

以C30混凝土标准为例 每立方米
In C30 concrete standard, for example, per cubic metre

水泥用量338kg 成本101.4元;
Cement dosage of 338kg cost 101.4 yuan

石子用量1045kg 成本36.23元;
stones dosage of 1045kg cost 36.23 yuan

砂子用量757kg 成本35.33元;
sand dosage of 757kg cost 35.33 yuan

减水剂用量6.35kg 成本13.34元;
water reducer dosage of 6.35kg cost 13.34 yuan

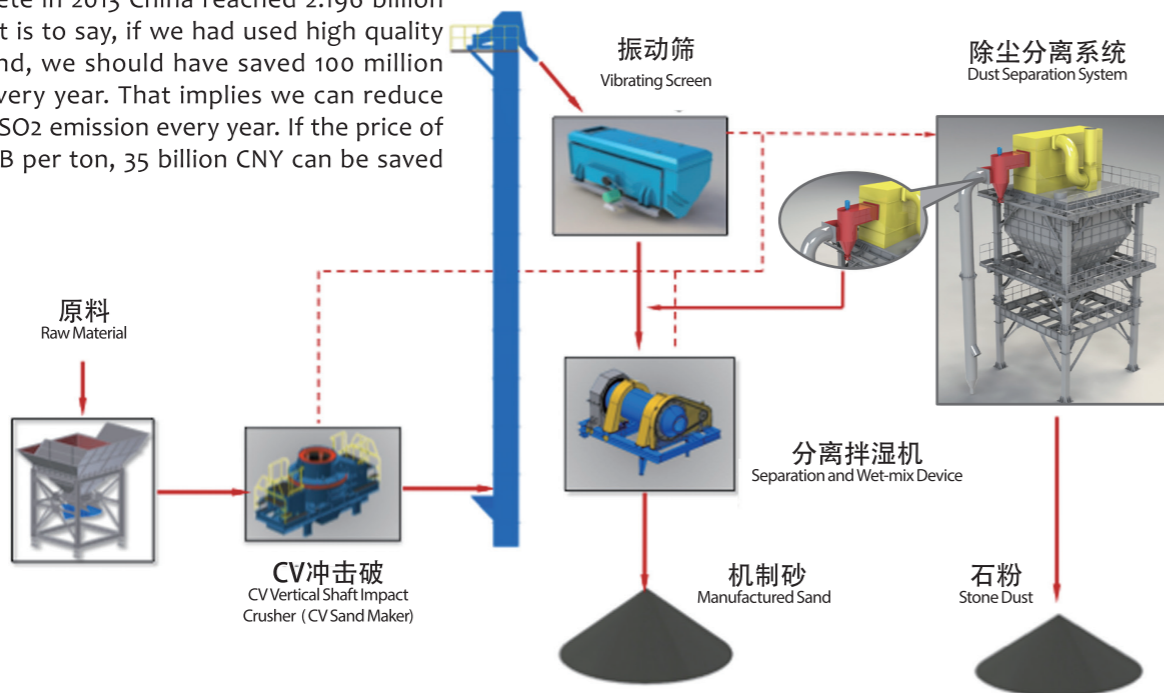
粉煤灰用量60kg 成本5.4元;
flyash dosage of 60kg cost 5.4 yuan

合计金额191.7元
Total amount of 191.7 yuan

使用高品质机制砂可使单方混凝土降低50公斤以上的水泥用量, 据不完全统计, 2013年我国混凝土生产量达到21.96亿立方米, 如全部使用高品质机制砂每年可节约水泥1亿吨, 一亿吨的概念是每年减少SO₂气体排放8000万吨, 以水泥350元/吨计算, 则全年节约350亿元。

Using high quality manufactured sand can decrease the cement content of per cubic meter by more than 50 kg. According to incomplete statistics, the production capacity of concrete in 2013 China reached 2.196 billion cubic meters. That is to say, if we had used high quality manufactured sand, we should have saved 100 million tons of cement every year. That implies we can reduce 80 million tons of SO₂ emission every year. If the price of cement is 350 RMB per ton, 35 billion CNY can be saved every year.

项目 Model	SSF50	SSF70	SSF90	
进料粒径(mm) Feed size	<40	<40	<40	
进料水分含量 Moisture content	<3%			
进料泥土含量 Clay content	<1%			
原料种类 Material	非风化的各种软、硬岩石, 抗压强度值80~300MPa Unweathered soft or hard rock (80-300MPa)			
最大生产能力(t/h) Capacity	40-60	60-80	80-110	
细度模数 Fineness modulus	2.3~3.0可调(Adjustable)			
石粉含量 Powder content	3~15%			
针、片状颗粒含量 Fraction of elongated flake	<8%			
主要设备 Main Equipment	粒形机 Grain shaping machine	CV30	CV33	CV43
	模控筛 Mode control screen	EVT0515	EVT0620	EVT0720
	拌湿机 Moistened machine	MTM315	MTM315	MTM394
	除尘器 Dust control system	DC160	DC200	DC250
	提升机 Elevator	NE100	NE150	NE200
电控 Control box	计算机中央控制系统 Computer central control system			
装机功率(kW) Power	317	440	594	



