and the sludge with 70% moisture content will be more conducive to the subsequent low temperature drying treatment.

"QBSD sludge deep dehydration and low temperature drying "process has a wide range of application, reliable and stable operation, process characteristics and technical advantages are shown in the following table:

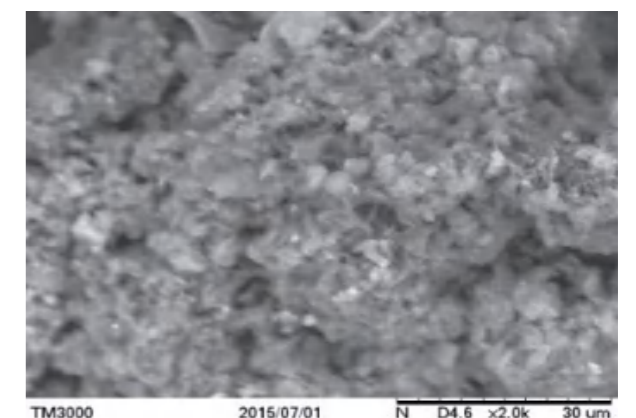
| Process characteristics and technical advantages      | Description  |
|---|--|
| The drying efficiency has been significantly improved | After deep dehydration pretreatment, the sludge slicing has good effect, high volume, increased the porosity of the sludge, and was conducive to the improvement of drying efficiency  |
| Drying capacity increased                             | Compared with drying alone, the combined process system of "QBSD sludge deep dehydration and low temperature drying "increases the sludge treatment capacity by more than 2 times  |
| Dry base calorific value is not affected              | The combined process can flexibly select modifiers and curing agents according to the properties of the sludge, reduce the moisture content of the sludge before drying through mechanical dehydration as far as possible, improve the low calorific value of the sludge, and do not reduce the dry base calorific value of the sludge, and the sludge final disposal path is wide |
| Lower carbon and energy saving                        | The combined process system can remove an average of 9.2kg HO/kW-h, and the energy efficiency when combined is nearly 4 times the energy industry standard (NB/T 10156-2019).  |
| Low investment and operating costs                    | As the most economical treatment method, mechanical dewatering can reduce the investment and operation cost of the combined process. The equipment investment of the combined process is reduced by about 30%, and the operating cost is saved by about 20-45% compared with drying alone, and the combined process has significant economic advantages                            |
| High decrement rate                                   | The combined process can reduce the moisture content of the sludge from about 99% to 10-60% adjustable moisture content, and the highest reduction degree can reach more than 90%, so as to achieve reduction, harmless and stable treatment, and meet the requirements of resource disposal.  |

Before deep dewatering, the sludge was in a plastic state with small voidage and poor permeability



TM3000 2015/07/01 H D4.6 x2.0k 30 um

The porosity increased after deep dehydration



TM3000 2015/07/01 N D4.6 x2.0k 30 um

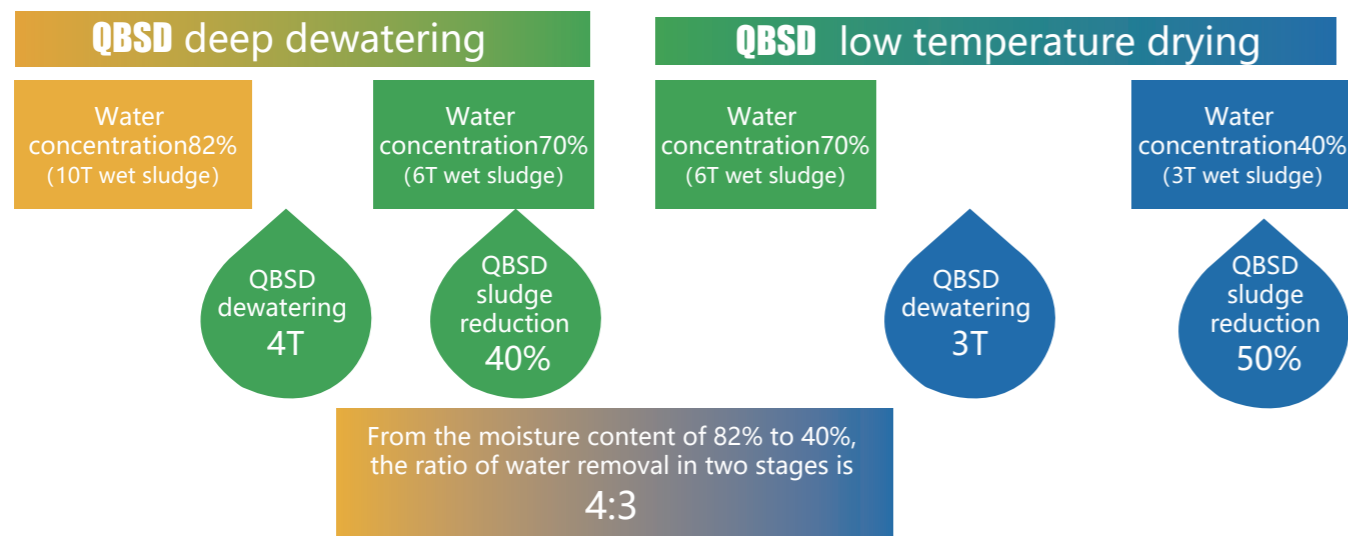


**Q B The process is compared with the traditional reduction process**

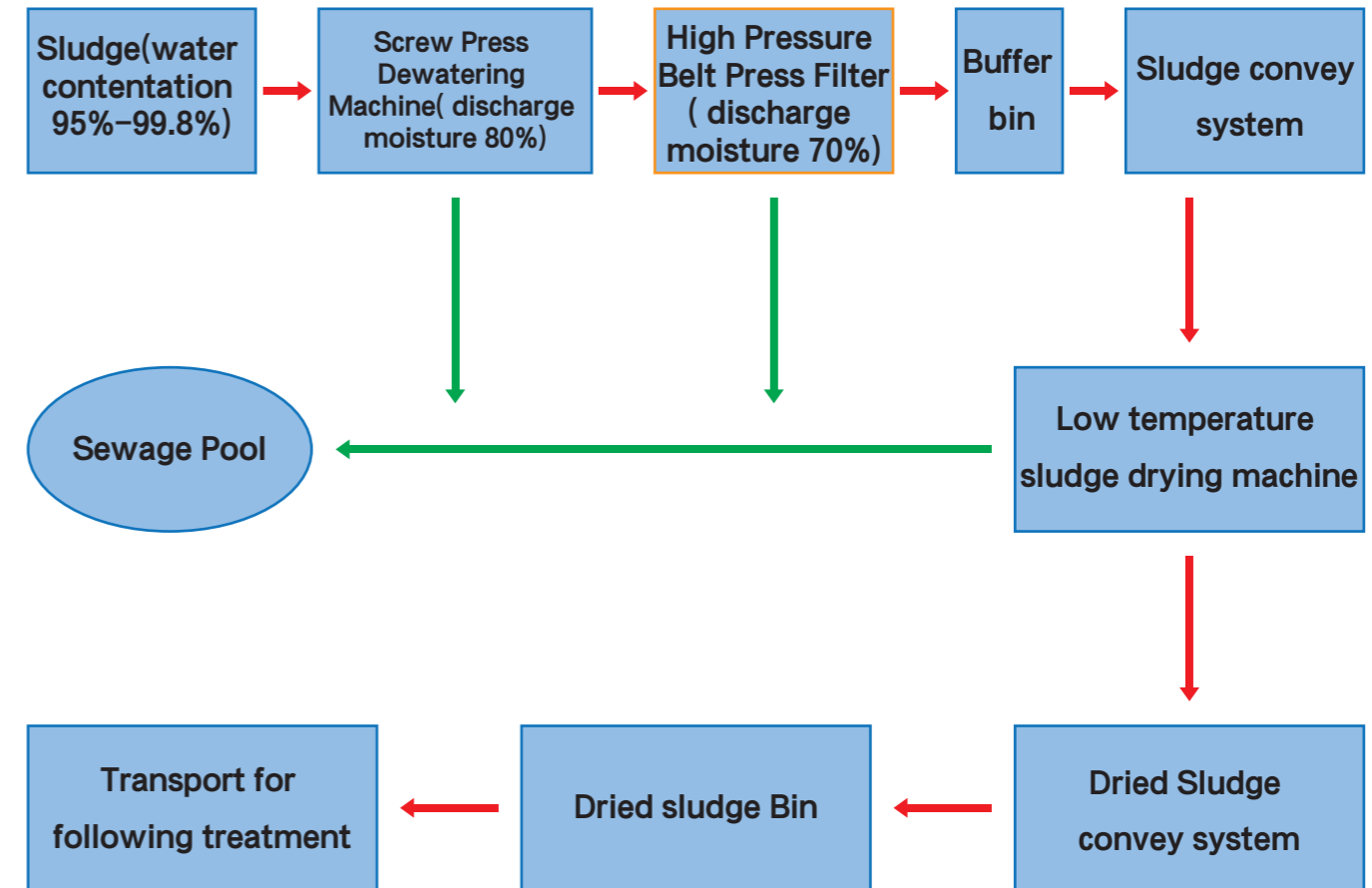
| Contrast item                           | Screw press + deep dehydration + low temperature drying                             | Screw press + low temperature dryin | Frame press + low temperature drying  |
|---|---|-------------------------------------|---------------------------------------|
| Wet mud application scope               | Below 99.8%   | Below 99.8%                         | Below 99.8%                           |
| Drying performance                      | 10%-60%   | 10%-60%                             | 10%-60%                               |
| Occupied area                           | The area is moderate, and the system equipment is generally divided into two layers | Occupy a relatively large area      | Two-floor layout, covers a large area |
| System complexity                       | The system is relatively long, but can switch flexibly                              | The system is relatively simple     | The system is more complex            |
| Human assistance                        | unassisted  | unassisted                          | Manual unloading is required          |
| Operating cos                           | 120-130 RMB/ton   | 120-130 RMB/ton                     | 120-130 RMB/ton                       |
| Tons of processing equipment investment | Moderation  | Relatively high                     | Relatively high                       |

In summary, the combined process of "QBSD deep dehydration and low temperature drying" can meet the needs of sludge reduction with moisture content of 99%~10%, and has a wide range of application. It combines the technical advantages of belt deep dehydration and low temperature drying process, and makes up for the technical disadvantages that the moisture content of belt deep dehydration process is difficult to reduce below 60%. It also solves the application bottleneck of low temperature drying process with relatively high energy consumption. At the same time, the combined process system of "QBSD deep dehydration and low temperature drying" has good connection and stable operation, which is the best choice under the same sludge disposal conditions from the perspective of operating cost or equipment investment.

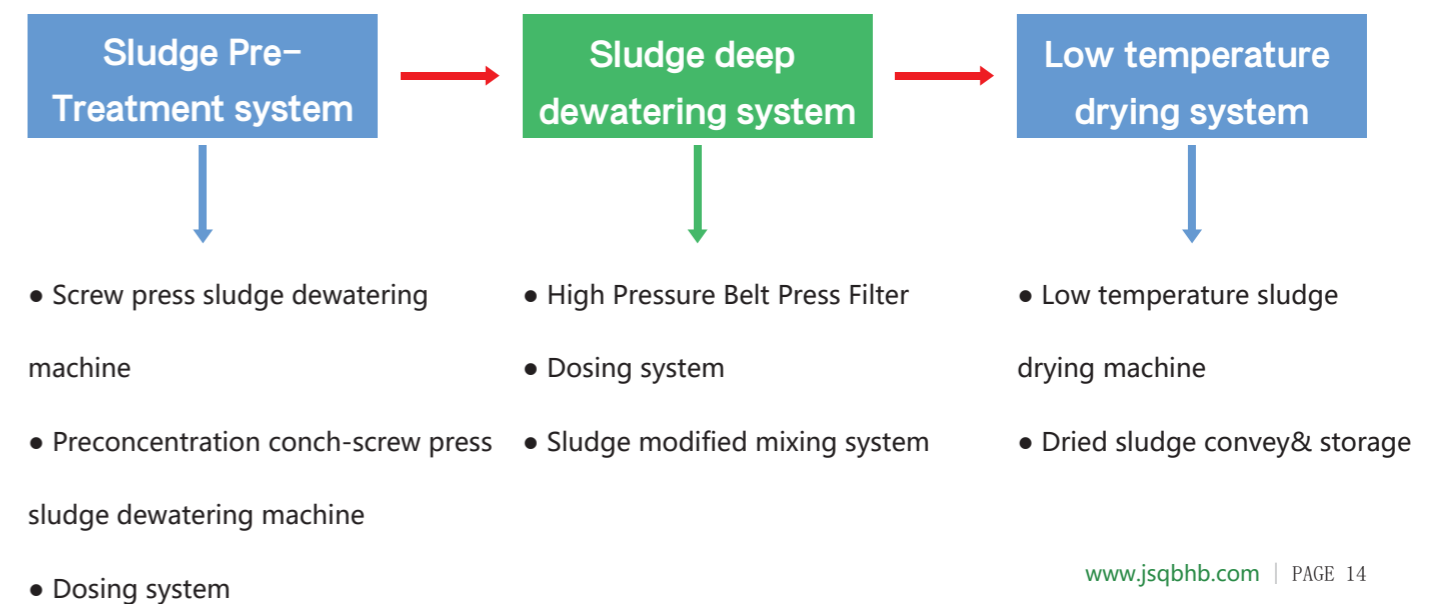
QBSD continuous sludge deep dewatering technology can treat the sludge with a moisture content of about 80% to a moisture content of about 70%, calculated according to low temperature drying treatment to a moisture content of 40%, the ratio of water removal in two stages 4: 3, due to the low investment cost and low operating power of QBSD deep dehydration stage, it can reduce the initial investment of the combined process and reduce the operating cost of the combined process. The dehumidification SMER per unit input power of the combined process can reach up to 9.2 kg water /kW-h, and the energy use efficiency is the industry standard of drying equipment four times accurate.



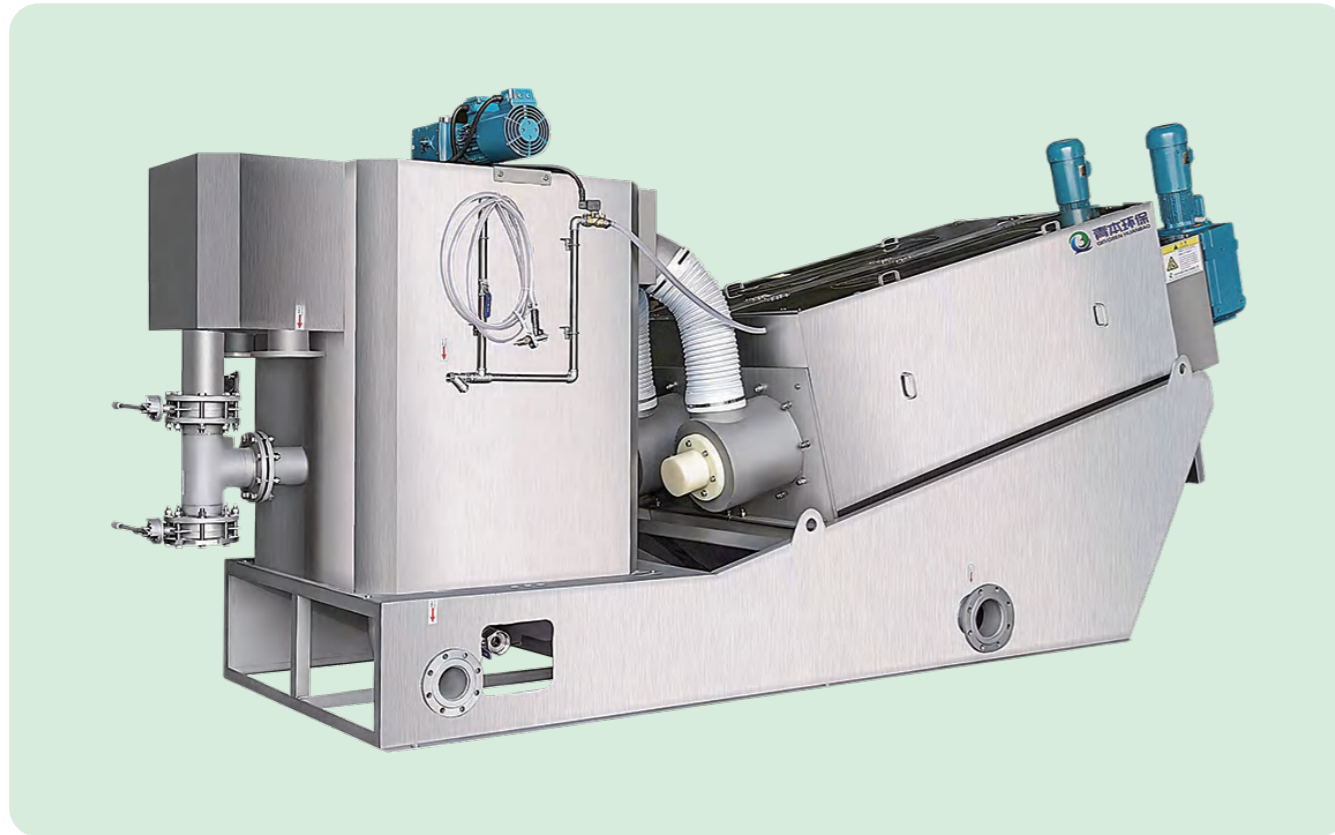
**Q B Sludge reduction process flow diagram**



**Q B Deep dewatering Low temperature drying process.equipment composition**



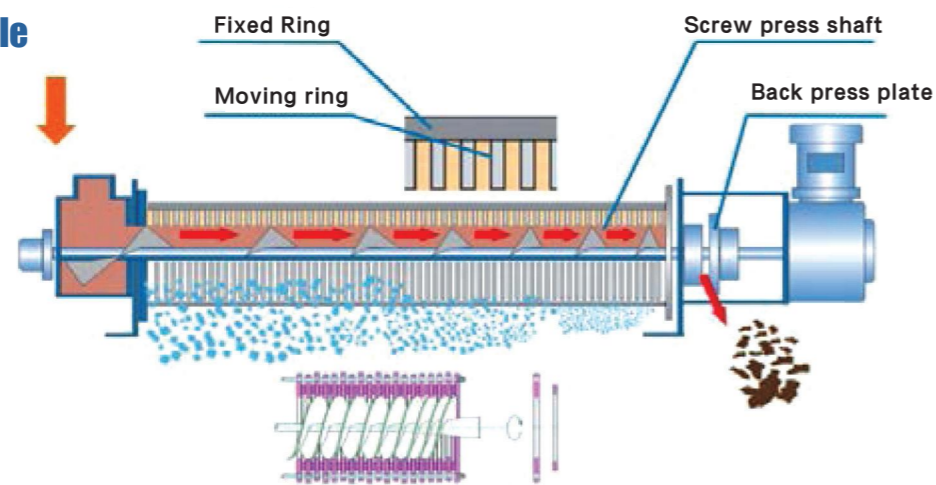
## Screw press sludge dewatering machine



### Q B Product introduction

Screw press sludge dewatering machine integrates automatic control cabinet, flocculation and conditioning tank, sludge thickening and dewatering body and liquid collecting tank which can realize efficient flocculation under the condition of automatic operation, and continuously complete the sludge thickening and pressing and dewatering work, and finally return or discharge the collected filtrate.

