

全新升级
洗砂革命
NEW UPGRADE

QUALITY ASSURANCE
GOOD SERVICE

EXPORT STANDARD
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LZS水涡漩洗砂机

LZS VORTEX SAND WASHER



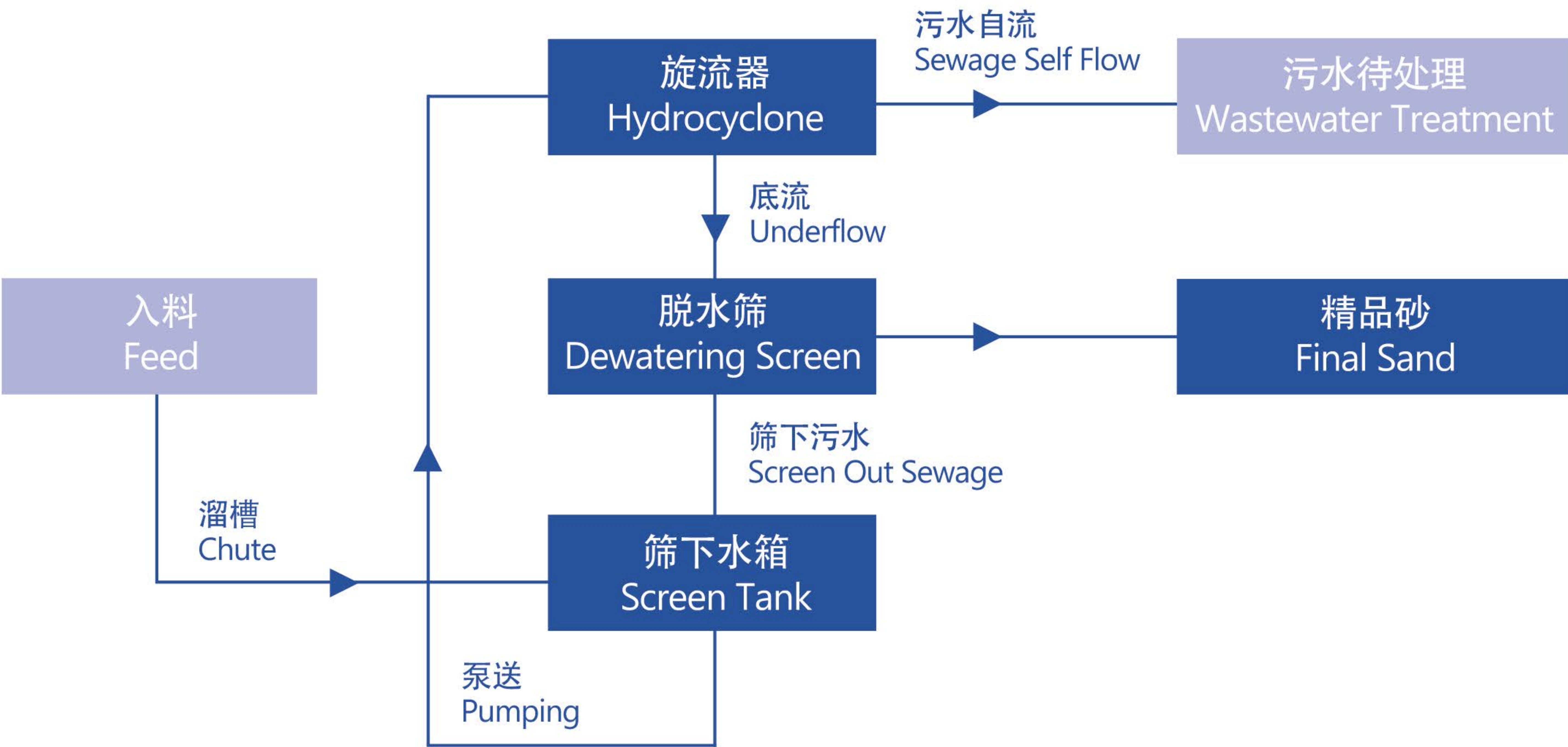


应用范围 / Application Scope

LZS水涡旋洗砂机专为砂石洗选设计。该设备还可用于清洗多种原料，包括：混凝土、碎石、石灰石、沥青、压裂砂、硅砂、矿物砂、石油砂、铝土矿/氧化铝、炉渣。

LZS vortex sand washers are designed for sand and aggregate washing. They can also be used to wash a range of feed materials such as: Concrete、Gravel、Frac Sand、Silica Sand、Mineral Sands、Oil Sands、Bauxite / Alumina、Slag.

