

SS系列细砂回收系统

SS Series Fine Sand Collecting System

一. 简介

The Brief Introduction

目前现有的人工砂生产线，绝大部分采用湿法生产工艺，不论采用何种型式的洗砂机，其最大的缺点是细砂（0.16mm以下颗粒）流失严重，有的甚至流失20%以上，这不但损失产量，而且还严重影响砂子的级配，造成级配不合理，细度模数偏粗，大大降低了机

The currently existing manufactured sand Production line mostly utilizes a wet production technology, and regardless of adopting any style of the sand washer, has the biggest weakness that the fine sand ($\leq 0.16\text{mm}$) runs off seriously, some even above 20%, which not only decrease the capacity, but also seriously influence th

三. 特点及优势 Features and Advantages

1、传统人工砂湿法加工工艺中，人工砂的洗泥、脱水...
砂机，人工砂中细砂的流失几乎不能控...
砂回收装置，可以有效降低细砂的流失...
在5~10%之内。很好地解决了人工骨料...
出现的成品砂细度模数偏高、石粉含量偏...
er is utilized to wash, mud and dewater of the...
sand in the traditional wet processing technology,
manufactured sand losses (especially the fines) almost
controlled. However, Utilizing the SS Series Fines
it can effectively reduce the fines loss , controlling
of 5 10% and successfully solves the problems,
to the fineness module of finished sand being
n while the fine content be low in aggregate
tem.

采用聚氨酯筛网，聚氨酯筛网较其它类型...
更长，且不易堵孔。
y screen adopts polyurethane mesh, which compared
es, has longer life and uneasy to be blocked.

3、旋流器内衬聚氨酯，提高了整个装置的使用寿命...
可顺利完成料浆浓缩、液体澄清等工作。

The cyclone is lined with polyurethane, which lengthens the whole device service life and can smoothly finished the work of condensing slime and clearing the liquid etc.

4、可回收排放总量中85%的细颗粒物料，具有其他设备无可比拟的技术和经济优势。

The maximum recovering quantity of fine particle materials from the total discharge amount is 85%, so it has unsurpassed technology and economic advantages compared with other equipments.

5、细颗粒得到充分回收，减少了沉淀池的工作量，降低了沉淀池的清理成本；

The fines is recovered sufficiently, which reduces the sedimentation basin workload and lowers its disposal cost.

6、减少了细料自然堆放时间，可直接转运、供应市场。

Lessening natural stock time of the fine sand and able to transfer them directly and supply the market.

7、可根据用户的不同要求，设计相应的解决方案。

We can design corresponding solutions according to our customers' different requirements.

采用螺旋洗...
制。采用该...
量，使其控制...
加工系统中...
低的难题。

The sand was...
manufactured...
but the manu...
can not be co...
Recovery Pla...
it in the scop...
which refers...
partially hig...
processing sy

2、振动筛...
筛网寿命更...
The vibratin...
with other or

技术参数 Technical Data

型号 Model	泵 Pump		旋流器 规格 Cyclone (mm)	脱水筛 Vibrating screen			处理量 Capacity(m³/h)	重量 Weight (t)	外形尺寸 Dimensions (LxWxH) (mm)
	功率 Power(kw)	尺寸 Size(inch)		型号 Model	面积 Deck Size(m²)	功率 Power (kw)			
SS-06	7.5	2"	300	0.6x1.85	0.9	2x0.75	10-40	2.90	3590x1342x2561
SS-08	15	3"	300	0.8x2.25	1.8	2x1.5	40-80	3.70	4565x1402x2947
SS-10	18.5	4"	350	1.0x2.25	2.25	2x1.5	70-120	4.60	4636x1582x3332
SS-12	37	5"	550	1.2x3.0	3.6	2x2.2	100-200	7.10	6009x2014x3820
SS-14	37	6"	750	1.4x3.0	4.2	2x3.0	180-343	8.31	6013x2042x4300
SS-14II	45	6"	750	1.4x3.0	4.2	2x5.5	230-420	8.95	6659x2042x4202
SS-16	55	10"	2x650	1.8x3.75	6.0	2x5.5	300-500	16.70	7384x2350x4860
SS-18	75	10"	2x750	1.8x3.75	6.75	2x7.5	350-800	19.70	7780x2545x4800