### Q B Working principle



### Concentration:

The fixed ring and moving ring moved relatively with screw shaft rotated.

Under gravity, sewage follows from the gap between fixed ring and moving ring to achieve rapid concentration.



### Dewatering:

The concentrated sludge moves forward continuously with the rotation of the spiral axis. Along the exit direction of the sludge cake, the pitch of the screw shaft gradually decreases, the gap between the rings also gradually decreases, and the volume of the spiral cavity keeps shrinking. Under the action of the back pressure plate at the outlet, the internal pressure is gradually enhanced, and under the continuous operation of the screw driving shaft, the water in the sludge is extruded and discharged and the solid content of the sludge cake is continuously increased, and the continuous dehydration of the sludge is finally achieved.

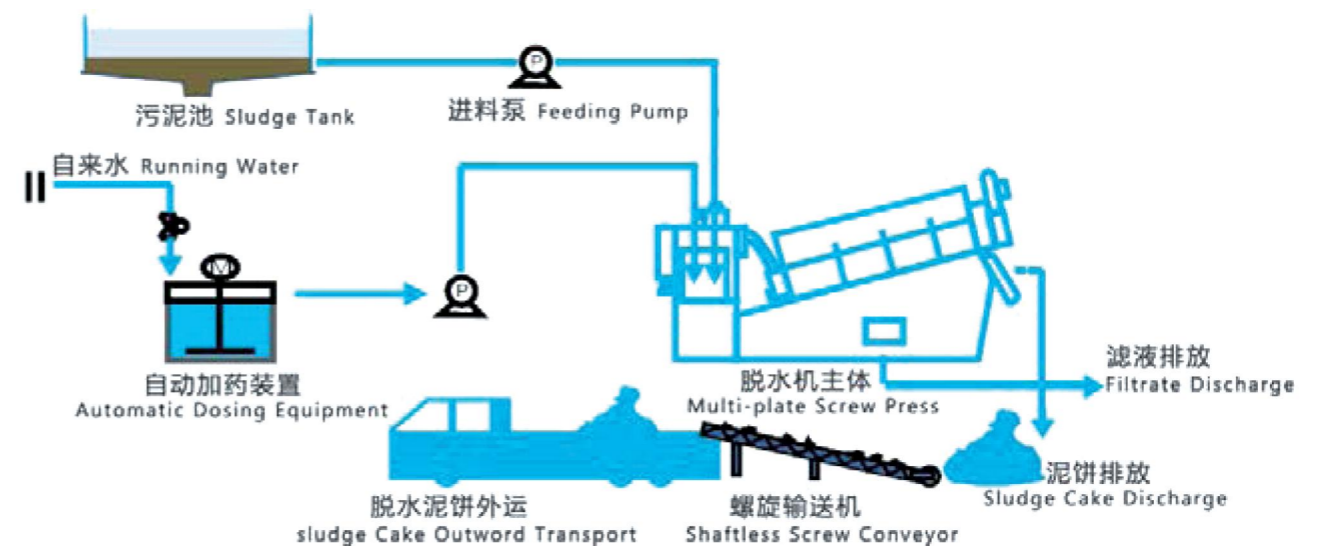


### Self-Cleaning:

The rotation of the screw shaft drives the floating ring to rotate continuously, and the equipment relies on the movement between the fixed ring and the floating ring to achieve a continuous thus subtly avoiding the blockage problem common in the traditional dehydrator.

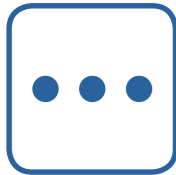


### Q B Process flow



**Q B Core Technology**

**Multiple application**



The screw press type sludge dewatering machine can not only deal with high concentration sludge, but also concentrate and dehydrate low concentration sludge directly, and the applicable sludge concentration can reach 5000mg/L-50000mg/L.



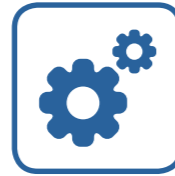
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**Low speed operation, no noise and low energy consumption**



The speed is 2-4 revolutions per minute, the average energy consumption is 1/8 of the belt machine, 1/20 of the centrifuge, and its unit power consumption is only 0.01-0.1kwh/kg-DS.



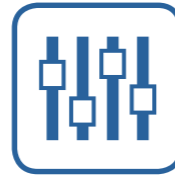
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**Independent variable frequency drive**



The dewatering body of each group of equipment is driven by an independent variable frequency motor, which starts gently, and each group can be started or stopped separately.



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**Reduce infrastructure investment**



The screw press sludge dewatering machine occupies a small area, and can directly treat the sludge in the aeration tank and secondary sedimentation tank, without the need to set up a sludge thickening tank, saving the investment in supporting equipment such as mixers, air compressors and washing water pumps.



**Reduce infrastructure investment**

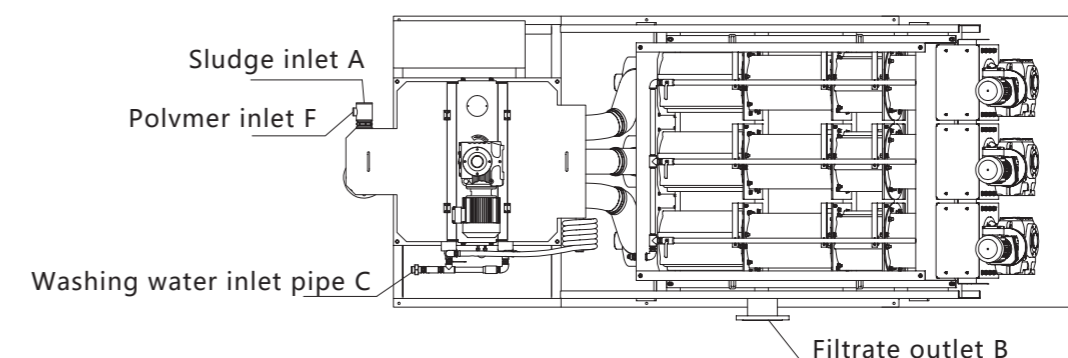
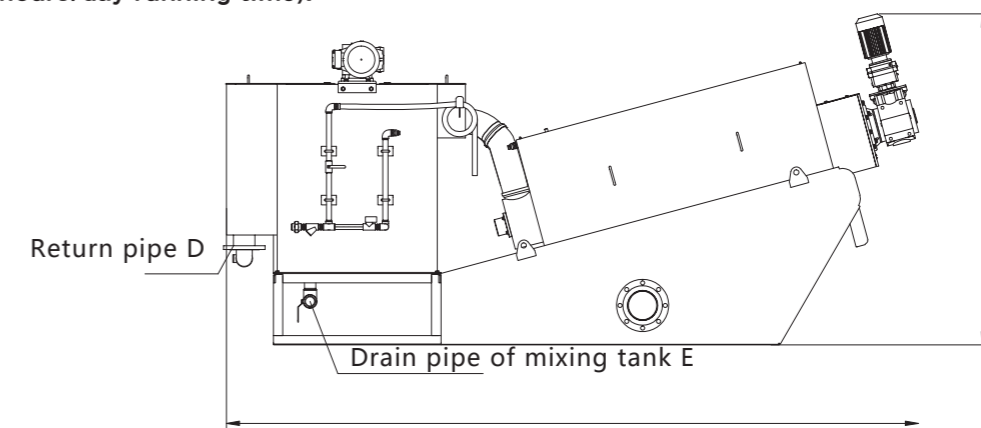
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**Q B Technical Parameter**

| Model   | DS Sludge treatment capacity | Sludge flow treating capacity |                        |                       |                        |                        |
|---------|------------------------------|-------------------------------|------------------------|-----------------------|------------------------|------------------------|
|         |                              | 10000mg/L                     | 20000mg/L              | 30000mg/L             | 40000mg/L              | 50000mg/L              |
| QBDL131 | 06~12kg/h                    | ~1m <sup>3</sup> /h           | ~0.5m <sup>3</sup> /h  | ~0.4m <sup>3</sup> /h | ~0.3m <sup>3</sup> /h  | ~0.28m <sup>3</sup> /h |
| QBDL201 | 10~18kg/h                    | ~1.5m <sup>3</sup> /h         | ~0.75m <sup>3</sup> /h | ~0.6m <sup>3</sup> /h | ~0.5m <sup>3</sup> /h  | ~0.4m <sup>3</sup> /h  |
| QBDL202 | 30~40kg/h                    | ~3m <sup>3</sup> /h           | ~1.5m <sup>3</sup> /h  | ~1.2m <sup>3</sup> /h | ~1m <sup>3</sup> /h    | ~0.8m <sup>3</sup> /h  |
| QBDL251 | 20~40kg/h                    | ~2m <sup>3</sup> /h           | ~1m <sup>3</sup> /h    | ~0.9m <sup>3</sup> /h | ~0.85m <sup>3</sup> /h | ~0.8m <sup>3</sup> /h  |
| QBDL252 | 40~80kg/h                    | ~4m <sup>3</sup> /h           | ~2m <sup>3</sup> /h    | ~1.8m <sup>3</sup> /h | ~1.7m <sup>3</sup> /h  | ~1.6m <sup>3</sup> /h  |
| QBDL301 | 40~70kg/h                    | ~5m <sup>3</sup> /h           | ~2.5m <sup>3</sup> /h  | ~2m <sup>3</sup> /h   | ~1.5m <sup>3</sup> /h  | ~1.4m <sup>3</sup> /h  |
| QBDL302 | 100~140kg/h                  | ~10m <sup>3</sup> /h          | ~5m <sup>3</sup> /h    | ~4m <sup>3</sup> /h   | ~3m <sup>3</sup> /h    | ~2.8m <sup>3</sup> /h  |
| QBDL303 | 150~210kg/h                  | ~15m <sup>3</sup> /h          | ~7.5m <sup>3</sup> /h  | ~6m <sup>3</sup> /h   | ~4.5m <sup>3</sup> /h  | ~4.2m <sup>3</sup> /h  |
| QBDL304 | 200~280kg/h                  | ~20m <sup>3</sup> /h          | ~10m <sup>3</sup> /h   | ~8m <sup>3</sup> /h   | ~6m <sup>3</sup> /h    | ~5.6m <sup>3</sup> /h  |
| QBDL351 | 80~120kg/h                   | ~10m <sup>3</sup> /h          | ~5m <sup>3</sup> /h    | ~4m <sup>3</sup> /h   | ~3m <sup>3</sup> /h    | ~2.4m <sup>3</sup> /h  |
| QBDL352 | 200~240kg/h                  | ~20m <sup>3</sup> /h          | ~10m <sup>3</sup> /h   | ~8m <sup>3</sup> /h   | ~6m <sup>3</sup> /h    | ~4.8m <sup>3</sup> /h  |
| QBDL353 | 300~360kg/h                  | ~30m <sup>3</sup> /h          | ~15m <sup>3</sup> /h   | ~12m <sup>3</sup> /h  | ~9m <sup>3</sup> /h    | ~7.2m <sup>3</sup> /h  |
| QBDL354 | 400~480kg/h                  | ~40m <sup>3</sup> /h          | ~20m <sup>3</sup> /h   | ~16m <sup>3</sup> /h  | ~12m <sup>3</sup> /h   | ~9.6m <sup>3</sup> /h  |
| QBDL401 | 110~160kg/h                  | ~13m <sup>3</sup> /h          | ~6.5m <sup>3</sup> /h  | ~5m <sup>3</sup> /h   | ~4m <sup>3</sup> /h    | ~3.2m <sup>3</sup> /h  |
| QBDL402 | 260~320kg/h                  | ~26m <sup>3</sup> /h          | ~13m <sup>3</sup> /h   | ~10m <sup>3</sup> /h  | ~8m <sup>3</sup> /h    | ~6.4m <sup>3</sup> /h  |
| QBDL403 | 390~480kg/h                  | ~39m <sup>3</sup> /h          | ~19.5m <sup>3</sup> /h | ~15m <sup>3</sup> /h  | ~12m <sup>3</sup> /h   | ~9.6m <sup>3</sup> /h  |
| QBDL404 | 520~640kg/h                  | ~52m <sup>3</sup> /h          | ~26m <sup>3</sup> /h   | ~20m <sup>3</sup> /h  | ~16m <sup>3</sup> /h   | ~12.8m <sup>3</sup> /h |

| Model   | Motor Power(kw) |         |       | Washing water pressure  | Washing Watervolume (L/h) | Maintenance Frequency | Wearing parts replacementcycle(year) |                |
|---------|-----------------|---------|-------|---|---------------------------|-----------------------|--------------------------------------|----------------|
|         | Screw Shaft     | Mixer   | Total |   |                           |                       | Screw shaft                          | Move able ring |
| QBDL131 | 0.18            | 0.18    | 0.36  | 0.1MPa—<br>0.2Mpa<br>(Without<br>high<br>pressure<br>flushing<br>equipment) | 28                        | 5min/h                | 5                                    | 3              |
| QBDL201 | 0.37            | 0.18    | 0.55  |   | 32                        |                       | 5                                    | 3              |
| QBDL202 | 0.74            | 0.55    | 1.29  |   | 64                        |                       | 5                                    | 3              |
| QBDL251 | 0.55            | 0.37    | 0.92  |   | 40                        |                       | 5                                    | 3              |
| QBDL252 | 1.1             | 0.55    | 1.65  |   | 80                        |                       | 5                                    | 3              |
| QBDL301 | 0.75            | 0.55    | 1.3   |   | 40                        |                       | 10                                   | 5              |
| QBDL302 | 1.5             | 0.75    | 2.25  |   | 80                        |                       | 10                                   | 5              |
| QBDL303 | 2.25            | 1.1     | 3.35  |   | 120                       |                       | 10                                   | 5              |
| QBDL304 | 3               | 1.1     | 4.1   |   | 160                       |                       | 10                                   | 5              |
| QBDL351 | 1.1             | 0.75    | 1.85  |   | 60                        |                       | 10                                   | 5              |
| QBDL352 | 2.2             | 1.1     | 3.3   |   | 120                       |                       | 10                                   | 5              |
| QBDL353 | 3.3             | 1.5     | 4.8   |   | 180                       |                       | 10                                   | 5              |
| QBDL354 | 4.4             | 1.5     | 5.9   |   | 240                       |                       | 10                                   | 5              |
| QBDL401 | 1.5             | 1.1     | 2.6   |   | 80                        |                       | 10                                   | 5              |
| QBDL402 | 3               | 1.5     | 4.5   |   | 160                       |                       | 10                                   | 5              |
| QBDL403 | 4.5             | 1.1+1.1 | 6.7   |   | 240                       |                       | 10                                   | 5              |
| QBDL404 | 6               | 1.1+1.1 | 8.2   | 320   | 10                        | 5                     |                                      |                |

Note: The replacement time of wearing parts is a approximate value. In the actual operation process, sludge types, treatment methods, operation adjustment status and daily operation time will affect the replacement cycle of wearing parts. (The replacement cycle of wearing parts is calculated by 365 days/year and 16 hours/day running time).



Overall View of Screw Press

| Model   | Screw specs | Sludge cake discharge height (mm) | Overall dimension(mm) |          |           | Net weight | Operating weight |
|---------|-------------|-----------------------------------|-----------------------|----------|-----------|------------|------------------|
|         |             |                                   | Length (L)            | Width(w) | Height(H) |            |                  |
| QBDL131 | φ130×1      | 240                               | 2000                  | 790      | 1040      | 250        | 395              |
| QBDL201 | φ200×1      | 350                               | 2550                  | 900      | 1300      | 420        | 540              |
| QBDL202 | φ200×2      | 350                               | 2600                  | 1050     | 1300      | 550        | 660              |
| QBDL251 | φ250×1      | 380                               | 2750                  | 950      | 1450      | 550        | 680              |
| QBDL252 | φ250×2      | 380                               | 2800                  | 1150     | 1450      | 650        | 800              |
| QBDL301 | φ300×1      | 530                               | 3380                  | 980      | 1760      | 900        | 1300             |
| QBDL302 | φ300×2      | 530                               | 3580                  | 1320     | 1760      | 1350       | 2000             |
| QBDL303 | φ300×3      | 530                               | 3730                  | 1590     | 1760      | 1900       | 2700             |
| QBDL304 | φ300×4      | 530                               | 3830                  | 1985     | 1750      | 2500       | 3600             |
| QBDL351 | φ350×1      | 570                               | 4160                  | 1100     | 2250      | 1100       | 2000             |
| QBDL352 | φ350×2      | 570                               | 4380                  | 1495     | 2250      | 2100       | 3250             |
| QBDL353 | φ350×3      | 570                               | 4580                  | 1955     | 2250      | 3100       | 4600             |
| QBDL354 | φ350×4      | 520                               | 4230                  | 2370     | 2040      | 4100       | 5700             |
| QBDL401 | φ400×1      | 660                               | 4520                  | 1250     | 2150      | 2200       | 4200             |
| QBDL402 | φ400×2      | 660                               | 4770                  | 1685     | 2150      | 3500       | 6000             |
| QBDL403 | φ400×3      | 660                               | 4800                  | 2520     | 2150      | 5500       | 8000             |
| QBDL404 | φ400×4      | 660                               | 5000                  | 3150     | 2150      | 7000       | 9500             |

