SSP-6200

MOBILE HORIZONTAL SCREENING PLANT

Precise horizontal screening for sticky and damp materials

220-400 t/h
Machine processing capacity

100 mm
Maximum feed size

3 decks
Up to four fractions

01 / PRODUCT OVERVIEW

Precise screening under difficult feed conditions

A high-capacity mobile screening platform combining horizontal three-deck separation, tracked mobility and four integrated conveyors.

The SSP-6200 is a crawler-mounted horizontal screening plant engineered for high-volume aggregate classification, wet or sticky ore pre-screening, construction-waste recycling and multi-stage mobile crushing lines. Its 6200 x 1930 mm three-deck screen can separate material into up to four size fractions, while the horizontal motion, extended residence time and integrated conveyors support precise separation under difficult feed conditions.

300-500 t/h

Rated feed and screen capacity

220-400 t/h

Complete-machine capacity

35 t

Complete machine weight

6200 x 1930 mm

Horizontal screen size

Designed for precise high-volume classification

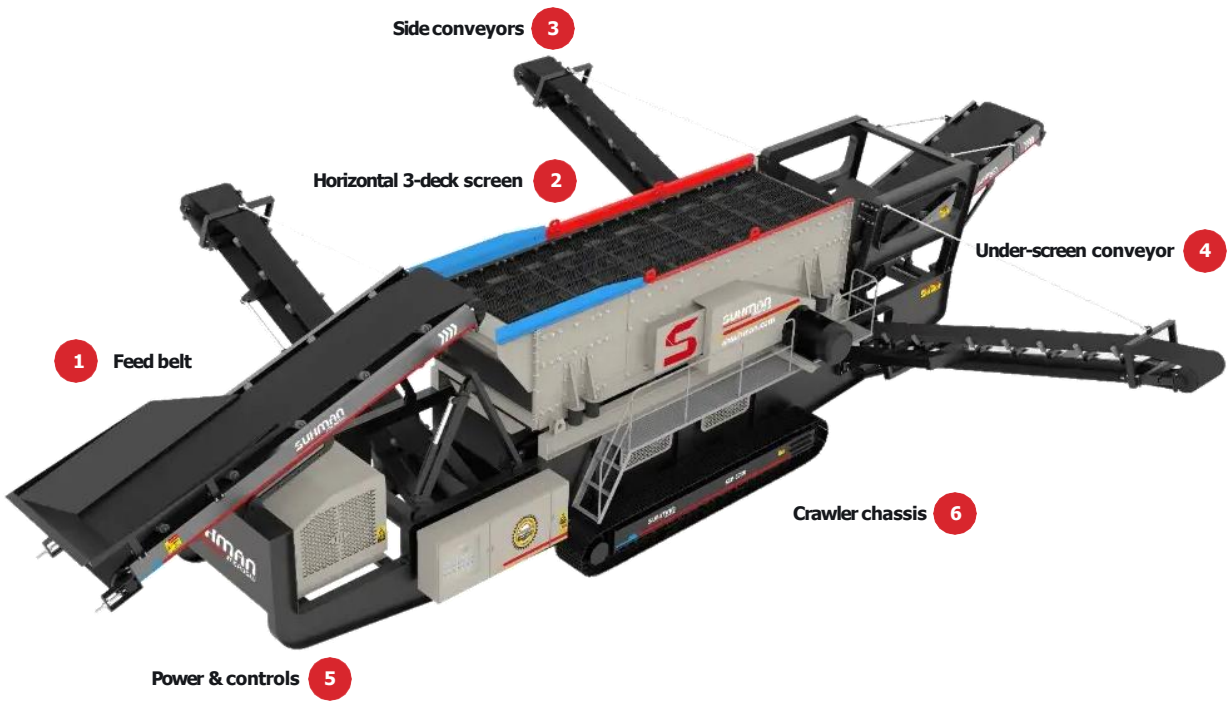
- Wet and sticky ore pre-screening
- Quarry aggregate classification
- Construction-waste recycling
- Mobile crushing-screening circuits

Actual capacity depends on feed grading, moisture, screen aperture, material shape, deck loading and operating practice.

02 / SYSTEM ARCHITECTURE

Integrated horizontal screening platform

Material is received, distributed, classified and discharged through one under-screen belt and three side conveyors.



