

PRODUCT DESCRIPTION



R1000

MOBILE TRACK-MOUNTED IMPACT CRUSHER

Inlet opening

960 x 720 mm / 38" x 29"

Performance

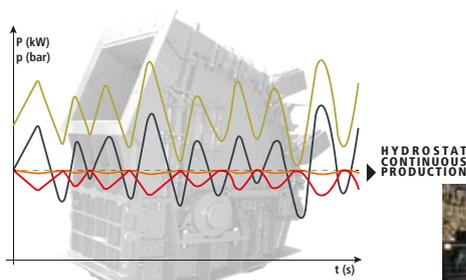
bis zu 280 t/h / 310 st/h*

Weight

31,0 t / 68.350 lbs



Continuous power to the rotor, independent from the engine, for constant crushing performance.



Rockster's hydrostatic drive makes sure that the engine runs in optimum rpm independent from the rotor.



Compact, mobile & easily moved on the construction site. Less down-time.



CONSTANT PERFORMANCE



HYDROSTATIC DRIVE



MAXIMUM FLEXIBILITY



INCREASED MOBILITY



EASE OF OPERATION



LONG-TERM RELIABILITY



Optimal transport dimensions for fast loading and unloading of the crusher.



Quality parts from leading component manufacturers.



Intuitive easy-to-use central machine control unit with a radio remote control.

APPLICATION AREAS



Perfect cubic final grain

COMPACT. FLEXIBLE. POWERFUL.

The mobile **impact crusher R1000** is specially developed for applications where space is limited such as for inner-city projects.

Because of its optimal dimensions, the R1000 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 R1000 is also suitable for precise processing of natural stone.

R1000 - your reliable, compact solution for recycling and crushing of:

CONCRETE



Recycled concrete blocks 0/16

C&D WASTE



Subbase road 0/32

ASPHALT



Road 0/32

BRICK



Refilling pipelines 0/64

VIRGIN STONE



Forest road 0/32



SCAN & WATCH

*“We have certainly tested 4 or 5 different mobile crushers and for us the whole Rockster package was tailored exactly to our needs. **The hydraulic system is very user-friendly and familiar, which we prefer in comparison to electric, because we simply have more experience in this area.** Not to forget, of course, the air Blower. It works flawlessly and blows away light material such as wood, plastic, textiles or Ytong parts in one operation, nobody has to remove it by hand.”*

Anna Kober, CEO
Kober Transporte GmbH, Austria



„This machine is in the optimum performance class for contract crushing.”

Martin Hopf, CEO
Hopf Bagger KG, Austria



SCAN & WATCH

„I can easily set the crushing gap on the display, it is quick and uncomplicated. I also think it's great that almost all the functions of the crusher can be controlled via remote control.”

Tobias Poschinger, Machine Operator
Anton Sedlmaier GmbH, Germany



SCAN & WATCH

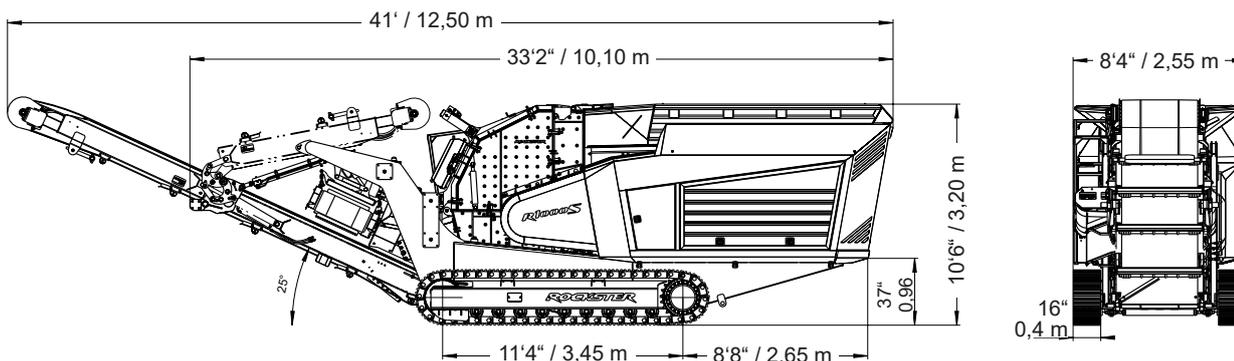
MAIN DIMENSIONS

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

| | |
|--|-------------------------------|
| 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 |



1. Maximum flexibility for top performance

The Rockster impact crusher guarantees the highest performance with a very high crushing rate. With two hydraulically fully adjustable aprons working independently from one another, as well as the option to variably adjust the crusher speed, the size of the final product can be highly optimised.

2. Individual adjustment of the degree of hardness

Depending on the material being processed, the hardness of the blow bars can be individually selected. This ensures optimal performance in various working conditions.

3. Use of the blow bars on both sides

The Rockster impact crusher's blow bars can be used on both sides, which extends the life of the wearing parts and at the same time reduces maintenance intervals.

4. High quality wear materials

Rockster uses only high-quality wear materials. This not only ensures low wear, but also ensures a reduction in daily operating costs.

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



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.