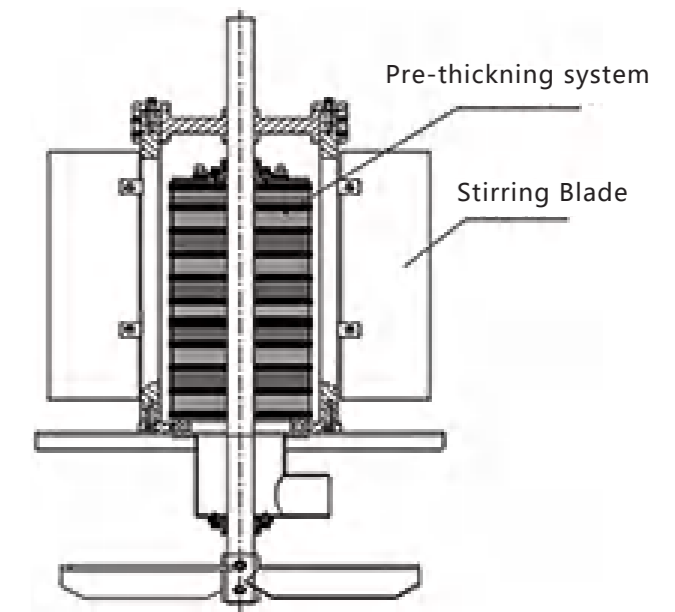
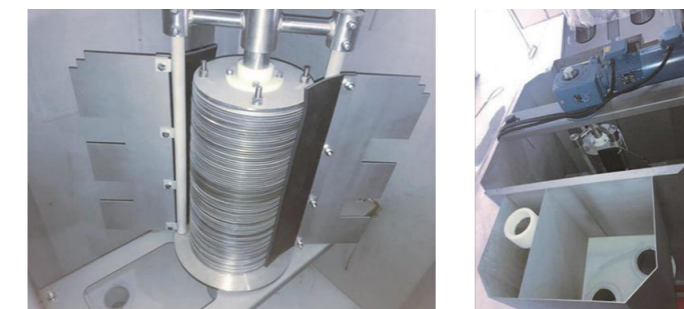
| Model   | Water supply outlet C | Reflux orifice D | Discharge port of mixing tank E | Dosing port F | Filtrate outlet G |
|---------|-----------------------|------------------|---------------------------------|---------------|-------------------|
| QBDL131 | DN20                  | DN65             | DN40                            | DN20          | DN65              |
| QBDL201 | DN20                  | DN65             | DN40                            | DN20          | DN80              |
| QBDL202 | DN20                  | DN65             | DN40                            | DN20          | DN80              |
| QBDL251 | DN20                  | DN65             | DN40                            | DN25          | DN80              |
| QBDL252 | DN20                  | DN65             | DN50                            | DN20          | DN150             |
| QBDL301 | DN20                  | DN150            | DN65                            | DN25          | DN125             |
| QBDL302 | DN20                  | DN150            | DN65                            | DN25          | DN125             |
| QBDL303 | DN20                  | DN150            | DN65                            | DN25          | DN125             |
| QBDL304 | DN20                  | DN150            | DN65                            | DN32          | DN150             |
| QBDL351 | DN20                  | DN150            | DN65                            | DN25          | DN125             |
| QBDL352 | DN20                  | DN150            | DN65                            | DN25          | DN125             |
| QBDL353 | DN20                  | DN150            | DN65                            | DN32          | DN150             |
| QBDL354 | DN20                  | DN150            | DN65                            | DN32          | DN150             |
| QBDL401 | DN20                  | DN150            | DN65                            | DN25          | DN125             |
| QBDL402 | DN20                  | DN150            | DN65                            | DN32          | DN150             |
| QBDL403 | DN20                  | DN150            | DN65                            | DN50          | DN200             |
| QBDL404 | DN25                  | DN150            | DN65                            | DN50          | DN200             |

### Preconcentration conch sludge dehydrator



### Q B Product Specification

The difference from screw press sludge dewatering machine: it adds a pre-concentrated system in the mixing tank, which can concentrate the sludge with the sludge concentration below 10000mg/L first and then dehydrate the sludge, improving the treatment efficiency and effect of low concentration sludge.



| Model     | DS Sludge treatment capacity | Sludge flow treating capacity |                       |                      |                        |
|-----------|------------------------------|-------------------------------|-----------------------|----------------------|------------------------|
|           |                              | 2500mg/L                      | 5000mg/L              | 10000mg/L            | 2500mg/L               |
| QBDL-Y301 | 40~70kg/h                    | ~16m <sup>3</sup> /h          | ~10m <sup>3</sup> /h  | ~7m <sup>3</sup> /h  | ~3.5m <sup>3</sup> /h  |
| QBDL-Y302 | 80~140kg/h                   | ~32m <sup>3</sup> /h          | ~20m <sup>3</sup> /h  | ~14m <sup>3</sup> /h | ~7m <sup>3</sup> /h    |
| QBDL-Y303 | 120~210kg/h                  | ~48m <sup>3</sup> /h          | ~30m <sup>3</sup> /h  | ~21m <sup>3</sup> /h | ~10.5m <sup>3</sup> /h |
| QBDL-Y304 | 160~280kg/h                  | ~64m <sup>3</sup> /h          | ~40m <sup>3</sup> /h  | ~28m <sup>3</sup> /h | ~14m <sup>3</sup> /h   |
| QBDL-Y351 | 80~120kg/h                   | ~32m <sup>3</sup> /h          | ~16m <sup>3</sup> /h  | ~12m <sup>3</sup> /h | ~6m <sup>3</sup> /h    |
| QBDL-Y352 | 160~240kg/h                  | ~64m <sup>3</sup> /h          | ~32m <sup>3</sup> /h  | ~24m <sup>3</sup> /h | ~12m <sup>3</sup> /h   |
| QBDL-Y353 | 240~360kg/h                  | ~96m <sup>3</sup> /h          | ~48m <sup>3</sup> /h  | ~36m <sup>3</sup> /h | ~18m <sup>3</sup> /h   |
| QBDL-Y354 | 320~480kg/h                  | ~128m <sup>3</sup> /h         | ~64m <sup>3</sup> /h  | ~48m <sup>3</sup> /h | ~24m <sup>3</sup> /h   |
| QBDL-Y401 | 100~160kg/h                  | ~40m <sup>3</sup> /h          | ~26m <sup>3</sup> /h  | ~16m <sup>3</sup> /h | ~8m <sup>3</sup> /h    |
| QBDL-Y402 | 200~320kg/h                  | ~80m <sup>3</sup> /h          | ~52m <sup>3</sup> /h  | ~32m <sup>3</sup> /h | ~16m <sup>3</sup> /h   |
| QBDL-Y403 | 300~480kg/h                  | ~120m <sup>3</sup> /h         | ~78m <sup>3</sup> /h  | ~48m <sup>3</sup> /h | ~24m <sup>3</sup> /h   |
| QBDL-Y404 | 400~640kg/h                  | ~160m <sup>3</sup> /h         | ~104m <sup>3</sup> /h | ~64m <sup>3</sup> /h | ~32m <sup>3</sup> /h   |

| Model     | Sludge discharge height(mm) | Overall Size |       |        | Sludge inlet A | Filtrate outlet B |
|-----------|-----------------------------|--------------|-------|--------|----------------|-------------------|
|           |                             | Length       | Width | Height |                |                   |
| QBDL-Y301 | 500                         | 4000         | 1580  | 1900   | DN65           | DN150             |
| QBDL-Y302 | 500                         | 4000         | 1580  | 1900   | DN65           | DN150             |
| QBDL-Y303 | 500                         | 4000         | 1610  | 1900   | DN80           | DN150             |
| QBDL-Y304 | 500                         | 4185         | 2050  | 1900   | DN80           | DN150             |
| QBDL-Y351 | 680                         | 4340         | 1160  | 2300   | DN65           | DN150             |
| QBDL-Y352 | 680                         | 4500         | 1550  | 2300   | DN80           | DN150             |
| QBDL-Y353 | 680                         | 4800         | 2100  | 2300   | DN100          | DN150             |
| QBDL-Y354 | 680                         | 5100         | 2650  | 2300   | DN100          | DN200             |
| QBDL-Y401 | 875                         | 5150         | 1400  | 2560   | DN80           | DN150             |
| QBDL-Y402 | 875                         | 5150         | 1880  | 2560   | DN100          | DN150             |
| QBDL-Y403 | 875                         | 5350         | 2525  | 2560   | DN100          | DN200             |
| QBDL-Y404 | 875                         | 5500         | 3105  | 2560   | DN100          | DN200             |

| Model     | Motor Power(kw) |                |       | Washing water consumption |
|-----------|-----------------|----------------|-------|---------------------------|
|           | Drive motor     | Stirring motor | Total |                           |
| QBDL-Y301 | 0.75            | 0.75           | 1.5   | 40                        |
| QBDL-Y302 | 1.5             | 1.1            | 2.6   | 80                        |
| QBDL-Y303 | 2.25            | 1.1            | 3.35  | 120                       |
| QBDL-Y304 | 3               | 1.1            | 4.1   | 160                       |
| QBDL-Y351 | 1.1             | 1.1            | 2.2   | 60                        |
| QBDL-Y352 | 2.2             | 1.1            | 3.3   | 120                       |
| QBDL-Y353 | 3.3             | 1.5            | 4.8   | 180                       |
| QBDL-Y354 | 4.4             | 1.5            | 5.9   | 240                       |
| QBDL-Y401 | 1.5             | 1.1            | 2.6   | 80                        |
| QBDL-Y402 | 3               | 1.5            | 4.5   | 160                       |
| QBDL-Y403 | 4.5             | 1.5            | 6     | 240                       |
| QBDL-Y404 | 6               | 1.1+1.1        | 8.2   | 320                       |

| Model     | Washing water inlet pipe C | Return PipeD | Drain pipe of mixing tankE | Polymer inlet F | Pre-thickning Filtrate outlet B | Net weight | Operating weight |
|-----------|----------------------------|--------------|----------------------------|-----------------|---------------------------------|------------|------------------|
| QBDL-Y301 | DN20                       | DN150        | DN65                       | DN25            | DN125                           | 1100       | 1850             |
| QBDL-Y302 | DN20                       | DN150        | DN65                       | DN25            | DN125                           | 1550       | 2450             |
| QBDL-Y303 | DN20                       | DN150        | DN65                       | DN25            | DN125                           | 2100       | 3250             |
| QBDL-Y304 | DN20                       | DN150        | DN65                       | DN32            | DN150                           | 2800       | 4100             |
| QBDL-Y351 | DN20                       | DN150        | DN65                       | DN25            | DN125                           | 1350       | 2250             |
| QBDL-Y352 | DN20                       | DN150        | DN65                       | DN25            | DN125                           | 2350       | 3500             |
| QBDL-Y353 | DN20                       | DN150        | DN65                       | DN32            | DN150                           | 3500       | 5000             |
| QBDL-Y354 | DN20                       | DN150        | DN65                       | DN32            | DN150                           | 4500       | 6100             |
| QBDL-Y401 | DN20                       | DN150        | DN65                       | DN25            | DN125                           | 3100       | 5200             |
| QBDL-Y402 | DN20                       | DN150        | DN65                       | DN32            | DN150                           | 4300       | 6900             |
| QBDL-Y403 | DN20                       | DN150        | DN65                       | DN50            | DN200                           | 6000       | 9100             |
| QBDL-Y404 | DN25                       | DN150        | DN65                       | DN50            | DN200                           | 7500       | 12900            |

## Spiral sludge thickener



### QB Product introduction

This equipment inherits the technical characteristics of low energy consumption, high efficiency, full automatic control and stable operation of the cascade sludge dewatering machine. It can directly concentrate the sludge in the secondary sedimentation tank rapidly and continuously, and the sludge concentration after concentration and separation is stable and adjustable in the range of 90%–96%. After adopting this equipment, there is no need to build a concentration tank, reducing infrastructure investment and land area. Effectively reduce the odor and phosphorus release caused by sludge in the thickening tank, reduce the work burden of subsequent treatment, and greatly improve the capacity of sludge dewatering or deep dewatering equipment. Stacked screw thickener can be used as pretreatment equipment for sludge dewatering and deep dewatering system, for high pressure elastic press, high pressure diaphragm plate frame or other dewatering equipment.

| Mode      | DS Sludge treatment capacity | Sludge flow treatment capacity |                       |                       |                      |
|-----------|------------------------------|--------------------------------|-----------------------|-----------------------|----------------------|
|           |                              | 2500mg/L                       | 5000mg/L              | 10000mg/L             | 2500mg/L             |
| QBDL-N301 | 70~100kg/h                   | ~28m <sup>3</sup> /h           | ~14m <sup>3</sup> /h  | ~10m <sup>3</sup> /h  | ~5m <sup>3</sup> /h  |
| QBDL-N302 | 140~200kg/h                  | ~56m <sup>3</sup> /h           | ~28m <sup>3</sup> /h  | ~20m <sup>3</sup> /h  | ~10m <sup>3</sup> /h |
| QBDL-N303 | 210~300kg/h                  | ~84m <sup>3</sup> /h           | ~42m <sup>3</sup> /h  | ~30m <sup>3</sup> /h  | ~15m <sup>3</sup> /h |
| QBDL-N304 | 280~400kg/h                  | ~112m <sup>3</sup> /h          | ~56m <sup>3</sup> /h  | ~40m <sup>3</sup> /h  | ~20m <sup>3</sup> /h |
| QBDL-N351 | 120~160kg/h                  | ~48m <sup>3</sup> /h           | ~24m <sup>3</sup> /h  | ~16m <sup>3</sup> /h  | ~8m <sup>3</sup> /h  |
| QBDL-N352 | 240~360kg/h                  | ~96m <sup>3</sup> /h           | ~48m <sup>3</sup> /h  | ~32m <sup>3</sup> /h  | ~16m <sup>3</sup> /h |
| QBDL-N353 | 360~360kg/h                  | ~144m <sup>3</sup> /h          | ~72m <sup>3</sup> /h  | ~48m <sup>3</sup> /h  | ~24m <sup>3</sup> /h |
| QBDL-N354 | 480~480kg/h                  | ~192m <sup>3</sup> /h          | ~96m <sup>3</sup> /h  | ~64m <sup>3</sup> /h  | ~32m <sup>3</sup> /h |
| QBDL-N401 | 200~300kg/h                  | ~80m <sup>3</sup> /h           | ~40m <sup>3</sup> /h  | ~30m <sup>3</sup> /h  | ~15m <sup>3</sup> /h |
| QBDL-N402 | 400~600kg/h                  | ~160m <sup>3</sup> /h          | ~80m <sup>3</sup> /h  | ~60m <sup>3</sup> /h  | ~30m <sup>3</sup> /h |
| QBDL-N403 | 600~900kg/h                  | ~240m <sup>3</sup> /h          | ~120m <sup>3</sup> /h | ~90m <sup>3</sup> /h  | ~45m <sup>3</sup> /h |
| QBDL-N404 | 800~1200kg/h                 | ~320m <sup>3</sup> /h          | ~160m <sup>3</sup> /h | ~120m <sup>3</sup> /h | ~60m <sup>3</sup> /h |

| Model     | Motor Power(kw) |                |       | washing water consumption |
|-----------|-----------------|----------------|-------|---------------------------|
|           | Drive Motor     | stirring motor | Total |                           |
| QBDL-N301 | 0.75            | 0.55           | 1.3   | 40                        |
| QBDL-N302 | 1.5             | 0.75           | 2.25  | 80                        |
| QBDL-N303 | 2.25            | 1.1            | 3.35  | 120                       |
| QBDL-N304 | 3               | 1.1            | 4.1   | 160                       |
| QBDL-N351 | 1.1             | 0.75           | 1.85  | 60                        |
| QBDL-N352 | 2.2             | 1.1            | 3.3   | 120                       |
| QBDL-N353 | 3.3             | 1.5            | 4.8   | 180                       |
| QBDL-N354 | 4.4             | 1.5            | 5.9   | 240                       |
| QBDL-N401 | 1.5             | 1.1            | 2.6   | 80                        |
| QBDL-N402 | 3               | 1.5            | 4.5   | 160                       |
| QBDL-N403 | 4.5             | 1.5            | 6     | 240                       |
| QBDL-N404 | 6               | 1.1+1.1        | 8.2   | 320                       |

| Model     | Sludge Cake discharge height | overall size |       |        | Sludge discharge port A | Filtrate outlet B |
|-----------|------------------------------|--------------|-------|--------|-------------------------|-------------------|
|           |                              | Length       | Width | Height |                         |                   |
| QBDL-N301 | 500                          | 3160         | 1150  | 2000   | DN65                    | DN150             |
| QBDL-N302 | 500                          | 3360         | 1350  | 2000   | DN65                    | DN150             |
| QBDL-N303 | 500                          | 3560         | 1600  | 2000   | DN65                    | DN150             |
| QBDL-N304 | 500                          | 3700         | 2110  | 2000   | DN80                    | DN150             |
| QBDL-N351 | 520                          | 3850         | 1200  | 2300   | DN65                    | DN150             |
| QBDL-N352 | 520                          | 3950         | 1600  | 2300   | DN65                    | DN150             |
| QBDL-N353 | 520                          | 4250         | 2000  | 2300   | DN80                    | DN150             |
| QBDL-N354 | 520                          | 4400         | 2550  | 2300   | DN80                    | DN150             |
| QBDL-N401 | 660                          | 4450         | 1400  | 2560   | DN65                    | DN150             |
| QBDL-N402 | 660                          | 4650         | 1900  | 2560   | DN80                    | DN150             |
| QBDL-N403 | 660                          | 4750         | 2550  | 2560   | DN80                    | DN150             |
| QBDL-N404 | 660                          | 7850         | 3150  | 2560   | DN80                    | DN150             |

| Model     | Washing water inlet pipe C | Return pipe D | Drain pipe of mixing tank | Polymer inlet F | Pre-concentrated filtrate outlet G | Net weight | Operation weight |
|-----------|----------------------------|---------------|---------------------------|-----------------|------------------------------------|------------|------------------|
| QBDL-N301 | DN20                       | DN65          | DN50                      | DN25            | DN20                               | 850        | 1250             |
| QBDL-N302 | DN20                       | DN65          | DN50                      | DN25            | DN20                               | 1200       | 1900             |
| QBDL-N303 | DN20                       | DN65          | DN50                      | DN25            | DN25                               | 1750       | 2550             |
| QBDL-N304 | DN20                       | DN100         | DN50                      | DN32            | DN25                               | 2300       | 3400             |
| QBDL-N351 | DN20                       | DN65          | DN50                      | DN25            | DN20                               | 1030       | 1930             |
| QBDL-N352 | DN20                       | DN100         | DN50                      | DN25            | DN25                               | 1960       | 3110             |
| QBDL-N353 | DN20                       | DN100         | DN50                      | DN32            | DN32                               | 289+0      | 4390             |
| QBDL-N354 | DN20                       | DN100         | DN50                      | DN32            | DN32                               | 3820       | 5420             |
| QBDL-N401 | DN20                       | DN65          | DN50                      | DN25            | DN25                               | 2090       | 4090             |
| QBDL-N402 | DN20                       | DN100         | DN50                      | DN32            | DN32                               | 3280       | 5780             |
| QBDL-N403 | DN20                       | DN100         | DN50                      | DN50            | DN40                               | 5170       | 7670             |
| QBDL-N404 | DN20                       | DN100         | DN50                      | DN50            | DN40                               | 6560       | 9060             |

## Mobile sludge dewatering truck

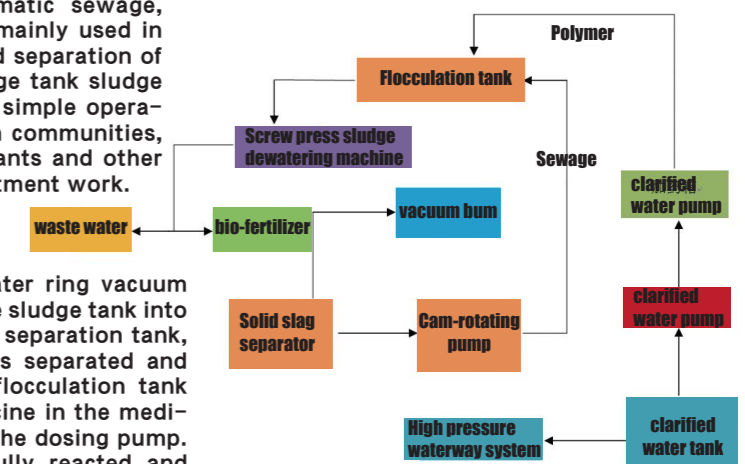


### Q B Description of Sludge Dewatering Truck

Mobile sludge dehydrating truck, domestic advanced integrated environmental protection cleaning equipment "automatic sewage, sludge, feces rapid treatment system" technology, is mainly used in septic tank cleaning and sludge tank sludge solid liquid separation of special vehicles, the car cleaning septic tank and sludge tank sludge with high efficiency, environmental protection, safety, simple operation and other characteristics. It can be widely used in communities, schools, slaughterhouses, farms, sewage treatment plants and other places to engage in septic tank sewage and sludge treatment work.