1	Controlled material delivery	2	Horizontal size classification
3	Side product discharge	4	Under-screen fines discharge
5	Power and operating control	6	Tracked mobility

03 / WORKING PRINCIPLE

Retain, stratify and separate

Horizontal multi-deck screening extends material residence time and combines adjustable vibration with selected apertures for precise separation.

01

FEED

The feed belt delivers material evenly across the horizontal screen width.

02

RETENTION

Horizontal motion extends residence time and allows the bed to loosen and stratify.

03

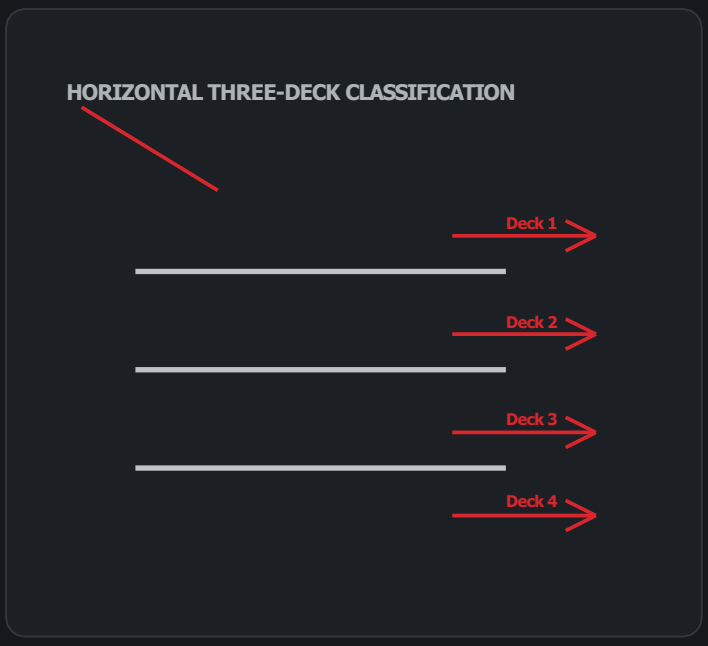
SEPARATE

Three decks classify the feed while adjustable vibration supports difficult materials.

04

DISCHARGE

One under-screen belt and three side conveyors form separate stockpiles.



Precise separation with longer retention

A three-axis eccentric-shaft system produces combined linear and circular vibration across the horizontal screen box. The extended material residence time improves stratification and separation, especially for damp, sticky or fine-rich feed. Each deck retains oversize while smaller particles pass through selected apertures, producing up to four fractions.

- Horizontal screening increases material residence time for accurate separation.
- Multiple decks reduce the need for separate screening machines.
- Dedicated conveyors maintain separation between finished products.

04 / ENGINEERING ADVANTAGES

Designed for precise mobile screening

A large horizontal screen, multiple decks and integrated conveyors support accurate high-volume material classification.

Sticky-material capability

Horizontal vibration keeps material on the deck longer and supports effective screening of damp, clay-rich or adhesive feeds.

High-throughput classification

The complete machine is designed for a 220-400 t/h operating range, with feed and screen capacities up to 300-500 t/h.

Large horizontal screen

A 6200 x 1930 mm three-deck screen provides extensive classification area and up to four finished fractions.

Adjustable vibration

Three-axis eccentric-shaft excitation produces combined linear and circular motion with adjustable amplitude, frequency and stroke.

Four integrated conveyors

One under-screen belt and three side conveyors discharge separated products directly into independent stockpiles.

Tracked deployment

The crawler chassis and hydraulic system support self-propelled relocation between quarry, mining and recycling work areas.

05 / TECHNICAL DATA

Feeding and horizontal-screen specifications

Core parameters for raw-material receiving and horizontal three-deck classification.

FEEDING SYSTEM	
Feed capacity	**300-500 t/h**
Hopper volume	**3 m3**
Feeder power	**11 kW**

HORIZONTAL SCREEN	
Screen model	**SSP-6200**
Screen size	**6200 x 1930 mm**
Maximum feed size	**100 mm**
Screen capacity	**220-400 t/h**
Screen drive / decks	**15 kW x 3 / 3 decks**

Screening configuration note

Screen apertures, deck arrangement, amplitude, frequency and stroke should be selected according to feed grading, moisture, required cut sizes and material adhesiveness. Final capacity is application-dependent.

