

SF-580D-S

MOBILE INTEGRATED CRUSHING & SCREENING MACHINE

High-capacity closed-loop crushing and screening in one tracked plant



150-350 t/h

Processing capacity

>700 mm

Maximum feed size

2 decks

Integrated screening

Crush, screen and recirculate at scale.

A heavy-duty tracked production line combining large-feed impact crushing, dual-deck screening and closed-loop operation.

The SF-580D-S Mobile Integrated Crushing and Screening Machine is a heavy-duty crawler-mounted plant engineered for large-scale construction-waste recycling, demolition, quarrying and aggregate production. It combines a 1315 three-chamber impact crusher, pre-screening feeder, dual-deck screen, return circuit and multiple product conveyors within one mobile platform for high-capacity closed-loop production.

150-350 t/h

Complete-machine processing capacity

350 t/h

Rated feeding capacity

59.5 t

Complete machine weight

315 kW

Impact crusher power

Designed for high-capacity integrated production

- Large-scale C&D waste recycling
- Urban demolition and infrastructure removal
- Multi-grade quarry aggregate production
- Remote and temporary job sites

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

Heavy-duty closed-loop production layout

Feeding, pre-screening, impact crushing, dual-deck sizing, recirculation and product discharge are combined on one tracked platform.

1 Hopper & feeder

3-deck screen 4

2 Impact crusher

Product conveyors 5

3 Power & controls

Tracked chassis 6

1-2 Feed regulation and impact reduction

3 Power generation and operating control

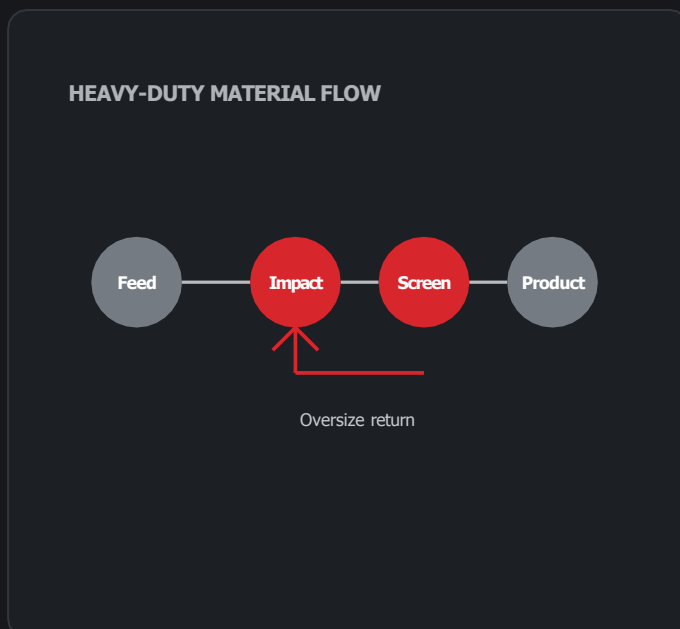
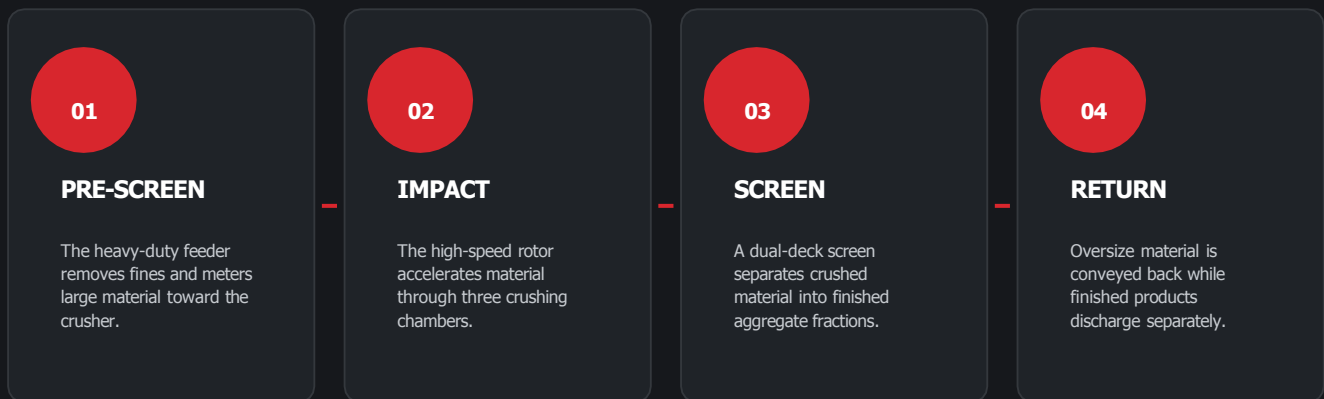
4 Three-deck product sizing

5 Finished-product discharge

6 Tracked mobility

Crush, screen and recirculate

The SF-580D-S combines controlled feeding, three-chamber impact crushing, dual-deck screening and automatic oversize return.