工作流程 / Workflow



混合物料经溜槽进入筛下水箱，然后通过泵送进入旋流器。在离心力的作用下对物料进行清洗、控水，达到泥砂分离效果。旋流器底流物料进入直线筛粗砂脱水区进行脱水；而溢流物料通过返水管至水箱进行循环清洗和对水箱的补水，从而实现高效洗砂。

The mixed material enters the screen underflow tank through a chute, and then is pumped into the cyclone. Under the action of centrifugal force, the material is cleaned and dewatered to achieve mud-sand separation. The underflow material of the cyclone enters the coarse sand dewatering zone of the linear screen for dewatering; while the overflow material enters the water tank through the return pipe for circulating cleaning and replenishing of the water tank, thus achieving efficient sand washing.

技术参数 / Tech Specifications

型号 Model	处理量 Capacity (t/h)	脱水装置 Dewatering Unit	旋流器装置 Cyclone Unit	设备总功率 Power (Kw)	外形尺寸 Overall Size (mm)
LZS660	80-100	TS1536	FX660	43.4	7690*3915*6695

产品简介 / Product Introduction

LZS水涡旋洗砂机集分离器和脱水筛于一体。在应用过程中，旋流器装置可去除砂中的粘土、淤泥和污泥，使其符合工艺要求；脱水筛则可生产出含水量低的砂料，便于输送或堆存。LZS水涡旋洗砂机采用优化工艺，可生产出更优质、含水率极低且细粒含量更低的砂料。

LZS Vortex Sand Washer combines cyclones and dewatering screen. When it comes to application, the cyclone remove clays, silts and slime from sand and bring it into demands, the dewatering screen enables low moisture product for conveying or stockpiling. LZS Vortex Sand Washer has an optimised process that produces a drier, higher-quality product with less fines.

结构概况 / Structural Overview >>>

定制旋流器部件，提高回收率。
可更换独立弯头，陶瓷耐磨内衬。
10mm橡胶内衬底流收集盒
Custom cyclone options for enhanced recovery.
Replaceable independent elbows with ceramic wear-resistant linings.
10 mm rubber-lined underflow collection box.

一体式安装结构/
格栅式走道踏步/
完全拼接式护栏。
One-piece installation structure.
Grille walkway steps.
Fully integrated guardrail.

大通道渣浆泵，
采用橡胶内衬，
延长使用寿命。
Large channel slurry pump
with rubber lined, increases
the operational life.

水箱内部做入料缓冲箱，
可减少湍流以确保一致且均匀的流动。
装配10mm大颗粒保护网，保护渣浆泵免受损坏。
Inlet buffer tank reduces turbulence to
ensure consistent and uniform flow.
Equipped with 10mm coarse particle
protection mesh to prevent slurry pump damage.

采用圆法兰对接，便于安装。
可更换入料管，入料管直径 $\geq 300\text{mm}$ 。
水箱外部入料管材质为橡胶，内部为碳钢。
Replaceable feed pipe,
Diameter $\geq 300\text{mm}$.
Round flange connection
for easy installation.
External material: rubber
Internal material: carbon steel.

