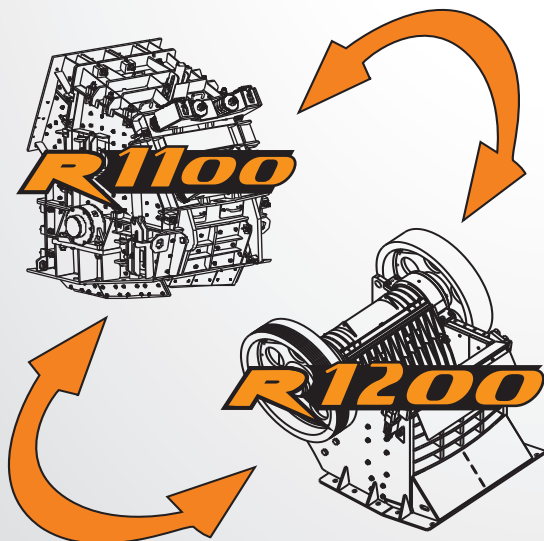


# Product description

## Duplex-System R1100D/R1200



[www.rockster.at](http://www.rockster.at)

## Application areas of Duplex-Systems R1100 - R1200

### 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 in shortest time **changed from Jaw crusher into Impact crusher** - and vice versa.

The **track mounted crushing plant** convinces as **Impact crusher R1100D** with perfect cubic final grain quality and highest performance and allows flexible operation in recycling of asphalt, concrete and rubble and as **Jaw crusher R1200** 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 and crushing procedures of:

concrete



rubble



asphalt



bricks



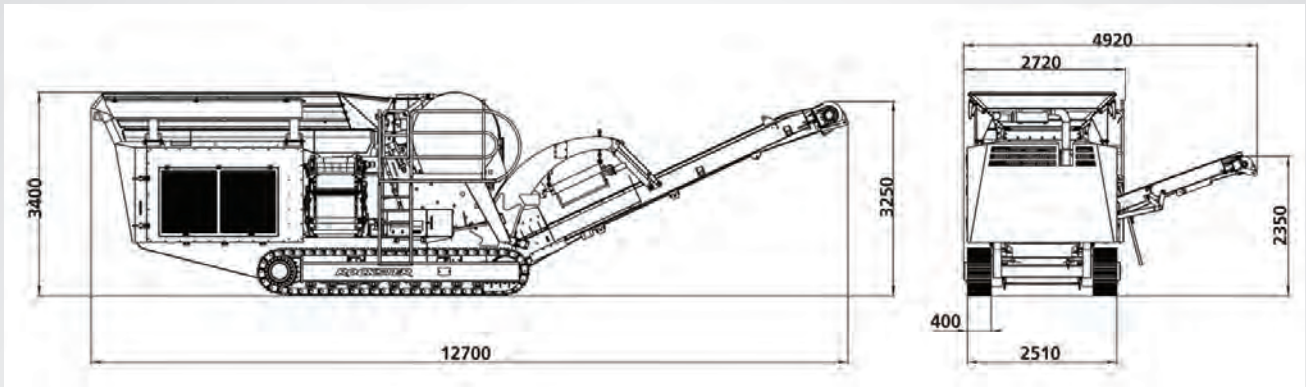
virgin stone



The result:  
perfect final grain



## Main dimensions



Transport measures:

Length: 12700 mm

Width: 2720 mm

Height: 3400 mm

Transport Weight: 34,4 to (R1100D)

38,9 to (R1200)

Feeding height:

3400 mm

Discharge height:

Main discharge belt: 3250 mm

Side discharge belt: 2350 mm

## Conversion of Duplex-Systems

### from Jaw crusher to Impact crusher - in shortest time

Within a few hours the track mounted crushing plant R1200 can be changed from Jaw crusher into an Impact crusher (R1100D) - and vice versa.

Therefore the plant can be optimized to the dif-

ferent requirements of the feeding material and guarantees a versatile operation of the plants. Furthermore this saves resources in the plant engineering.



## Technical Details

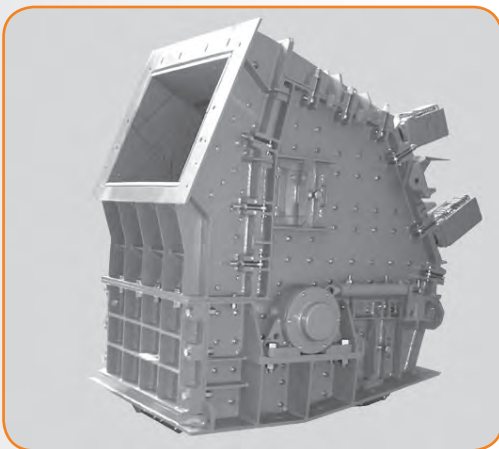
### Duplex-System - unique and flexible

The **track-mounted crushing plants R1100D/R1200** are installed fully hydraulic and based on the same basic chassis.

The hydrostatic driving system, which allows a **clockwise or anti-clockwise operation** of the crusher and makes it possible to install both crushing

units on the same basic frame and 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 not only optimizes but raises further the machine utilization.



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

#### Impact crusher

Inlet opening:	1100 x 720 mm
Impact circle diameter:	1020 mm
Rotor equipment:	4 hammers
Crushing ratio:	1:10 - 1:50
Performance:	up to 350 t/h
Rotor speed:	up to 850 rpm
Weight:	9.800 kg
Drive:	hydrostatic

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.



