Juntai Smart Screw Press

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骏泰塑业
JUNTAI PLASTIC

WASTEWATER AND SLUDGE TREATMENT SOLUTIONS

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CATALOG

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ABOUT JUNTAI

Hangzhou Juntai Plastic Products Co. Ltd., was founded in 2013, We established factory Anhui Juntai Technology Co., Ltd in Anqing City. We won the National high-tech enterprise in 2019 and has main patents for Plastic profile, MBBR media, Tube settlers, Disc diffuser, Tube diffuser, water treatment Equipment. Now we are one of the excellent manufacturers of in water treatment field.

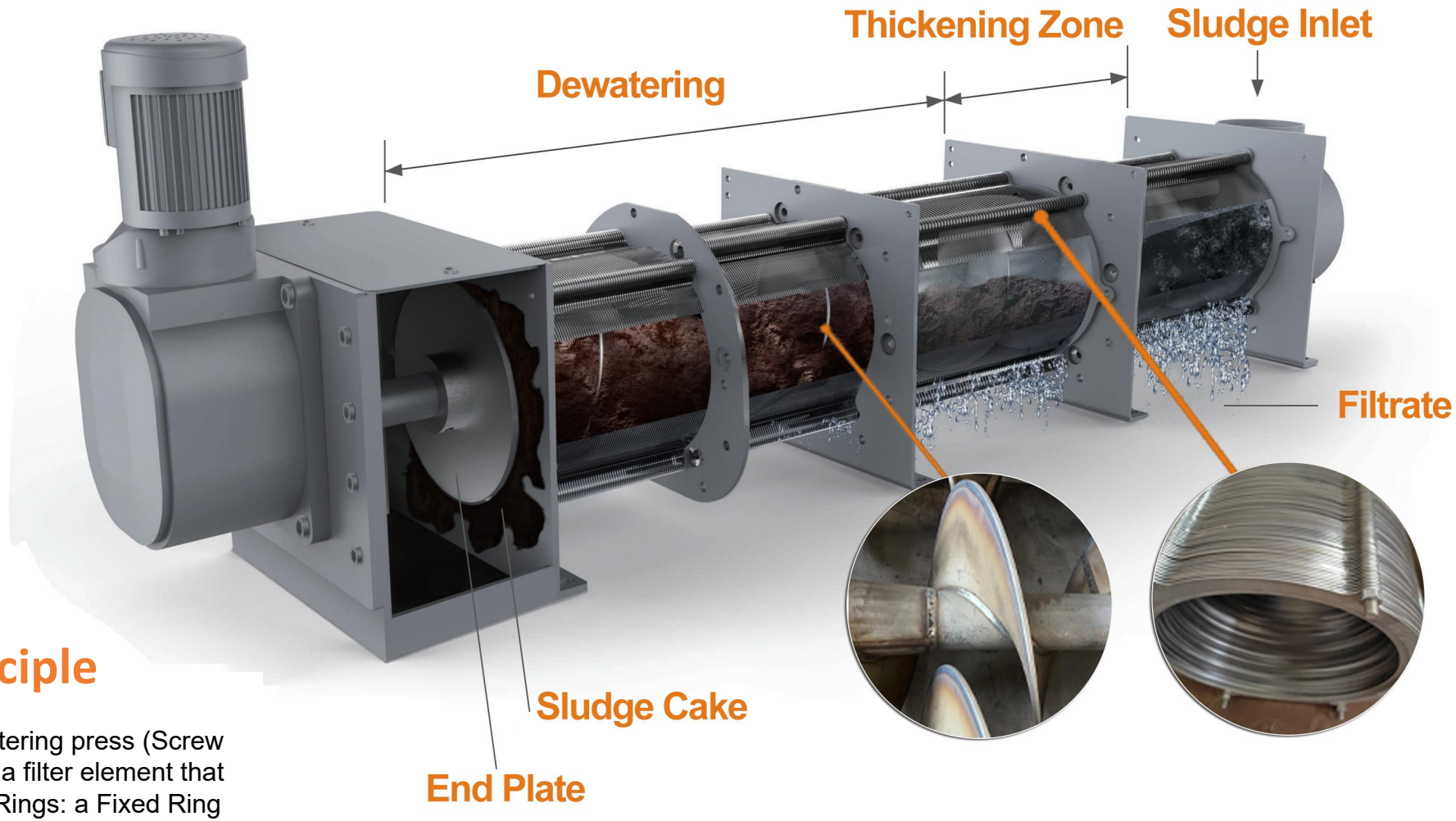
In terms of production capacity. We have 6760 m2 factory in Anhui with 55 High speed extruded lines and injection lines. The annual capacity of MBBR is more than 100,000 CBM; the annual Capacity of Tube settlers, diffuser and PVC profiles, injection parts are more than 8,000 tons. High quality with ISO9001 and other international certifications.

Hangzhou Juntai try to be a system solution supplier for water treatment projects which offer design and all the service, this way can be save much money and time for Customer.

Juntai MBBR media widely used in wastewater treatment; We work with professional environmental engineers and cooperated with three China Universities to ensure high quality while ensuring better service.

Juntai products have been exported more than 54 countries, including America. Mexico, Sweden, Malaysia, Philippines, etc.

Choose Juntai, and Juntai team will return back you full satisfied. We are very happy to cooperate with you and finally bring you satisfactory products. We look forward to receiving your inquiry soon.



Working Principle

Screw type sludge dewatering press (Screw Press) is structured with a filter element that consists of two types of Rings: a Fixed Ring and a Moving Ring; and a screw that thrusts the filter element and transfers and pressurizes the sludge.

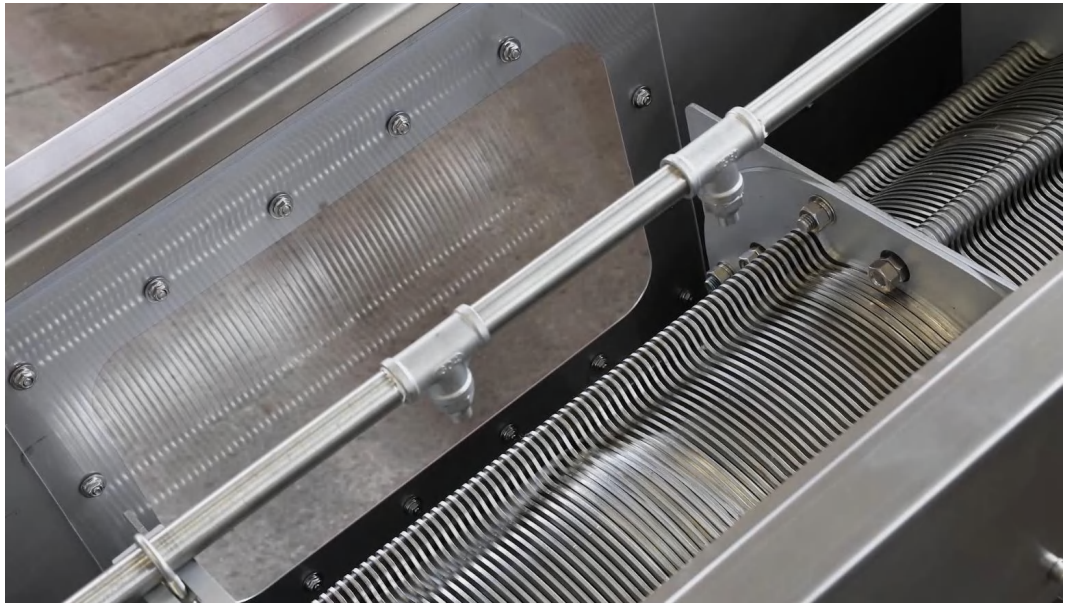
① Steel Cover and PMMA Windows make safer

Stainless steel Cover with two handles on the above of the main boby, Glass windows in both, The cover make the equipment safer and the worker safter when running.In addition, the steel plate cover can effectively prevent dust from falling in and affecting the service life.

