



R1000S

MOBILE TRACK-MOUNTED IMPACT CRUSHER

Performance up to 310 st/h / 280 t/h*

Transport weight 68,350 lbs / 31,0 t

Fully hydraulic 

PRODUCT DESCRIPTION

EFFICIENT
CRUSHING
TECHNOLOGY



Rockster Austria International GmbH | Matzelsdorf 72, 4212 Neumarkt i.M., Austria
Tel.: +43 720 70 1212 | office@rockster.at | www.rockster.at



ROCKSTER[®]

*depending on material



MOBILE TRACK-MOUNTED IMPACT CRUSHER

R1000S

**COMPACT
FLEXIBLE
PERFORMANCE**



Perfect cubic final grain

COMPACT. FLEXIBLE. POWERFUL.

The mobile impact crusher R1000S is specially developed for applications where space is limited such as for inner-city projects.

Because of its optimal dimensions, the R1000S is easily transported from one jobsite to another. It is the perfect combination of compactness and maximum performance.

Rockster's mobile track-mounted impact crusher is based on a fully hydraulically concept, which allows flexible recycling of asphalt, concrete and demolition debris.

Besides previously mentioned materials, the R1000S is also suitable for precise processing of natural stone.

R1000S IS THE MOST COMPACT SOLUTION FOR RECYCLING & CRUSHING OF:

CONCRETE



Recycled concrete blocks 0/16

DEMOLITION DEBRIS



Subbase road 0/32

ASPHALT



Road 0/32

BRICK



Refilling pipelines 0/64

VIRGIN STONE



Forest road 0/32

MAIN DIMENSIONS

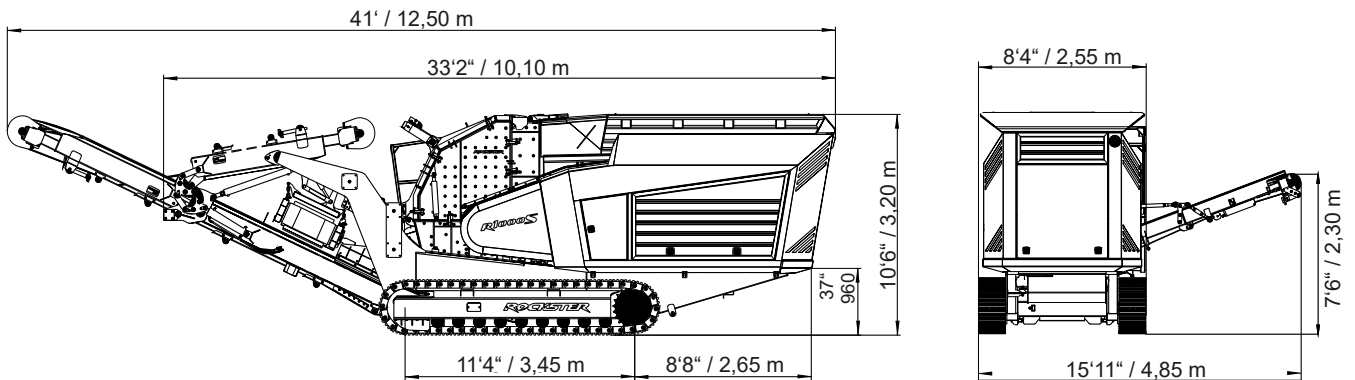
R1000S

Transport dimensions

Length:	33'2" / 10,10 m
Width:	8'5" / 2,55 m
Height:	10'6" / 3,20 m
Weight:	68.350 lbs / 31,0 t

Feeding & discharge height

Feeding height:	10'6" / 3,20 m
Main discharge belt:	~ 10'6" / 3,20 m
Side discharge belt:	~ 7'6" / 2,30 m



TECHNICAL DETAILS

MAXIMUM FLEXIBILITY

The Rockster impact crusher guarantees highest performance at a very high crushing ratio. Due to two hydraulically adjustable swing-beams, as well as the rotor speed variation, the final grain can be precisely defined. High quality blow bars can be used bilaterally too

and are chosen individually depending on the application. The blow bar exchange is possible through a built-on blow bar exchange device, therefore an external lifting device is not necessary. High quality wear materials ensure reduced wear.

