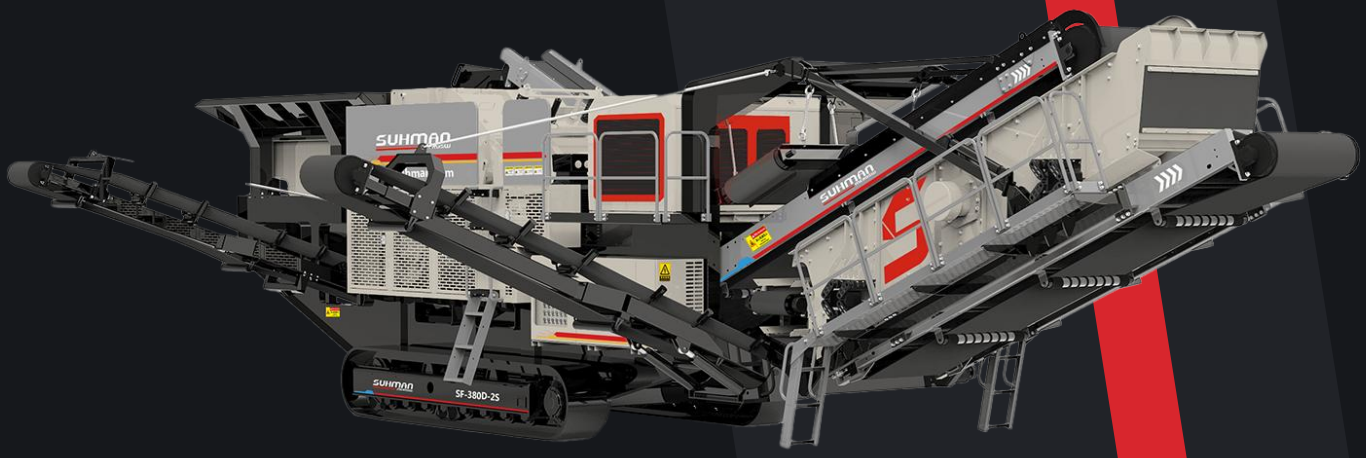
SF-380D-2S

MOBILE INTEGRATED CRUSHING & SCREENING MACHINE

Three-size finished aggregate output in one tracked unit



150-240 t/h	600 mm	3 decks
Processing capacity	Maximum feed size	Finished-size screening

01 / PRODUCT OVERVIEW

One machine. Three finished sizes.

A compact mobile production line integrating impact crushing, three-deck screening and return circulation.

The SF-380D-2S is a tracked all-in-one impact crushing and screening plant designed to produce three finished aggregate sizes in a single machine. It integrates feeding, impact crushing, three-deck screening, recirculation and multiple product conveyors, reducing the need for separate equipment and simplifying site logistics.

150-240 t/h

Complete-machine processing capacity

240 t/h

Rated feeding capacity

54.3 t

Complete machine weight

250 kW

Impact crusher power

Designed for multi-product aggregate production

- Construction-waste recycling
- Quarry and sand-gravel production
- Road and railway aggregate
- Coal and metallurgy material preparation

Final capacity and product grading depend on feed characteristics, screen media, moisture, recirculation load and operating practice.

02 / SYSTEM ARCHITECTURE

Integrated closed-circuit layout

Material is fed, crushed, screened, separated and recirculated within one tracked platform.