Ensure Safety

② Steel Sprinker System got longer life

The Sprinker system is very important to the dewatering system, it is the most easy to demager system when use, all of the parts of Juntai Screw Press sprinker system are made by SS304, including the pipe, the inject and the nozzel, it will never need replace the spayer nozzel.



Longer Life

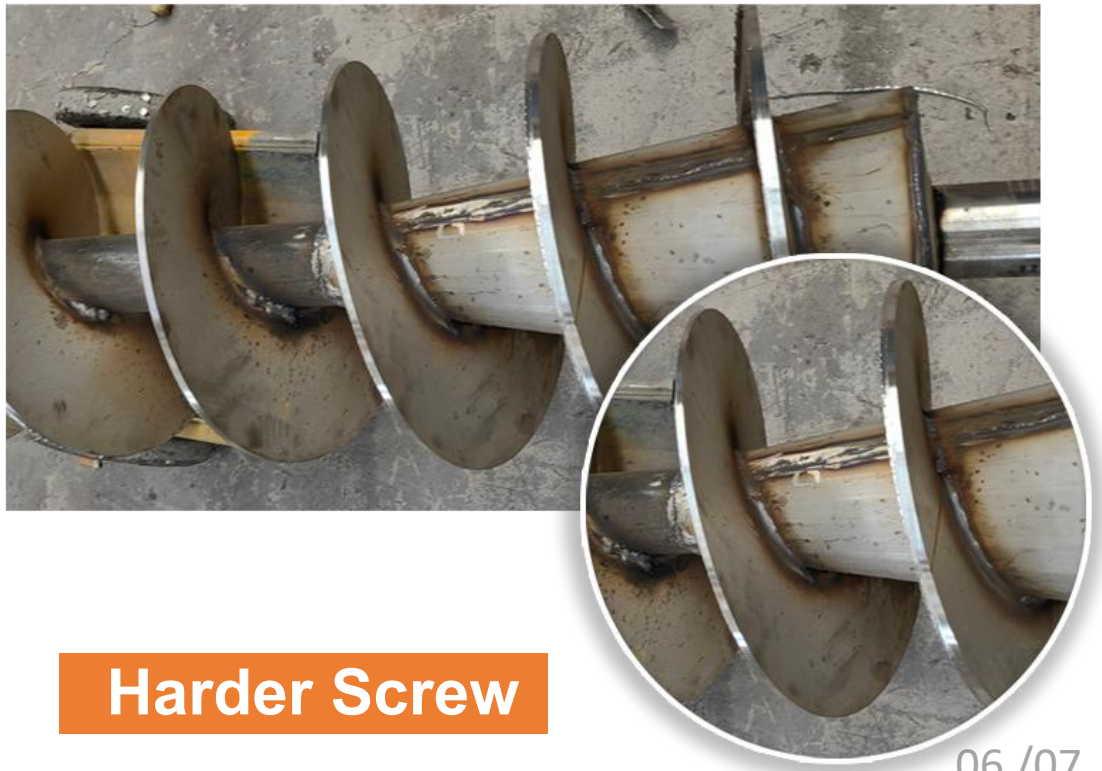
③ Detailing Guaratee Quality

Juntai fucus on every detailing of the Screw Press, such as the snoothy surface, the cable protect, the wire stable, Radius and snoothy angles, welded line and all the detailings, Juntai try to do as best as we can ,and this is also a way to ensure the quality

Focus Detailing

④ Cobalt Alloy Wear Layer Make Screws Harder

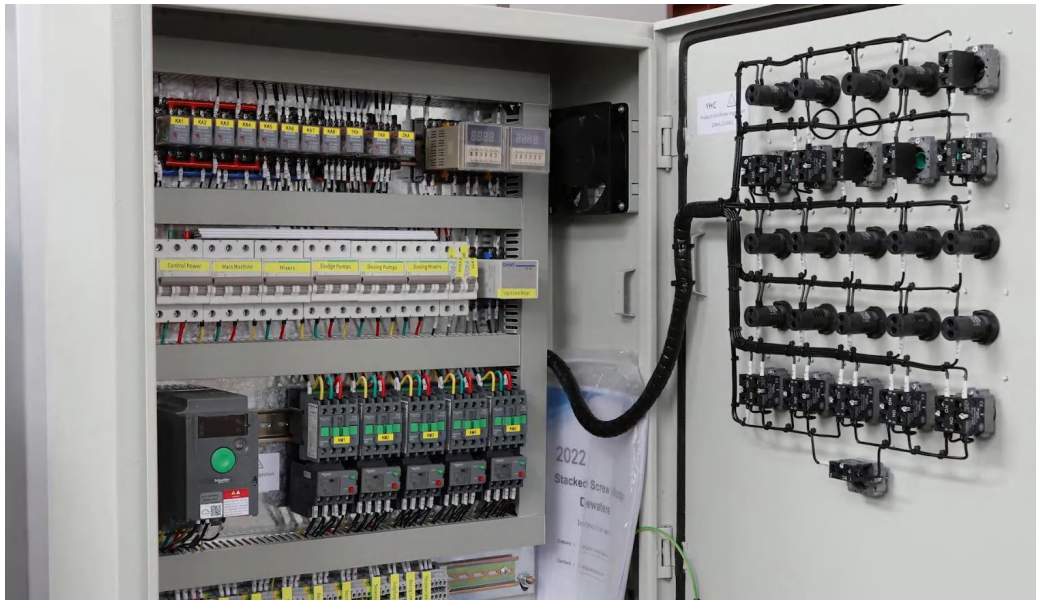
All of Screws of Juntai Dewatering machine are welded a cabalt Alloy Wear layer which are much harder than that of SS304, and with the Aobalt Alloy waer layer, the screw is harder and canbe used many more years



Harder Screw

⑤ Germany Schneider Electric Control Cabinet

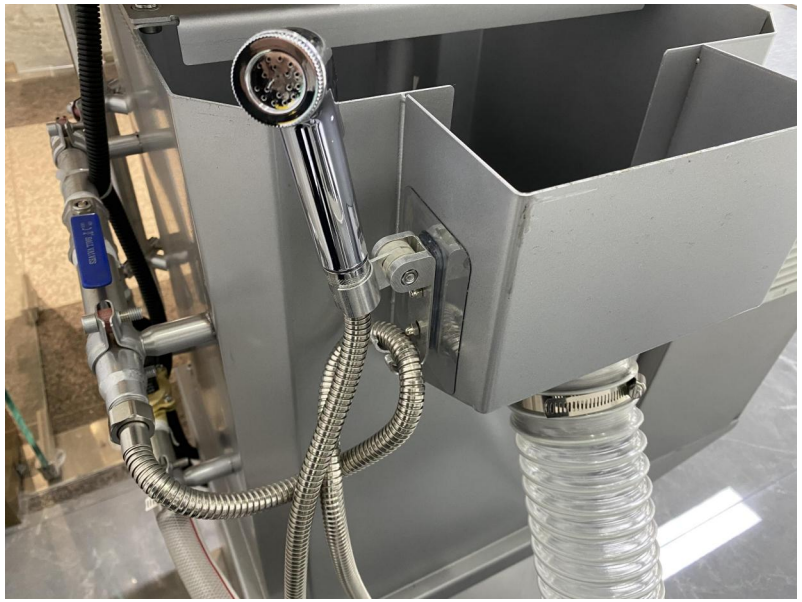
Juntai dewatering machine is installed with German Schneider Electric control box, this high quality control box can better ensure the safety.



