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Compact recycler RUBBLE MASTER RM 80GO!

USPs:

- Average throughput up to 200 to/hr
- 20-30% more daily capacity thanks to high throughput continuity through automatic feeding
- Impact elements with newly developed wear-resistant materials that assist the crushing process
- Integrated release system to deal with blockages
- Trouble-free steel extraction at crusher outlet thanks plain crusher putlet and short outlet tunnel
- Efficient magnetic separator, mounted on chains
- Variable final grain through hydraulic, infinitely variable crusher gap and 2 rotor speeds
- Defined final grade in a single pass when combined with RM OS80GO! or RM MS80GO! incl. refeeding
- Only one operator necessary to control the crusher from the feeder using automatic remote control
- Crushing and manoeuvring possible simultaneously
- Low emission value and low fuel consumption (abt. 18 l/hr)
- Extremely effective diesel-electric drive concept
- Quick-action system to open / close the crusher (less than 5 minutes)
- Straightforward handling and support with ground based service
- Access to the engine compartment easily from 3 sides
- Main discharge conveyor for service completely removable within a few minutes

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- Main discharge conveyor easy lowerable with hydraulics
Extremely mobile – transport weight under 23,6 to
- Eye-catching design

Feed material:

- Rubble, concrete, asphalt, brick

Reinforced steel up to a diameter of 12 mm, assumed that it is completely embedded in the material and you use green hammers (martensitic ceramic hammers). All other, larger metal parts are to be removed without exception.

Feed material size:

- Up to 650 mm

Power rating:

- Up to 200 t/hr depending on the feeding material

Final grain:

- Cubic shape, up to 70 mm

Weight:

- 23,6 t

Transport system:

- Crawler gear: Travelling speed: 2 travelling speeds, climbing ability 30°



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Chassis:

- A new, integrated chassis construction is used for the RM80 GO!.

Vibro-channel:

- Feed height: 2.880 mm
- Effective cross-selection of feed intake: 2.980 mm x 1.990 mm
- Capacity: 2,6 m³
- Wear plates on bottom: Hardox 400
- Pre-screen: Welded mesh conical screen
- Screen surface: 1.050 x 800 mm
- Vibrator motor: 3,1 kW / 400 V/ 50 Hz
- Heavy-duty torsion-resistant steel construction with an integrated asymmetric feed funnel for an optimized arranging of the material. The material that falls through the screen can either be transported away with the crushed material on the main discharge belt, or on a separate side discharge belt to a different heap.

Power unit

Diesel engine, John Deere Diesel engine, 6-cylinder

- Nominal speed: 1,800 rpm
- Engine capacity: 6,8 l
- Power rating: 168 kW
- Tank capacity: 280 l
- Diesel consumption: 18 l/hr

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Three-phase synchronous generator

- Voltage: 400 V
- Power rating: 40 kVA
- Electrical power outlets 230V and 400V for external use up to 15kVA are installed.
- The main drive components like the diesel engine, the clutch unit and the generator are mounted on a separate frame and can be dismantled easily.

Crusher unit:

- Manufacturer: RUBBLE MASTER HMH GmbH
- Speeds: 2 rotor speeds
- No. of hammers: 2 / 4
- Inlet opening: 860 mm x 650 mm
- Crushing diameter: 865 mm
- The rotor, the impact arm and the wear plates are fitted directly into the crusher housing, integrated in the chassis. Depending on the application, the rotor can be equipped with either 2 or 4 hammers. The crusher is armoured with 20 mm thick wear plates in the area of the side walls and with 30 – 40 mm thick wear plates in the area of the rear wall. The three step impact arm is fitted with 70 mm wear plates.

The housing is designed in sections and the rear wall can be swung out hydraulically.

The crushing gap can be adjusted hydraulically and is locked mechanically. The upper suspension point can likewise be adjusted to alter the kinematics of the arm.

To clear blockages, the entire crosshead is moved out hydraulically. The spring assembly ensures that the crosshead moves back to the home position.

Impact plates and material pockets are located in the discharge area of the crusher to

reduce grain speed and protect the belt construction underneath from direct impact. V-belts are used for the drive system.

Main discharge belt:

- Length: 7.000 mm
- Hydraulic foldable for the transport
- Belt with 800 mm
- Engine: drum motor
- Belt: 10+3 Rip Stopp
- Back drum: bar drum
- Discharge height: 2.950 mm
- The whole main discharge conveyor can be removed from the machine for service purposes. In the loading area, special damping plates are protecting the belt from damages. An endless chevron conveyor in Rip-Stopp quality is discharging the crushed material to a heap. The feed end of the discharge belt is integrated into the framework. The main discharge belt can be completely removed for maintenance purposes and can be folded in and out hydraulically during transport. A belt cleaner is used to clean the belt and a belt scraper to protect the bar back drum.

Side discharge belt:

- Length: 3000 mm
- Belt with: 500 mm
- Engine: drum motor
- Belt: 4+2 Rip Stopp
- The extremely compact lightweight conveyor belt can be swung in/out using a special

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folding mechanism with only one cylinder. The distribution of the centre of gravity of the belt parts creates a self-locking effect. The belt is sealed dust tight up to the vibration channel. A bypass chute is available if required which directs the screened material to the main discharge belt (necessary for example when working as a secondary crusher).

Hydraulic system:

- A relatively small hydraulic system handles all the basic functions of the machine.

Electric:

- The relevant parameters to optimise throughput are monitored and evaluated electronically. Subsequently the analysis should also be possible by remote control.

Magnetic separator:

- Belt width: 800 mm
- clockwise and counter-clockwise direction
- The magnetic separator runs at right-angles to the discharge belt and is designed to remove ferrous objects from the crushed material. These are then collected in a container on the side. The direction of the magnetic separator belt can be selected at the control panel. This allows the operator to choose which side the metal objects are to be deposited.

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Remote control XL

- Activate crawler gear
- Start/Stop vibro channel + vibro-channel zero feed
- Start/Stop main discharge belt
- Start/Stop side discharge belt
- Start/Stop magnetic separator + direction of rotation
- Switch on/off remote control + horn
- Activate release system
- Stop machine button
- Crawler gear speed, 2 speeds

Standard:

- Crawler gear
- Magnetic separator
- Remote control
- Release system

Options:

- RM80GO! *without* magnetic separator
- Dust suppression system without tank and pump (max. 10 bar)
- Dust suppression system complete (without tank)
- Central lubrication system
- Diesel filling pump – retrofit
- Diesel filling pump - complete
- Side discharge belt
- Mounting kit for belt scale

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- Wear-resistant crusher box lining Hardox 500 plates, 30 mm thick, additional price
- hammer changing system
- Oversize separator OS80 or OS80EC
- Pre-arrangement for refeeding belt RFB80 GO!
- Refeeding belt RFB80 GO!

Specifications subject to change in line with technical developments.



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