1 Hopper & feeder

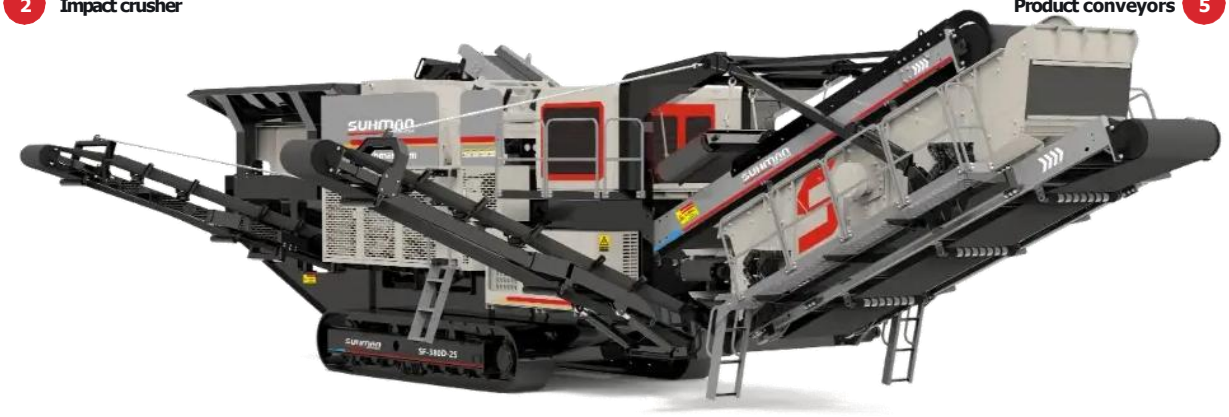
2 Impact crusher

3 Power & controls

3-deck screen 4

Product conveyors 5

Tracked chassis 6



1-2	Feed regulation and impact reduction
3	Power generation and operating control
4	Three-deck product sizing
5	Finished-product discharge
6	Tracked mobility

03 / WORKING PRINCIPLE

Crush, screen and recirculate

The SF-380D-2S forms a mobile closed circuit that can deliver three finished aggregate sizes from a single plant.

01

FEED

The vibrating feeder meters raw material into the impact crusher.

02

CRUSH

The rotor accelerates material against impact elements for size reduction.

03

SCREEN

A three-deck screen separates the crushed material into multiple fractions.

04

RETURN

Oversize material is conveyed back for further crushing while finished products discharge separately.

CLOSED-CIRCUIT MATERIAL FLOW

Oversize return

Continuous multi-size production

The integrated screen separates material immediately after crushing. Conforming fractions discharge through dedicated conveyors, while oversize material is routed back to the impact crusher. This arrangement reduces external handling and allows the plant to operate as a compact mobile aggregate line.

- Three screen decks support simultaneous production of multiple fractions.
- Return circulation helps control oversize material without a separate crusher line.
- Dedicated discharge conveyors improve stockpile separation.

04 / ENGINEERING ADVANTAGES

Designed for compact production efficiency

Integrated functions reduce transfer points, equipment count and site setup complexity.

Three-size output

A three-layer screen separates multiple finished fractions simultaneously for flexible aggregate production.

Integrated closed circuit

Oversize material can be returned to the crusher, supporting controlled product grading and continuous processing.

High feed acceptance

A 1380 x 1000 mm impact crusher inlet accommodates material up to 600 mm.

Mobile deployment

The LDZ55-3657 tracked chassis supports relocation across quarry, recycling and infrastructure sites.

Hybrid power options

External power or diesel-generator configurations can be selected to match site energy availability.

Reduced site complexity

Feeding, crushing, screening, return and discharge are combined within one mobile production line.

05 / TECHNICAL DATA

Feeding and crushing specifications

Core parameters for raw-material intake and primary impact reduction.

FEEDING SYSTEM	
Feeding capacity	**240 t/h**
Hopper volume	**5 m3**
Feeder power	**4.5 x 2 kW**
Feeder size	**3550 x 1280 mm**
Feeding height	**3850 mm**

IMPACT CRUSHER	
Crusher model	**1214**
Feed inlet	**1380 x 1000 mm**
Maximum feed size	**600 mm**
Discharge adjustment	**0-150 mm**
Crusher weight	**18 t**
Crusher power	**250 kW**

Impact-crushing configuration

The 1214 impact crusher combines a large 1380 x 1000 mm inlet with a 250 kW drive. Final performance should be verified against material abrasiveness, hardness, moisture and required product grading.