### Q B Working Principle

Mobile sludge dewatering vehicle through the water ring vacuum pump the sewage of the septic tank and the sludge of the sludge tank into the separation tank, through the spiral extrusion in the separation tank, the non-degradable inorganic matter in the sewage is separated and squeezed dry; The separated sewage is sent to the flocculation tank through the CAM rotor pump pressure, while the medicine in the medicine tank is injected into the flocculation tank through the dosing pump. After the separated sewage and the medicine are fully reacted and condensed in the flocculation tank, they flow to the screw stack machine for dehydration, so as to press the feces in the sewage into cakes and discharge the sewage up to the standard. This model can treat all flocculable sewage very well. See figure for schematic diagram.



## Q B Product Description

Efficient suction is large, no need to transport back and forth, saving the trouble of the traditional suction truck to find a place to discharge, and saving a lot of time (but also minus the burden of being caught and punished in chaos).

Energy saving – the local emission is less to the fuel consumption of automobile transportation, the operation is clean, the cost is low, the profit is large, and the benefit is good.

Environmental protection is not a simple pumping truck but a "processor", the treated sewage will not block the municipal pipes, rivers, etc., no odor, especially favored by high-end hotels, high-end residential areas, etc.; Low noise, can work at night, will not affect the rest of residents.

Sustainable – Use the equipment to clean up the chemical waste, after the machine treatment, water, garbage separation and dry, water can be reused or directly discharged to the sewer, garbage directly thrown into the nearby trash can.

## Q B Optimized comparison with conventional models

Time-saving and labor-saving: Unlike other suction trucks or suction trucks with tank capacity limitations, suction purification vehicles can operate continuously, and septic tanks can be completed at one time, without the need to transport and deal with each other, saving customers a lot of time and cost.

Quality assurance: The main parts are made of stainless steel, not only long service life, but also easy to clean.

High degree of operation safety: more than 80% of the processing work is completed by machinery, the amount of manual work is small, and the worker only needs to operate the button on the distribution cabinet.

Low cost of use: equipped with generator set, can own power generation operation, but also can be external power supply operation, can reduce generator wear, and reduce processing costs, really achieve zero fuel consumption, zero emissions.

Beautiful appearance: the car appearance design beautiful atmosphere, the side door adopts wingspan opening mode, does not occupy space after opening, and can be sheltered from wind and rain, both beautiful and practical. Hot-selling chassis, mature technology: Dongfeng Dolica market share is large, the use of Chaochai/Yuchai engine, large horsepower, good quality.

The treatment effect is good: the treated sewage can meet the national discharge standards, 8-30 cubic meters of water can be produced per hour, and 600-2000Kg of dung cake can be squeezed out, especially suitable for first-tier cities with higher discharge requirements; At the same time, for small and medium-sized cities with not strict discharge requirements, it can also be discharged after preliminary filtration, which can treat 60-80 cubic meters of sewage per hour, and the treated sewage does not block the municipal pipe network.

One car multi-purpose: After the installation of high pressure cleaning pump can be professional pipe dredging, can be installed 3 square clean water tank, one car multi-purpose, saving customers' car purchase cost.

High efficiency: The use of high-power water ring vacuum pump, sewage absorption capacity is strong, can work for a long time, even if half pipe pumping, can also ensure the treatment speed, than the sewage suction truck is more suitable for the treatment of septic tank.

Economy, environmental protection: According to customer needs, different types of suction and purification equipment can be selected, the processing speed can be fast or slow, and the feces pressed after treatment can be sold as organic fertilizer, reducing the processing cost.

| Operating Method         | Manual cleaning of septic tank  | Traditional dirt suction truck  | Environmental protection suction purification treatment  |
|--------------------------|---|---|--|
| Clearing method          | Manual operation, partial salvage   | Dilution suction, partial cleaning  | Automatic purification treatment, comprehensive and thorough cleaning                                      |
| Quality Assurance        | It is easy to jam, and needs to be cleared 3-4 times a year, requiring real-time manual supervision       | Easy to plug, a year to clean 2-3 times, according to the car charge, need real-time manual supervision                 | Comprehensive and thorough cleaning, only 1-2 times a year, after the completion of acceptance             |
| Efficiency guarantee     | Manual cleaning, labor intensity, long cleaning time, low efficiency                                      | Round-trip transportation emissions, cleaning time is longer.   | In situ uninterrupted operation, short time, high efficiency   |
| Service assurance        | Temporary employment, no follow-up assurance.   | Temporary car call, no follow-up protection   | Professional services, on call, providing follow-up services   |
| Environmental protection | Secondary pollution, the stench   | Secondary pollution, the stench   | Optional deodorizing equipment to remove odors   |
| Expense assurance        | Charged by labor quantity, no calculation base. Sit on the starting price, the comprehensive cost is high | Charged by car, no calculation base. The comprehensive cost of Cleaning up is high.                                     | According to the pool charge, there is evidence to rely on, thorough cleaning, low comprehensive cost      |
| Transportation assurance | Fixed area, multiple operations, small impact on regional traffic   | The emission of multiple round-trip transportation has a certain impact on regional traffic.                            | Fixed area one-time operation, small impact on regional traffic  |
| Energy Saving            | It is labor-intensive and cannot be recycled  | The operation requires a large amount of water dilution and cleaning drips, and round-trip transportation consumes oil. | Continuous operation, the output of organic fertilizer and water can be recycled.                          |
| Safety assurance         | Artificial well, the clearing depth is limited, easy to cause biogas siltation explosion safety risks     | Local dewatering is easy to cause explosion of biogas deposition, which is a high safety hazard.                        | Low cost of thorough dewatering, comprehensive dewatering, low safety risks to eliminate biogas deposition |



**QB Technical Parameter**

| Item | Project No.   | Unit              | Parameter                              |
|------|---|-------------------|--|
| 1    | Outer container size                                    | mm                | 4200×2350×2200                         |
| 2    | overall dimensions of a car                             | mm                | 5998×2350×3500                         |
| 3    | The stipulated number of personnel                      | number            | 3                                      |
| 4    | Service weight/total mass                               | kg                | 9600                                   |
| 5    | Chassis type  | Dongfeng          | EQ1095SJ8CD2                           |
| 6    | Engine configuration                                    | Set               | YuchaiYCY24140-60                      |
| 7    | Shaft Distance  | mm                | 3308                                   |
| 8    | Tyre size   | Piece             | 7.50R16LT 16PR                         |
| 9    | Speed changing box                                      | Set               | Wanliyang 6 speed transmission         |
| 10   | Displacement and power                                  | ml/Kw             | 2360/103                               |
| 11   | Shaft load  | kg                | 3300/5800                              |
| 12   | Loading volume  | m <sup>3</sup>    | ≥4                                     |
| 13   | Sewage box  | m <sup>3</sup>    | ≥2.15(SUS 304)                         |
| 14   | Storage box   | m <sup>3</sup>    | ≥2.15(SUS 304)                         |
| 15   | Flocculating tank                                       | kw                | 0.4×1、1.1×1(SUS304)                    |
| 16   | Water-ring vacuum pump                                  | km                | 2BV5121 7.5kw                          |
| 17   | Maximum negative pressure of vacuum pump                | kg                | - 0.8                                  |
| 18   | Liquid medicine pump                                    | kw                | 1.5kw                                  |
| 19   | Vacuum pump water tank cooling box                      | m                 | 1Set (SUS304)                          |
| 20   | Check hole  | mm                | Diameter 500                           |
| 21   | Sludge cake discharge height                            | m                 | 1.35                                   |
| 22   | Maximum pumping speed                                   | m <sup>3</sup> /h | ≥50                                    |
| 23   | Maximum processing speed                                | m <sup>3</sup> /h | ≥15                                    |
| 24   | Maximum suction   | m                 | ≥8                                     |
| 25   | Maximum power consumption                               | Kwh               | 18                                     |
| 26   | Frame, Box body   | Finished product  | Carbon steel anticorrosion             |
| 27   | Maximum fuel consumption                                | L                 | 4                                      |
| 28   | Motor inductor  | w                 | 0.01                                   |
| 29   | Electric gate valve                                     | w                 | 180                                    |
| 30   | Cleaning machine  | kw                | GZ-55 1.3                              |
| 31   | High speed screw press machine (optional double/single) | Unit              | Double 202/252/302/352/ Single 401/402 |
| 32   | Solid slag separator                                    | Unit              | Separate reamer type                   |
| 33   | Nature of vehicle license plate                         |                   | Yellow Plate                           |

**Belt Filter Press**



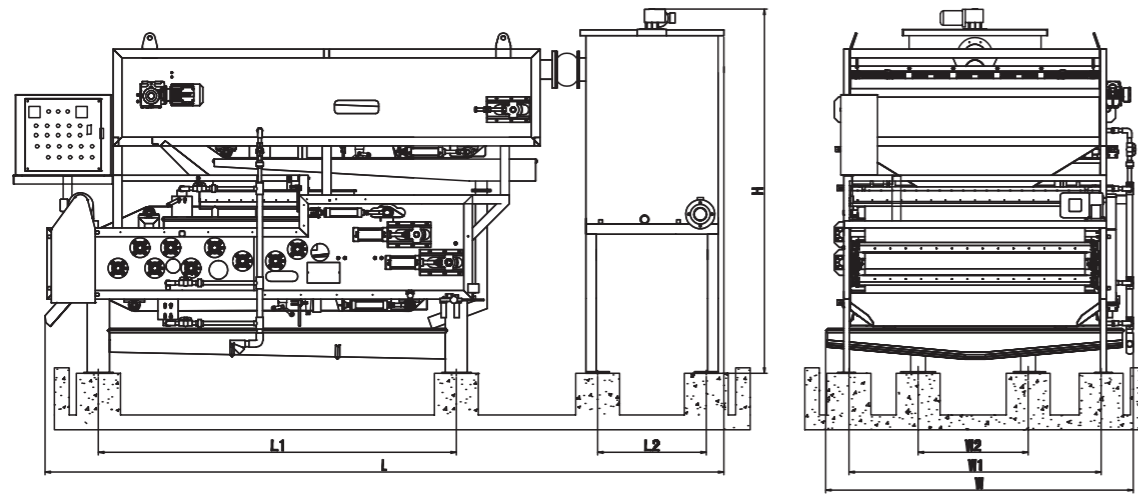
**QB Product Introduction**

The QBDNT belt type thickening and dewatering machine is also used for the treatment of sludge that has not been thickened by a thickening tank (such as surplus sludge from A/O method and surplus sludge from SBR method), and also has dual functions of thickening and dewatering. The main difference between QBZNT and QBDNT is the concentration structure, which relies on gravity dewatering of the filter belt and is used in situations with larger processing capacity.

**QB Core advantages**

- ◆ Based on foreign design experience, the integrated design of the body ensures smooth operation and no abnormal noise.
- ◆ The surface is coated with a topcoat, which is aesthetically pleasing and has chemical resistance. Sturdy structure, sturdy and durable.
- ◆ Fully automatic remote and on-site control, effectively reducing manpower, compact model, and saving civil engineering.
- ◆ Made of high-quality filter cloth and woven with PEX polyester monofilament. High quality brands are used for electrical, motor, etc.

**QB** Technical Parameter

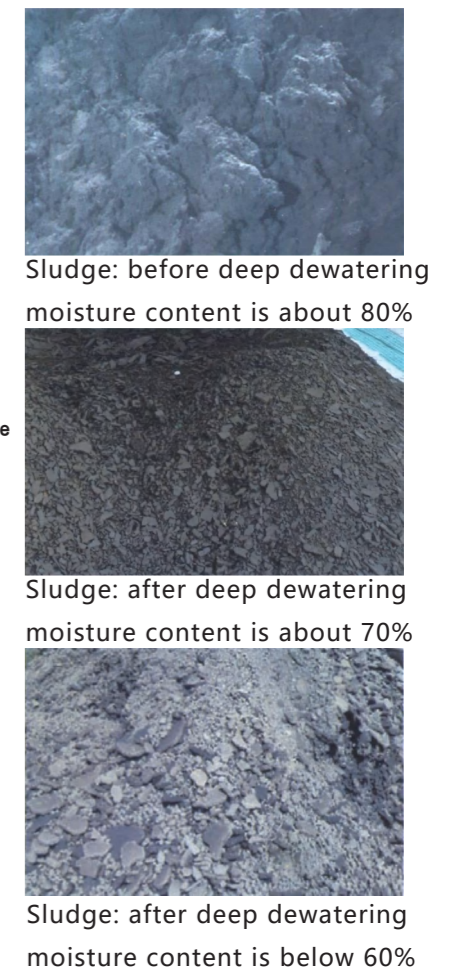
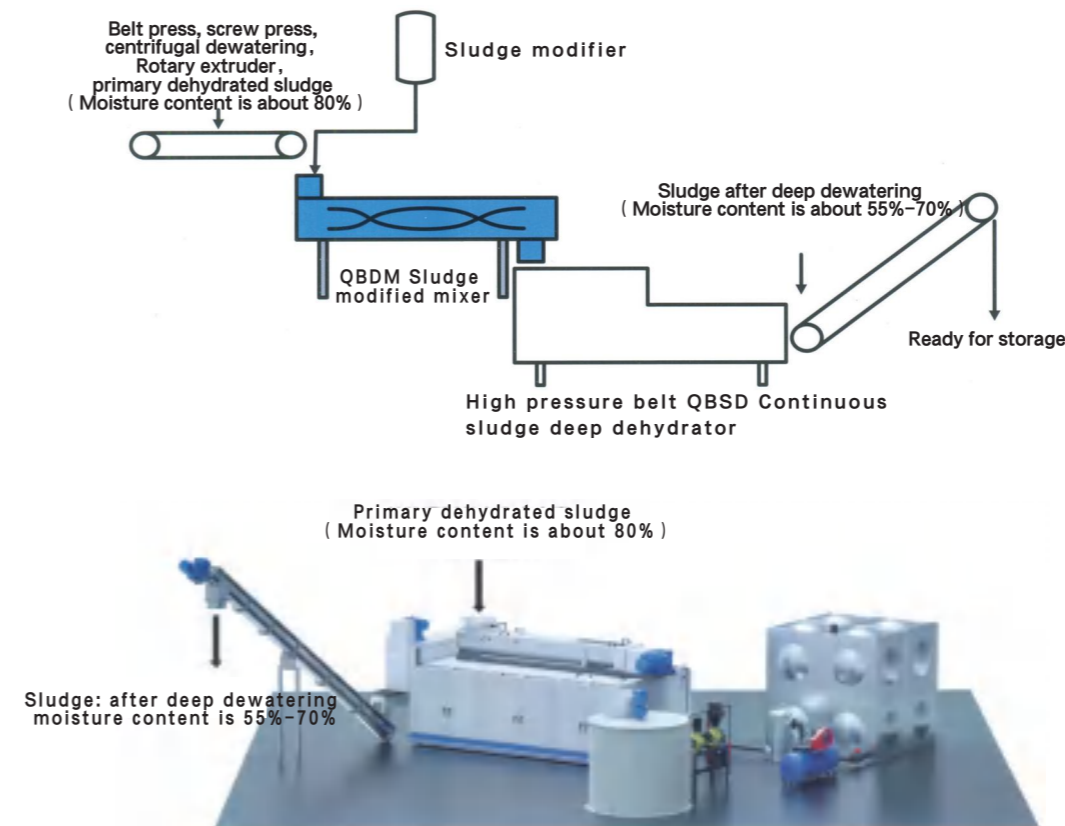


| Dimension                                     |   | QBDNT1.0  | QBDNT1.5  | QBDNT2.0  | Notes   |
|---|---|-----------|-----------|-----------|---|
| Filter belt width                             |   | 1000      | 1500      | 2000      |   |
| Sludge treatment capacity (m <sup>3</sup> /h) |   | 6-12      | 10-18     | 15-25     | It depends on the type of sludge  |
| Feed concentration (S.S0.8~1.5%)              |   |           |           |           |   |
| Absolute dry weight (Kgds/h)                  |   | 90-160    | 140-240   | 210-300   |   |
| Moisture content of mud cake (%)              |   | 75-85     | 75-85     | 75-85     |   |
| Usage power (kw)                              | Filter belt drive motor (variable frequency speed regulation) | 0.37      | 0.75      | 0.75      |   |
|   | Filter belt thickener   | 0.75      | 0.75      | 1.1       |   |
|   | Conditioning mixer  | 0.37      | 0.55      | 0.75      |   |
| Total drainage tray under filtrate            |   | have      | have      | not have  |   |
| Appearance reference size(mm)                 | L   | 4050      | 4680      | 5150      | Please request actual information before ordering Installation dimensions |
|   | W   | 1770      | 2100      | 2750      |   |
|   | H   | 2250      | 2980      | 3190      |   |
| base size L1×W1 (mm)                          |   | 2100×1300 | 2440×1720 | 2715×2420 |   |
| base size L2×W2 (mm)                          |   | 640×800   | 740×800   | 950×1100  |   |
| Reference weight (KG)                         |   | 2000      | 2850      | 3500      |   |

**Sludge deep dewatering equipment**



**QB** Process Flow Diagram

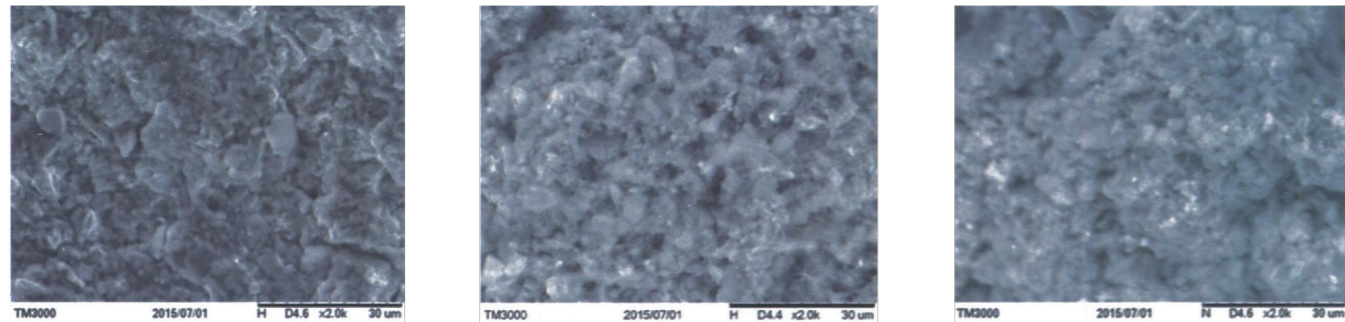


**Q B Working principle**

**Step 1:**  
The dehydrated sludge (about 80% moisture content) and the sludge modifier are mixed quickly and evenly in the sludge modification mixer. Through the action of modifier, the cell wall is destroyed, the sludge particle structure is changed, the sludge granulation and porosity are increased, and the subsequent dehydration effect is improved.