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

#### Jaw crusher

Inlet opening:	1200 x 680 mm
Crushing ratio:	1:8
Gap adjustment:	hydraulic
Performance:	up to 280 t/h
Weight:	14.500 kg
Drive:	hydrostatic
Speed adjustable:	0 - 280 rpm

Also in the hardest conditions the R1200 guarantees highest crushing power and lowest wear.

## Technical Details



### Drive:

Motor:	CAT C9
electronically regulated	
Power:	242 kW
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 channel, crawler gear...) as well as the pump for the hydrostat

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

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

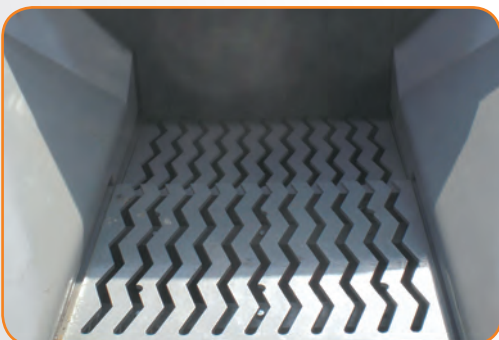
### Advantages of the hydrostatic drive:

- Individually **adjustment of crusher speed**
- Adjustment of rotating direction
- the usual **clutch is replaced**



### Feed hopper:

Feature:	Hardox 400
Volume:	5 m <sup>3</sup>
Feeding length:	4400 mm
Feeding width:	2500 mm
Feeding height:	3400 mm



### Vibration channel with pre-screening:

Feature:	Hardox 400
Length pre-screening:	1800 mm
Width:	1100 mm
Gap width:	ZigZag 32 mm
Option:	bar screen
Drive:	hydraulic infinitely 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
Discharge height:	3200 mm
Angle:	25°
Drive:	hydraulically, infinitely variable
For transport the main discharge belt is foldable hydraulically.	



### Side discharge belt:

Belt width:	650 mm
Discharge height:	2350 mm
Angle:	20°
Drive:	hydraulically
For transport the side discharge belt is foldable hydraulically.	



### Magnetic separator:

Type:	Permanent magnet
Belt width:	750 mm
Wheel base:	1700 mm
Weight:	1350 kg
Drive:	hydraulically
Discharge on both sides	



### Caterpillar crawler:

Tread width:	400 mm, slanted
Wheel base:	3800 mm
Surface:	triple ribbed pads
Climb:	34°
Drive:	2-speed hydraulic



### Control panel:

Central Control/Operating unit ensures an easy operation and machine monitoring.

## Special features



### Environmental Compatibility:

Reduction of emissions through:

- efficient dust suppression and
- sound-proofed housing



### Easy service & ideal accessibility:

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

## Options:



water pump



central lubrication



main belt - wear protection  
(only R1100)



sound protection cover

## Option: Screening system RS94 + RB85



### Defined final grain in one workflow:

The optional screening system - consisting of the compact circular vibrating screen RS94 in combination with the return belt RB85 - is the perfect addition for the track-mounted R1100 and R1200 (Impact crusher and Jaw crusher) 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: 2600 x 1350 mm  
Standard screen: 34 mm  
Special screens on demand.  
Output: up to 260 t/h

### Discharge conveyor final grain:

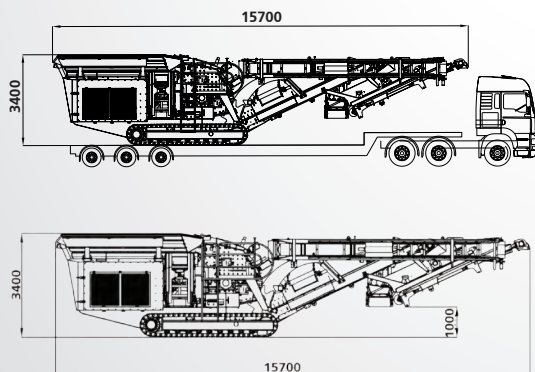
Discharge height: 3250 mm  
Belt width: 1200 mm

### Discharge conveyor oversize grain:

Discharge height: 2000 mm  
Belt width: 650 mm

### Return belt oversize grain RB85:

Belt width: 650 mm



### Transport dimensions R1100/1200 + RS94 + RB85:

Length: 15700 mm  
Width: 2720 mm  
Height: 3400 mm  
Total weight: 39,1 to (R1100D)  
43,6 to (R1200)



# General Informationen

## 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 smooth transportation due to **compact dimensions** and low weight.

## Das ROCKSTER Concept

**R**eliability - maximum reliability due to highest product quality, full hydraulics and minimum electronics.

**O**perating efficiency - highest efficiency due to problem-free transport (no special permits), simple maintenance and handling.

**C**apacity - highest capacity due to high speed rotor and enormous power reserves for the drives.

**K**nowledge - Realization of practical experience of many years in a progressive machine concept.

**S**ervice - 24/7 service for rapid support for problems as well as immediate availability of all spare and wearing parts.

**T**echnology - Production of high-quality crushing product due to optimal organization of the crushing procedure. The use of exclusively long time approved market components guarantees highest technical standard.

**E**nvironment friendly - Fulfilment of highest environmental standards due to installation of low-pollution engines as well as complex acoustic insulation.

**R**evenue - Shortest amortization due to small investment and operating costs. Unique possibility of additional increase of machine efficiency due to the Rockster Duplex-System.



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Print and punctuation errors excepted.