Impact crusher

Inlet opening:	38" x 29" / 960 x 720 mm
Impact circle diameter:	41" / 1040 mm
Rotor equipment:	4 blow bars
Crushing ration:	1:10 - 1:50
Performance:	up to 310 st/h / 280 t/h
Rotor speed (continuously adjustable):	up to 850 rpm
Drive:	hydrostatic
Gap adjustment (adjusted on display):	fully hydraulic
Dust suppression:	At the crusher inlet & outlet



Drive unit

Engine (electronically regulated):	Volvo Stage IIIA - 235 kW / 320HP
	Volvo Stage IV - 235 kW / 320HP
	CAT Stage IIIA - 242 kW / 325HP
	CAT Stage V - 250 kW / 335HP
Cylinder:	6
Cooling system:	water

The drive system is located at the rear of the machine, enclosed in a sound-proofed housing. Engine openings are positioned on all sides for easy access, service and overall maintenance.

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

- > Elimination of conventional clutch. No wear.
- > Individual adjustment of crusher speed
- > Crusher overload protection
- > Power adjustment according to individual requirements
- > Uniform throughput
- > Enormous power reserves

Feed hopper

Material:	Hardox 400
Volume:	5.5 yd ³ / 4,2 m ³
Length:	12'6" / 3800 mm
Width:	8'2" / 2500 mm
Height:	10'6" / 3200 mm



Vibration chute with 2-deck pre-screening

Material:	Hardox 400 / 2-step
Pre-screen length:	5'5" / 1660 mm
Type:	Zig zag
Option:	bar screen
2-deck pre-screen:	Standard mesh 1 1/3 / 34 mm (3'11" x 3'3" / 1200 x 1000 mm)
Drive:	hydraulic - with load-dependent speed control Overload protection
Construction:	separated from hopper - freischwiegend auf Federn
Advantages:	More efficient material flow, less clogging



Bypass - 3 different work flows

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

Easy switch via hand lever.

No special assembly necessary.

No wear. No service.



Main conveyor belt, to increase the performance of the crusher (fine end-product bypasses the crusher).



Medium-size product like Example 1, the end-product goes to the side conveyor belt.



Side conveyor belt, to clean the material or to get an extra final product.

Main discharge belt

Belt width:	44" / 1100 mm
Discharge height:	~ 10'6" / 3,20 m
Angle:	26° adjustable
Drive:	hydraulic, continuously variable

The main discharge belt is hydraulically lowerable for service and maintenance as well as hydraulically foldable for transport purposes.



Side discharge belt

Belt width:	20" / 500 mm
Discharge height:	~ 7'6" / 2,30 m
Angle:	20°
Drive:	hydraulic

The side discharge belt is hydraulically foldable for transport purposes.



Magnetic separator - adjustable height

Type:	Permanent magnet
Belt width:	30" / 750 mm
Weight:	2500 lbs / 1130 kg
Drive:	hydraulic
Height adjustment:	via remote control
Benefits:	<ul style="list-style-type: none"> > Avoid damage to the main belt > Simplified adjustment of the optimal distance > Easy removal of all blockages



Vibrating hardox discharge chute

Length:	5'11" / 1800 mm
Width:	3'11" / 1200 mm
Drive:	hydraulic - through vibration gear
Benefits:	<ul style="list-style-type: none"> > No wear of the main belt, especially beneficial when crushing steel-reinforced concrete



Caterpillar crawler

Tread width:	16" / 400 mm - slanted
Wheel base:	11'4" / 3450 mm
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 wireless remote control.

Fully automatic engine Start-Stop system with only one button.

- > Save the operation settings for various applications
- > Error monitoring - error log
- > Input & output status
- > Fast start of operation (QUICKSTART-Function)
- > Fully hydraulic gap adjustment via machine control system. Integrated measuring system



ROCKSTER FEATURES

R1000S

Environmentally friendly

Reduction of emissions through:

- > efficient dust suppression
- > sound-proofed housing
- > motor drive according to the latest technology standards



Easy maintenance & ideal accessibility

Large covers enable optimal accessibility when it comes to service and maintenance. Furthermore they ensure optimal ventilation of the drive-unit and the cooler.