Germany Schneider

⑥ Pressure Water Gun With Fiberglass Hose make clean Easier

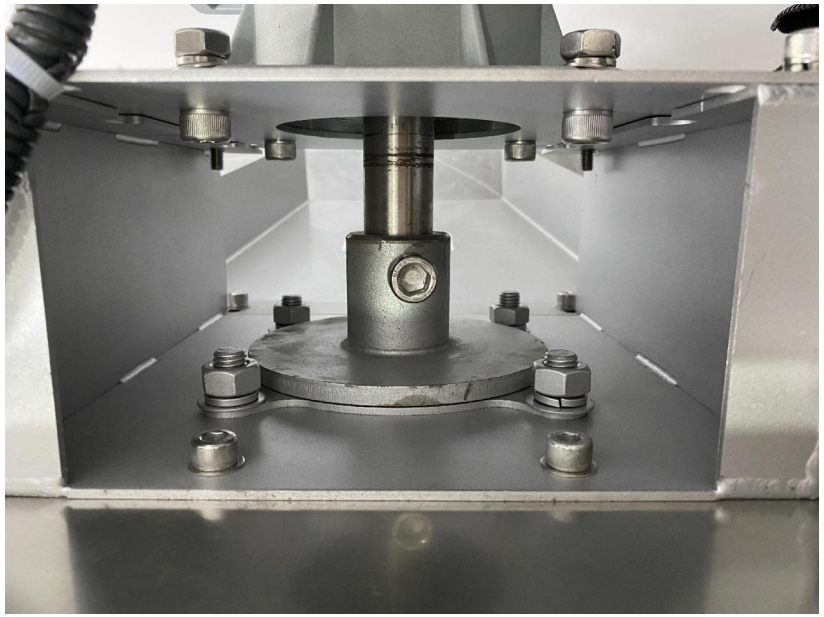
Juntai Screw Press has a pressure water Gun with high quality strengthen hose, which can clean any part of the machine at easier



Clean Easier

⑦ Stainless Steel End Plate

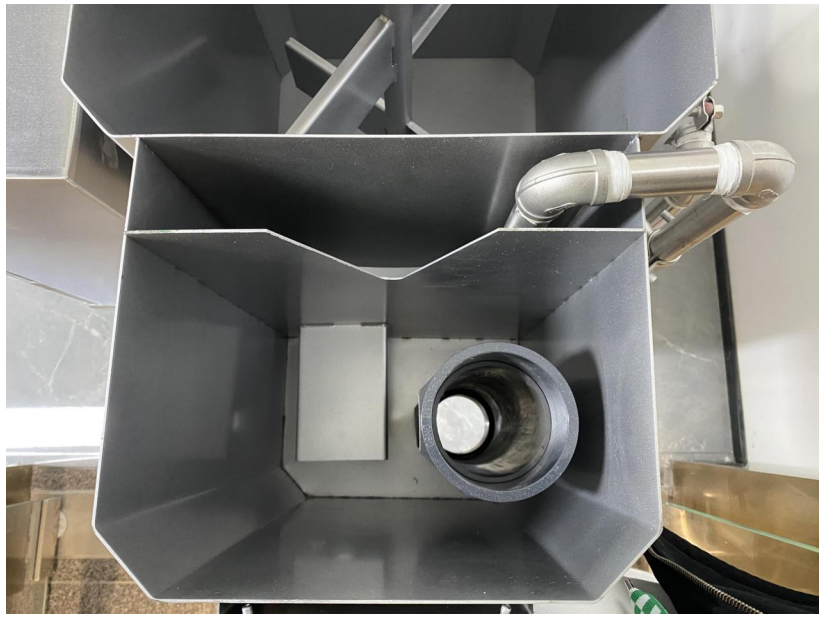
The back pressure plate can control the thickness of mud cake and the speed of mud cake output by adjusting the gap.



End Plate

⑧ Precise Leveler

Liquid levelers to regulate the speed and flow of effluent into the mixing chamber and to control the overall efficiency of the work.



Leveler

Juntai Screw Press Technology Advantage 1

JUTNAI Technology Advantage 1

Equipped with pre-thickening tank and better at dealing with low concentration sludge.

Improved gravity thickening shortcomings and realized high efficient thickening.Flocculation and thickening are integrated, dewater becomes easier.Combine with regulating end plate, sludge concentration can be optimized.

Screw type sludge dewatering press → **2000mg/L-50000mg/L**

Sludge concentration 2000mg/L- 50000mg/L

JUNTAITechnology Advantage 2

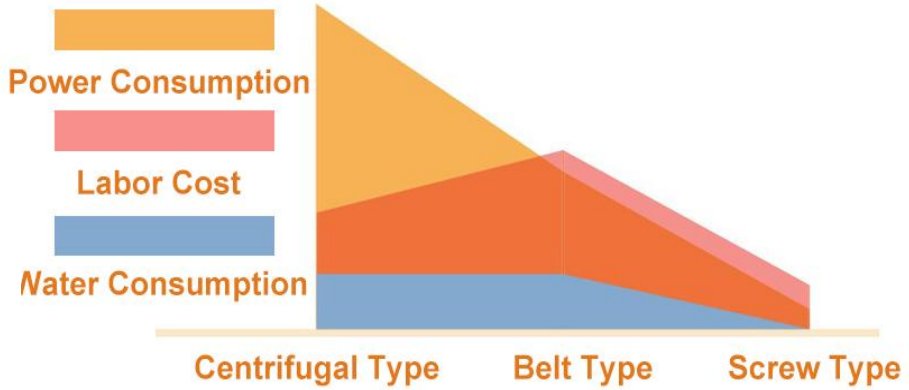
Fixed and Moving rings replace filter cloth.

The rotation of screw shaft pushes the detaching of Moving rings from Fixed rings, which brings self-cleaning processcontinuously and automatically. This enables stable and constant dewatering to take place without depending on high pressure flushing water to prevent clogging. This also enables being ideal for oily sludge, which easily causes clogging and is difficult to treat with other types of dewatering equipment.

JUNTAI Technology Advantage 3

Low noise, low vibration, power saving, water saving.

As the main component, the screw rotates very slow at a rate of 2-4rpm, no need large integration like rollers, so that itconsumes very low power and thus environment friendly. The power consumption of screw press is 1/20 of centrifuge which requires rotation at high speed, 1/8 of belt press, which is only 0.01-0.1 Kwh/kg-DS.Its unique self-cleaning mechanism prevents filter mesh from clogging, then no need for huge amounts of water forclogging prevention. The amount of cleaning water required is about 1/115 of belt press and 1/62 of centrifuge.



Fixed and Moving rings replace filter cloth

Self-cleaning

Clog-free

Ideal for oily sludge

Technology Advantage 4

Reduce infrastructure investment cost, improve treatment effect.