注：最大进料粒度≤5mm Note: Max Feed Size ≤5mm

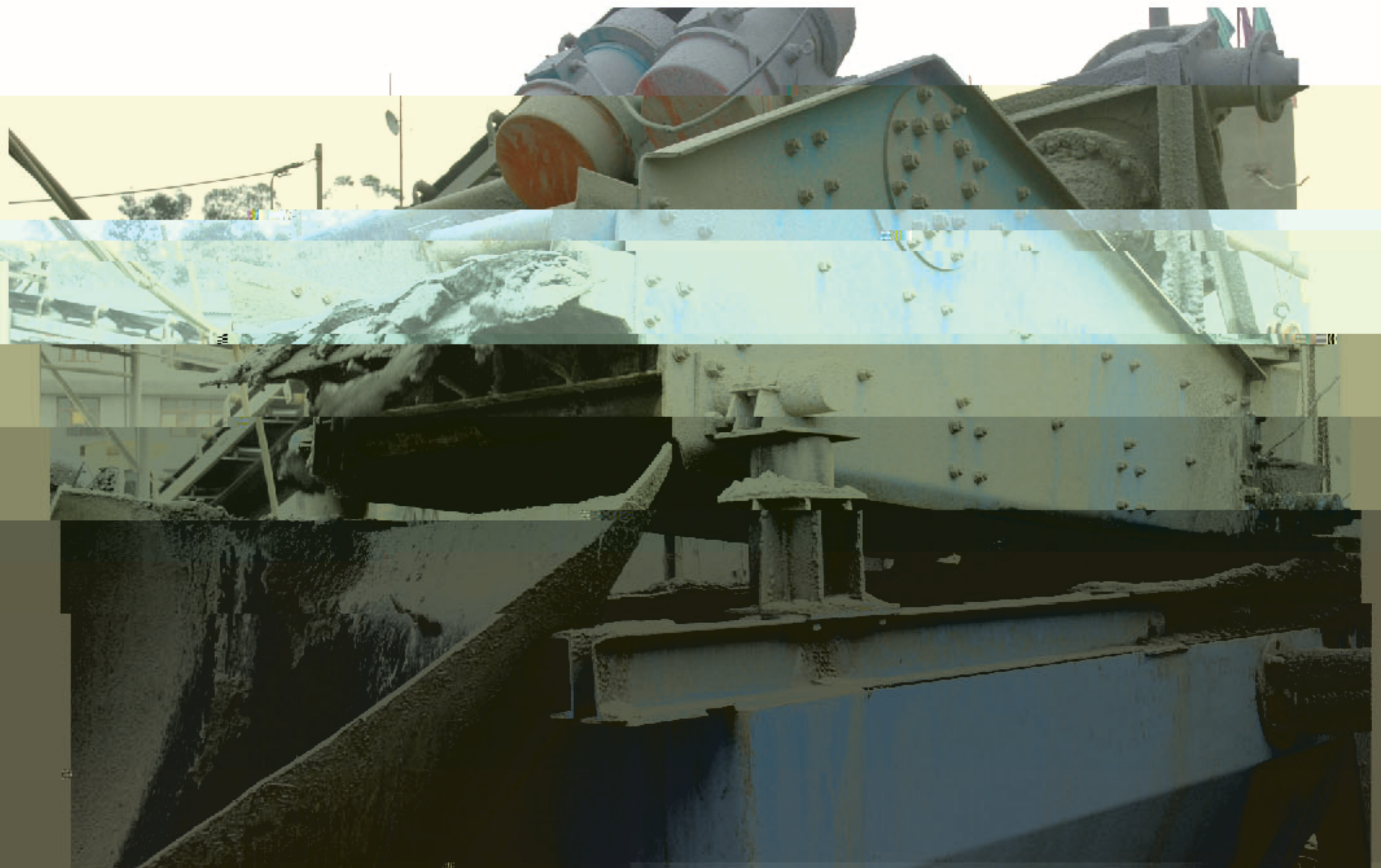
四. 技 Te

型号 Model
SS-06
SS-08
SS-10
SS-12
SS-14
SS-14II
SS-16
SS-18

五: 成功案例 Project Example

◆ 成都彭州砂厂，原采用一台螺旋洗砂机清洗机制砂，所生产的机制砂细度模数偏粗，主要原因是在洗砂过程中，细砂及石粉流失严重，原螺旋洗砂机排出的废水为100T/小时左右，细砂含量约为15-20%，螺旋洗砂机排出的清洗水直接进入沉淀池，因清洗水中细砂含量大，沉淀池很容易淤塞，为解决上述问题，该厂于2006年购置了一台型号为SS-10-350的细砂回收系统，对洗砂机的排放水进行预处理，回收清洗水中的细砂及石粉。采用细砂回收系统后，洗砂机排放水经细砂回收系统清洗槽-渣浆泵-旋流器（浓缩、分级浓度约为55-65%）-直线振动筛（脱水、脱泥）-成品细砂-胶带输送机-成品料堆，每小时可回收细砂14吨左右。