The high-lift function of the side and rear doors saves additional space and ensures more operating space.



The swiveling catwalk is another advantage that contributes to high accessibility and easier maintenance.

OPTIONS



Sound insulation



Main belt - wear protection



Water pump



Air compressor



Blow-bar exchange system



Belt scale incl. printer

OPTIONS

R1000S

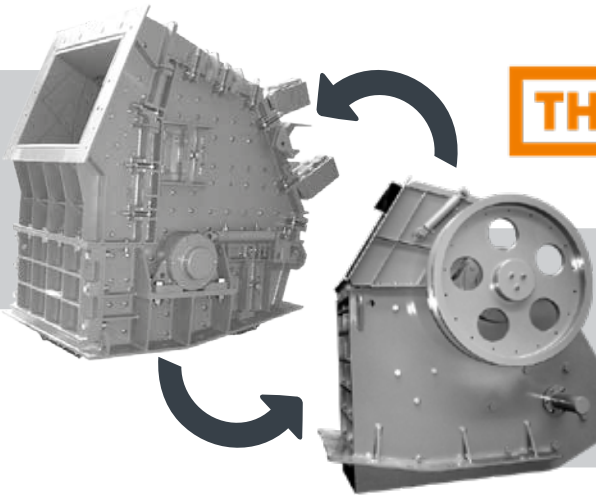
DUPLEX SYSTEM*

The hydrostatic drive & the unique design of the Rockster crusher allows the transformation from an impact crusher to a jaw crusher and vice versa in only a few hours.

Achieve maximum machine utilization by using one carrier and different crusher units to rapidly adapt to different job requirements.



Impact crusher



THE ORIGINAL
since 2004

Jaw crusher

*currently in development

AIR BLOWER - for cleaner and higher quality final product

RVB1700

The Rockster Air blower RVB1700 is used to efficiently separate non-aggregates from the final end-material, which results in a cleaner and higher quality final product.

This enables Rockster customers to work more environmentally friendly and economically.



Technical details

Air volume:	up to 1.700 m ³ /h / 2,223 yd ³ /h
Differential pressure:	up to 7.000 Pa
Drive power:	up to approx. 15 kW / 20HP
Drive - rpm:	up to 3.200 rpm
Weight:	approx. 150 kg / 330 lbs



VIDEO



OPTION: SCREENING SYSTEM - SCREEN BOX RS100 + DOUBLE-FUNCTIONAL RETURN- OR STOCKPILE BELT RB92

R1000S

Defined final product in one workflow

The optional screening system consists of the compact circular vibrating screen RS100 in combination with the return belt RB92. The screening system is a perfect addition for the production of 100 % defined final grain.

The components are mounted directly onto the main discharge belt and are driven through the additional hydraulic system of the crusher.

In addition, the return belt can be used as a stockpile belt, which enables the production of the second product.



Vibrating screen

Special screens available on demand

Screen size:	8'6" x 4'5" / 2600 x 1350 mm
Standard mesh:	1 1/2" / 38 mm
Benefits:	<ul style="list-style-type: none"> > The screenbox is hydraulically lowerable to save maintenance time. > The amplitude is adjustable. > Integrated support feet for easy disassembly of the main conveyor and the screen box