Screening and conveyor specifications

Three-deck screening and multiple discharge paths support product separation and recirculation.

SCREENING SYSTEM

Return hanging screen	**5150 x 2160 mm**
Screen power	**5.5 x 2 kW**
Number of decks	**3**
Screen size	**4600 x 1540 mm**
Transition belt	**1750 x 770 mm**
Transition belt power	**3 kW**

CONVEYOR SYSTEM

Main belt	**11200 x 1600 mm**
Main discharge height	**2900 mm**
Main belt power	**9.2 x 2 kW**
Finished product belt	**5300 x 1350 mm**
Finished discharge height	**2100 mm**
Finished belt power	**5.5 x 2 kW**
Side conveyor belt	**5135 x 800 mm**
Side conveyor power	**5.5 x 2 kW**
Return conveyor belt	**7300 x 970 mm**
Return conveyor power	**5.5 kW**

Three-deck screening module

The integrated screening section classifies crushed material into multiple finished fractions while the return conveyor redirects oversize material to the crusher.

Mobility, power and operating envelope

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

MAGNETIC SEPARATOR	
Separator size	**2100 x 910 mm**
Separator power	**4 kW**

COMPLETE MACHINE	
Track chassis	**LDZ55-3657**
Engine power	**100 kW**
Machine weight	**54.3 t**
Processing capacity	**150-240 t/h**
Total crushing power	**322.9 kW**
Working dimensions	**17800 x 10800 x 4700 mm**
Transport dimensions	**17800 x 3780 x 3850 mm**

Power options

Single Power

EXTERNAL SUPPLY

For sites with stable grid or generator supply.

Dual Power

DIESEL GENERATOR

For projects requiring greater energy independence.

AVAILABLE EMISSION PACKAGES

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

07 / APPLICATIONS

Versatile across recycling and aggregate sites

The integrated line is intended for medium-hard materials and projects requiring multiple finished aggregate sizes.

C&D Recycling

Processes concrete, bricks and demolition debris into reusable aggregates for urban recycling.

Mining & Quarrying

Handles medium-hard ores and rocks such as limestone and bluestone for aggregate production.

Road & Railway

Produces multiple aggregate fractions for infrastructure construction and maintenance.

Sand & Gravel

Supports flexible product grading for commercial aggregate and market demand.

Coal & Metallurgy

Suitable for medium-hard raw-material reduction before downstream processing.

Resource Recovery

Reduces waste disposal and supports the reuse of mineral and construction resources.

Typical feed materials

- Limestone
- Bluestone
- Concrete
- Brick
- Coal
- Medium-hard ore
- Sand & gravel

Plan the site. Protect the uptime.

A disciplined setup and maintenance routine supports stable production, safe operation and consistent output grading.

1

SITE PREPARATION

Confirm bearing capacity, access, working width, product stockpile zones and safe circulation routes.

2

PRE-START CHECK

Inspect crusher chamber, screen media, return circuit, belts, guards, lubrication and emergency stops.

3

START-UP

Start downstream conveyors and screen before the crusher and feeder; increase feed progressively.

4

PRODUCTION CONTROL

Monitor crusher load, screen efficiency, recirculation level, belt tracking and product grading.

5

SHUTDOWN

Stop feed first, clear the circuit, isolate energy and perform cleaning under approved procedures.

Service & lifecycle support

- 12-month warranty support
- Installation and operator training
- Remote diagnostics and technical guidance
- Spare and wear parts supply
- Screen media and conveyor inspection guidance
- Crusher wear-part and rotor maintenance planning

PROJECT DATA FOR SELECTION

- [ ] Raw material
- [ ] Required capacity (t/h)
- [ ] Maximum feed size
- [ ] Required finished sizes
- [ ] Power availability
- [ ] Destination and emission standard

CRUSH. SCREEN.
PRODUCE THREE SIZES.

SF-380D-2S Mobile Integrated Crushing and Screening Machine

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ISO 9001:2015 / CE CERTIFIED