

Product description

Duplex System R1100DS/R1200D

Mobile track mounted impact crusher R1100DS

Mobile track mounted jaw crusher R1200D



Kormann Rockster Recycler GmbH - Wirtschaftszeile West 2, 4482 Ennsdorf, Austria
Tel.: +43 (7223) 81 000, Fax.: +43 (7223) 81 000 329, E-mail: office@rockster.at

www.rockster.at

ROCKSTER[®]
RECYCLER

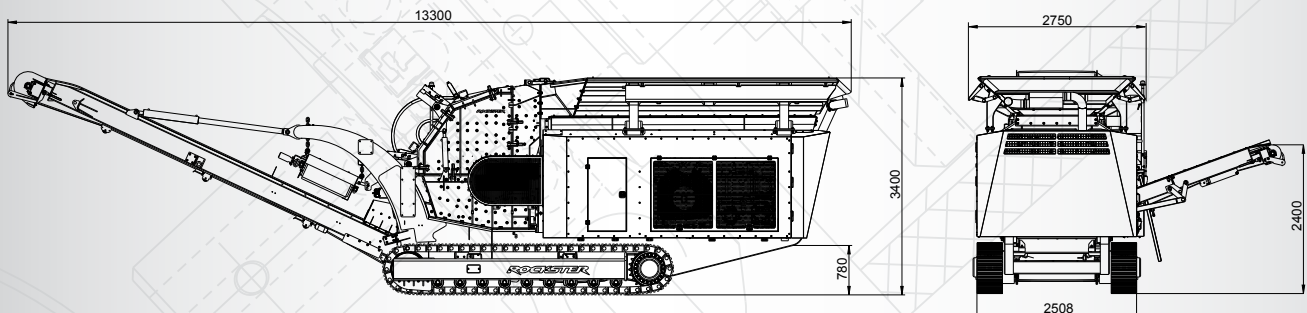
From jaw crusher to impact crusher - in shortest time

The crusher units are especially designed to transform a jaw (R1200D) into an impact crusher (R1100DS) and vice versa, in only a few hours.

Therefore the plant can be optimized to the different requirements of the feeding material and guarantees a versatile operation.



Main dimensions



Transport dimensions:

Length:	13,30 m	43.7 ft
Width:	2,75 m	9.1 ft
Height:	3,40 m	11.2 ft

Transport weight:

R1100DS:	33,4 t	73,700 lbs
R1200D:	38,4 t	84,700 lbs

Feeding height: 3,40 m | 11.2 ft

Discharge height:

Main discharge belt:	~ 3,5 m	~ 11.5 ft
Side discharge belt:	~ 2,4 m	~ 7.9 ft

Application areas of Duplex-System R1100DS - R1200D

One machine - unlimited possibilities!

In order to **optimize the machine utilization** and to guarantee a **versatile operation** of the crushing plants, the Rockster team has developed the unique and patented Duplex System which enables the customer to **change the single crushing units**. Both units can be installed on the same chassis and **changed from jaw crusher into impact crusher** in shortest time - and vice versa.

The **track mounted crushing plant** convinces as **impact crusher R1100DS** with perfect cubic final grain quality and highest performance and allows flexible operation in recycling of asphalt, concrete and rubble. As **jaw crusher R1200D** it is the ideal solution for any applications which demand highest requirements to the wear parts in recycling of toughest aggregates and in virgin stones.

The Duplex-System is the optimal solution for recycling & processing of:

concrete



demolition debris



asphalt



bricks



virgin stone



**The result:
perfect cubic final grain**

Technical details

Duplex-System - unique and flexible

The **track-mounted crushing plants R1100DS/ R1200D** are installed fully hydraulically and based on the same basic chassis.

The hydrostatic drive system allows a **clockwise or anti-clockwise operation** of the crusher. So it is possible to install both crushing units on the

same basic frame and the machine can be changed from **impact crusher to jaw crusher - and vice versa** - in shortest time.

Therefore the plant is applicable for a wide spectrum of operations and the machine utilization is maximized.