Discharge conveyor - fines

Belt width:	3'11" / 1200 mm
Discharge height:	~ 9'11" / 3,0 m



Discharge conveyor - oversize grain

Belt width:	24" / 600 mm
-------------	--------------

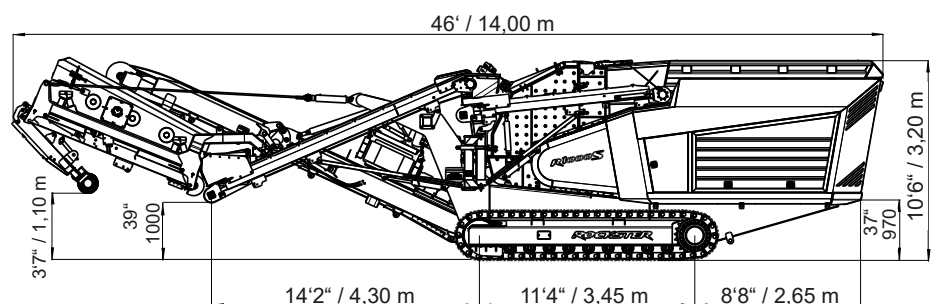
RB92 return or stockpile belt

Belt width:	24" / 600 mm
Discharge height (main conveyor):	~ 12'6" / 3,8 m



Transport dimensions R1000S + RS100 + RB92

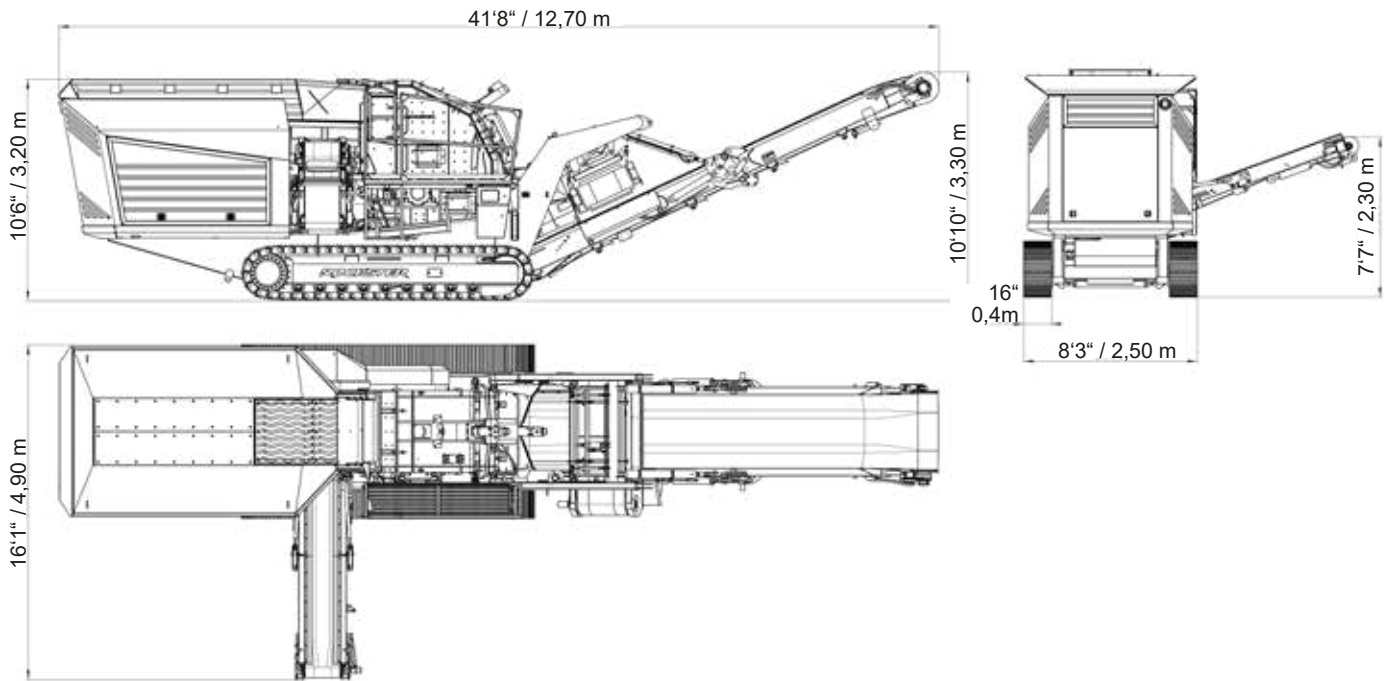
Length:	46' / 14,00 m
Width:	9'4" / 2,83 m
Height:	10'6" / 3,20 m
Weight:	78,300 lbs / 35,50 t