Screw press can directly treat the sludge from aeration tank and second sedimentation tank so no need sludgethickening and sludge storage tank. The infrastructure investment can be greatly saved and the phosphorous release problem is well avoided. Thus the sewage treatment system dephosphorization can be enhanced.Save infrastructure investment also on mixer, air compressor, washing pump and other related corollary equipment.Less footprint occupy, less dewatering plant infrastructure investment.

Technology Advantage 5

Fully automatic control, simple operation and management.

Screw press doesn't have any components like filter cloth or filter pore which are easily clogged.The operation is safe and easy.
The machine also can be operated automatically by control cabinet.

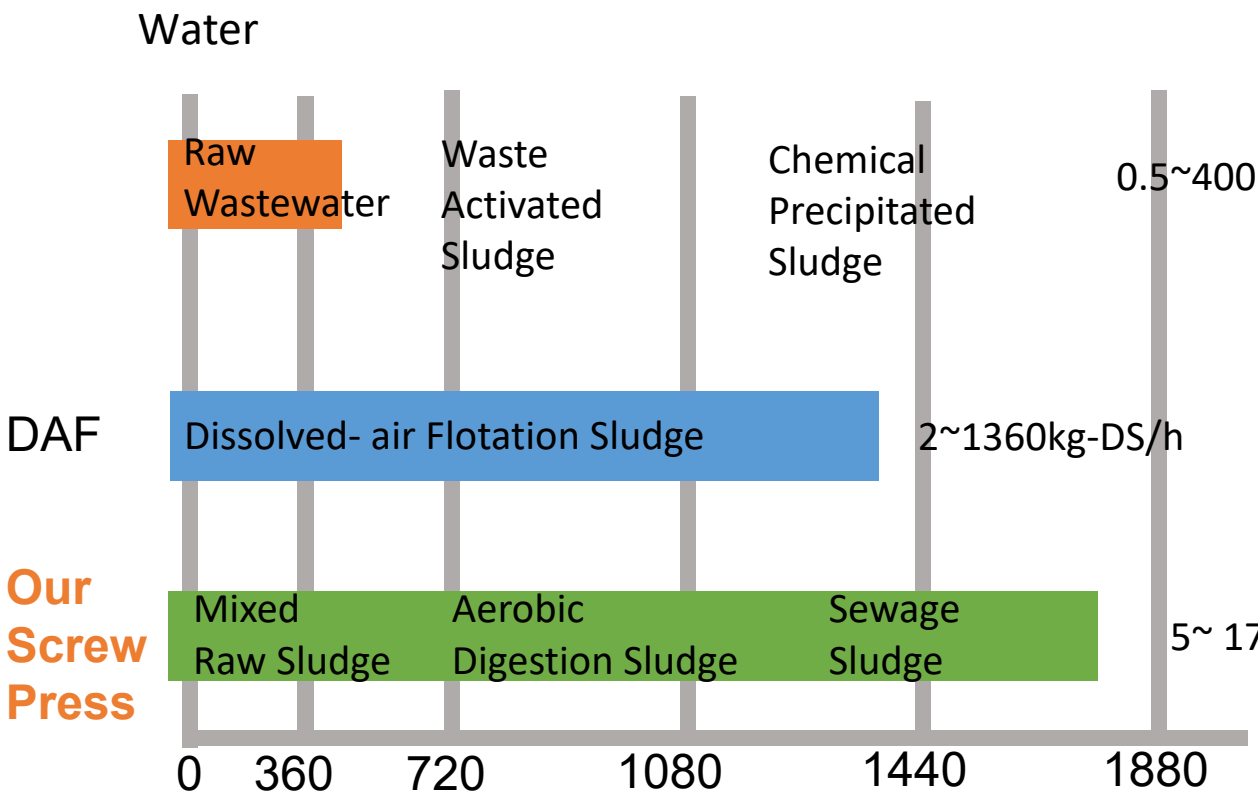
Technology Advantage 6

Wide range of application.

Can be widely used in municipal sewage, food, slaughtering breeding, printingand dyeing, oil chemical industry, paper making, leather, pharmaceutical and other industrial of sludge dewatering.

Juntai Screw Press Water Serviceable Range

Screw Press can deal with waste water **cover** Sludge concentration 0.5 to 1768KG/DS/h



Special designed Screw Press has wide range of types, the capacity covers from 0.5Kg-DS/h to 1320- 1768Kg-DS/h. It can deal with waste water including Raw waste water, Activated Sludge Water, Chemical Precipitated Sludge, DAf Sludge.

We can also provide the most suitable technical proposal based on the actual need.

Juntai Screw Press Types Selection Reference

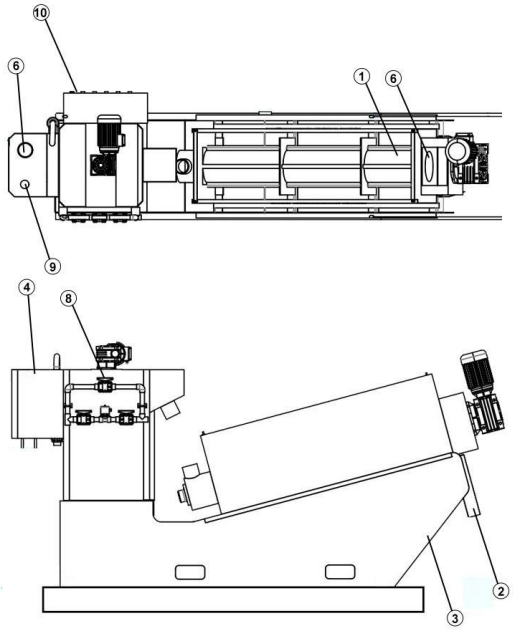
Type	DS Standard Processing Volume		Theoretical Reference For Sludge Treatment Volume (specific treatment volume is determined by the flocculation effect of sludge and chemicals)					
	Low concentration→High concentration		2000mg/L	5000mg/L	10000mg/L	20000mg/L	25000mg/L	50000mg/L
Sludge Treatment Capactiy	kg/h	kg/h	m³/h	m³/h	m³/h	m³/h	m³/h	m³/h
NH-131	~6	~10	~3	~1.2	~1	~0.5	~0.4	~0.2
NH-132	~12	~20	~6	~2.4	~2	~1	~0.8	~0.4
NH-201	~9	~15	~4.5	~1.8	~1.5	~0.75	~0.6	~0.3
NH-202	~18	~30	~9	~3.6	~3	~1.5	~1.2	~0.6
NH-301	~30	~50	~15	~6	~5	~2.5	~2	~1
NH-302	~60	~100	~30	~12	~10	~5	~4	~2
NH-303	~90	~150	~45	~18	~15	~7.5	~6	~3
NH-401	~90	~150	~45	~18	~15	~7.5	~6	~3
NH-402	~180	~300	~90	~36	~30	~15	~12	~6
NH-403	~270	~450	~135	~54	~45	~22.5	~18	~9
NH-404	~360	~600	~180	~72	~60	~30	~24	~12

