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## 城市及工业废水 机械式预处理紧凑型设备

*Municipal and Industrial Waste Water  
Mechanical Pre-treatment*



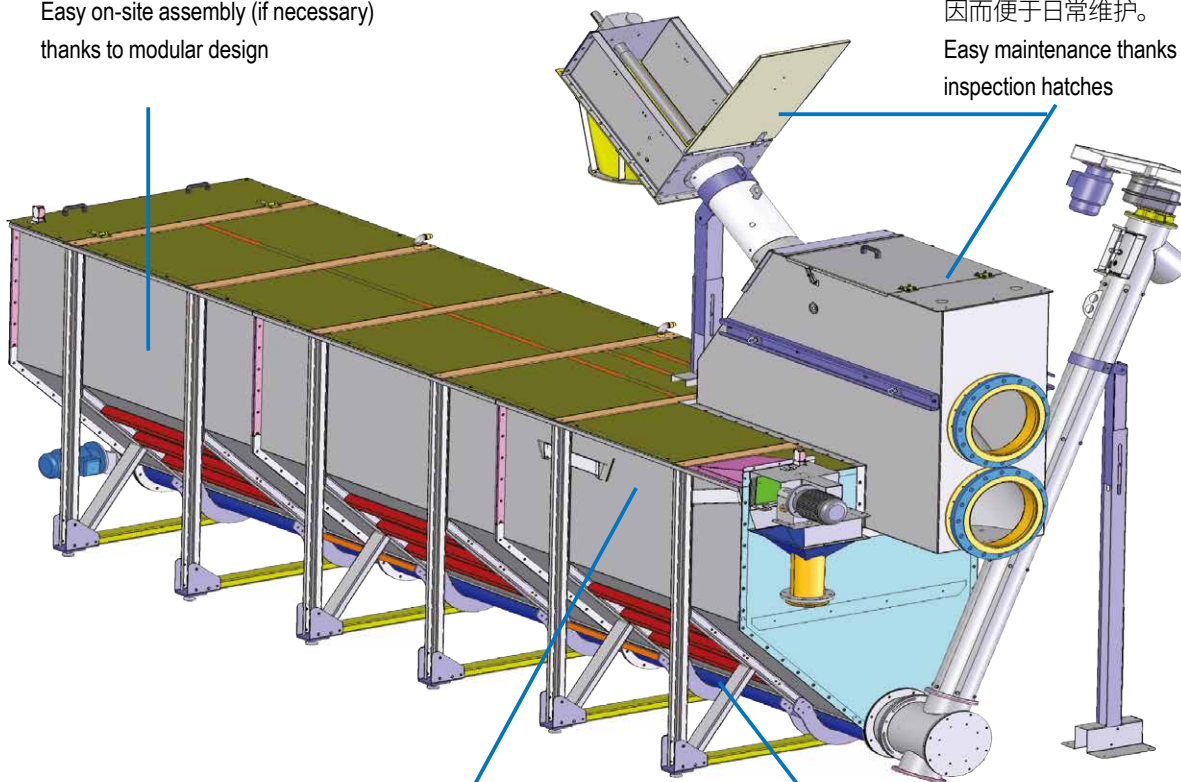
**上海海巴机械工程有限公司**  
SHANGHAI HAIBAR MECHANICAL ENGINEERING CO., LTD.



模块化设计, 便于工地现场安装  
Easy on-site assembly (if necessary)  
thanks to modular design



由于该设备配备有诸多观察窗,  
因而便于日常维护。  
Easy maintenance thanks to wide  
inspection hatches



漂浮式刮渣器, 确保各种液  
位条件下完全刮除油脂并最  
少量的带出水分。  
Self-adjusting grease scraper  
with limited water removal



螺栓固定的耐磨条  
(内槽视图)  
Bolted wear bars  
(internal view of trough)

## 城市及工业废水机械式预处理紧凑型设备

### Municipal and Industrial Waste Water Mechanical Pre-treatment HSF 2-3

HSF系列设备由一个过滤螺旋式输送机，一个底部带有螺旋式输送器的沉淀槽，一个沙子螺旋提取输送机，以及另外可配置的油脂清除系统组成。

HSF consists of a screw screen, a sedimentation tank, a sand extracting screw and an optional grease scraper.