05 / TECHNICAL DATA

Conveyor and machine specifications

One under-screen belt and three side conveyors organize multiple fractions and support independent stockpiles.

FEED & UNDER-SCREEN BELTS

Feed belt	**1000 x 5600 mm**
Feed-belt power	**11 kW**
Under-screen belt	**1200 x 6200 mm**
Under-screen discharge height	**1500 mm**
Under-screen belt power	**7.5 kW**

SIDE CONVEYORS

Side conveyor 1	**600 x 6850 mm**
Conveyor 1 discharge	**3000 mm**
Conveyor 1 power	**5.5 kW**
Side conveyor 2	**600 x 6850 mm**
Conveyor 2 discharge	**3000 mm**
Conveyor 2 power	**5.5 kW**
Side conveyor 3	**600 x 6850 mm**
Conveyor 3 discharge	**3000 mm**
Conveyor 3 power	**5.5 kW**

Four-conveyor product handling

One under-screen conveyor and three side conveyors route screened fractions to separate discharge points. This layout maintains product separation and reduces secondary handling.

06 / COMPLETE MACHINE

Mobility, power and operating envelope

Machine-level data and configuration options for site planning, transport and deployment.

TRACK & MOBILITY	
Track dimensions	**5000 x 500 mm**
Maximum travel inclination	**30 degrees**
Travel speed	**0-2.6 km/h**

COMPLETE MACHINE	
Machine weight	**35 t**
Processing capacity	**220-400 t/h**
Total power	**69 kW**
Working dimensions	**17900 x 13600 x4200 mm**
Transport dimensions	**18500 x 3960 x 3900 mm**

Power options

Single Power

EXTERNAL SUPPLY

For sites with a stable external electrical supply.

Dual Power

DIESEL GENERATOR

For projects requiring greater power independence.

AVAILABLE EMISSION PACKAGES

- China III
- China IV
- EPA Tier 4
- Euro V

07 / APPLICATIONS

Versatile across demanding screening sites

The SSP-6200 supports high-throughput classification where precise separation of damp, sticky or mixed materials is required.

Mining & Mineral Processing

Pre-screens wet or sticky ore at excavation faces, reducing downstream crusher load and transport volume.

Quarry & Aggregates

Classifies stone and gravel into multiple fractions for concrete, asphalt and road-base production.

C&D Recycling

Sorts concrete, brick and asphalt into reusable aggregate products while reducing landfill disposal.

Clay-rich Materials

The horizontal motion and extended residence time support materials containing mud, clay or fine particles.

Mobile Crushing Lines

Operates independently or pairs with jaw, cone, impact or hammer crushers in multi-stage circuits.

Flexible Site Deployment

Tracked mobility enables relocation between work areas with reduced setup and support equipment.

Typical feed materials

- Wet ore
- Sticky aggregate
- Concrete
- Brick
- Asphalt
- Sand & gravel
- Clay-rich feed

Control the feed. Protect the uptime.

A disciplined setup and maintenance routine supports stable throughput, accurate grading and safe horizontal-screen operation.

1

SITE PREPARATION

Confirm ground bearing capacity, deployment width, access and separate stockpile zones for four products.

2

PRE-START CHECK

Inspect mesh tension, eccentric-shaft system, bearings, belts, guards, lubrication and emergency stops.

3

START-UP

Start the under-screen and side conveyors before the screen and feed belt; increase flow progressively.

4

PRODUCTION CONTROL

Monitor bed depth, deck loading, product grading, vibration settings, belt tracking and screen blinding.

5

SHUTDOWN

Stop feed first, allow all decks and conveyors to clear, isolate energy and remove retained material safely.

Service & lifecycle support

- 12-month warranty support
- Installation and operator training
- Remote diagnostics and technical guidance
- Spare and wear parts supply
- Screen media and vibration-setting guidance
- Conveyor, shaft and bearing inspection support

PROJECT DATA FOR SELECTION

- ☐ Raw material
- ☐ Required capacity (t/h)
- ☐ Maximum feed size
- ☐ Required product sizes
- ☐ Moisture, clay and fines content
- ☐ Power and emission requirements

SCREEN PRECISELY.
HANDLE DIFFICULT FEED.

SSP-6200 Mobile Horizontal Screening Plant

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ISO 9001:2015 / CE CERTIFIED