Juntai Diffuser Model Screw Press Specification

Model	Spiral Shaft Specifications	Mechanical Size			Net weight	Operating weight
		Length (Variable)	Width (variable)	Height (Variable)		
	mm*pcs	mm	mm	mm	kg	kg
NH-131	130*1	1960	800	1150	182	280
NH-132	132*2	2100	850	1150	360	400
NH-201	200*1	2500	800	1450	315	420
NH-202	200*2	2600	950	1450	515	680
NH-301	300*1	3100	900	1800	568	1200
NH-302	300*2	3400	1200	1800	968	2030
NH-303	300*3	3700	1450	1800	1358	2750
NH-401	400*1	3800	1100	2100	1085	2400
NH-402	400*2	4100	1500	2050	2200	4200
NH-403	400*3	4370	1800	2150	3300	6300
NH-404	400*4	4800	2600	2050	4500	7200

Juntai Diffuser Model Screw Press Specification

■ NH-131



NH-131 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	280mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L200"W250*H450(mm)
⑤	Flocculation mixing tank	SUS304	L330*W330*H550(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

SELECTION PARAMETERS	
Processing capacity	6-10(D5-kg/h)
Electricity consumption	0.2kw/h
Flushing water consumption	24L /h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	280mm
Mechanical size	L2000*W700*H1060(mm)
Net weight	182kg
Operating weight	280kg

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Inner wire(304)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  10[kg-DS/h] — **10000[mg/L]**

  10[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 1m³/h

  Treatment volume Unit conversion Sludge concentration Unit conversion Sludge flow rate

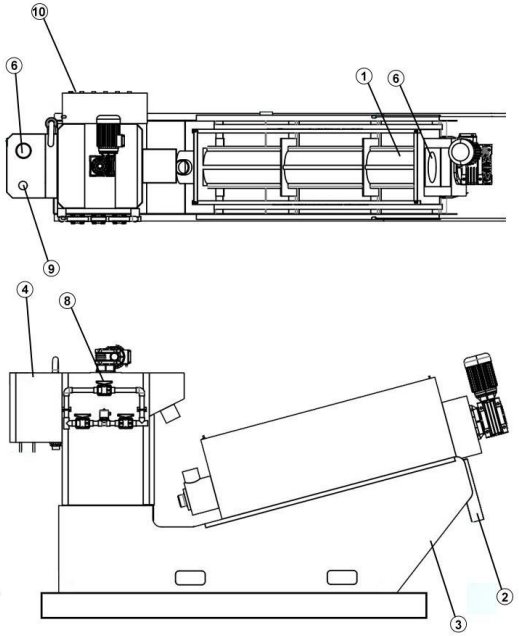
- **10[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 30L/h**

  Treatment volume Agent addition rate Dilution rate Unit conversion Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-132



NH-132 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	300mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L200*W250*H450(mm)
⑤	Flocculation mixing tank	SUS304	L330*W330*H550(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Inner wire(304)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	12~20(DS-kg/h)
Electricity consumption	0.3kw/h
Flushing water consumption	24L /h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	300mm
Mechanical size	L2000*W700*H1060(mm)
Net weight	360kg
Operating weight	400kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  20[kg-DS/h] — **10000[mg/L]**

  20[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 2m³/h

  Treatment volume Unit conversion Sludge concentration Unit conversion Sludge flow rate

- **20[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 60L/h**

  Treatment volume Agent addition rate Dilution rate Unit conversion Agent flow rate

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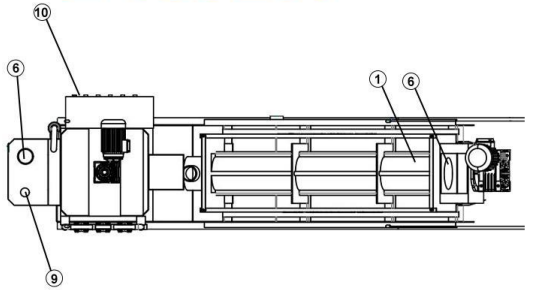
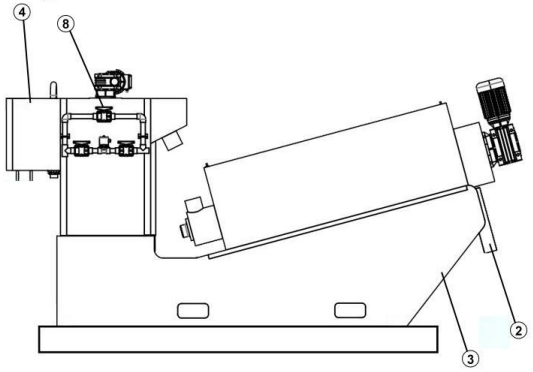
Juntai Diffuser Model Screw Press Specification

■ NH-201





NH-201 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	500mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L200*W250*H450(mm)
⑤	Flocculation mixing tank	SUS304	L330*W330*H550(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Inner wire(304)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	9~15(D5-kg/h)
Electricity consumption	0.3kw/h
Flushing water consumption	32L /h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	500mm
Mechanical size	L2600*W800*H1480(mm)
Net weight	315kg
Operating weight	420kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity　　Sludge concentration

  15[kg-DS/h]　　**10000[mg/L]**

  15[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 1.5m³/h

  Treatment volume　Unit conversion　Sludge concentration　Unit conversion　Sludge flow rate

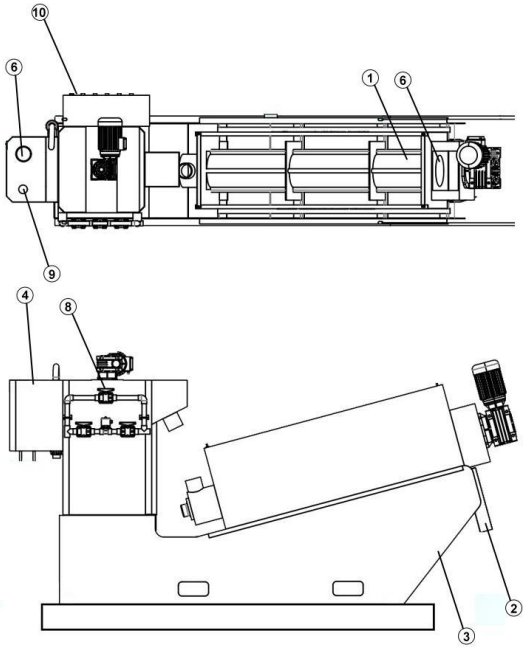
- **15[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 45L/h**

  Unit conversion　Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-202



NH-202 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	400mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W300*H550(mm)
⑤	Flocculation mixing tank	SUS304	L420*W420*H700(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Inner wire(304)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	18~30(DS-kg/h)
Electricity consumption	1.1kw/h
Flushing water consumption	32L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	400mm
Mechanical size	L2000*W950*H1450(mm)
Net weight	515kg
Operating weight	680kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  30[kg-DS/h] — **10000[mg/L]**

  30[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 3m³/h

  Treatment volume Unit conversion Sludge concentration Unit conversion Sludge flow rate

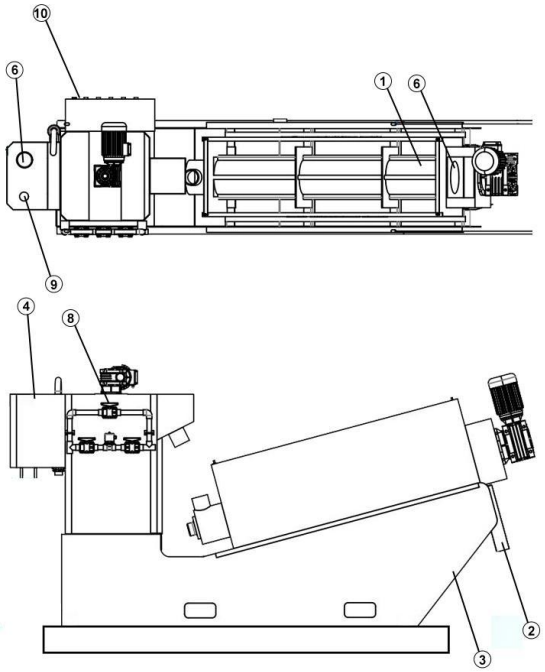
- **30[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 90L/h**