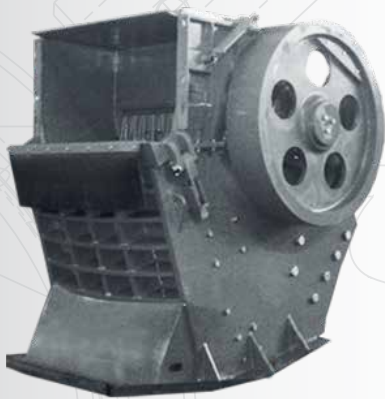
Impact crusher

Inlet opening:	1100 x 720 mm 44 x 29 in
Impact circle diameter:	1020 mm 3.35 ft
Rotor equipment:	4 hammers
Crushing ratio:	1:10 - 1:50
Performance:	up to 400 t/h 440 st/h
Rotor speed:	up to 850 rpm
Weight:	9.500 kg 21,000 lbs
Drive:	hydrostatic
Gap adjustment:	fully hydraulic during operation by pressing the buttons on the machine control

The **Rockster** impact crusher guarantees **highest performance** at a very high crushing ratio. Due to 2 hydraulically adjustable swing-beams, as well as **variation of the rotor speed**, the final grain can be

optimally influenced. The quality of the hammers is chosen individually, depending on the application and can be used bilaterally.

High quality wear materials ensure reduced wear.



Jaw crusher

Inlet opening:	1200 x 680 mm 48 x 27 in
Crushing ratio:	1:8
Performance:	up to 280 t/h 310 st/h
Speed adjustment:	0 - 280 rpm
Weight:	14.500 kg 32,000 lbs
Drive:	hydrostatic
Gap adjustment:	hydraulic

The hydraulic adjustable **Rockster jaw crusher** is the ideal solution for all operations requiring highest demands on the wear parts.

Even under toughest conditions the R1200D guarantees highest crushing power and lowest wear.

Technical details



Drive:

Engine: CAT TIER3 242 kW | 325 hp
VOLVO TIER3 262 kW | 352 hp
VOLVO TIER4f 265 kW | 355 hp
electronically regulated
Cylinder: 6
Cooling system: water

The drive system is located at the rear of the machine, enclosed in a sound-proofed housing. For maintenance and service purposes the casing can be opened completely on all sides.

The hydraulic pump for all auxiliary drives (main discharge belt, side discharge belt, vibration chute, crawler gear...) as well as the pump for the hydrostat

are driven via a distributing gear unit which is flange-mounted on the drive engine.

The hydrostat activates the crusher via a V-belt drive.

Advantages of the hydrostatic drive:

- individual **adjustment of crusher speed**
- adjustment of rotating direction possible (R1200D)
- the usual **clutch is replaced**



Feedhopper:

Material: Hardox 400
Volume: 5 m³ | 6.6 yd³
Feeding length: 4400 mm | 14.5 ft
Feeding width: 2500 mm | 8.2 ft
Feeding height: 3425 mm | 11.3 ft



Vibration chute with 2-step pre-screening:

Material: Hardox 450
Length pre-screening: 1800 mm | 5.9 ft
Width: 1100 mm | 3.6 ft
Type: ZigZag
Option: bar screen
Drive: hydraulic
continuously variable



Bypass:

The switchable chute (Bypass) allows the discharge of the pre-screened material on the side or main discharge belt.

Easy switch via hand gear -

no special assembly necessary!

Technical details



Main discharge belt:

Belt width: 1200 mm | 48 in
Discharge height: ~ 3,5 m | ~ 11.5 ft
Angle: 25°

Drive: hydraulic, continuously variable

The main discharge belt is lowerable hydraulically for maintenance & servicing.



Side discharge belt:

Belt width: 650 mm | 26 in
Discharge height: ~ 2,4 m | ~ 7.9 ft
Angle: 20°

Drive: hydraulically

The side discharge belt is foldable hydraulically for transport.



Magnetic separator:

Type: Permanent magnet
Belt width: 750 mm | 30 in
Weight: 1350 kg | 2.98 0 lbs
Drive: hydraulically



Caterpillar crawler:

Tread width: 400 mm | 16 in
slanted
Wheel base: 3800 mm | 12.5 ft
Surface: triple ribbed pads
Drive: 2-speed hydraulic



Control panel:

Central control/operating unit ensures an easy operation and machine monitoring in connection with a remote control.

