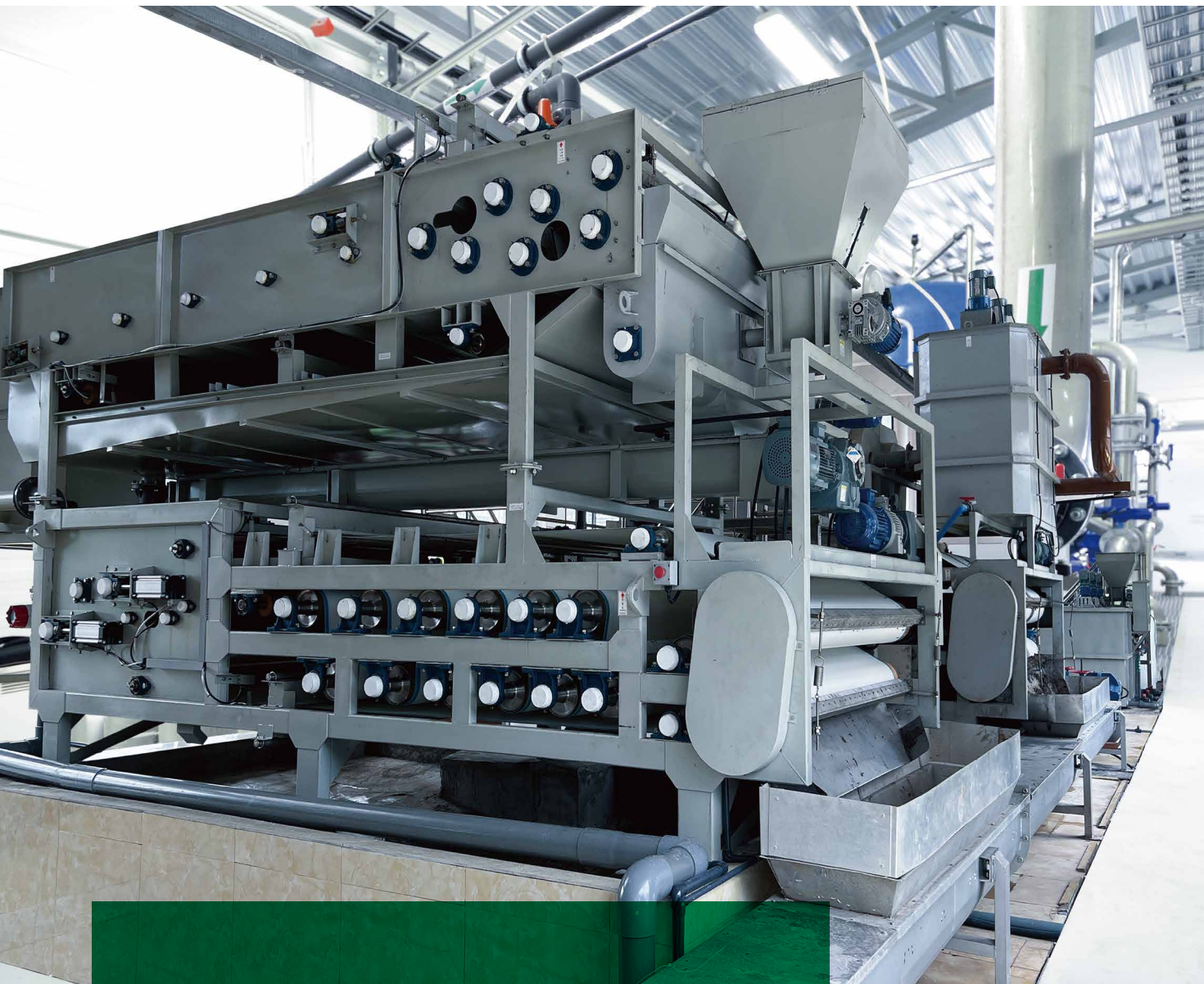




川源(中国)机械有限公司  
GSD (China) Co., Ltd.



## HE4 High Dryness Belt Filter Press

HE4高干型带式污泥脱水机

# HE4

## 高干型带式污泥脱水机

### High Dryness Belt Filter Press

- Municipal wastewater sludge dewatering treatment
- Sludge dewatering treatment for slaughtering and animal husbandry
- Sludge dewatering treatment for urban sewers, water and fertilizers, water purification plants
- Solid/liquid separation and dehydration treatment in various industrial processes such as food, chemical, and mining

## 特点

### Features

- 设备集成度高，前端无需一级脱水，污泥池的污泥可直接进入处理
- 自动化程度高，可自动连续运行，可无人值守
- 更合理的滚轮排布，更大的压榨压力与剪切力，出泥含水率更低
- 高压段采用专用滤布，能承受更大的滤布张力，优良的透水性，泥饼易剥离
- 处理效果可匹配不同污泥处置目标
- 后端搭配污泥干化设备，可大幅降低干化设备运行能耗，显著的降低了碳排放

- Highly integrated equipment, no need for primary dewatering at the front end; sludge from sludge tank can be processed directly
- High degree of automation that allows for automatic unattended continuous operation
- More reasonable roller arrangement, greater pressing pressure, lower moisture content of discharged sludge
- Special filter cloth used in the high-pressure section, which can withstand greater tension of the filter cloth, with excellent water permeability for easier stripping of the sludge cake
- Compliance with various usage demands
- The backend can be paired with sludge drying equipment, which can significantly reduce the energy consumption of the drying equipment during operation and remarkably decrease carbon emissions.