**Step 2:**  
The modified sludge is sent to the continuous sludge deep dewatering machine to achieve sludge dewatering under high pressure and intensive force. According to the theory of filtration and pressing, the thinner the cake, the larger the porosity of the cake, the smaller the filtration resistance, and the better the effect of filtering and pressing. After pressing, the mud cake is only 5~10mm thin sheet, the sludge water content is reduced to 55%~70% (according to the treatment requirements of the mud cake water content can be adjusted), easy to crush, and the water retention is greatly reduced.

**Step 3:**  
After dehydration, the fine particles inside the sludge increased, the water was removed, the pores were reduced, and the sludge appeared fluffy, which was convenient for subsequent treatment.



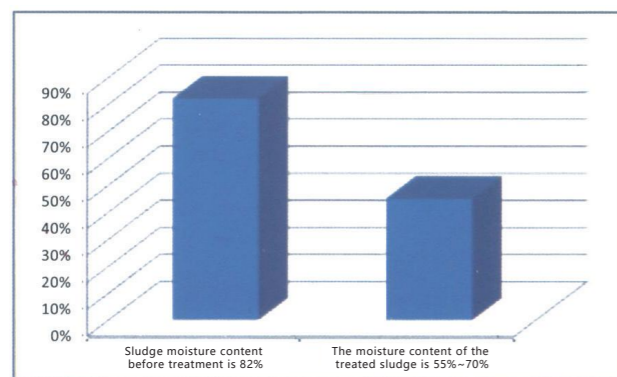
Microstructure of raw sludge: The grain is irregular and the structure is compact

Modified sludge: Formed uniform fine particles and network structure, more voids

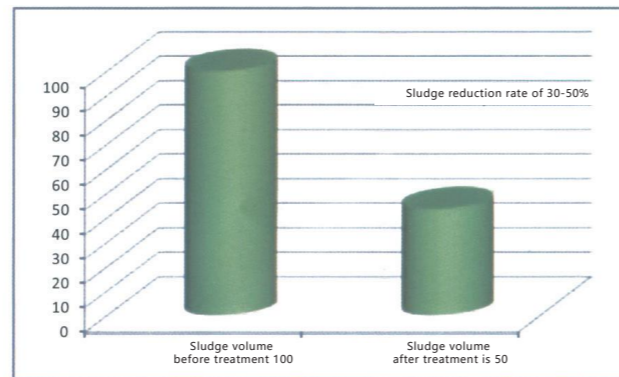
After deep dehydration sludge: More fine particles and less voids



5~10mm flaky sludge cake



Sludge dewatering effect



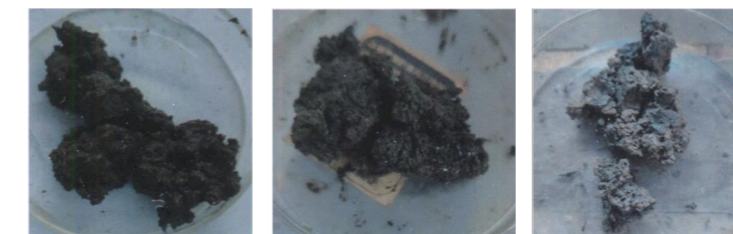
Sludge reduction effect

**Q B Technological characteristic**

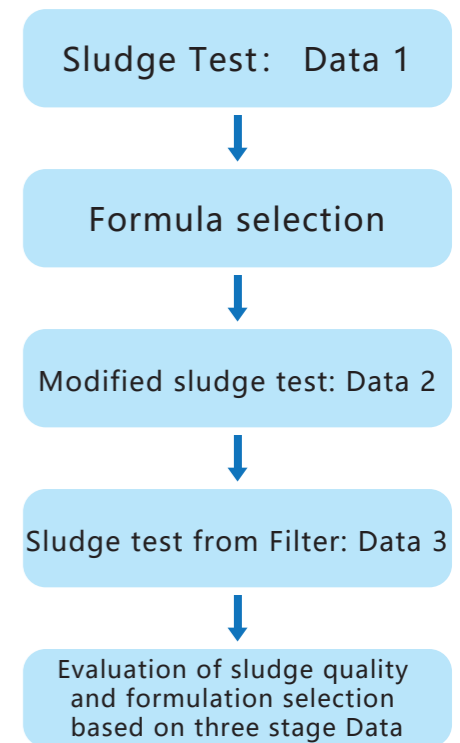
| Item   | Technological advantages and characteristics   |
|--|--|
| Odor collection  | Can be fully enclosed design, convenient gas collection  |
| Installed power  | The installed power of the complete system is tens of kilowatts (generally not more than 35kW), which generally accounts for about 2% of the installed power of the sewage plant   |
| Occupied area  | Small floor area, landing installation, generally use the original primary dehydrated sludge storage yard spare space layout   |
| Operation  | Continuous operation, sludge cake automatic unloading, simple operation  |
| Safety   | High safety, there is no high pressure pipe, valve, etc. that can release external force, no high pressure injury risk   |
| Connection with the original primary dewatering facility | Seamless and fast docking of the "three no" principles: no dismantling of original equipment, no expansion of land occupation, and no increase in distribution capacity<br>Can seamlessly and quickly connect with the existing sludge dewatering facilities of the sewage plant |
| Unattended operation                                     | Intelligent integrated monitoring system with high degree of automation  |

**Q B Application of mud and selection**

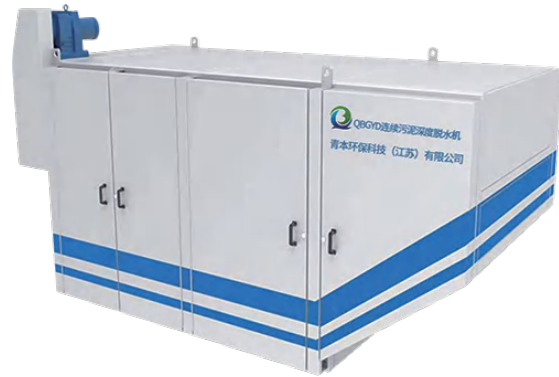
**Plastic, semi-solid and solid waste**



**Liquid sludge and liquid waste**



### High-pressure belt-type continuous sludge depth dewatering machine



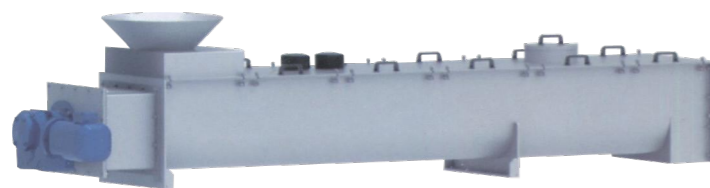
- ◆ Continuous high-pressure, high shear force two-dimensional pressing for deep dehydration.
- ◆ The main pressure area is horizontally arranged, making maintenance convenient.
- ◆ The "high inlet" interface enables high altitude pipeline feeding.
- ◆ According to different mud properties and processing requirements, an integrated local ultra-high pressure pressing system can be selected.

#### QB Selection parameters

| Model     | Filter belt width(mm) | Sludge treatment capacity with a moisture content of 80%(t/h) | Overall dimensions(mm) |       |        | Equipment power(kw) | System power(kw) | Operating weight(t) | Applicable municipal Scale of sewage treatment plant |
|-----------|-----------------------|---|------------------------|-------|--------|---------------------|------------------|---------------------|--|
|           |                       |   | Length                 | Width | Height |                     |                  |                     |  |
| QBSD-0.5  | 500                   | 0.2-0.4   | 4320                   | 1200  | 2330   | 1.1                 | 10               | 1.5                 | <10000 meters <sup>3</sup> / day                     |
| QBSD-0.75 | 750                   | 0.4-0.9   | 4320                   | 1400  | 2330   | 1.87                | 15               | 2                   | 10000 to 30000 meters <sup>3</sup> / day             |
| QBSD-1.0  | 1000                  | 0.9-2.3   | 4320                   | 1700  | 2330   | 2.25                | 20               | 6                   | 30000 to 50000 meters <sup>3</sup> / day             |
| QBSD-1.5  | 1500                  | 2.0-3.7   | 4320                   | 2200  | 2330   | 3.3                 | 25               | 6.5                 | 20000 to 100000 meters <sup>3</sup> / day            |
| QBSD-2.0  | 2000                  | 3.0-5.4   | 4320                   | 2700  | 2330   | 4.5                 | 35               | 9                   | > 100000 meters <sup>3</sup> / day                   |

Note: If you need accurate selection, please contact our professional technicians.

### Sludge modification mixer



- ◆ It adopts a closed structure with a beautiful appearance and can collect odors.
- ◆ Adapt to changes in mud quality and modification requirements.
- ◆ Realize continuous mixing, efficient reaction, and continuous discharge.
- ◆ Optimize the control of shear and stirring forces for different mud qualities.
- ◆ Set up feeding ports, dosing ports, observation ports, and discharge ports for easy maintenance. Low energy consumption, with the characteristics of uniform mixing of sludge and medicine, avoiding dead corners and sludge accumulation.

#### QB Selection parameters

| Model    | power (kW) | weight (t) | Sludge with a moisture content of 80% Processing capacityt/h |
|----------|------------|------------|--|
| QBDM-400 | 1.5        | 1.5        | ~ 0.4  |
| QBDM-500 | 2.2        | 1.5        | 0.5 ~ 1  |
| QBDM-600 | 4          | 1.5        | 1 ~ 4  |
| QBDM-800 | 7.5        | 2          | 3.5 ~ 5.5  |

Note: If you need accurate selection, please contact our professional technicians.

### Technical analysis of low temperature sludge drying equipment



Qingben Building Industry Higher Standards

Qingben energy-saving sludge low-temperature drying equipment subverts traditional drying methods

Define a new plan for reducing sludge drying in the world!

#### QB Application and Reuse

Sludge low-temperature drying equipment can directly dry sewage or sludge with 83% water content to 10%-30% water content dry sludge, reduction can be as high as 90%, effective sterilization up to 90%, low energy consumption, nonpolluting, widely used in municipal sludge and industrial sludge (printing and dyeing, papermaking, electroplating, chemical industry, leather, pharmaceuticals and so on) drying and reduction of 10%-30% water content dry sludge can be gasification, blending and burning, composting, or raw materials for building materials and other harmless resource disposal.



Stable and harmless

Sludge with a moisture content of 83%

Dry mud effectively sterilizes 90% of its properties and is stable without secondary pollution

Reduction

67% -86% reduction

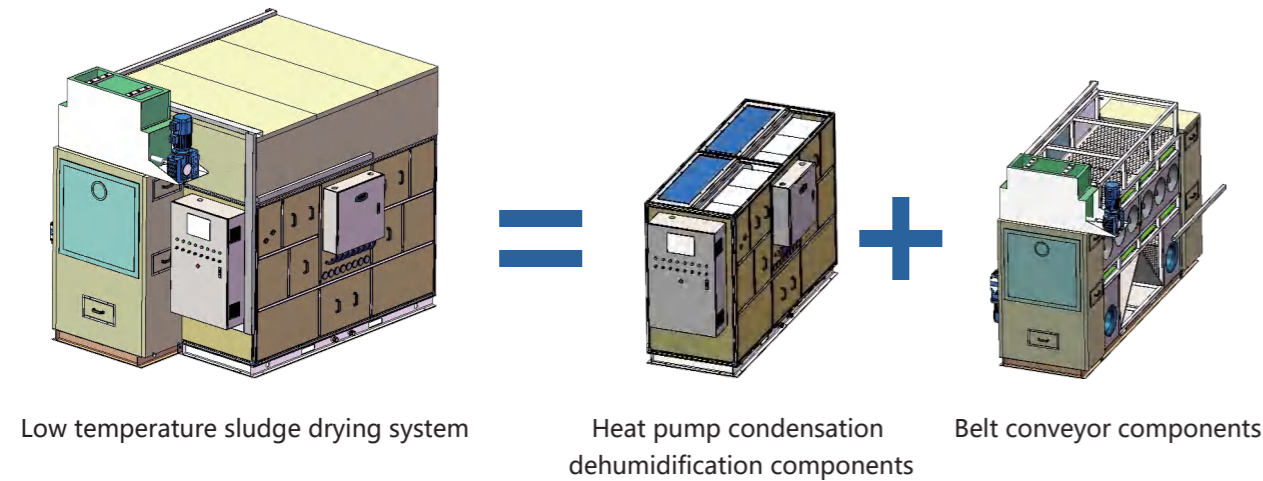
Directly dry 83% water containing sludge to 10%, reducing the amount by 80%

Resource utilization

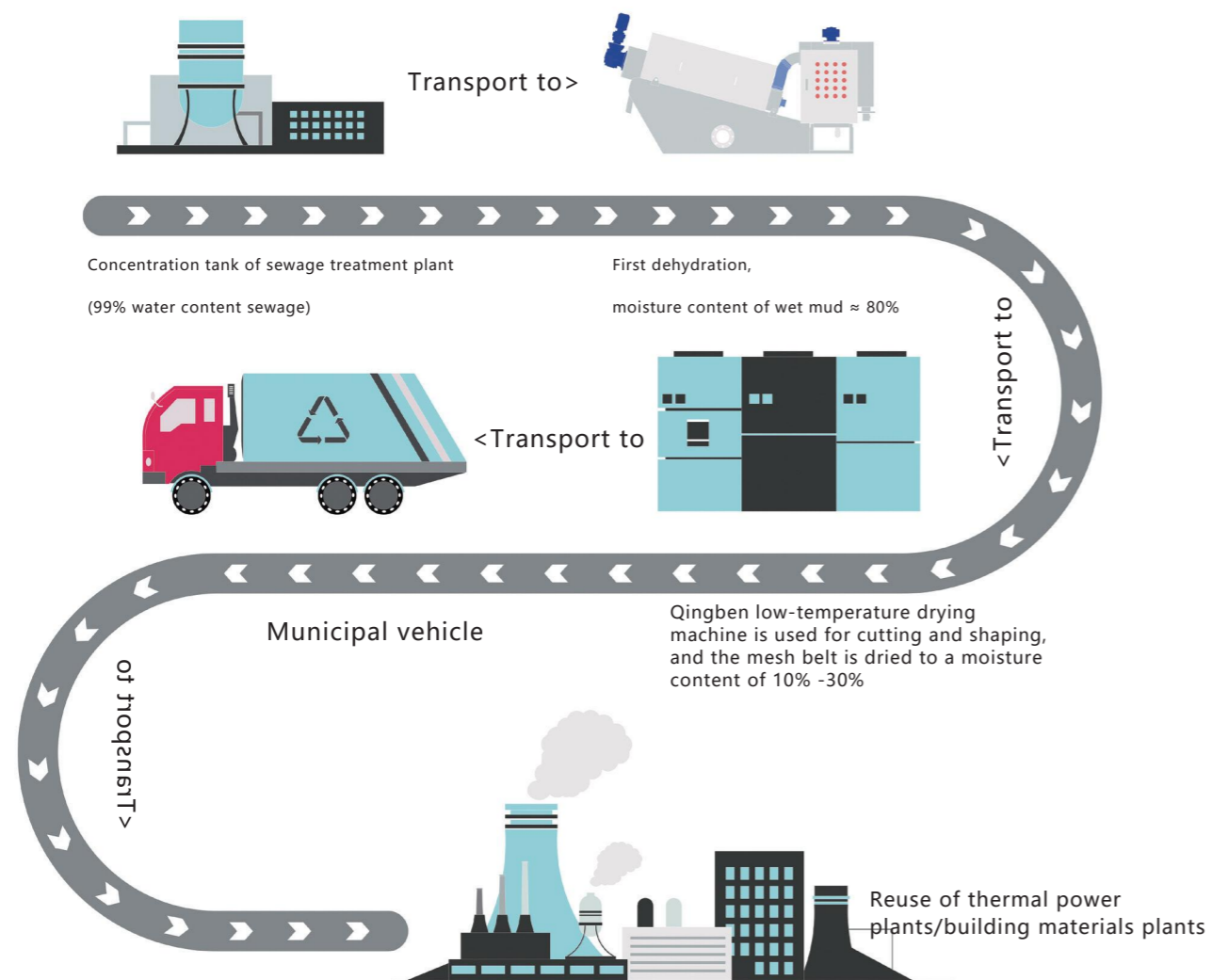
Sludge with a moisture content of 10%

Final sludge particles Harmless resource treatment

**Q B System composition**



**Q B Process Flow Diagram**



**System advantage**

**Q B Comprehensive comparison of belt drying machines**

| Entry name              | Moderate temperature zone drying  | Low temperature belt drying                                     |
|-------------------------|---|---|
| Sludge stacking         | Stainless steel mesh or chain plate                                       | Stainless steel mesh  |
| Heat source             | Coal, oil, and gas (anaerobic digestion gas)                              | Condensation heat of water vapor                                |
| Temperature             | 110-150°C   | 40-75°C   |
| Heating mode            | Steam and hot air   | Dehumidifying heat pump   |
| Dehumidification method | Open (dehumidification+condensation)                                      | Closed condensation (without heat loss)                         |
| Feed forming            | Squeezing, cutting, and granulation                                       | Squeezing, cutting, and granulation                             |
| Waste gas treatment     | Expensive deodorization system required                                   | Not have  |
| Dry material cooling    | High material temperature, stored after cooling                           | Low material temperature, self connected storage possible       |
| Energy consumption      | Heating(2880KJ/kgH <sub>2</sub> O)+Electricity(0.1kwh/kgH <sub>2</sub> O) | Electricity(0.25kwh/kgH <sub>2</sub> O)                         |
| System matching         | Multiple supporting facilities and complex installation                   | Less supporting equipment, simple installation, and short cycle |

**Q B Performance comparison with plate and frame filter press**

| Entry name                  | Plate and frame filter press                                      | Low temperature belt drying   |
|-----------------------------|---|---|
| Civil cost                  | High requirements for factory construction and high costs         | Low cost and simple factory building                                |
| Cover an area               | 2000m <sup>2</sup> /100t wet mix                                  | 500m <sup>2</sup> /100t wet mix                                     |
| Cost of use                 | About 100-180 yuan/ton  | 200kwh/t  |
| Moisture content of dry mud | 50-65%  | ≤30%  |
| Stench                      | Open, odor overflows, affecting the environment                   | Fully enclosed and zero emission, without affecting the environment |
| Calorific value             | Need to add lime and other modifiers to affect calorific value    | The calorific value remains unchanged before and after drying       |
| Sewage                      | Sewage discharge after pressing, resulting in secondary pollution | Only condensate water is generated, without pollution               |