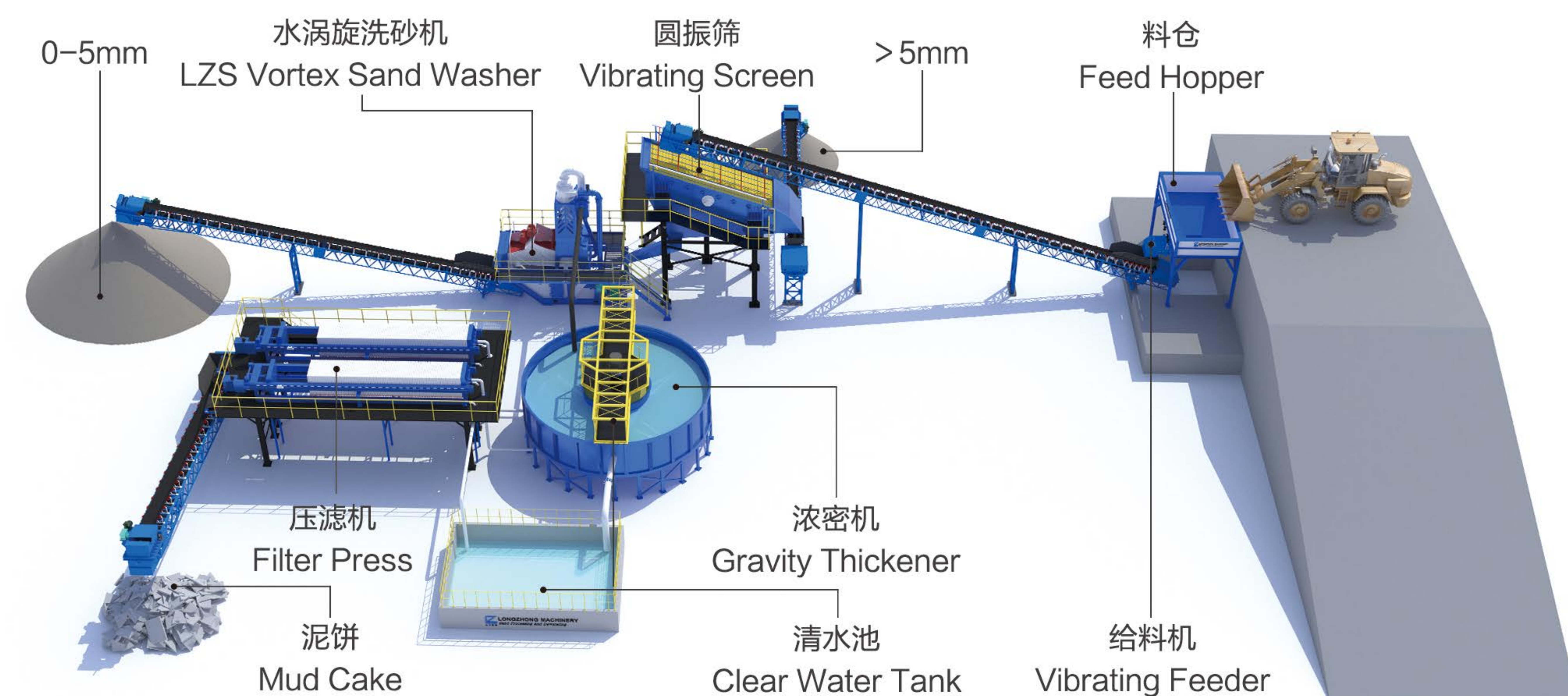
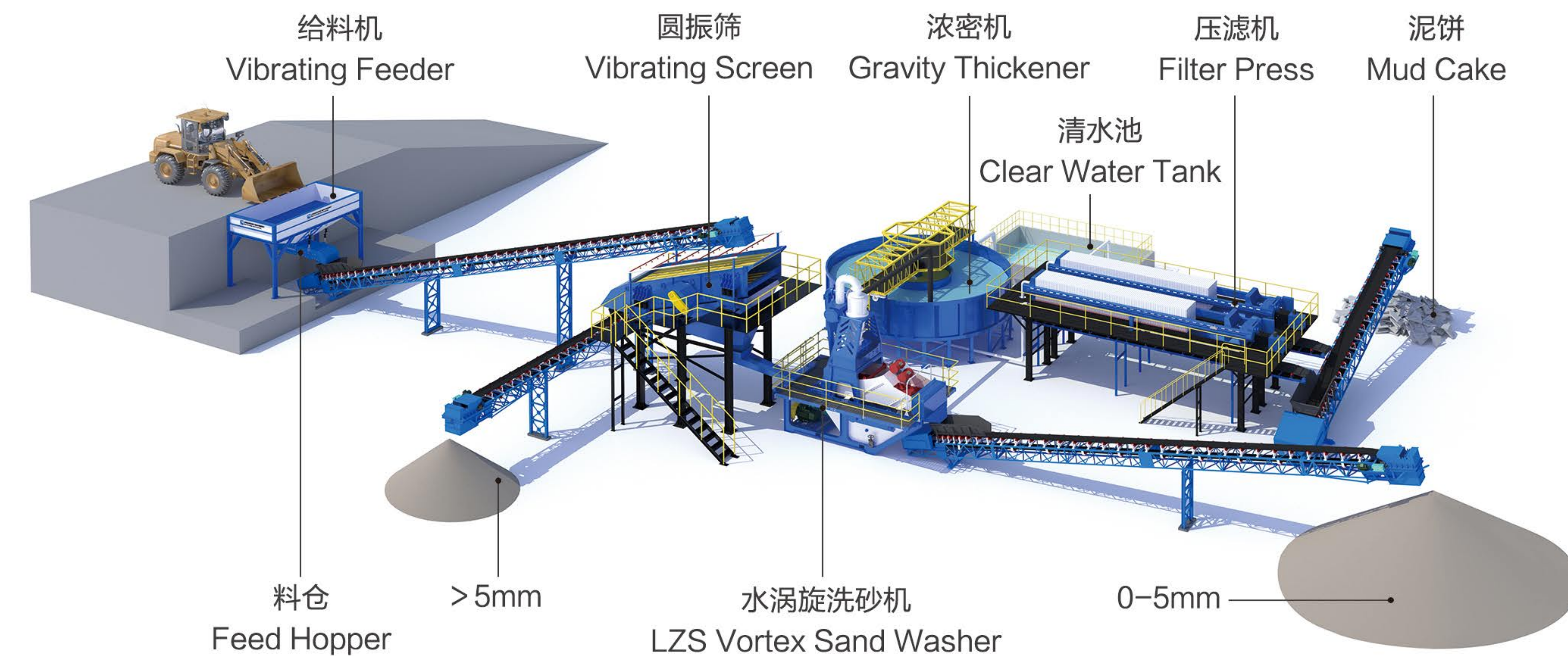
脱水筛配备0.5mm聚氨酯筛板。
Dewatering screen equipped
with 0.5mm aperture
polyurethane screen plate.