Chengdu Pengzhou Quarry Co., Ltd. formerly utilized one set of screw sand washer to clean manufactured sand and produced the manufactured sand with fineness module being partially thick. The main reason is that the fines run off seriously in the sand washing process. The fine content is about 15-20%, and the waste water discharged by the screw sand washer is about 100t/h, which directly enters the sedimentation basin, because of the large amount of fine sand, the sedimentation basin can be blocked easily. In order to solve the above problems, they bought one set of SS-10-350 Fines Recovery Plant in 2006 to pre-dispose exhausted water from the sand washer and recover the fines in the waste water. After using this Plant, they can recover 14t/h fine sand from the waste water discharged by the sand washer through the fines recovery plant with the process rinse tank--slurry pump--cyclone (the density of concentration and classification is 55-65%)--linear vibrating screen (hydrate water and slime)-- finished fine sand-- belt conveyor--finished products stock.



◆ 该细砂回收系统成功运行后,不仅大大改善了机制砂成品质量,而且提高了生产线中机制砂的产量,创造了可观的经济效益,客户非常满意。

◆ 现场数据表明,该细砂回收系统各项技术指标达到设计要求,使用效果超过客户的预期。

After the fines recovery plant operates successfully, it not only greatly improves the manufactured sand quality, but also raises the manufactured sand yield in the production line, brings considerable economic profit and satisfies our customer very well.

The data from the site show that all technical data of the fines recovery plant comes up to the design requirements and the operation effects are beyond customers' expectation.



六. 经济效益分析

Economic Benefit Analysis

◆ 螺旋洗砂机排出的废水中细砂含量约为15%左右(15吨/小时),经细砂回收系统处理后,由细砂回收系统排放的废水中石粉含量不到3%,细砂回收效率达到83%(15吨/小时 \times 83%=12.45吨/小时)。

The fine sand content is about 15% (15t/h) in the waste water exhausted from the screw sand washer. But after disposed by the Fines Recovery Plant, the fine content is less than 3% and its recovery ratio comes up to 83%(15t/h \times 83%=12.45t/h).

◆ 生产线每天按工作八小时计算: 12.45吨/小时 \times 8小时=99.6吨/天;

Calculating according to the working time for eight hours everyday:12.45t/h \times 8h=99.6t/day.

◆ 一年按工作260天计算: 99.6吨/天 \times 260天=25896吨/年;

Calculating by 260 working days a year: 99.6t/day \times 260days=25896t/year;

◆ 成品砂按35元/吨计算: 25896吨 \times 35元/吨=90.636万元;

The price of the sand is ¥35 per ton: 25896t \times ¥35/t=¥906,360

◆ 除去设备运行和维护费用约10万元/年,一年增加约80万元收益。

You can increase the profit by ¥800,000 every year after subtracting ¥100,000/year of the operation and maintenance cost.