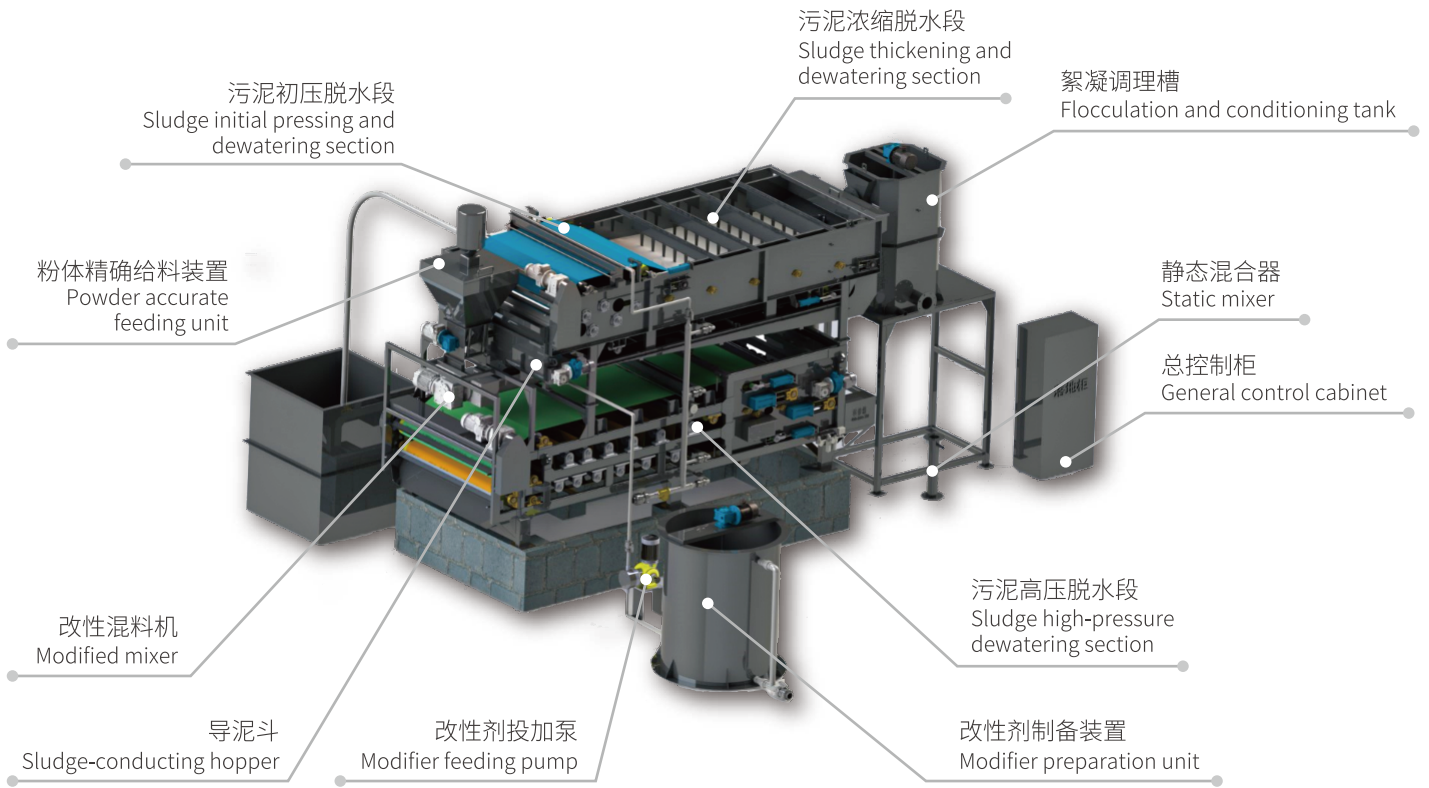
## 用途

### Application

- 市政污水处理、污泥脱水处理
- 屠宰、畜牧业污泥脱水处理
- 都市下水道、水肥、净水厂污泥脱水处理
- 食品、化工、矿业等各种工业过程中固/液分离脱水处理

# 结构组成

## Structure



# 污泥脱水处理效果图

## Sludge dewatering treatment effect diagram



脱水前的污泥水  
Sludge water before dewatering



絮凝后的污泥状态  
Sludge state after flocculation

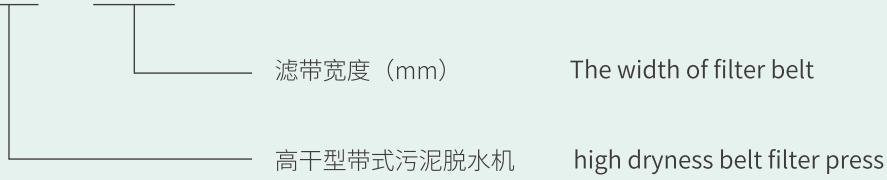


脱水后的泥饼  
Sludge cake after dewatering

## 型号说明

### Type description

#### HE4 - 1000



## 性能参数表

### Performance parameter table

型号 Model	滤带宽度 (mm) The width of filter belt	低浓度(S.S.0.4-0.8%) Low concentration		中浓度(S.S.0.8-1.5%) Medium concentration		泥饼含水率 (%) Moisture content of sludge cake	重量 (kg) Weight	清洗水量 (m³/h) Cleaning water volume
		处理量 (m³/h) Treating capacity	绝干量 (kg.DS/h) Dried sludge	处理量 (m³/h) Treating capacity	绝干量 (kg.DS/h) Dried sludge			
HE4-1000	1000	19-25	76-150	15.5-19	124-233	55-75	2850	13.5
HE4-1500	1500	35-50	152-300	30.5-38	244-458	55-75	4900	20
HE4-2000	2000	60-80	240-480	50-60	400-750	55-75	8400	28

型号 Model	功率 (kW) Power							外形尺寸 (mm) Outline dimension		
	调理槽驱动器 Disposal agitator	浓缩初压段 驱动器 Thickening and initial pressing section motor	高压段驱动器 High-pressure section motor	螺旋均泥器 驱动器 Screw homogenizer motor	落泥斗搅拌 驱动器 Sludge hopper mixing motor	粉体输送 驱动器 Powder conveyor motor	改性混合机 驱动器 Modified mixer motor	L	W	H
HE4-1000	0.37	0.75	0.75	0.37	0.37	0.37	3	5510	1540	2880
HE4-1500	0.75	0.75	1.5	0.37	0.37	0.37	3	6375	2170	3000
HE4-2000	0.75	1.5	3	0.75	0.75	0.37	5.5	7250	2680	3700

## 多种出泥含水率

### Multiple mud discharge moisture contents

以市政污水污泥为例：

出料污泥含水率：80%以下

使用方式：与常规带机使用方式一致，只需加入絮凝剂（PAM）混合絮凝。

使用效果：出料污泥含水率比常规带机降低3%-5%，污泥体积减量15%-25%。

出料污泥含水率需求：65%-75%

使用方式：搭配合适的污泥改性剂使用。

使用效果：比之传统带式脱水，污泥体积减量40%以上，后端可无缝对接污泥干化设备，有效降低后端干化设备能耗。

出料污泥含水率需求：55%-65%

使用方式：搭配合适的改性剂与粉体使用。

使用效果：污泥体积减量50%以上，相比于板框压滤机减少大量人工操作，连续性出泥，可实现少人或无人值守运行。

Take municipal wastewater sludge as an example:

The moisture content of discharged sludge is stabilized at less than 80%, which meets the requirements of the majority of sewage plants: used in the same way as the conventional belt machine, it can reduce the moisture content of discharged sludge by 3-5% and sludge volume by 15-25% as compared to the conventional belt type machine, simply by adding PAM mixed flocculant.

The moisture content of discharged sludge is stabilized at 65-75%, reducing the sludge volume by more than 40% with the appropriate sludge modifier, as compared to the traditional belt filter press dewatering. The back end can be seamlessly connected to the sludge drying equipment, which effectively reduces the high energy consumption of back-end drying equipment.

The moisture content of discharged sludge can achieve 55-65% after deep dewatering, decreasing the sludge volume by more than 50% with the appropriate modifier and powder, substantially reducing manual operation as compared to the plate-and-frame type filter press, allowing for continuous sludge discharge and unattended operation.

## 应用案例

### Job reference

重庆某市政污水厂项目 A municipal sewage plant project in Chongqing



只加絮凝剂（PAM）出泥含水率77%  
比普通带机出泥含水率降低3-5%

77% moisture content of discharged sludge by adding PAM only 3-5% lower-moisture content than ordinary belt type machine



（絮凝剂）PAM+改性剂配合使用  
出泥含水率70%左右

Combined with PAM + modifier 70% moisture content of discharged sludge



如搭配污泥干化设备使用可提升干化机  
效率1.5-3倍，可使干化段节能30%-50%

1.5-3 times higher efficiency of the dryer combined with sludge drying, and enable the drying section to save 30% - 50% of energy

重庆某市政污水厂项目  
A municipal sewage plant project in Chongqing



此项目将普通带式脱水机替换为HE4高干带机后，每天污泥减量40%以上，大大降低后期处理费用。

After replacing the ordinary belt dewatering machine with the HE4 high-dry belt type dewatering machine in this project, the daily sludge volume is reduced by more than 40%, which has greatly lowered the post-treatment cost.



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