**Q B Comprehensive comparison with other traditional drying machines**

| Project name                  | Rotary cylinder (waste heat)                       | Turntable type (vertical, horizontal)                 | Thin Layer Evaporator + Belt Drying | Paddle                     | Low Temperature Belt Drying |
|-------------------------------|--|---|-------------------------------------|----------------------------|-----------------------------|
| Drying temperature            | 200-300°C  | > 150 °C  | > 150 °C                            | > 150 °C                   | 40-75°C                     |
| Drying method                 | Thermal convection (direct)                        | Heat transfer (direct)                                | Heat transfer (direct)              | Heat transfer (direct)     | Hot air circulation         |
| Heating mode                  | Hot air, flue gas                                  | Steam, thermal oil                                    | vapor                               | Steam, thermal oil         | hot pump                    |
| Dust content                  | severity   | high  | high                                | high                       | high                        |
| Safety                        | High filling degree and high operating temperature | High operating temperatures require nitrogen charging | High operating temperature          | High operating temperature | Low Temperature Safety      |
| exhaust gas treatment         | Requires expensive deodorization system            |   |                                     |                            |                             |
| Mechanical wear               | large  | large   | large                               | large                      | none                        |
| Heat consumption K/kgwater    | 3400   | 2800  | 2300                                | 2800                       | none                        |
| power consumption Kwh/kgwater | 0.7  | 0.5   | 0.53                                | 0.4                        | 0.25                        |

**Q B Comparison of dry sludge disposal and reuse**

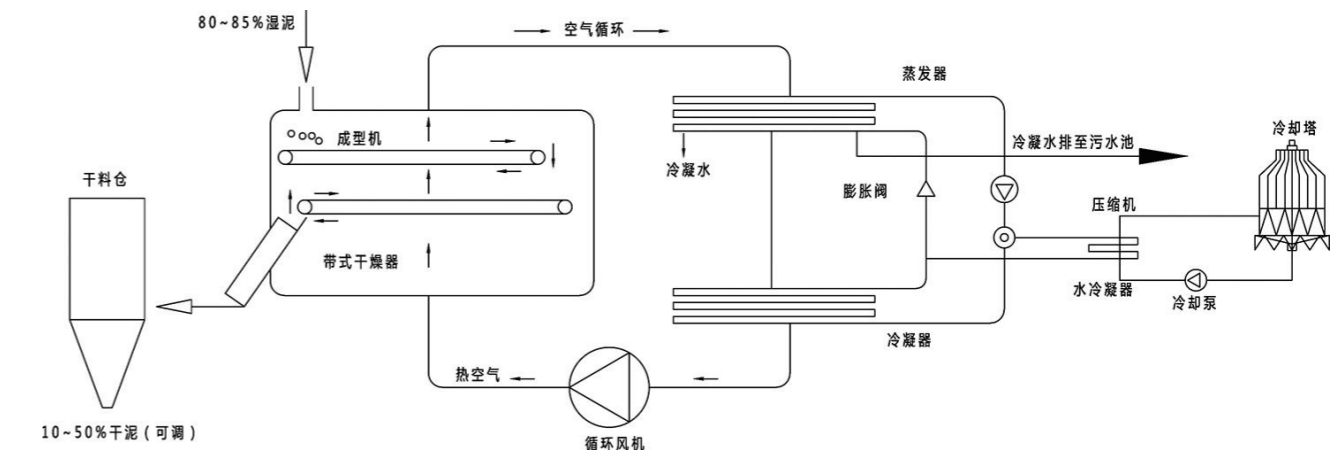
| Project name             | High-temperature thermal hydrolysis + anaerobic digestion + plate and frame filter press | Thermal drying          | Low-temperature carbonization | Plate and frame filter press +lime + thermal drying | Low- temperature dehumidification and drying |
|--------------------------|--|-------------------------|-------------------------------|---|--|
| Water content of dry mud | 60%  | 20.40%                  | 20%                           | 40%   | 10.50%                                       |
| Mode of disposal         | Landfill, composting   | Incineration + blending | Incinerate                    | Kiln  | All modalities                               |
| Energy                   | Anaerobic Oxygen + Electricity   | Oil, gas + coal-fired   | Oil, gas + coal-fired         | Electricity+ Pharmaceuticals+ Lime                  | Electronic                                   |
| Footprint                | large  | small                   | small                         | large   | small  |
| Operability              | Requires a team of professionals   | Poor security           | average                       | average   | easy   |
| Deodorize                | average  | Deodorization required  | Deodorization required        | Deodorization required                              | No deodorizing required                      |
| Suitability              | Higher organic content   | applicability           | Higher organic content        | applicability                                       | applicability                                |
| power consumption        | average  | high                    | average                       | high  | low  |

**Low temperature belt-type sludge dryer**

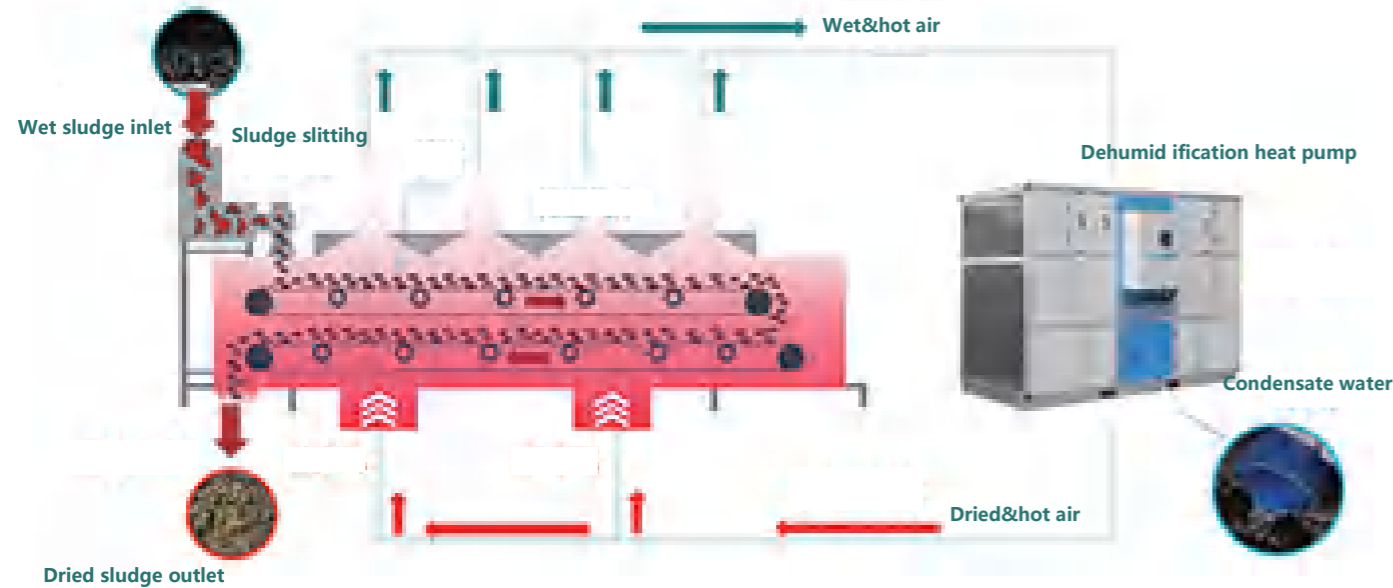


**Q B Product Description**

Using the principle of low-temperature heat pump dehumidification, the convective hot air drying method is used to dewater the wet material sludge on the mesh belt for drying and reduction, the whole set of system is fully enclosed design, and there is no heat loss of the drying hot air.



The use of refrigeration system will come from the drying room of the wet air cooling dehumidification, and at the same time to recover the latent heat of moisture condensation again to heat the drying air, which is dehumidification (dehumidification drying) and the combination of heat pumps (energy recovery), the drying process is the recycling of energy.



**QB Technical Parameter**

| Model  |        | QBGH-DS480FL   | QBGH-DS600FL       | QBGH-DS960FL       | QBGH-DS1200FL      | QBGH-DS1920FL      | QBGH-DS2400SL      |
|--|--------|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Standard water discharge                                   | kg/24h | 480  | 600                | 960                | 1200               | 1920               | 2400               |
| Water removal capacity                                     | kg/h   | 20   | 25                 | 40                 | 50                 | 80                 | 100                |
| Operating power  | kW     | 10   | 10                 | 18                 | 18                 | 36                 | 36                 |
| Installed power  | kW     | 16   | 16                 | 24                 | 24                 | 42                 | 42                 |
| Number of heat pump modules                                | Tower  | 1  | 1                  | 1                  | 1                  | 1                  | 1                  |
| Number of compressors                                      | Tower  | 1  | 1                  | 1                  | 1                  | 4                  | 4                  |
| Cooling method   |        | Forced air cooling   | Forced air cooling | Forced air cooling | Forced air cooling | Forced air cooling | Forced air cooling |
| Cooling water flow rate (temperature difference of 10 °C)  | m³/h   | ----   | 0.75               | ----               | 1.4                | ----               | 2.7                |
| Cooling water main pipe diameter                           |        | ----   | DN20               | ----               | DN32               | ----               | DN32               |
| Refrigerant  |        | R134a  |                    |                    |                    |                    |                    |
| Power supply   | V/Hz   | 380V/3N ~ 50Hz   |                    |                    |                    |                    |                    |
| Drying temperature   | °C     | 48~56°C (Return air) /65~80°C (Air supply)   |                    |                    |                    |                    |                    |
| Wet mud usage range  | %      | Moisture content (40%~82%) (Adaptability varies with different moisture contents)  |                    |                    |                    |                    |                    |
| Moisture content of dry materials                          | %      | Variable frequency regulation, moisture content (10%~60%)<br>(The adjustment range of dry material moisture content varies depending on the moisture content of the incoming sludge) |                    |                    |                    |                    |                    |
| Molding method   |        | Cutting and squeezing (suitable for different moisture content and mud properties)   |                    |                    |                    |                    |                    |
| External dimensions of heat pump (length * width * height) | mm     | 2100*1600*1800   | 2100*1600*1800     | 2600*1860*2200     | 2600*1860*2200     | 2700*1200*2420     | 2700*1200*1800     |
| Overall dimensions (length * width * height)               | mm     | 2700*1600*2200   | 2700*1600*1900     | 3310*1860*2586     | 3310*1860*2286     | 3800*2300*3100     | 3800*2300*2800     |
| Structural style   |        | Complete/Assemble  | Package            | Complete/Assemble  | Package            | Complete/Assemble  | Package            |
| Unit weight  | kg     | 1500   | 1500               | 2200               | 2200               | 3300               | 3300               |

| Model  |        | QBGH-DS4800SL  | QBGH-DS7200SL                        | QBGH-DS9600SL  | QBGH-DS14400SL  | QBGH-DS19200SL  | QBGH-DS24000SL  |
|--|--------|--|--------------------------------------|----------------|-----------------|-----------------|-----------------|
| Standard water discharge                                   | kg/24h | 4800   | 7200                                 | 9600           | 14400           | 19200           | 24000           |
| Water removal capacity                                     | kg/h   | 200  | 300                                  | 400            | 600             | 800             | 1000            |
| Operating power  | kW     | 67   | 98                                   | 120            | 175             | 234             | 290             |
| Installed power  | kW     | 79   | 116                                  | 144            | 211             | 282             | 350             |
| Number of heat pump modules                                | Tower  | 2  | 3                                    | 2              | 3               | 4               | 5               |
| Number of compressors                                      | Tower  | 8  | 12                                   | 8              | 12              | 16              | 20              |
| Cooling method   |        | Water cooling (optional air cooling)   | Water cooling (optional air cooling) | Water-cooling  | Water-cooling   | Water-cooling   | Water-cooling   |
| Cooling water flow rate (temperature difference of 10 °C)  | m³/h   | 5.3  | 8.0                                  | 9.5            | 14.3            | 19.1            | 23.9            |
| Cooling water main pipe diameter                           |        | DN40   | DN40                                 | DN50           | DN65            | DN65            | DN80            |
| Refrigerant  |        | R134a  |                                      |                |                 |                 |                 |
| Power supply   | V/Hz   | 380V/3N ~ 50Hz   |                                      |                |                 |                 |                 |
| Drying temperature   | °C     | 48~56°C (Return air) /65~80°C (Air supply)   |                                      |                |                 |                 |                 |
| Wet mud usage range  | %      | Moisture content (40%~82%) (Adaptability varies with different moisture contents)  |                                      |                |                 |                 |                 |
| Moisture content of dry materials                          | %      | Variable frequency regulation, moisture content (10%~60%)<br>(The adjustment range of dry material moisture content varies depending on the moisture content of the incoming sludge) |                                      |                |                 |                 |                 |
| Molding method   |        | Cutting and squeezing (suitable for different moisture content and mud properties)   |                                      |                |                 |                 |                 |
| External dimensions of heat pump (length * width * height) | mm     | 5400*1200*1800   | 8100*1200*1800                       | 6500*1400*2200 | 9750*1400*2200  | 13000*1400*2200 | 16250*1400*2200 |
| Overall dimensions (length * width * height)               | mm     | 6500*2300*2800   | 9200*2300*2800                       | 8100*3110*3200 | 11350*3110*3200 | 14600*3110*3200 | 17850*3110*3200 |
| Structural style   |        | Assemble   | Assemble                             | Assemble       | Assemble        | Assemble        | Assemble        |
| Unit weight  | kg     | 6000   | 8000                                 | 9200           | 12500           | 16000           | 18000           |

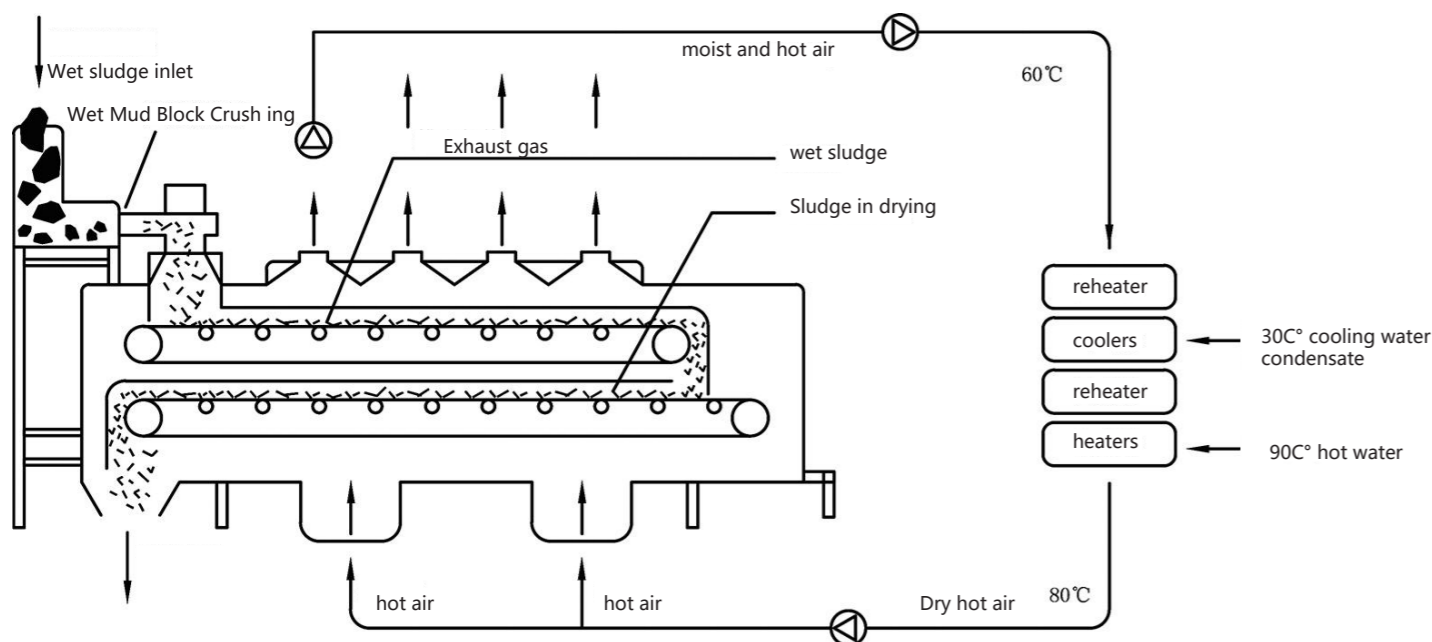
| Model  |        | QBGH-DS28800SL   | QBGH-DS33600SL  | QBGH-DS38400SL  | QBGH-DS43200SL  | QBGH-DS48000SL  |
|--|--------|--|-----------------|-----------------|-----------------|-----------------|
| Standard water discharge                                   | kg/24h | 28800  | 33600           | 38400           | 43200           | 48000           |
| Water removal capacity                                     | kg/h   | 1200   | 1400            | 1600            | 1800            | 2000            |
| Operating power  | kW     | 345  | 404             | 460             | 515             | 571             |
| Installed power  | kW     | 417  | 488             | 556             | 623             | 691             |
| Number of heat pump modules                                | Tower  | 6  | 7               | 8               | 9               | 10              |
| Number of compressors                                      | Tower  | 24   | 28              | 32              | 36              | 40              |
| Cooling method   |        | Water-cooling  | Water-cooling   | Water-cooling   | Water-cooling   | Water-cooling   |
| Cooling water flow rate (temperature difference of 10 °C)  | m³/h   | 28.6   | 33.4            | 38.2            | 42.9            | 47.7            |
| Cooling water main pipe diameter                           |        | DN80   | DN80            | DN80            | DN80            | DN100           |
| Refrigerant  |        | R134a  |                 |                 |                 |                 |
| Power supply   | V/Hz   | 380V/3N ~ 50Hz   |                 |                 |                 |                 |
| Drying temperature   | °C     | 48~56°C (Return air) /65~80°C (Air supply)   |                 |                 |                 |                 |
| Wet mud usage range  | %      | Moisture content (40%~82%) (Adaptability varies with different moisture contents)  |                 |                 |                 |                 |
| Moisture content of dry materials                          | %      | Variable frequency regulation, moisture content (10%~60%)<br>(The adjustment range of dry material moisture content varies depending on the moisture content of the incoming sludge) |                 |                 |                 |                 |
| Molding method   |        | Cutting and squeezing (suitable for different moisture content and mud properties)   |                 |                 |                 |                 |
| External dimensions of heat pump (length * width * height) | mm     | 19500*1400*2200  | 22750*1400*2200 | 26000*1400*2200 | 29250*1400*2200 | 32500*1400*2200 |
| Overall dimensions (length * width * height)               | mm     | 21100*3110*3200  | 24350*3110*3200 | 27600*3110*3200 | 30850*3110*3200 | 34100*3110*3200 |
| Structural style   |        | Assemble   | Assemble        | Assemble        | Assemble        | Assemble        |
| Unit weight  | kg     | 22000  | 25000           | 28000           | 31000           | 34000           |

