

Technical Description RM V550GO!



USPs:

- Average throughput capacity up to 200t/h
- 20 to 30% more daily capacity thanks to high throughput continuity through automatic feeding
- Impact elements with wear-resistant materials that assist the crushing process
- Variable final aggregate through hydraulic, infinitely variable crushing gap and 3-speed control of crusher unit
- Defined final material grade in a single pass when combined with MS100GO! including RM RFB100GO!.
- One man operation due to fully remote controlled machine's functions
- Crush and track simultaneously
- Low emission values thanks to low diesel consumption
- Extremely effective diesel-electric drive concept
- Quick-Lock system to open and close the crusher (less than 5 minutes)
- Straightforward handling and support thanks to Ground Based Service
- Easy access to engine compartment from 3 sides
- Main discharge belt can be completely detached from the chassis within minutes for service and maintenance
- Main discharge belt can be easily lowered and raised hydraulically
- Extremely mobile – transport weight 33 t
- Modern design
- Metal detector with automatic discharge procedure

Crawler gear

Travelling speed	2 crawler gear speeds, max. 1.4 km/h
Climbing ability	30°

Base Frame

The base frame consists of a mono-chassis construction with integrated crusher housing, vibro-channel support, main discharge belt support and crawler gear.

Feed Material

Only the following material can be processed:

- Natural rock



All metal parts are to be removed without exception.
Natural stone with a maximum resistance of breaking of 25,000 N/cm², providing that the feed size is suitable.

Feed Material Size	edges up to 400 mm long
Throughput	Up to 200 t/h depending on feed material
Final product	Cubic aggregate < 70 mm

Crusher Unit

Manufacturer	VORTEX GmbH
Inlet opening	1030 x 450 mm
No. of hammers	2 / 4
Capacity	up to 200 t/h
Feed material size	max. 400 mm
Final aggregate	Cubic < 70 mm
Crushing gap (hydraulically adjustable)	4 – 80 mm
Impact arc diameter	905 mm

The rotor, the impact arms and the wear plates are installed directly in the crusher housing integrated into the chassis. The rotor can be equipped with 2 or 4 long hammers depending on the feed material. The side walls of the crusher unit are reinforced. The crushing chamber is built in two sections and opens hydraulically. The crushing gap is adjusted hydraulically and locked mechanically.

Belt feeder

Capacity	5.5 m ³
Feed height	3140 mm
Effective intake length and width	Max. 2900 mm x 3500 mm
Weight	1620 kg
Belt drive	Worm gear motor 11kW

Contaminated material will be noticed by the metal detector and discharged automatically via the discharge chute.

Main discharge belt

Belt width	1000 mm
Axle spacing	8,975 mm
Discharge height	3,350 mm
Motor	Worm gear motor
Conveyor belt	10 + 3 rip stop
Drive drum	Rubberized drive drum
Tail pulley	Bar drum

The main discharge conveyor as a separate unit easily slides into the main chassis and ensure excellent access for service and maintenance which fits an endless belt for extended lifetime.

The impact area underneath the rotor is fitted with special absorber plates to protect the belt against damage. A scraper blade removes contamination from the belt while a plough scraper protects the tail drum.

Hydraulics

A small hydraulic system controls the crawler gear as well supplying auxiliary functions for folding and swivel functions of the machine and attachments.

Power unit

The main drive components (diesel engine, clutch unit, hydraulic pump and generator) are configured as a power unit on a separate sub-frame that can be easily removed from the engine compartment.

Diesel engine

Manufacturer	John Deere
Type	6090HF485 Stage 3a constant speed engine
Cylinders and displacement	6 cylinders and 9,000 ccm
Speed	1,800 rpm
Power	286 kW
Fuel tank capacity	358 l

Three-phase synchronous generator

Voltage	400 V
Power	80 kVA

There are 230 V and 400 V electrical power connections available for external supply up to 15 kVA.

Electrical system

Electric motors for:

- Belt feeder
- Main discharge conveyor
- Optional MS screen

The parameters relating to optimisation of output are monitored and evaluated electronically. Automatic feed control of the belt feeder prevents the crusher from overloading and increases performance and output.