SSF series high quality sand making system

SSF系列高品质机制砂系统



SSF|2017-08|1000

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SSF

沙子，是混凝土建筑物不可缺少的骨料。据认为，过去被大量开采的天然砂目前已经面临枯竭的危机，在不远的将来，水泥混凝土将100%使用加工的碎石和碎砂，对此，直接关系到混凝土性能的碎石和碎砂的质量已经成为不容忽视的问题。为了迅速应对这种现状，面向未来，一帆公司在一直致力于解决碎砂领域存在的问题，着手研究开发新技术，并成功的制造了满足时代需求的生产设备，这就是SSF制砂成套设备。

Sand is an indispensable aggregate for concrete building construction. According to relevant data, natural sand that used to be exploited excessively is confronted with exhaustion crisis at present. In the near future, artificial macadam and sand will become the raw materials of cement concrete completely. Therefore, the quality of artificial macadam and sand has become an inevitable problem since it is closely related to concrete performance. In order to respond to this situation as quickly as possible, YIFAN Machinery has always committed to solving the existing problems of crushed sand field and developing new technology. We have successfully produced sand production equipment that can meet the requirements of times, namely SSF complete sand making equipment.



传统砂的弊端:

- 级配不合理;
- 含粉、含泥量过高;
- 粒型呈扁平、长条状;

Disadvantages of traditional sand:

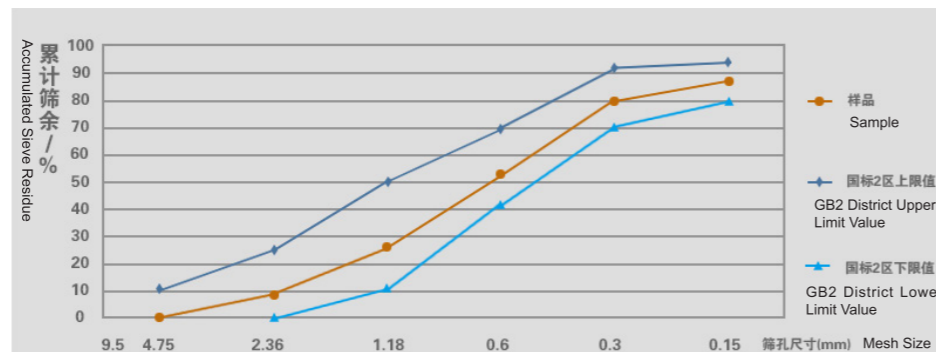
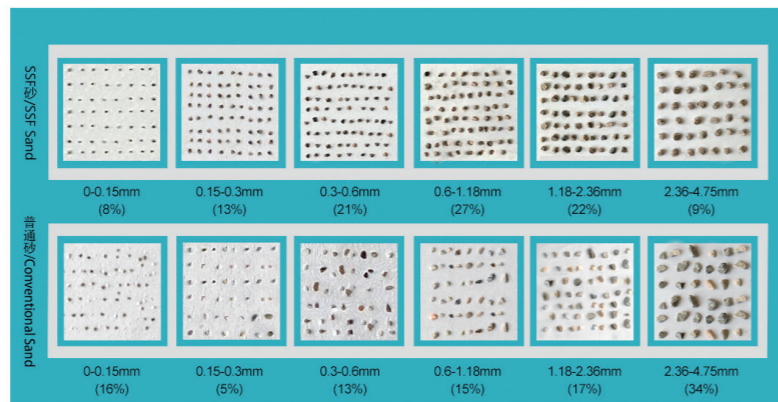
- Unreasonable grading batching;
- Excessive powder and mud content;
- Flat and strip granule shape;

优质机制砂的特点:

- 粒型圆润;
- 级配合理;
- 含粉可控;

Characteristics of high quality manufactured sand:

- Rounded granule shape;
- Reasonable grading batching;
- Controllable powder content;