Note: Executive Enterprise Standard No.: TENESUN.JS.007-2019

## Sludge drying machine for low temperature waste heat



### QB Technological process



### QB Technical Parameter

| Model  | QBGH-YR1200       | QBGH-YR2500  | QBGH-YR5000    | QBGH-YR7500    | QBGH-YR10000   | QBGH-YR15000   |                 |
|--|-------------------|--|----------------|----------------|----------------|----------------|-----------------|
| Standard water discharge                                   | kg/24h            | 1200   | 2500           | 5000           | 7500           | 10000          | 15000           |
| Water removal capacity                                     | kg/h              | 50   | 104            | 208            | 312            | 416            | 624             |
| Operating power  | kW                | 7  | 13             | 19             | 25             | 38             | 52              |
| Installed power  | kW                | 8  | 15             | 21             | 28             | 42             | 58              |
| Standard heating capacity                                  | kW                | 50   | 100            | 200            | 300            | 400            | 600             |
| Hot water flow rate (temperature difference of 20 °C)      | m <sup>3</sup> /h | 2  | 4              | 9              | 13             | 17             | 26              |
| Hot water main pipe diameter                               |                   | DN40   | DN40           | DN50           | DN50           | DN65           | DN65            |
| Standard cooling capacity                                  | kW                | 45   | 90             | 180            | 270            | 360            | 540             |
| Cooling water flow rate (temperature difference of 12 °C)  | m <sup>3</sup> /h | 3.5  | 6.5            | 13             | 19.5           | 26             | 39              |
| Cooling water main pipe diameter                           |                   | DN40   | DN40           | DN50           | DN50           | DN65           | DN80            |
| Number of modules  |                   | 1  | 1              | 2              | 3              | 2              | 3               |
| Standard heating conditions                                | °C                | 90°C/70°C (Hot-water)  |                |                |                |                |                 |
| Cooling conditions   | °C                | 33°C/45°C (Cooling water)  |                |                |                |                |                 |
| Power supply   | V/Hz              | 380V/3N ~ 50Hz   |                |                |                |                |                 |
| Drying temperature   | °C                | 48~65°C (Return air) /68~85°C (Air supply)   |                |                |                |                |                 |
| Wet mud usage range  | %                 | Moisture content (40%~82%) (Adaptability varies with different moisture contents)  |                |                |                |                |                 |
| Moisture content of dry materials                          | %                 | Variable frequency regulation, moisture content (10%~60%)<br>(The adjustment range of dry material moisture content varies depending on the moisture content of the incoming sludge) |                |                |                |                |                 |
| Molding method   |                   | Cutting and squeezing (suitable for different moisture content and mud properties)   |                |                |                |                |                 |
| External dimensions of heat pump (length * width * height) | mm                | 2600*1860*2200   | 2700*1200*1800 | 5400*1200*1800 | 8100*1200*1800 | 6500*1400*2200 | 9750*1400*2200  |
| Overall dimensions (length * width * height)               | mm                | 3310*1860*2286   | 3800*2300*2800 | 6500*2300*2800 | 9200*2300*2800 | 8100*3110*3200 | 11350*3110*3200 |
| Structural style   |                   | Package  | Package        | Assemble       | Assemble       | Assemble       | Assemble        |
| Unit weight  | kg                | 2200   | 3300           | 6000           | 8000           | 920            | 12500           |

| Model  | QBGH-YR20000      | QBGH-YR25000   | QBGH-YR30000    | QBGH-YR35000    | QBGH-YR40000    | QBGH-YR45000    | QBGH-YR50000    |                 |
|--|-------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Standard water discharge                                   | kg/24h            | 20000  | 25000           | 30000           | 35000           | 40000           | 45000           | 50000           |
| Water removal capacity                                     | kg/h              | 832  | 1040            | 1248            | 1456            | 1664            | 1872            | 2080            |
| Operating power  | kW                | 70   | 84              | 98              | 116             | 130             | 145             | 159             |
| Installed power  | kW                | 77   | 93              | 108             | 128             | 143             | 160             | 175             |
| Standard heating capacity                                  | kW                | 800  | 1000            | 1200            | 1400            | 1600            | 1800            | 2000            |
| Hot water flow rate (temperature difference of 20 °C)      | m <sup>3</sup> /h | 34   | 43              | 52              | 60              | 69              | 77              | 86              |
| Hot water main pipe diameter                               |                   | DN80   | DN80            | DN100           | DN100           | DN100           | DN100           | DN125           |
| Standard cooling capacity                                  | kW                | 720  | 900             | 1080            | 1260            | 1440            | 1620            | 1800            |
| Cooling water flow rate (temperature difference of 12 °C)  | m <sup>3</sup> /h | 52   | 65              | 78              | 91              | 104             | 117             | 130             |
| Cooling water main pipe diameter                           |                   | DN100  | DN100           | DN125           | DN125           | DN150           | DN150           | DN150           |
| Number of modules  |                   | 4  | 5               | 6               | 7               | 8               | 9               | 10              |
| Standard heating conditions                                | °C                | 90°C/70°C (Hot-water)  |                 |                 |                 |                 |                 |                 |
| Cooling conditions   | °C                | 33°C/45°C (Cooling water)  |                 |                 |                 |                 |                 |                 |
| Power supply   | V/Hz              | 380V/3N ~ 50Hz   |                 |                 |                 |                 |                 |                 |
| Drying temperature   | °C                | 48~65°C (Return air) /68~85°C (Air supply)   |                 |                 |                 |                 |                 |                 |
| Wet mud usage range  | %                 | Moisture content (40%~82%) (Adaptability varies with different moisture contents)  |                 |                 |                 |                 |                 |                 |
| Moisture content of dry materials                          | %                 | Variable frequency regulation, moisture content (10%~60%)<br>(The adjustment range of dry material moisture content varies depending on the moisture content of the incoming sludge) |                 |                 |                 |                 |                 |                 |
| Molding method   |                   | Cutting and squeezing (suitable for different moisture content and mud properties)   |                 |                 |                 |                 |                 |                 |
| External dimensions of heat pump (length * width * height) | mm                | 13000*1400*2200  | 16250*1400*2200 | 19500*1400*2200 | 22750*1400*2200 | 26000*1400*2200 | 29250*1400*2200 | 32500*1400*2200 |
| Overall dimensions (length * width * height)               | mm                | 14600*3110*3200  | 17850*3110*3200 | 21100*3110*3200 | 24350*3110*3200 | 27600*3110*3200 | 30850*3110*3200 | 34100*3110*3200 |
| Structural style   |                   | Assemble   | Assemble        | Assemble        | Assemble        | Assemble        | Assemble        | Assemble        |
| Unit weight  | kg                | 16000  | 18000           | 22000           | 25000           | 28000           | 31000           | 34000           |

Note: Executive Enterprise Standard No.: TENESUN.JS.007-2019



## Sludge cryogenic chamber drying machine



### Q B Core technology

10%

≤ 10% water content rate reduction of 80% or more

With a strong drying reduction: ability, dry mud water content <10%-50% adjustable, reduction of up to 80% or more, subvert the existence of traditional drying dry mud high water content, reduction capacity drive the technical bottleneck.

1:4.2

1:4.2 Dehumidification ratio twice the industry standard

Innovative four-effect condensation dehumidification technology, comprehensive dehumidification performance ratio of up to 4.2kg.H2O/kw.h or more than the traditional low-temperature energy-saving 50%, is twice the industry standard.

0

No odor emission  
No deodorization required

The whole equipment system adopts closed design, no odor spillage, no need to install expensive deodorization system at secondary cost, it can be directly installed in the plant for centralized disposal of sludge, and the condensate can be discharged directly without secondary treatment.

100%

No heat loss, 100% heat utilization

All adopt the closed system design combined with heat pump heat recovery technology, no heat loss, the system works with better energy efficiency, different from the open drying equipment that continuously exhausts moisture and dissipates heat and continuously supplies heat at high temperature.

180

Running cost as low as 180kw.h/T

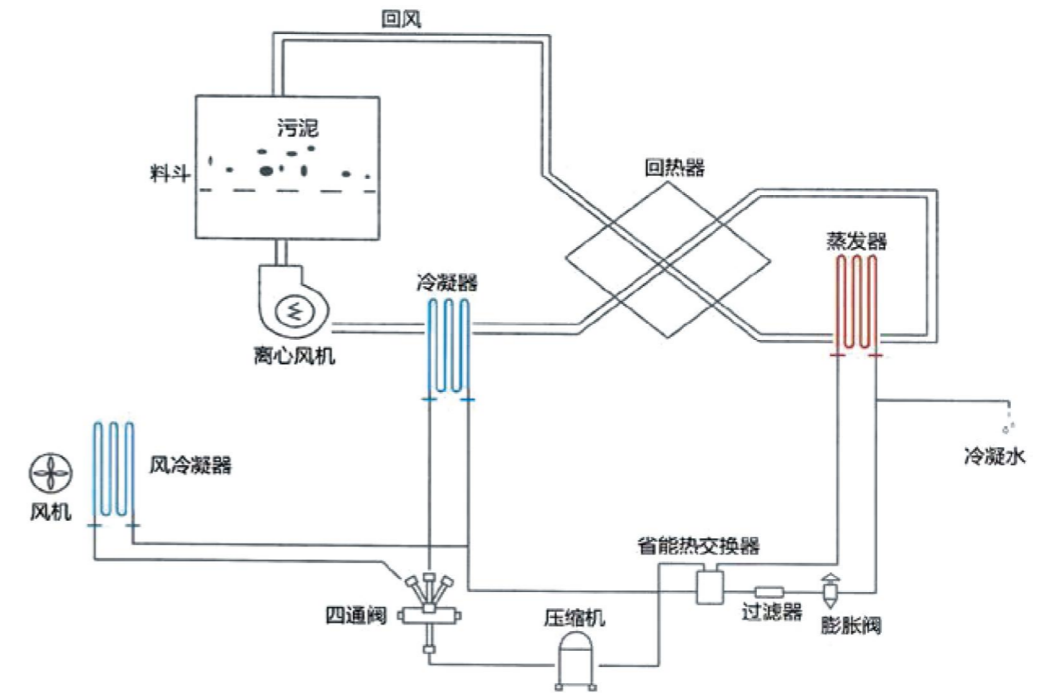
Adopting "four- effect condensation dehumidification and drying" equipment, it is very good to reduce the user's cost of use, and the wet mud with 83% moisture content can be kilnized to 30% moisture content, and the running cost is as low as 180kw.h/T.

↓

Safer at low temperature, no dust hazard

Fully enclosed 40-75°C low-temperature work, no need to charge to run, the oxygen content of the milling process < 12%, dust concentration < 60g/m, particle temperature < 70% C, no dust and explosion potential hazards, the discharge temperature < 50C, no need for secondary cooling, can be stored directly.

### Q B Technological process

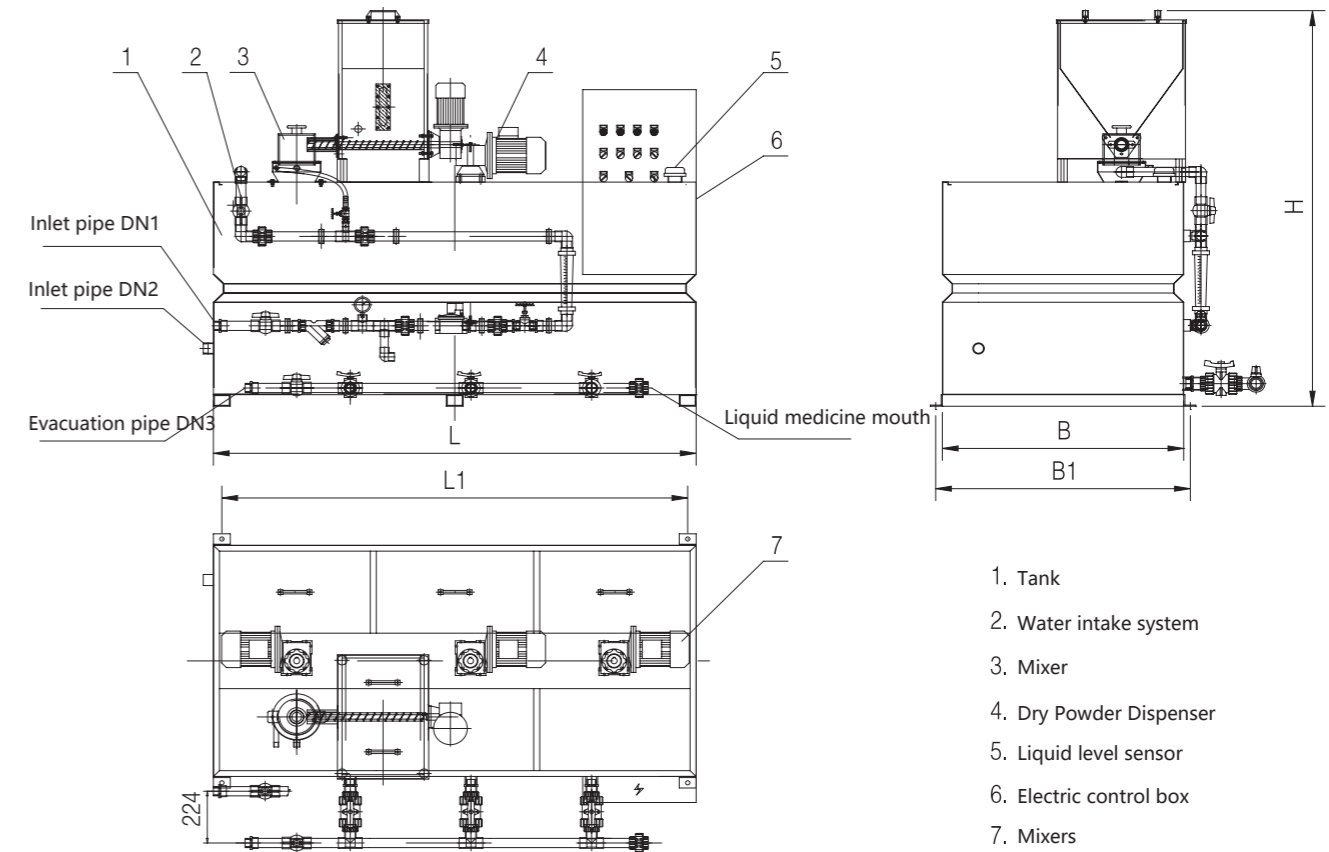


### Q B Technical Parameter

| Model                             |                          | QBGH-XS200FL                               | QBGH-XS400FL   | QBGH-XS800FL   | QBGH-XS900FL   |
|-----------------------------------|--------------------------|--|----------------|----------------|----------------|
| Standard water discharge          | kg/24h                   | 200  | 400            | 800            | 900            |
| Operating power                   | kW                       | 3.5  | 6              | 12             | 14             |
| Installed power                   | kW                       | 6.5  | 10.5           | 21             | 23             |
| Energy consumption                | kg.h <sub>2</sub> O/KW.h | 2.0~4.0                                    | 2.0~4.0        | 2.0~4.0        | 2.0~4.0        |
| Number of compressors             | 台                        | 1  | 1              | 1              | 1              |
| Overall dimensions of the hopper  | mm                       | 800*800*750                                | 900*860*1000   | 1250*1250*1250 | 1250*1250*1250 |
| Cooling method                    |                          | Air cooling (optional water cooling)       |                |                |                |
| Refrigerant                       |                          | R134a                                      |                |                |                |
| Power supply                      | V/Hz                     | 380V/3N ~ 50Hz                             |                |                |                |
| Drying temperature                | °C                       | 40~50°C (Return air) /60~80°C (Air supply) |                |                |                |
| Moisture content of dry materials | %                        | 10%~40%                                    |                |                |                |
| Overall dimensions                | mm                       | 1700*1500*1700                             | 2118*1622*2000 | 2800*1900*2300 | 2800*1900*2300 |
| Structural style                  |                          | Package                                    | Package        | Package        | Package        |
| Weight                            | kg                       | 650  | 1000           | 1550           | 1650           |

Note: Executive Enterprise Standard No.: TENESUN.JS.007-2019

## Integrated dosing device



### QB Technical Parameter

|                                  |                        | QBYTH 500 | QBYTH 1000 | QBYTH 1500 | QBYTH 2000 | QBYTH 2500 | QBYTH 3000 | QBYTH 4000 |
|----------------------------------|------------------------|-----------|------------|------------|------------|------------|------------|------------|
| capacity(L/h)                    | Maturing time One hour | 500       | 1000       | 1500       | 2000       | 2500       | 3000       | 4000       |
| Power (kw)                       |                        | 1.7       | 2.45       | 2.45       | 2.45       | 3.5        | 3.9        | 3.9        |
| PAM dry powder dosage (kg/h)     |                        | 1~5       | 2~10       |            | 3~15       |            | 3.5~20     |            |
| water intake (m <sup>3</sup> /h) |                        | 0.3~1.5   | 0.6~3      | 0.9~4      | 1.2~6      | 1.6~8      | 2.0~10     | 2.4~12     |
| Size (mm)                        | L                      | 1370      | 2000       | 2130       | 2200       | 2400       | 2400       | 2720       |
|                                  | B                      | 680       | 1000       | 1070       | 1200       | 1200       | 1300       | 1400       |
|                                  | H                      | 1500      | 1710       | 1710       | 1900       | 2140       | 2180       | 2250       |
|                                  | L1                     | 1300      | 1930       | 2060       | 2130       | 2330       | 2330       | 2650       |
|                                  | B1                     | 730       | 1050       | 1120       | 1250       | 1250       | 1350       | 1450       |
|                                  | dosing port DN         | DN25      | DN32       | DN32       | DN32       | DN40       | DN40       | DN40       |
|                                  | water inletDN1         | DN25      | DN32       | DN32       | DN32       | DN40       | DN50       | DN50       |
|                                  | spillwayDN2            | DN32      | DN40       | DN40       | DN40       | DN40       | DN40       | DN40       |
| vent DN3                         | DN25                   | DN32      | DN32       | DN32       | DN40       | DN40       | DN40       |            |
| Net weight (kg)                  |                        | 250       | 400        | 490        | 550        | 650        | 700        | 770        |

### QB Product Description

Dosing, dissolving, feeding in one, fully automatic operation, dry casting machine and heating device clever design can reduce the caking phenomenon of the feeding amount, the amount of water can be adjusted, you can arbitrarily prepare the required concentration of the liquid, when the powder reaches the low level of the alarm signal;

Optional: vacuum loader, online dilution system;

Tank material optional: stainless steel 304, polypropylene PP, fiberglass FRP, etc.