Radio remote control



- Aufgabeband starten/stoppen
- Aufgabeband Geschwindigkeit stufenlos verstellbar
- Hauptaustrageband starten/stoppen
- Bänder des optionalen MS 100GO! mit Rückführband RFB 100GO! starten/stoppen
- Funkfernsteuerung ein-/ ausschalten + Hupe
- Maschinenstopp-Taster
- Fahrwerksfreigabe
- Fahrwerksgeschwindigkeit, 2 Stufen
- Fahrwerksbetätigung mittels Joystick

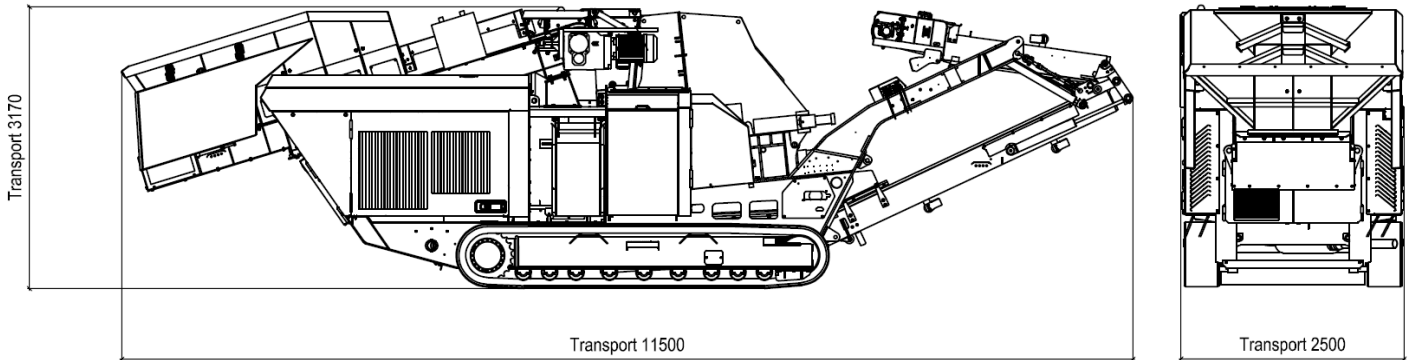
Serienausstattung

- Raupenfahrwerk
- Funkfernsteuerung

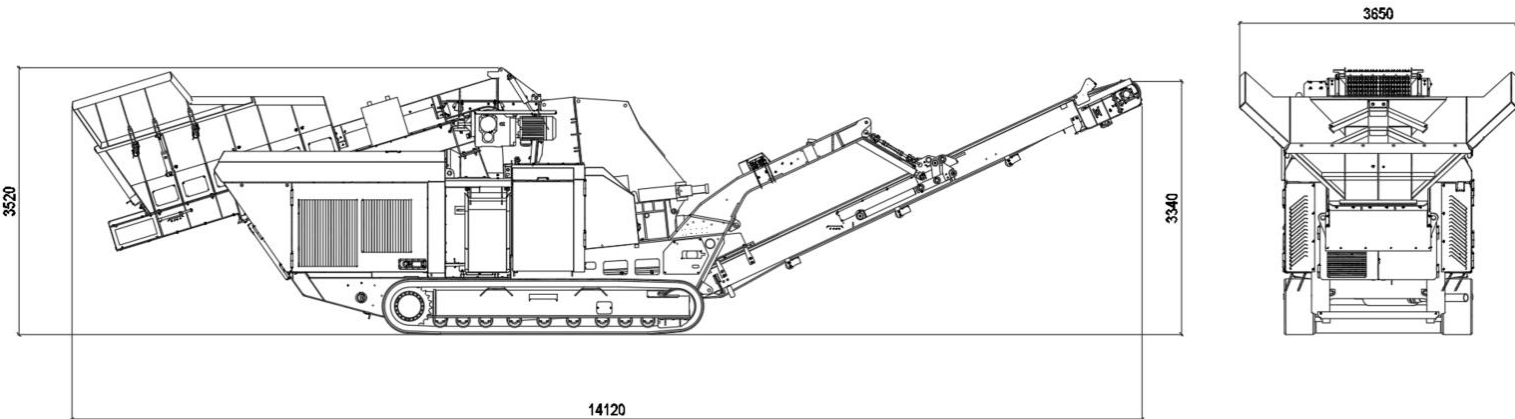
Sonderausstattung

- Metalldetektor
- Staubbierhaltung ohne Tank und Pumpe (max. 10 bar)
- Pumpe für Staubbierhaltung
- Betankungspumpe mobil mit Schlauch
- Betankungssystem komplett
- Notsteuerbirne
- Einbausatz für Bandwaage (Vorbereitung)
- Motorraumbeleuchtung
- Lichtmast mit 3 Stück LED-Scheinwerfer
- Maschendecksieb MS 100GO! mit Rückführband
RFB 100GO!

Transport position



Working position



Der Hersteller behält sich technische Änderungen vor.