Special features



Environmental compatibility:

Reduction of emissions through:

- efficient dust suppression and
- sound-proofed housing



Easy service & ideal accessibility:

The large-scale covers allow an optimal accessibility for service and maintenance and furthermore ensure the best ventilation of the drive-unit and the cooler.

Options:



belt weigh scale



water pump



central lubrication



main belt - wear protection



air compressor



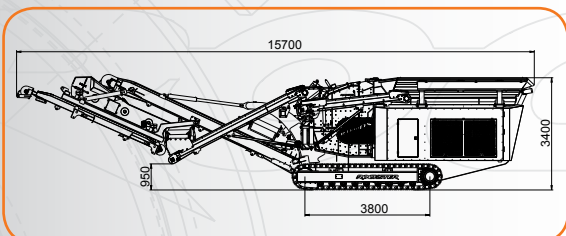
sound protection cover



hammer exchange system

Option: Screening system

Screenbox RS114 + double functional return/stockpile belt RB95



Defined final grain in one workflow:

The optional screening system - consisting of the compact circular vibrating screen RS114 in combination with the return belt RB95 - is the perfect addition for the track-mounted R1100DS for the production of 100 % defined final grain. The components are mounted directly on the main discharge belt and are driven through the additional hydraulic system of the crushing plant.

Technical details:

Screen size: 3100 x 1350 mm | 10.2 x 4.5 ft

Standard mesh: 38 mm | 1.5 in

Special meshes on demand.

Screenbox hydraulically lowerable!

Discharge conveyor fines:

Belt width: 1200 mm | 48 in

Discharge height: ~ 3,2 m | 10.5 ft

Discharge conveyor oversize grain:

Belt width: 600 mm | 24 in

RB 95 return or stockpile belt:

Belt width: 600 mm | 24 in

Discharge height: ~ 3,6 m | 12.0 ft

Transport dimensions R1100DS + RS114 + RB95:

Length: 15,70 m | 51.6 ft

Width: 2,99 m | 9.9 ft

Height: 3,40 m | 11.2 ft

Total weight: 37,6 t | 82,900 lbs

Transport dimensions R1200D + RS114:

Length: 15,70 m | 51.6 ft

Width: 2,75 m | 9.1 ft

Height: 3,40 m | 11.2 ft

Total weight: 41,5 t | 91,500 lbs

General information

The company

The company **Kormann Rockster Recycler GmbH** specializes in the development and production of mobile crushing and screening systems. The Rockster-team consists exclusively of long-time market insiders, each bringing **years of experience** into perfecting the Rockster design concept, as well as being personally available to share their expertise with customers.

Customer orientation and maximum customer care is the ultimate ambition of all Rockster products and services.

The key criteria specified by Rockster are **maximum performance** and **quality**, operating and maintenance friendliness as well as easy transportation due to **compact dimensions** and low weight.

The ROCKSTER concept

RELIABILITY - maximum reliability due to the highest product quality standards.

OPERATING EFFICIENCY - higher operational efficiency due to the transport dimensions (easy transport – no special permits in many cases), simple maintenance and handling.

CAPACITY - higher production capacity as a result of special high-speed rotor and enormous power reserves for the drive systems.

KNOWLEDGE - many years of practical experience in advanced machine design creates tremendous value for customers.

SERVICE - round-the-clock service and support is the company hallmark, with rapid response and immediate availability of spare and wear parts.

TECHNOLOGY - using industry-standard brand components assures adherence to the highest technical standard.

ENVIRONMENT FRIENDLY - engineered to meet the highest environmental standards with the installation of low-pollution engines and complex sound suppression systems.

REVENUE - designed to meet customers' revenue and return-on-investment requirements due to low investment and operating costs, plus the unique advantages of the DUPLEX system – maximizing machine utilization with multiple crusher capabilities on one carrier.

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Print and punctuation errors excepted. Content is subject to change without notice.

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