  Treatment volume Agent addition rate Dilution rate Unit conversion Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-301



NH-301 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	640mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W350*H760(mm)
⑤	Flocculation mixing tank	SUS304	L450*W450*H960(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	30~50(DS-kg/h)
Electricity consumption	1.5kw/h
Flushing water consumption	40L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	700mm
Mechanical size	L3250*W950*H1780(mm)
Net weight	568kg
Operating weight	1200kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  50[kg-DS/h] — **10000[mg/L]**

  50[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 5m³/h

  Treatment volume Unit conversion Sludge concentration Unit conversion Sludge flow rate

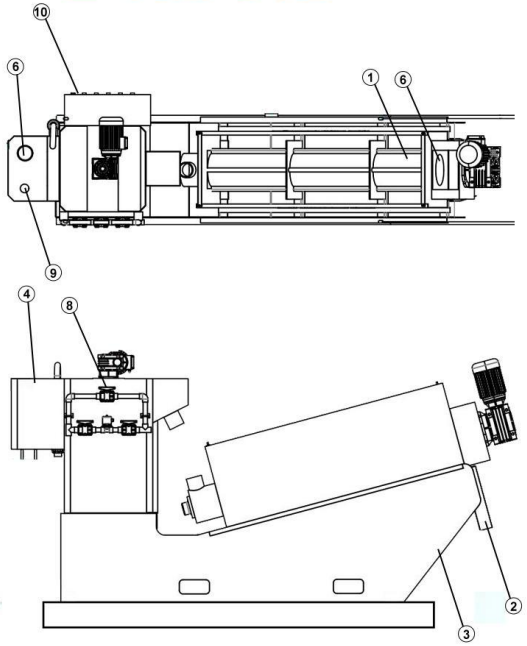
- **50[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 150L/h**

  Treatment volume Agent addition rate Dilution rate Unit conversion Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-302



NH-302 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	630mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W350*H760(mm)
⑤	Flocculation mixing tank	SUS304	L720*W720*H960(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	60~100(DS-kg/h)
Electricity consumption	2.25kw/h
Flushing water consumption	80L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	630mm
Mechanical size	L3605*W1060*H1780(mm)
Net weight	968kg
Operating weight	2030kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  100[kg-DS/h] — **10000[mg/L]**

  100[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 10m³/h

  Treatment volume Unit conversion Sludge concentration Unit conversion Sludge flow rate

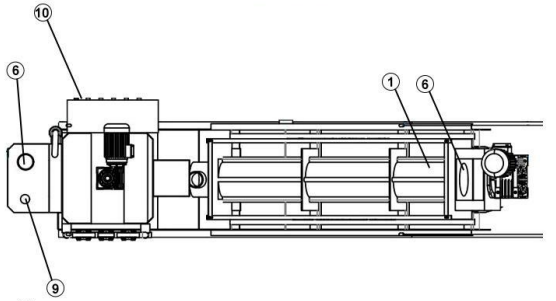
- **100[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 300L/h**

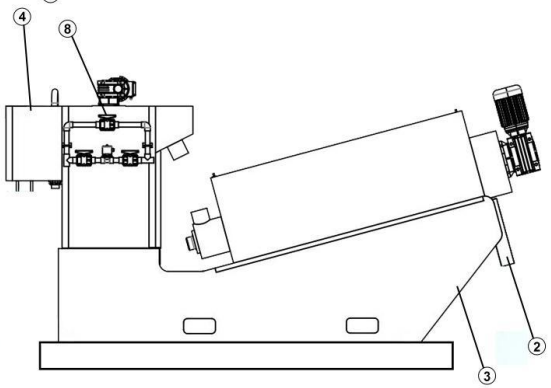
  Treatment volume Agent addition rate Dilution rate Unit conversion Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-303





NH-303 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	620mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W350*H760(mm)
⑤	Flocculation mixing tank	SUS304	L840*W840*H960(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	90~150(DS-kg/h)
Electricity consumption	3kw/h
Flushing water consumption	120L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	620mm
Mechanical size	L3605*W1470*H1780(mm)
Net weight	1358kg
Operating weight	2750kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  150[kg-DS/h] — **10000[mg/L]**

  150[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 15m³/h

  Treatment volume Unit conversion Sludge concentration Unit conversion Sludge flow rate

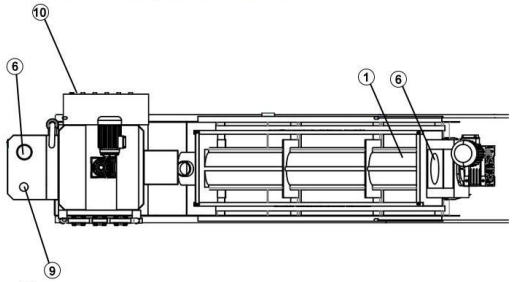
- **150[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 450L/h**

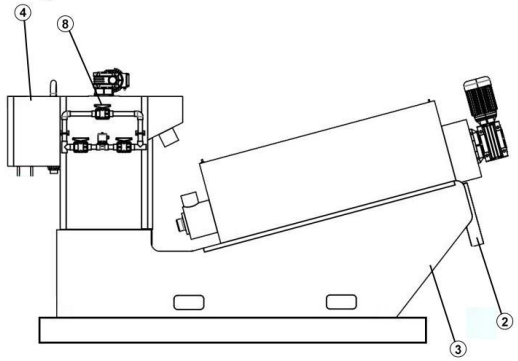
  Treatment volume Agent addition rate Dilution rate Unit conversion Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-401





NH-401 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	700mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W350*H800(mm)
⑤	Flocculation mixing tank	SUS304	L600*W600*H1000(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	90~150(D5-kg/h)
Electricity consumption	2.25kw/h
Flushing water consumption	100L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	700mm
Mechanical size	L4500*W1000*H2100(mm)
Net weight	1085kg
Operating weight	2400kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity　　Sludge concentration

  150[kg-DS/h]　　**10000[mg/L]**

  150[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 15m³/h

  Treatment volume　Unit conversion　Sludge concentration　Unit conversion　Sludge flow rate

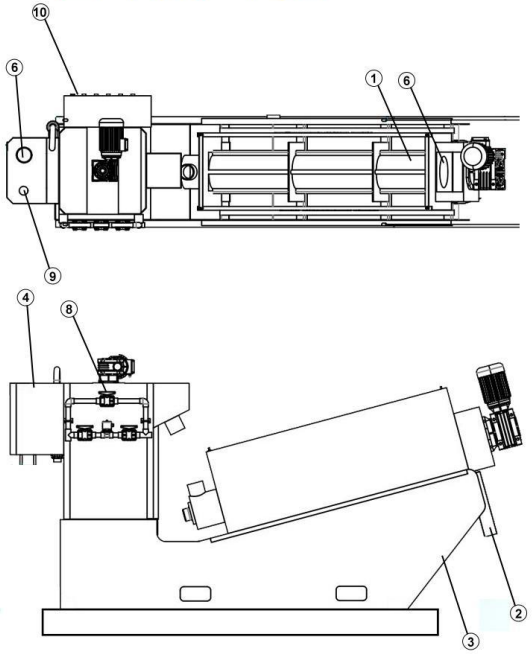
- **150[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 450L/h**