整机结构简单，底框可使用叉车装运。
Simple overall structure, base frame
compatible with forklift transportation.

脱水筛水箱内置浮子系统，有效控制液位。
Built-in float system that effectively
controls the liquid level.

脱水筛出料口内衬耐磨板。
Wear-resistant plate lining
installed at the discharge outlet.

新型洗砂工艺流程 / New Sand Washing Process Flow >>>



01
STEP

原料由料仓通过皮带机送至圆振筛，在筛上喷淋系统的冲洗下进行清洗、筛分，筛选出不同规格物料分别进行堆放。
Raw materials are conveyed from the storage bin to the circular vibrating screen via a belt conveyor. Under the washing action of the overhead spray system, the materials are cleaned and screened into graded stockpiles.

02
STEP

筛下砂浆则泵送至水涡旋洗砂机中，通过一番清洗浓缩后，经脱水筛脱水，获得成品砂。
Screen undersize slurry is pumped to vortex sand washer for washing and concentration, followed by dewatering through high-frequency dewatering screen to produce finished sand.

03
STEP

而生产环节产生的污水，则经污水中转池被泵送至浓密机进行浓缩分离，浓缩后的污泥被压滤机进一步挤压脱水。形成泥饼，排出的清水则循环使用。
Process wastewater is transferred through intermediate sumps to thickeners for solid-liquid separation. Concentrated sludge undergoes mechanical dewatering via filter presses to form disposable filter cakes, while clarified water is recycled through closed-loop systems.