OPTIONS



Central lubrication system



1 Belt weigh scale incl. printer



2 Air compressor



3 Water pump



4 Blow-bar change system



5 Dust suppression

OPTIONS - SCREENING SYSTEM



Defined final product

Compact circular vibrating screen RS100.

Double-functional return or stockpile belt RB92.

Perfect addition for the production of 100 % defined final product.

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 |
|-------------|--------------|

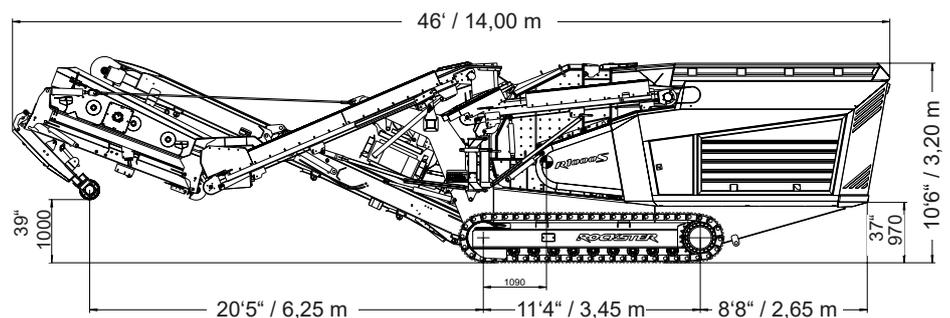
RB92 return or stockpile belt

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



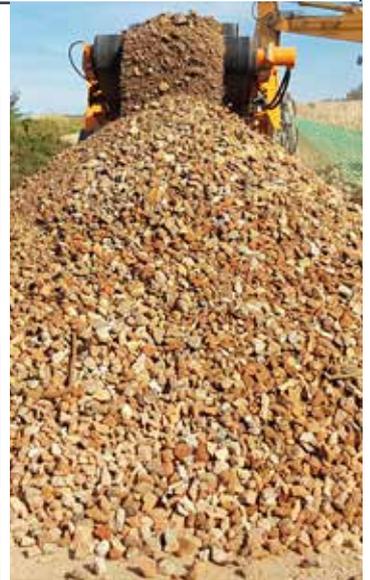
Transport dimensions R1000 + RS100 + RB92

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



OPTIONS - AIR BLOWER

R1000



FOR A 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.

The Rockster RVB1700 air blower is hydraulically operated and can be completely integrated onto every Rockster crusher. The centerpiece of the RVB1700 is a variably adjustable blower, which is connected by flexible hoses to the air nozzle, which has an adjustable angle.

Through the narrow slot of the air nozzle, the air emerges and blows diagonally from below through the crushed material, so that the unwanted lightweight materials such as polystyrene, styrofoam, textile, cardboard, gypsum, plastic, foil, wood, are removed. With relatively little effort, the required final products can have a significantly higher value.

The RVB1700 was also developed as a retrofit kit for Rockster mobile crushers.

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 / 20 hp |
| Drive - rpm: | up to 3.200 min ⁻¹ |
| Weight: | approx. 150 kg / 331 lbs |