#### 预处理阶段按照以下流程实施处理:

- 分离，脱水并压实直径超过螺旋式输送过滤器滤网的悬浮固体颗粒。
- 沙子的沉淀，提取及脱水。
- 借助空气吹入系统的协助，去除悬浮的固体颗粒及油脂（仅用于HSF3型）。
- 废水可在将来进一步的用于(化学、物理或生物),而固体排放处理。

#### The first phase in the waste water treatment process is mechanical pre-treatment including:

- Solids-liquid separation, compaction and de-watering of solids larger in size than the screen slots;
- Sedimentation, lifting and de-watering of sand;
- Grease flotation and removal (HSF 3 only).
- Subsequently the waste water is ready for further treatment (chemical, physical or biological), while solids are discharged for disposal.

## 特性/Features

HSF式紧凑型设备是专为不同的沉淀能力，和宽范围的废水处理流量而设计的。

在过滤的处理过程中，可以对过程的过滤网孔尺寸进行选择，正如对机器的长度和横截面的选择，能够确保客户获得合适的处理方案，以解决他们的问题。该小型设备被组装在一组高度工业化程序的，能保证高质量标准的模块内，并可以在需要的情况下，直接在现场完成设备组装。

滤网筛选部件（过滤螺旋式输送机）配备了能确保将体积减少约35%的提取固体的压缩系统。该设备的无轴轴螺通过创新的专利工艺制造，能确保无振动的运作，并能避免堵塞的可能。

HSF is designed for a wide range of waste water flow rates with different sedimentation capacities.

The possibility to choose the size of the screen perforation/slots, as well as cross section and length of the tank, is the assurance for the customer that he will obtain the right solution to his problem.

The machine comes in high-quality, industrially manufactured, standard modules, ready for comfortable on-site assembly if requested.

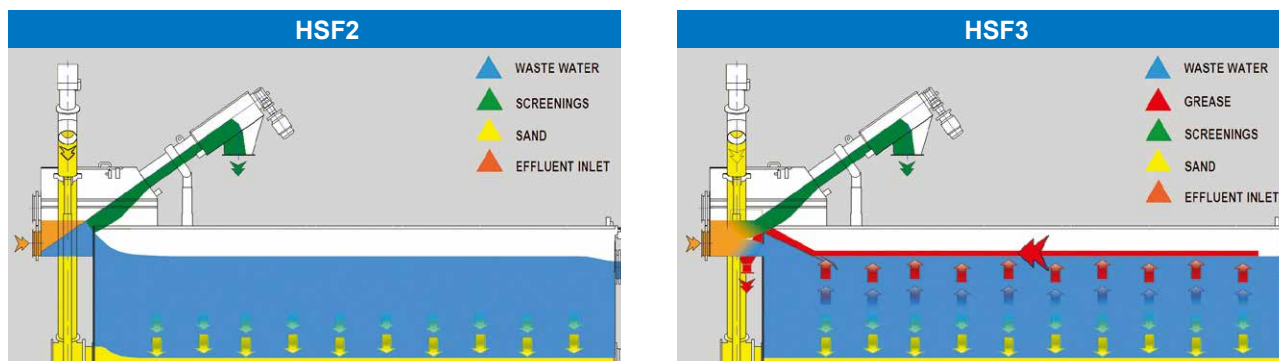
The screen section of the plant is equipped with a compacting device in the upper part for a volume reduction of the screenings of up to 35%. A washing system for the reduction of organic matter in the screenings is available on request. The shaftless screen screw, which is manufactured in an innovative, patented process, ensures smooth operation without clogging even in presence of fibres.

## 优势/Benefits

- 减少各结构的成本
- 利用标准工具，该设备可直接在工地实施组装，进而减少仓库储存成本
- 在所有同类产品中，该设备占地面积最小
- 采用超厚和耐用的无轴螺杆
- 在液体表面的完全浮动油脂刮除器，能在各种使用条件下，保证带出最少水分。

- Decreased infrastructure costs
- Easy on-site machine assembly using standard tools. Reduction of intermediate storage costs;
- Best footprint-net volume ratio for this type of machine
- durable heavy-duty shaftless screws
- Self-adjusting scraper device. Limited water removal in any flow condition.