  Treatment volume　Agent addition rate　Dilution rate　Unit conversion　Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-402



NH-402 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	650mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W350*H1000(mm)
⑤	Flocculation mixing tank	SUS304	L960*W960*H1200(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	180~300(DS-kg/h)
Electricity consumption	4.5kw/h
Flushing water consumption	200L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	650mm
Mechanical size	L4500*W1 350*H2100(mm)
Net weight	2200kg
Operating weight	4200kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity　　Sludge concentration

  300[kg-DS/h]　　**10000[mg/L]**

  300[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 30m³/h

  Treatment volume　Unit conversion　Sludge concentration　Unit conversion　Sludge flow rate

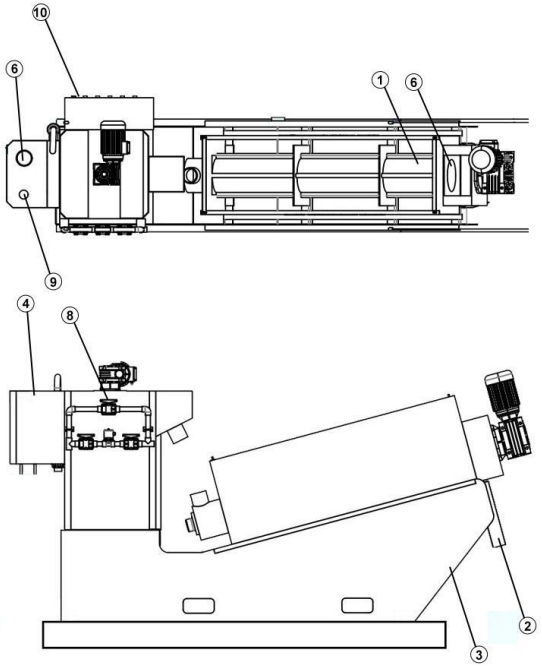
- **300[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 900L/h**

  Treatment volume　Agent addition rate　Dilution rate　Unit conversion　Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-403



NH-403 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	900mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L400*W550*H950(mm)
⑤	Flocculation mixing tank	SUS304	L1070*W1070*H1200(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	270~450(DS-kg/h)
Electricity consumption	6kw/h
Flushing water consumption	300L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	900mm
Mechanical size	L4500*W1800*H2100(mm)
Net weight	3300kg
Operating weight	6300kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity　　Sludge concentration

  450[kg-DS/h]　　**10000[mg/L]**

  450[kg-DS/h] X 1000[g/kg]+ (1000[mg/L+ 1000[mg/g])= 45m³/h

  Treatment volume　Unit conversion　Sludge concentration　Unit conversion　Sludge flow rate

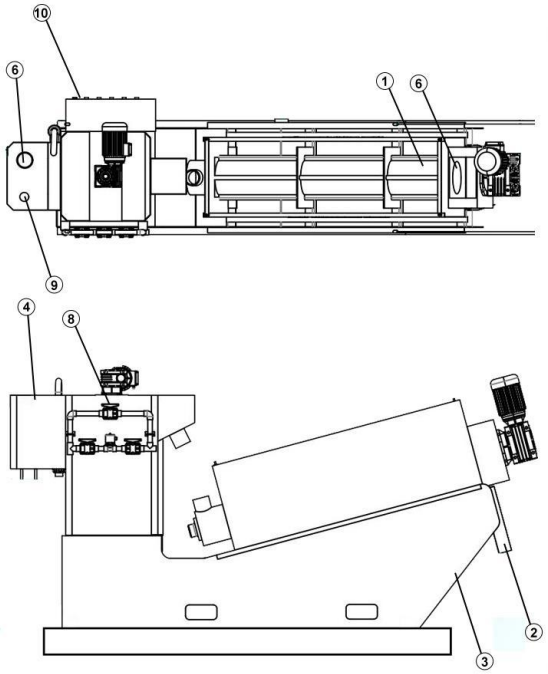
- **450[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 1350L/h**

  Treatment volume　Agent addition rate　Dilution rate　Unit conversion　Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

Juntai Diffuser Model Screw Press Specification

■ NH-404



NH-404 PART NAME			
NO.	Name	Material	Remarks
①	Dewatering body	SUS304	
②	Outlet Mud opening height from the ground	SUS304	900mm
③	Dewatering body bottom plate	SUS304	Aperture: 4-φ20
④	Dosing tank	SUS304	L300*W270*H800(mm)
⑤	Flocculation mixing tank	SUS304	L900*W900*H1000(mm)
⑥	Mixing tank mixer	SUS304	Screw slurry type
⑦	Liquid level adjustment tube	SUS304	
⑧	Water supply solenoid valve		
⑨	Liquid level switch	SUS304	
⑩	Electric control cabinet	SUS304	Optional

INTERFACE CONNECTION			
NO.	Name	Caliber	Connection Part
NH-1	Sludge conveying port	DN40	PVC interface
NH-2	Filtrate discharge port	DN80	Flange (SUS)
NH-3	Water supply port	DN20	PVC interface
NH-4	Chemical liquid conveying port	DN20	PVC interface
NH-5	Reflux port	DN80	PVC interface
NH-6	Mixing tank discharge port	DN50	Ball valve(PVC)

SELECTION PARAMETERS	
Processing capacity	360~600(DS-kg/h)
Electricity consumption	9kw/h
Flushing water consumption	400L/h
Polymer flocculant addition rate	For DS/T~0.3%
Maintenance management frequency	5min/day
Water supply pressure	0.1~0.2MPa
Mud cake discharge distance from the ground	900mm
Mechanical size	L4500*W1800*H2100(mm)
Net weight	4500kg
Operating weight	7200kg

- **Sludge pump, dosing pump selection reference:**

  Processing capacity — Sludge concentration

  600[kg-DS/h] — **10000[mg/L]**

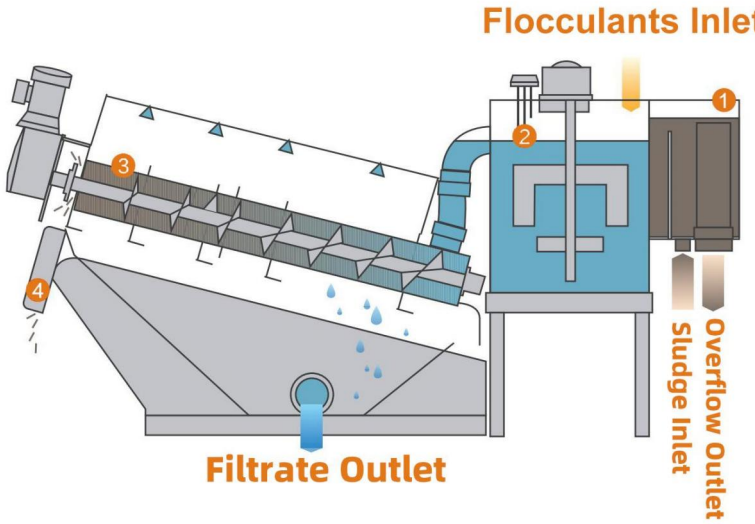
  Treatment volume — Unit conversion — Sludge concentration — Unit conversion — Sludge flow rate

- **600[kg-DS/h] x 0.3% x 1000 x 1000[g/kg] = 1800L/h**

  Treatment volume — Agent addition rate — Dilution rate — Unit conversion — Agent flow rate

- Please slightly larger than the theoretical value when choosing matching equipment, specifications update without advance notice, set Timing please ask for drawings.