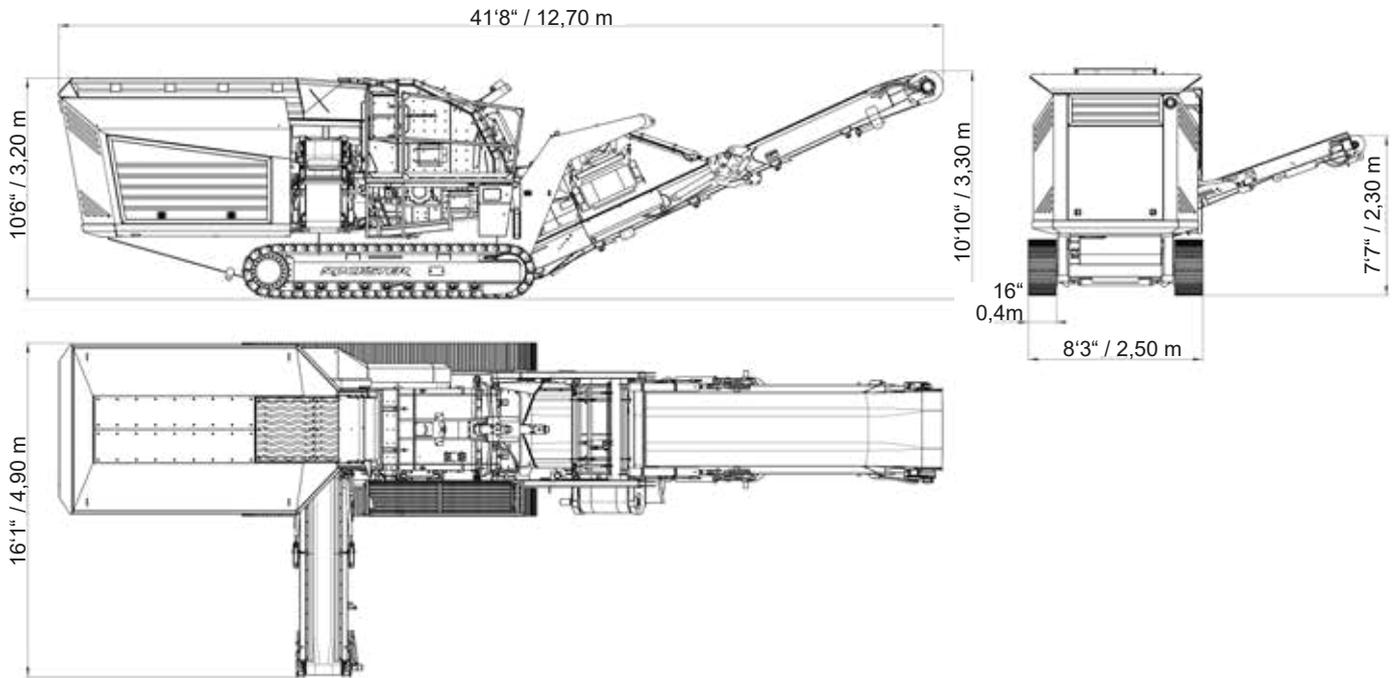
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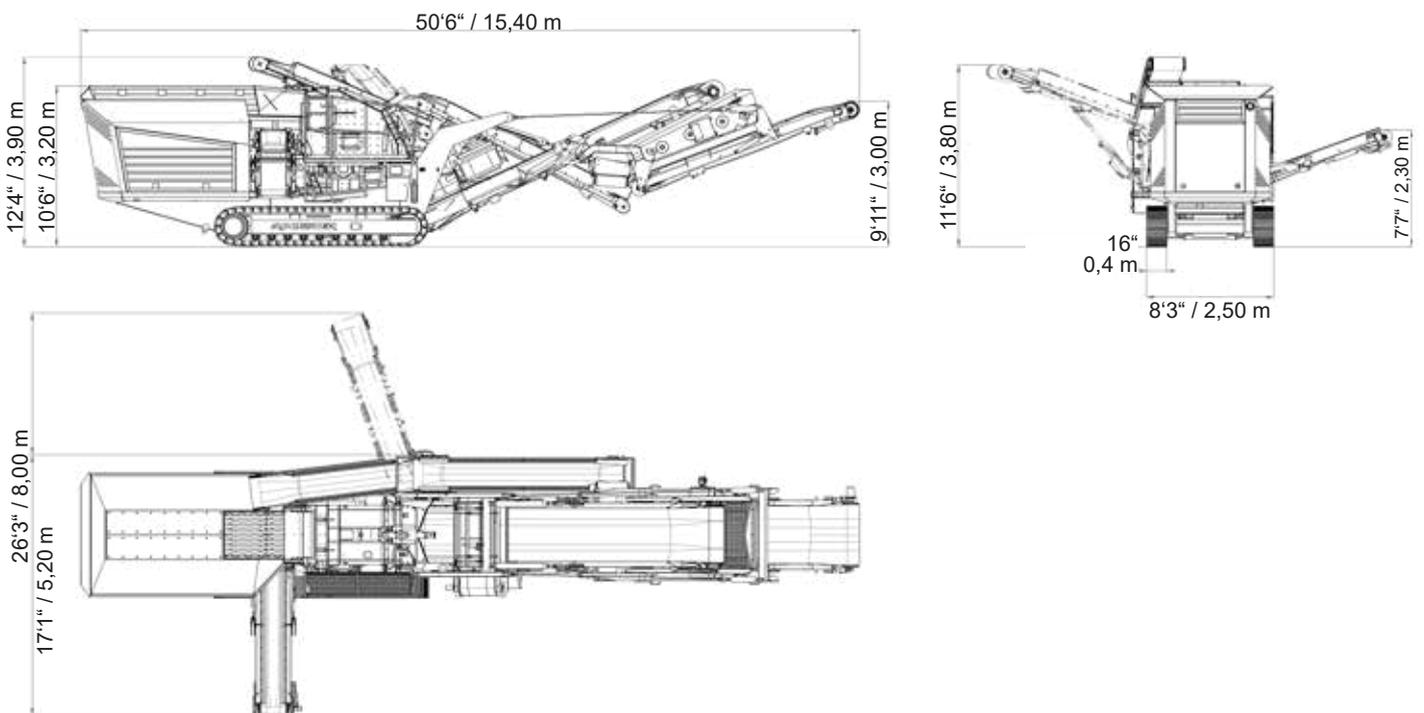
WORKING DIMENSIONS



R1000



R1000 with screening system



GENERAL INFORMATION



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

The 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 and processing of asphalt, concrete and construction waste, as well as for natural stone.

With innovations like The Original DUPLEX system or double-functional return belt, we repeatedly demonstrate our progressive approach towards improving and developing more efficient recycling & processing methods."

Rockster machines are sold in more than 50 countries worldwide. Our sales partner network guarantees the ideal on-site package of product and service in order to support and secure the daily success of our customers.





Rockster Austria International
Headquarters, Austria

SOLD IN MORE THAN 50 COUNTRIES WORLDWIDE

**COMPETENCE.
PROGRESS.
PARTNERSHIP.**

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