

SF-580D

HEAVY-DUTY MOBILE IMPACT CRUSHER

Large-feed, high-capacity impact crushing for demanding sites



150-350 t/h

Processing capacity

>700 mm

Maximum feed size

315 kW

Crusher power

Built for high-load crushing.

A heavy-duty tracked impact crusher combining large-feed capability, high throughput and rapid mobile deployment.

The SF-580D Heavy Duty Mobile Impact Crusher is a crawler-mounted, high-capacity crushing plant engineered for large-scale construction-waste recycling, urban demolition, quarrying and aggregate production. Its 1315 triple-chamber impact crusher, large feed opening, pre-screening feeder, return circuit and intelligent control system are integrated within one mobile platform for demanding, high-load projects.

150-350 t/h

Complete-machine processing capacity

350 t/h

Rated feeding capacity

54.2 t

Complete machine weight

315 kW

Impact crusher power

Designed for large-scale crushing operations

- Large-scale C&D waste recycling
- Urban demolition and infrastructure removal
- Heavy-duty quarry production
- Time-sensitive and remote projects

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

Heavy-duty integrated crushing layout

Feeding, pre-screening, impact crushing, return screening 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 Pre-screened feed and impact reduction

3 Power generation and operating control

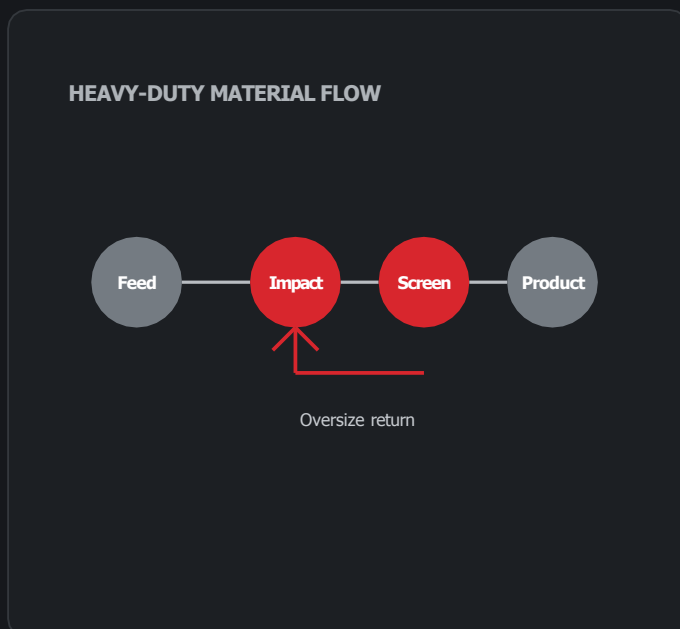
4 Oversize return screening

5 Product discharge and recirculation

6 Tracked mobility

Pre-screen, impact and recirculate

The SF-580D combines controlled feeding, triple-chamber impact crushing and an integrated oversize return circuit.



High-load crushing with size control

Raw material is pre-screened before entering the large 1315 impact crusher. The high-speed rotor and triple-chamber design apply repeated impact and shearing forces. Conforming material discharges through the product conveyor, while oversize material is returned to the crusher for further reduction.

- Pre-screening removes fines and protects the main crushing chamber.
- Hydraulic adjustment supports rapid control of the discharge range.
- 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 primary or secondary crushing.

High production range



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

Triple-chamber impact crushing



A large-diameter, high-speed rotor delivers repeated impact and shearing for efficient reduction and well-shaped aggregate.

Integrated return circuit



A one-layer return screen and return conveyor recirculate oversize material for controlled product sizing.

Crawler mobility



The LDZ55-3657 tracked chassis supports rapid relocation on demolition, quarry and remote project sites.

Flexible power and control



Single- or dual-power configurations, intelligent control and optional remote operation support varied site conditions.

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	3550 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.

Return screening and conveyor specifications

The one-layer return screen and conveyor system support product discharge and oversize recirculation.

RETURN SCREENING SYSTEM

Return hanging screen	4820 x 2160 mm
Screen power	5.5 x 2 kW
Number of decks	1
Screen size	4000 x 1540 mm
Transition belt	1750 x 970 mm
Transition belt power	3 kW

CONVEYOR SYSTEM

Main belt	11750 x 1600 mm
Main discharge height	3200 mm
Main belt power	9.2 x 2 kW
Finished product belt	5155 x 1350 mm
Finished discharge height	2380 mm
Finished belt power	5.5 x 2 kW
Side conveyor belt	Not fitted
Side conveyor power	Not fitted
Return conveyor belt	8200 x 970 mm
Return conveyor power	5.5 kW



Integrated return-screening module

The integrated one-layer screen separates oversize material and redirects it through the return conveyor, while conforming product exits through the finished-material belt.

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	LDZ55-3657
Separator power	4 kW	Engine power	100 kW
		Machine weight	54.2 t
		Processing capacity	150-350 t/h
		Total crushing power	376.9 kW
		Working dimensions	17950 x 3750 x 4500 mm
		Transport dimensions	17950 x 3750 x 3850 mm

Power options

Single Power	Dual Power
	
EXTERNAL SUPPLY	DIESEL GENERATOR
For sites with stable grid or generator supply.	For projects requiring greater energy independence.

AVAILABLE EMISSION PACKAGES

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

Built for demanding recycling and quarry sites

The SF-580D is intended for large feed sizes, high throughput and continuous operation in high-load projects.

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, 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, 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

BUILT FOR HEAVY FEED. READY FOR HIGH LOAD.

SF-580D Heavy Duty Mobile Impact Crusher

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