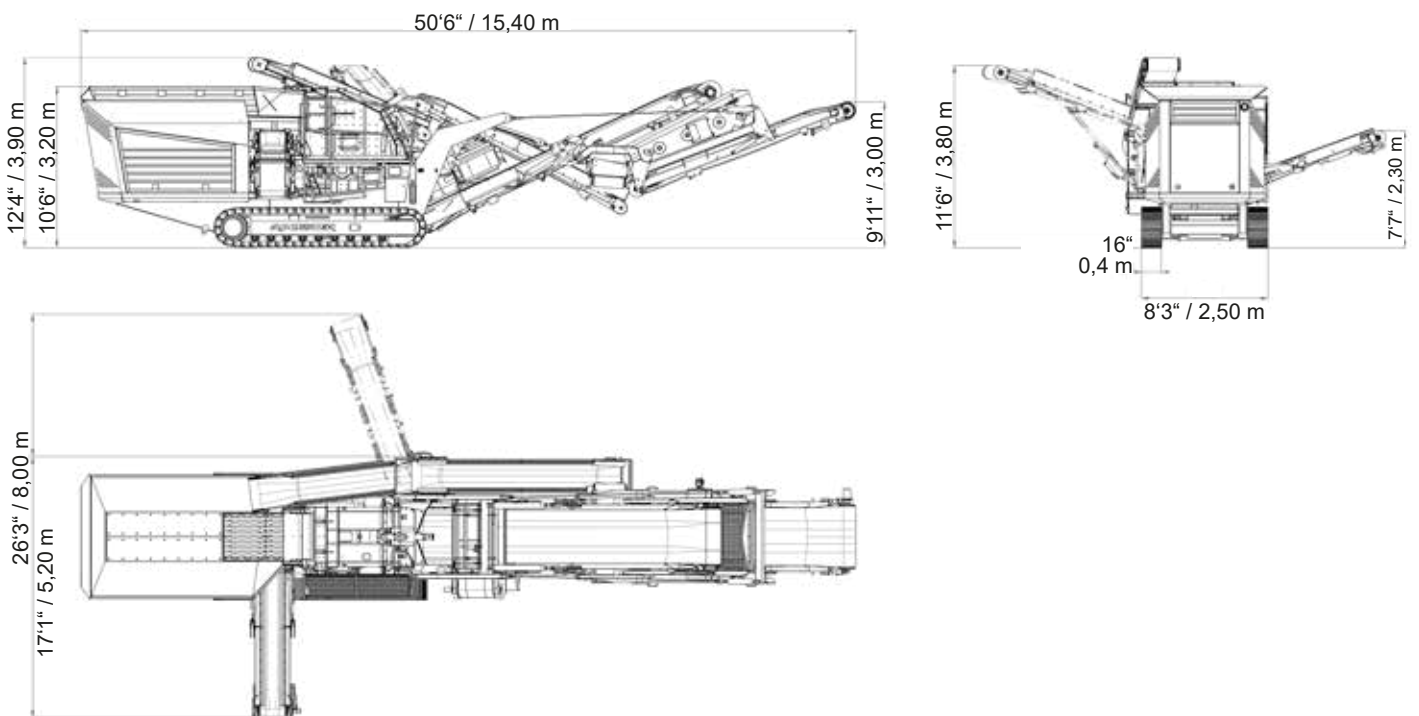
WORKING DIMENSIONS

R1000S

R1000S



R1000S with screening system



GENERAL INFORMATION



Austrian based manufacturer Rockster Austria International GmbH has a long-lasting reputation and the know-how in demolition and screening industry.

Our product line includes, among others, track mounted impact and jaw crushers, screening machinery and tracked stackers. Our mobile crushers and screeners are used for profitable & economical recycling of asphalt, concrete and construction waste, as well as for the efficient processing of natural stone.

With innovations like the original DUPLEX system, double functional return belt, Rockster repeatedly demonstrates its progressive approach towards improving and developing more efficient recycling methods.

Rockster machines are sold in more than 50 countries worldwide. Because of a strong dealer network, reliable customer support and continued innovations Rockster remains one of the fastest growing companies in our industry.

The Rockster concept

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

OPERATING EFFICIENCY - higher operational efficiency due to optimized transport dimensions (easy transport – no special permits needed 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.

ENVIRONMENTALLY 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. Additionally the unique advantages of the DUPLEX system maximize machine utilization with multiple crusher capabilities on one carrier.





Note: These specifications are subject to change without notice.
Please consult your local dealer/distributor for detailed specifications.

EFFICIENT CRUSHING TECHNOLOGIE

Rockster Austria International GmbH | Matzelsdorf 72, 4212 Neumarkt i.M., Austria
Tel.: +43 720 70 1212 | office@rockster.at | www.rockster.at