制砂楼主要部件介绍

Main Components Introduction of Sand Making Optimization System

筛分系统 Screening System

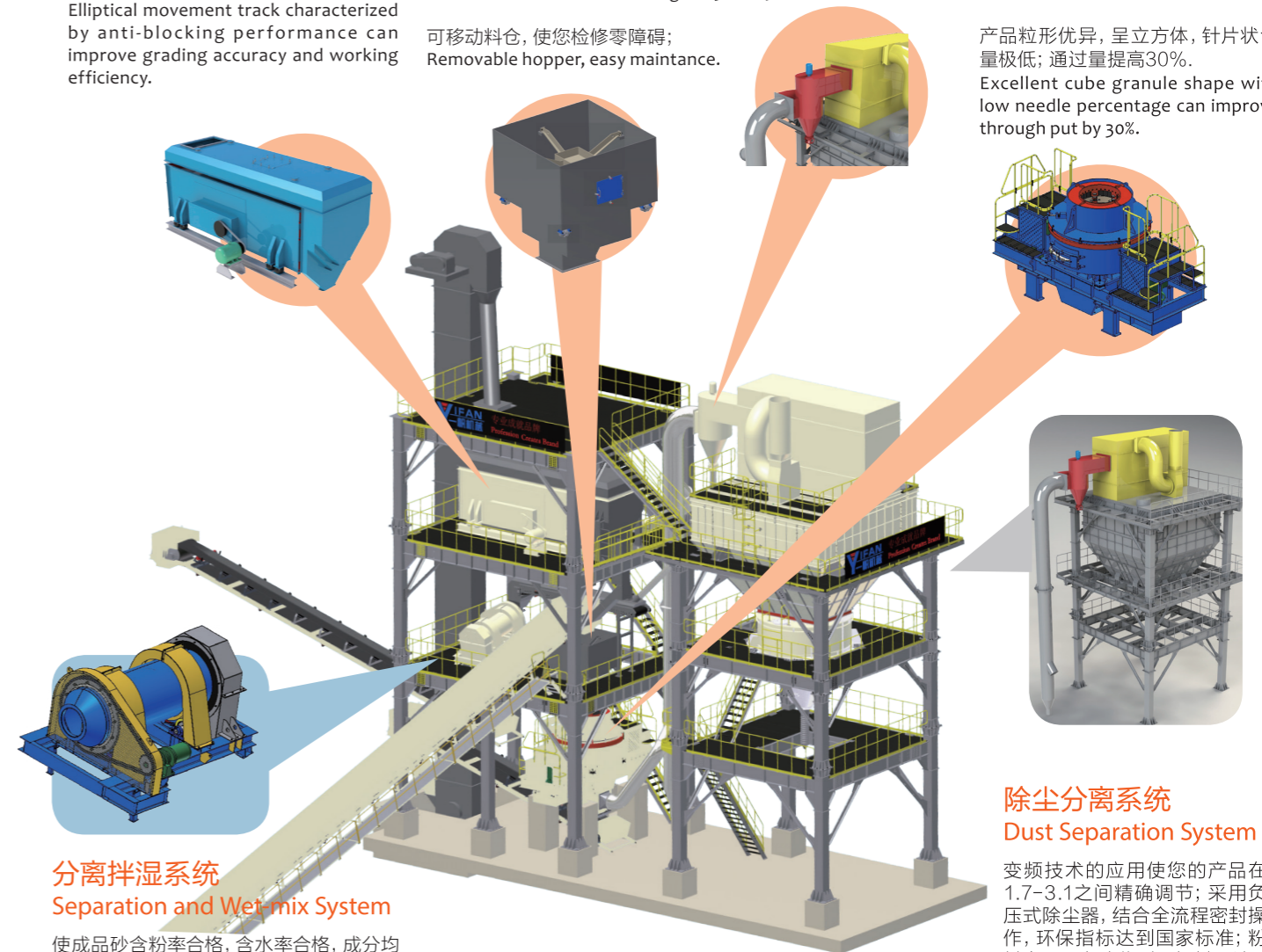
椭圆运动轨迹，具有防堵特性，分级更精确，效率更高。
Elliptical movement track characterized by anti-blocking performance can improve grading accuracy and working efficiency.

干法除粉技术，可使成品砂中的含粉量(0-0.15mm)保持稳定，并在3-15%间可调控。

Thanks to the use of the dry-process powder-separating technology, the filler(0 to 0.15mm in size) content in the manufactured sand is stable and controllable within the range of 3% to 15%.

可移动料仓，使您检修零障碍；
Removable hopper, easy maintenance.

产品粒形优异，呈立方体，针片含量极低；通过量提高30%。
Excellent cube granule shape with low needle percentage can improve through put by 30%.



分离拌湿系统 Separation and Wet-mix System

使成品砂含粉率合格，含水率合格，成分均匀，不易离析；
Make finished sand containing flour and moisture rate qualified, ingredients evenly, no easy to disintegrate;

监控系统 Monitoring System

全方位在线实时监测设备生产状态，并进行安全连锁管理。如果出现异常工况，可准确提示设备故障点提醒工作人员进行定位查看与检修，实现准确故障定位排查。
Implementing comprehensive online real-time monitoring on equipment production status, and security chain management. If an exception condition occurs, the device can accurately point out failure items and alert staff to carry out locating check and maintenance, realizes accurate fault location investigation.



除尘分离系统 Dust Separation System

变频技术的应用使您的产品在1.7-3.1之间精确调节；采用负压式除尘器，结合全流程密封操作，环保指标达到国家标准；粉料仓采用自动监测和卸料设计，操作简便，极大降低了工人劳动强度。

The application of frequency conversion technology can adjust your products from 1.7 to 3.1 accurately. The combination of negative pressure dust remover and complete sealed operation make environmental protection index conform to national standards. Filler silo adopts automatic monitoring and discharging design, which has convenient operation and can reduce labor intensity greatly.