High-load crushing with size control

Raw material is pre-screened before entering the large 1315 impact crusher. The high-speed rotor and three-chamber design apply repeated impact and shearing forces. Crushed material passes to the dual-deck screen, where finished fractions discharge separately and oversize material returns to the crusher for further reduction.

- Pre-screening removes fines and protects the main crushing chamber.
- Dual-deck screening supports simultaneous production of multiple aggregate sizes.
- Return circulation reduces the need for a separate secondary crushing loop.

Designed for heavy-duty productivity

Large-feed crushing, high power and integrated mobility are combined for demanding quarry and demolition work.

Large feed capability



A 1540 x 1100 mm crusher inlet accepts feed particles larger than 700 mm for heavy-duty impact crushing.

High production range



A complete-machine processing range of 150-350 t/h supports large recycling, quarry and infrastructure projects.

Dual-deck product screening



The integrated two-layer screen separates finished aggregate fractions while oversize material returns to the crusher.

Closed-loop recirculation



A dedicated return conveyor recirculates oversize material for controlled grading and continuous production.

Heavy-duty tracked mobility



The LDZ60-4037 tracked chassis supports rapid relocation across demolition, quarry and remote project sites.

Hybrid power and smart control



External power or diesel-generator configurations, intelligent controls and remote diagnostics support varied sites.

Feeding and crushing specifications

Core parameters for large-feed intake and heavy-duty impact reduction.

FEEDING SYSTEM		IMPACT CRUSHER	
Feeding capacity	350 t/h	Crusher model	1315
Hopper volume	6 m3	Feed inlet	1540 x 1100 mm
Feeder power	4.5 x 2 kW	Maximum feed size	>700 mm
Feeder size	3500 x 1460 mm	Discharge adjustment	0-180 mm
Feeding height	3900 mm	Crusher weight	23 t
		Crusher power	315 kW

Impact-crushing configuration

The 1315 impact crusher combines a 1540 x 1100 mm inlet with a 315 kW drive and accepts feed larger than 700 mm. Final performance should be verified against material abrasiveness, hardness, moisture and required product grading.

Screening and conveyor specifications

The dual-deck screen and multiple conveyor paths support product separation and oversize recirculation.

DUAL-DECK SCREENING SYSTEM

Return hanging screen	5800 x 2160 mm
Screen power	5.5 x 2 kW
Number of decks	2
Screen size	4600 x 1540 mm
Transition belt	1750 x 770 mm
Transition belt power	3 kW

CONVEYOR SYSTEM

Main belt	12480 x 1600 mm
Main discharge height	3300 mm
Main belt power	9.2 x 2 kW
Finished product belt	5800 x 1350 mm
Finished discharge height	2370 mm
Finished belt power	5.5 x 2 kW
Side conveyor belt	6500 x 970 mm
Side conveyor power	5.5 kW
Return conveyor belt	8050 x 970 mm
Return conveyor power	5.5 kW



Integrated dual-deck screening module

The integrated dual-deck screen separates multiple finished aggregate fractions, while oversize material is redirected through the return conveyor for further crushing.

Mobility, power and operating envelope

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

MAGNETIC SEPARATOR		COMPLETE MACHINE	
Separator size	2100 x 910 mm	Track chassis	LDZ60-4037
Separator power	4 kW	Engine power	100 kW
		Machine weight	59.5 t
		Processing capacity	150-350 t/h
		Total crushing power	382.4 kW
		Working dimensions	18650 x 8000 x 4700 mm
		Transport dimensions	18650 x 3750 x 3900 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.
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AVAILABLE EMISSION PACKAGES

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

Built for demanding recycling and quarry sites

The SF-580D-S is intended for large feed sizes, high throughput, multiple finished products and continuous closed-loop operation.

Large-Scale C&D Recycling



Processes reinforced concrete, bricks and mixed demolition debris into reusable aggregate directly on site.

Urban Demolition



Supports bridges, factories, highways and infrastructure removal with rapid setup and relocation.

Heavy-Duty Quarrying



Provides primary or secondary crushing of limestone, basalt, granite and other natural stone.

Aggregate Production



Produces well-shaped crushed material for road, concrete and general construction applications.

Remote Projects



Crawler mobility and dual-power options support operations where access and utilities are limited.

Time-Sensitive Contracts



High throughput and integrated return circulation support continuous operation under tight schedules.

Typical feed materials



Limestone



Basalt



Granite



Concrete



Brick



Demolition debris



Natural stone

Plan the site. Protect the uptime.

A disciplined setup and maintenance routine supports stable high-load production, safe operation and consistent product sizing.

1

SITE PREPARATION

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

2

PRE-START CHECK

Inspect the feeder, pre-screen, rotor, impact elements, dual-deck screen, return circuit, belts, guards and emergency stops.

3

START-UP

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

4

PRODUCTION CONTROL

Monitor rotor load, feed distribution, recirculation level, belt tracking, vibration and product size.

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
- Feeder, dual-deck screen and conveyor inspection guidance
- Rotor, blow-bar and impact-liner 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 AT SCALE.

SF-580D-S Mobile Integrated Crushing and Screening Machine

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Specifications and appearance may change as part of continuous product development.