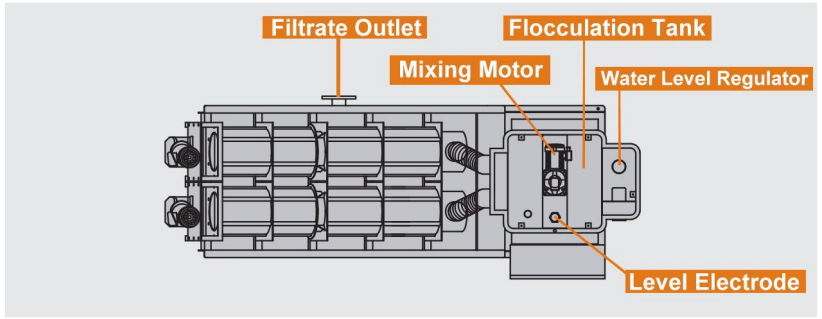
Juntai SCREW Standard Configuration and Structure

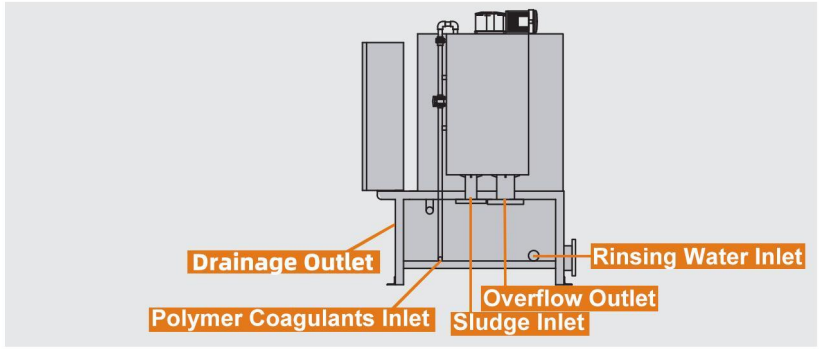


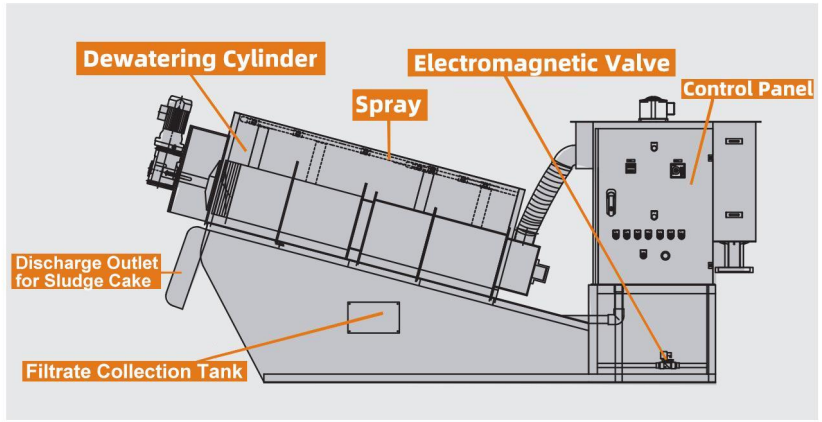
JUNTAI SCREW (Standard Configuration)

1	Flow Control Tank Sludge is fed into the Flow Control Tank by sludge pump, and isregulated with the overflow pipe, returning excess volume to the sludge storage tank.
2	Flocculation Tank Stir and mix the sludge with polymer, forming suitable "floc".
3	Dewatering Cylinder Conditioned sludge is thickened in the thickening zone of the cylinder,and then the inner pressure increased at the dewatering zone helps sludge being welldewatered.
4	Discharge Outlet for Sludge Cake Further pressure is applied from the outlet side with theEnd plate, discharging sludge cake with 20+ 5% solids content.

Structure







AUTOMATIC POLYMER
preparation unit

Automatic Polymer Preparation Unit is for powder polymer preparation, designed for homogeneity in flocculantconcentration.

Optimized design can ensure the polymer goes through the maturation process using the smallest footprint.

Specifications

Model	Capacity (L/h)	Powder hopper capacity (L)	Material	Power (KW)	Dimensions (mm)			Weight (kg)
					L	W	H	
NH-500L	500	65	SUS304	0.99	1400	1520	1870	280
NH-1000L	1000	65	SUS304	0.99	2000	1300	1660	410
NH-2000L	2000	65	SUS304	1.36	2440	1520	1965	550
NH-4000L	4000	65	SUS304	1.36	3000	1800	2115	680
NH-5000L	5000	65	SUS304	3.55	4000	1550	1830	960
NH-6000L	6000	65	SUS304	3.55	4000	1800	2080	1050
NH-8000L	8000	65	SUS304	4.65	4500	1800	2100	1280
NH-10000L	10000	100*2	SUS304	4.9	5000	1800	2100	1560

PE POLYMER
preparation unit

PE Polymer Preparation Unit is a simple dosing unitmade of PE. The unit is composed of stirring motor,mixer, dosing port, water inlet and washing water inlet. It is low cost which is applicable to small scale,personnel onsite project.

Specifications

Model	Capacity (L/h)	Dimensions (mm)			Power (kw)	Mixing motor (kw)	Dosing pump (kw)
		L	W	H			
NH-500L-PE-1	500	830	1410	1580	1	0.75	0.25
NH-500L-PE-2	1000	830	1410	1580	2	0.75*2	0.25*2
NH-500L-PE-3	1500	2490	1410	1580	3	0.75*3	0.25*3
NH-1000L-PE-1	1000	1120	1720	1706	1	0.75	0.25
NH-1000L-PE-2	2000	2240	1720	1706	2	0.75*2	0.25*2
NH-1000L-PE-3	3000	3360	1720	1706	3	0.75*3	0.25*3
NH-2000L-PE-1	2000	1400	2000	2200	1.65	1.1	0.55
NH-2000L-PE-2	4000	2800	2000	2200	3.3	1.1*2	0.55*2
NH-2000L-PE-3	6000	6200	2000	2200	4.95	1.1*3	0.55*3

Juntai Screw Press Inventory and Packaging

1.MBBR Media

2.Disc Diffuser

3.Tube Diffuser

4.Bio Biock

5.Tube Settler

6.Air Blower

7.Aeration Tube

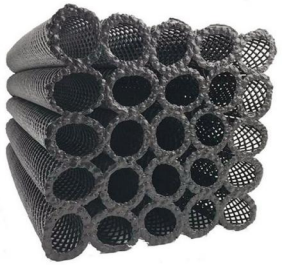
8.Dosing System

9.Water Pump

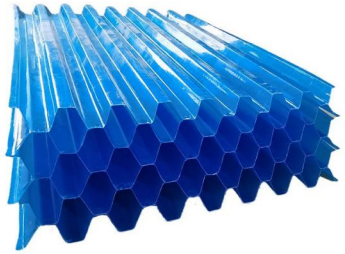
MBBR

Disc Diffuser

Tube Diffuser



Bio Biock



Tube Settler

Air Blower

Aeration Tube

Dosing System

Water Pump

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