◆ 同时,细砂得到充分回收,减少了沉淀池的工作量,降低了沉淀池的清理成本。

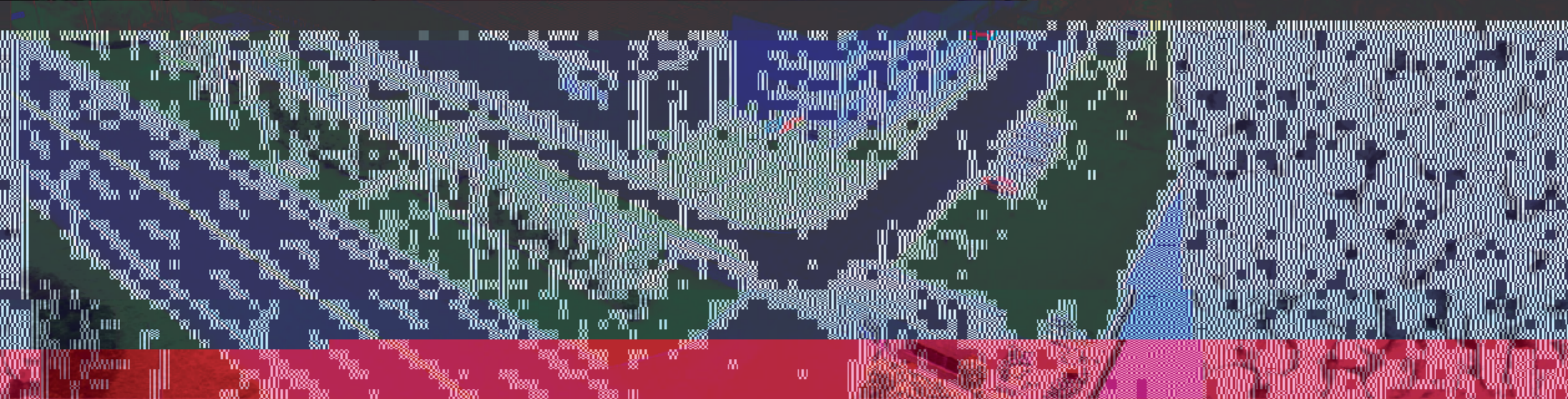
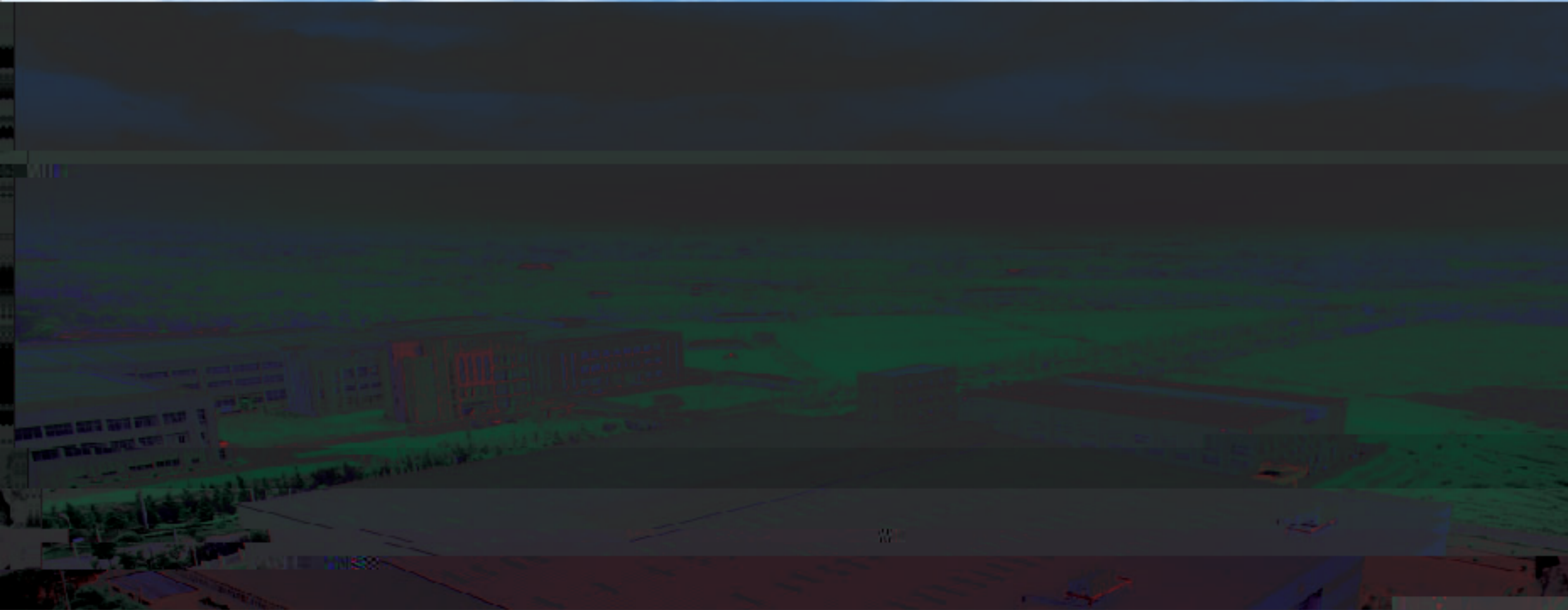
Meanwhile, the fine sand is recovered sufficiently, which reduces the sedimentation basin workload and lowers its disposal cost.

可回收排放总量中85%的细颗粒物料，
具有其他设备无可比拟的技术和经济优势！

The maximum recovering ratio of fine particle from the total discharge amount is 85%, so it has unsurpassed technology and economic advantages compared with other equipments.

细砂回收系统 **集砂成金!**





上海山美环保装备股份有限公司

SHANGHAI SANME MINING MACHINERY CORP., LTD.

(中德合资控股)

(Sino-German JV Holding)

地址：上海市奉贤区青村镇奉村路 258 号

邮编：201414

电话：021-5759 1166 5759 1188

传真：021-5756 6188 5820 0089

网址：www.shsmzj.com

电邮：info@sanmecorp.com

Add: No.258, Fengcun Road, Qingcun County, Fengxian District, Shanghai 201414, China

Tel: +86-21-5712 1166 5759 1188

Fax: +86-21-5756 6188 5820 0089

Website: www.sanmecrusher.com

E-mail: sales@sanmecorp.com

免费热线：400-921-5566

售后专线：021-5712 7766

Free Hotline: 400-921-5566

Service Center: +86-21-5712 7766



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