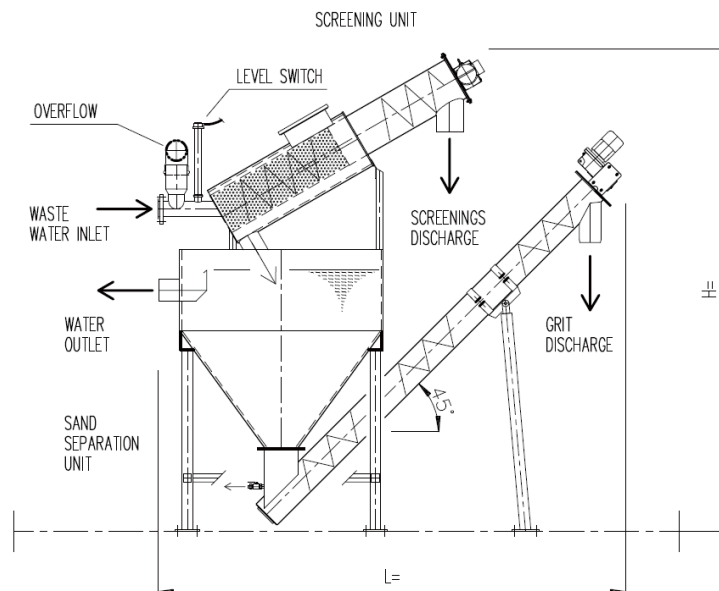
## 过程说明 *Process Description*



## HSF1 系列格栅/洗砂预处理一体机

HSF1 Series Screening / Sand Separation Unit Type

### 外型尺寸/Overall Dimens

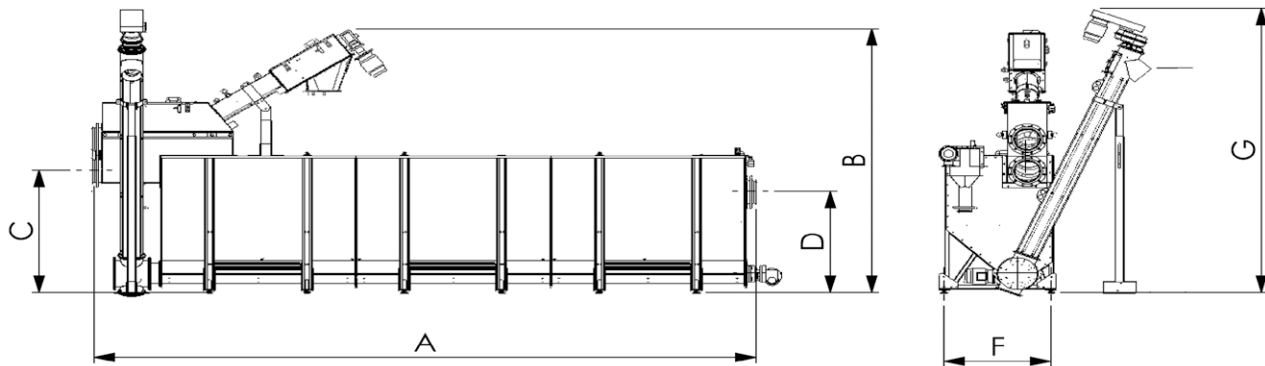


TYPE	长度Length L/mm	宽度Width W/mm	高度Height H/mm	重量Weight kg	容量Capacity m <sup>3</sup> /h
HSF1 300/d/500P & 20M	3000	1000	2900	475	20
HSF1 300/d/750P & 30M	3350	1250	3200	625	30
HSF1 300/d/1000P & 50M	3550	1500	3570	800	50
HSF1 400/d/1000P & 80M	4300	2000	4000	950	80
HSF1 400/d/1250P & 120M	4600	2450	4480	1150	120

## HSF 2-3 系列格栅/洗砂预处理一体机

HSF 2-3 Series Screening / Sand Separation Unit Type

### 外型尺寸/Overall Dimensions



TYPE	A mm	B mm	C mm	D mm	F mm	G mm
HSF 10	2850	3350	1550	1280	1100	3610
HSF 20	4850	3350	1550	1280	1100	3610
HSF M 10	4830	4000	1780	1460	1420	3900
HSF M 20	6830	4000	1780	1460	1420	3900
HSF M 30	8830	4000	1780	1460	1420	3900
HSF L 10	8820	4630	2310	1750	1940	4270
HSF L 20	10820	4630	2310	1750	1940	4270
HSF L 30	12820	4630	2310	1750	1940	4270
HSF L 40	12820	4630	2310	1750	1940	4270

### 技术参数/Technical Data

HSF 2-3			流量 Flow Rate*	
尺寸 Size	组件 Module	箱体长度 Tank length(m)	Min (l/s)	Max (l/s)
S10	1	2	5	13
S20	2	4	12	30
M10	2	4	25	39
M20	3	6	35	60
M30	4	8	60	85
L10	4	8	80	115
L20	5	10	110	145
L30	6	12	140	175
L40	7	14	170	205

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