## Manual dosing device



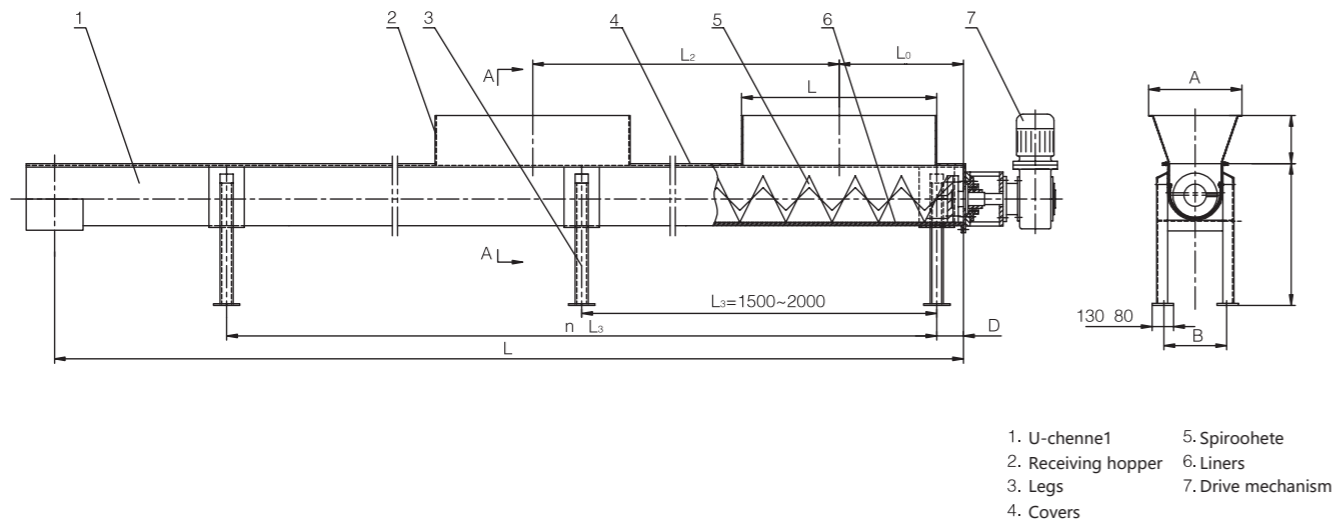
### QB Product Description

Manual dosing for smaller dosages where staff are present;  
Easy to refill manually and easy to install;  
The barrel, dosing pump, electric control box and pipe fittings are integrated and mounted on the frame, which has a compact structure and is convenient for installation and transportation;  
Tank materials available: stainless steel SS304 or SS316L, polyethylene PE, fiberglass FRP and so on.

### QB Technical Parameter

| Model    | Volume (m <sup>3</sup> ) | Mixing power (kw) | Barrel diameter (mm) | Barre height (mm) | Dosing port DN1 (mm) | Water port DN2 (mm) | Evacuation port DN3 (mm) |
|----------|--------------------------|-------------------|----------------------|-------------------|----------------------|---------------------|--------------------------|
| QBJY1000 | 1                        | 0.75              | 1050                 | 1330              | 25                   | 25                  | 32                       |
| QBJY2000 | 2.0                      | 1.5               | 1310                 | 1720              | 25                   | 25                  | 40                       |
| QBJY3000 | 3.0                      | 1.5               | 1550                 | 1800              | 25                   | 25                  | 40                       |

**QB** Technical Parameter

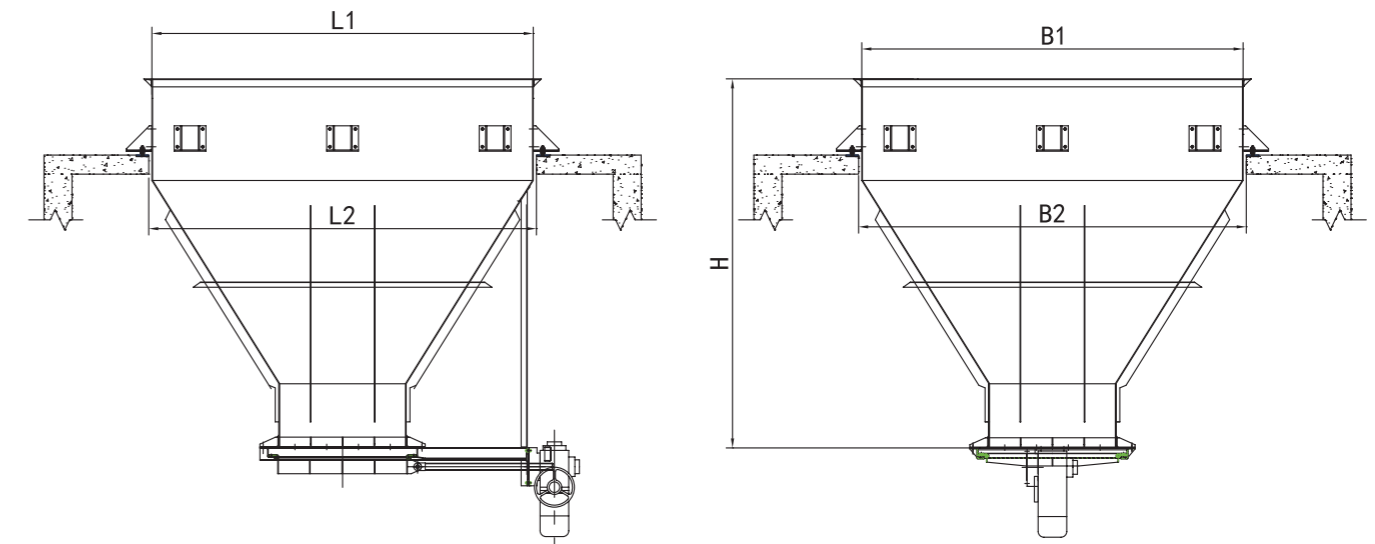


| Model item                   | QBWLS-260   | QBWLS-300 | QBWLS-360 | QBWLS-420 |     |
|------------------------------|---|-----------|-----------|-----------|-----|
| Rotation Speed(rpm)          | 22 (horizontal)>20 (incline)  |           |           |           |     |
| Capacity (m <sup>3</sup> /h) | 0°  | 3         | 6         | 9.5       | 12  |
|                              | 15°   | 2.1       | 4.6       | 6.5       | 9   |
|                              | 30°   | 1.3       | 2.6       | 4.3       | 5.7 |
| Screw diameter(mm)           | 220   | 260       | 320       | 380       |     |
| Conveying length(m)          | 5   |           |           |           |     |
| Power(reference)(kw)         | 1.1   | 1.5       | 2.2       | 3         |     |
| Installation angle $\alpha$  | $\leq 20^\circ$ (special ordering $20^\circ < \alpha \leq 30^\circ$ ) |           |           |           |     |

**Sludge bucket**

**QB** Product Description

The sludge hopper is mainly used in the sludge dewatering room to collect the dewatered mud cake and store it in the hopper. When the sludge reaches a certain volume, the valve at the bottom of the hopper is opened by control and the sludge cake is discharged to the truck for transportation. There are two fan doors at the bottom of the sludge hopper to collect and discharge the sludge by controlling the two doors, the fan doors are controlled by pneumatic cylinders or electric actuators.



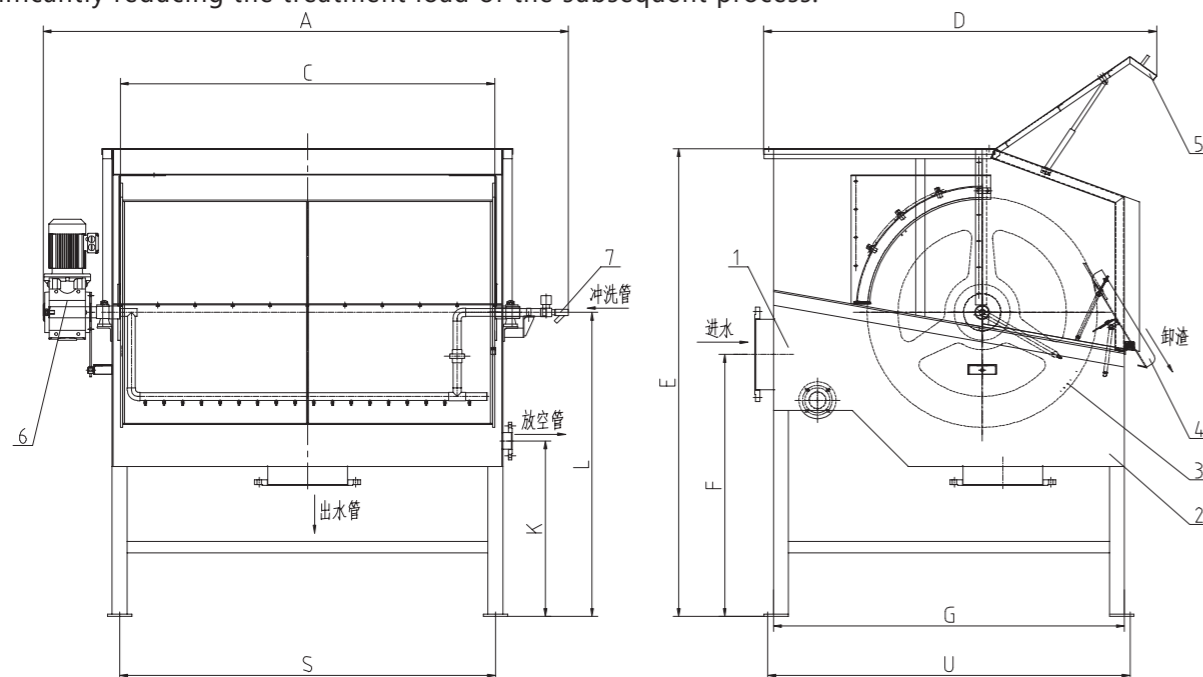
| Model                     | Size   | QBND2 | QBND3 | QBND5 | QBND10 | QBND15 |
|---------------------------|--------|-------|-------|-------|--------|--------|
| capacity(m <sup>3</sup> ) |        | 2     | 3     | 5     | 10     | 15     |
| Overall dimensions        | L1(mm) | 1600  | 2100  | 2600  | 2800   | 3000   |
|                           | B1(mm) | 1600  | 2100  | 2600  | 2800   | 3000   |
|                           | H(mm)  | 1900  | 1900  | 2300  | 2800   | 3000   |
| Civil dimensions          | L2(mm) | 1640  | 2140  | 2640  | 2840   | 3040   |
|                           | B2(mm) | 1640  | 2140  | 2640  | 2840   | 3040   |

## Rotary Drum Fine Screen



### Q B Product Description

Model ZL Rotary Drum Filter is designed for small and medium-sized municipal or industrial wastewater treatment plants. It is a 39 device that continuously and efficiently screens suspended solids from water, and is mainly used in wastewater pre-treatment or industrial screening processes. In some wastewater treatment, the screened wastewater can remove 30% to 60% of organic or inorganic suspended solids, significantly reducing the treatment load of the subsequent process.



### Q B Core technology

- ◆ The rotary drum filter has a simple structure and high reliability.
- ◆ Compact structure and small footprint.
- ◆ The drum surface is made of wedge-shaped grating with excellent hydraulic characteristics.

### Q B Technical Parameters

| interval(mm) | 0.25                                    | 0.5 | 0.75 | 1   | 1.5 | 2.5 | Drum diameter (mm) | Drum length (mm) | Power (kw) |
|--------------|---|-----|------|-----|-----|-----|--------------------|------------------|------------|
| Model        | Processing capacity (m <sup>3</sup> /h) |     |      |     |     |     |                    |                  |            |
| ZL350×600    | 8                                       | 15  | 20   | 25  | 32  | 42  | 350                | 600              | 0.25       |
| ZL610×610    | 33                                      | 60  | 81   | 100 | 130 | 170 | 610                | 610              | 0.55       |
| ZL610×1220   | 65                                      | 120 | 162  | 200 | 260 | 340 | 610                | 1220             | 0.75       |
| ZL610×1830   | 100                                     | 180 | 243  | 306 | 397 | 520 | 610                | 1830             | 0.75       |
| ZL800×1830   | 175                                     | 315 | 436  | 535 | 695 | 912 | 800                | 1830             | 1.1        |

| Model      | Water inlet | Outlet pipe | Clear water pipe | A    | C    | D    | E    | F    | G    | K    | L    | S    | U    |
|------------|-------------|-------------|------------------|------|------|------|------|------|------|------|------|------|------|
| ZL350×600  | DN100       | DN150       | DN15             | 1195 | 600  | 880  | 1100 | 620  | 600  | 540  | 760  | 765  | 550  |
| ZL610×610  | DN150       | DN200       | DN15             | 1290 | 610  | 1385 | 1595 | 950  | 1000 | 930  | 1085 | 780  | 945  |
| ZL610×1220 | DN200       | DN250       | DN20             | 1940 | 1220 | 1385 | 1595 | 950  | 1000 | 830  | 1085 | 1360 | 945  |
| ZL610×1830 | DN250       | DN300       | DN25             | 2585 | 1830 | 1385 | 1595 | 950  | 1000 | 830  | 1085 | 1970 | 945  |
| ZL800×1830 | DN300       | DN350       | DN25             | 2620 | 1830 | 1450 | 1985 | 1200 | 1205 | 1040 | 1380 | 2000 | 1160 |



### Rotary Drum Bar Screen

**Product Overview:** Rotary Drum Bar Screen widely used in municipal wastewater, industrial wastewater, food processing industry, paper industry and other sewage treatment projects.

**Product Features:** The equipment will be the water source intake slag, short fibers and suspended solids salvage removal, and will be squeezed and pressed dewatering discharged. It is suitable for high-precision treatment, suitable for wastewater treatment occasions with small gaps and shallow depths.



### Rake Bar Screen

**Product Overview:** It is an important front-channel interceptor in wastewater treatment.

**Product Features:** Applicable to water supply and drainage pumping stations, municipal wastewater, industrial wastewater and so on.



### Dredge Bar Screen

**Product Overview:** Is a large and medium-sized water supply and drainage projects in the water intake of the former level of intercepting equipment, generally for the middle, coarse grating.

**Product Features:** Widely used in municipal sewage, waterworks, hydroelectric power stations, sluice gates and other water conservancy facilities in the interception and removal of large floating objects. (such as leaves, weeds, broken wood, plastic waste and domestic garbage, etc.)



### In-flow mesh panel Bar Screen

**Product Overview:** Applicable to municipal sewage treatment, industrial wastewater treatment. Tap water interceptor and other industries, is the water supply and drainage projects in the interceptor equipment. Generally for fine, fine grating.

**Product Features:** The reliability rate of the machine reaches more than 98%, the structure is simple and novel, reasonable design, smooth operation, low noise is an ideal equipment with high application in the current market.



### Advection air flotation

**Product Overview:** Advection dissolved air flotation machine is a solid-liquid separation equipment commonly used in the sewage treatment industry, can effectively remove the suspended solids in the sewage, oil and grease, gelatinous substances, is the main equipment for pre-treatment of sewage.

**Product Features:** It can effectively remove light flocs in wastewater that are difficult to precipitate. The treatment capacity is large. High efficiency, small area, wide range of use, is widely adapted to the petroleum, chemical, printing and dyeing, papermaking, oil refining, leather, iron and steel, mechanical processing, starch, food and other wastewater treatment.



### Truss Scraper

**Product Overview:** The truss scraper adopts reciprocating action to scrape the bottom mud to one end of the mud collection pit for discharge, which is used for scraping and collecting the sludge at the bottom of the advection settling tank, with water inlet at one end and outlet at the other end, and the bottom of the tank has a certain slope (about 8/1000).

**Product Features:** Gauge is generally in the 4-25m or so, when the pool width is larger, can be made into a multi pool structure, gauge 8m is generally a single drive. When the upper part of the supporting water surface scraping oil or foam scraping device and HYZ-type oil scraping scraper structure and function is very similar, only the load has a difference.



### Center Drive Scraper, Thickener

**Product Overview:** Generally used for pool diameter less than 18m (general single pool water less than 600T / h) of a variety of circular sedimentation tank bottom mud scraping set, normal for the center of the peripheral sludge discharge.

**Product Features:** Functions can be expanded, such as additional torque control indicator and automatic rake lifting structure, scraping board using rubber combination structure, scraping mud thoroughly.



### Peripheral Drive Scraper

**Product Overview:** Mainly used in large-scale (generally refers to the water volume is greater than 600m<sup>3</sup> / h, the pool diameter is greater than 20m) sewage plant primary sedimentation and sedimentation tank.

**Product Features:** Scraping set of sediment at the bottom of the pool (specific gravity is generally less than 1.2 and is not easy to slate), generally the upper part of the scum (or foam) scraping system, with scraping and scraping scum scraping function, the process is generally for the center of the water inlet, peripheral outlet, the center of the sludge discharge.



### Center-driven suction dredger

**Product Overview:** The role of QBZXX type is basically similar to that of QBZBX type peripheral drive sludge suction machine.

**Product Features:** The working performance is better than the peripheral drive type, generally take the peripheral water inlet and peripheral water outlet, single pipe or double pipe suction mud to the center of the pool, and then discharged by the mud valve control outside the pool.



### Peripheral Drive Mud Suction Machine

**Product Overview:** Generally used in large-scale (generally refers to the flow rate of more than 500m<sup>3</sup> / h) sewage treatment works of the amplitude of the flow type sedimentation tank, especially suitable for the second sedimentation tank bottom sludge scraping and discharge.

**Product Features:** The hydrostatic mud discharge relies on the valve of each pipe mouth to adjust the flow rate to the center of the mud cylinder directly discharged, the siphon mud discharge is mainly the use of vacuum pumps to vacuum the second siphon to lift the mud discharge.



### Cyclone Sedimeter

**Product Overview:** This equipment is generally used in urban domestic wastewater treatment plant before the primary sedimentation tank, after the grating, separation of sewage in the larger inorganic particles (generally greater than 0.5mm in diameter).

**Product Features:** Features: Most of the sand lifting air, if the sand pump sand lifting generally higher requirements for wear and tear, steel pool body for small and medium-sized flow rate used in a single cyclone sedimentation tank, the use of air sand lifting, the combination of its structural features and the Dore sedimentation tank is similar, but in the same treatment of the combination of the structure of a small footprint, high efficiency.



### Sand-water separator

**Product Overview:** Mainly used for further separation of sand-water mixtures discharged from cyclone sedimenters and other equipment, applicable to domestic sewage treatment works.

**Product Features:** Screw conveyor, no underwater bearing, easy maintenance, latest speed reducer, compact mechanism, easy installation, U-channel lined with flexible wear-resistant liner, easy replacement.



### Water dispenser

**Product Overview:** The harbour waterer is a necessary mechanical device for the treatment of wastewater by the sequencing batch activated sludge method (SBR method).

**Product Features:** Harbor water can realize the time, quantitative discharge of standard treatment water, so that the SBR tank to achieve the ultimate goal of continuous treatment of sewage.



### Screw press machine

**Product Overview:** Screw press is the supporting equipment of interceptor grating, which is composed of feeding hopper, pressing screw, screw pipe, slag discharge pipe and driving device.

**Product Features:** Screen fished waste or filtered dregs from the feed hopper into the spiral pipe, under the action of the press screw is extruded, dewatering, from the material is extruded from the water through the filter mesh convergence to the catch basin and discharged by the drain, the material is compressed by the dregs pipe discharged, so that you can greatly reduce the weight and volume of the grid dregs and other debris.

# SALES NETWORK

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