



# RockRanger

RJ Transportable Primary Jaw Crusher



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# Parker Jaw Crusher 'RockRanger RJ' Series

The 'RockRanger RJ' is a fully transportable primary crushing plant complete with a Parker 'Rocksizer' single toggle Jaw crusher. The under frame is carried on bottom members designed to distribute ground loading, and is complete with a set of four hydraulic jack legs operated from the main plant hydraulic system to raise the crusher up for positioning on a suitable trailer unit. Built around a strong straight beam chassis with standard supports for feed section, jaw crusher, power unit and conveyor frame. The 'RockRanger RJ' is a high-capacity, extremely mobile crushing unit suitable for urban recycling and demolition projects.

**1 - Feed Hopper:** Feed hopper capacity 3.5m<sup>3</sup>

**2 - Vibrating Grizzly Feeder: 0.9m x 2.8m**

Drive from twin contra-rotating hydraulic vibrating motors (each with adjustable eccentric weights to determine feeder amplitude). The grizzly includes a 1.0m long replaceable fabricated plate grid (fixed aperture at discharge end between fingers of 58mm max), to remove under size material from the crusher feed.

**3 - By-pass Chute:**

Crusher by-pass chute - passing material from the grizzly screen direct to the main product conveyor feed boot. If the optional side dirt conveyor is supplied the chute include a manually operated two position door to discharge to the side conveyor when required.

**4 - Jaw Crusher:**

**RockSizer 800mm x 500mm (max feed size 455mm) single toggle**

Heavy steel plate body fabrication and steel jaw stock, Grease lubricated self-aligning roller bearings. Manual hydraulic pump and shim plate setting adjustment, jaw stock bearings fitted with adaptors for shock pulse bearing condition monitoring, and the body bearings include valves to prevent over-greasing, Matched flywheels; one grooved for vee belt drive, replaceable manganese-steel liners - inverted to maximise wear life.

**5 - Optional Magnetic Separator:**

**570 gauss @ 200mm (1460mm centers x 750mm wide)**

Permanent magnet and clearing belt with hydraulic drive.

**6 - Product Conveyor:**

**800mm wide - Discharge height 2.05mm**

Steel plate feed boot fitted with adjustable/replaceable sealing strips, three roll troughing idler assemblies and single roll return idlers all with sealed for life bearings, screw type belt tensioners, return counter balanced belt scraper at the head, crowned head and tail pulleys (rubber covered head), conveyor head pivoted back to reduce travelling dimensions by integral hydraulic cylinders.

**7 - Side Dirt Conveyor:**

**450mm wide - discharge height 1.32m (OPTIONAL)**

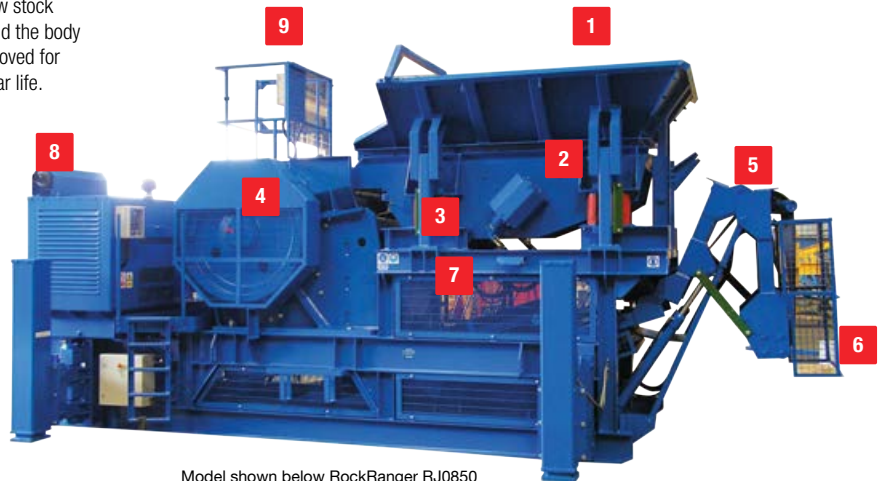
Parker belt conveyor arranged to discharge to the side of the plant; includes a steel plate feed boot fitted with adjustable/replaceable sealing strips, three roll troughing idler assemblies and flat return idler (all with sealed for life bearings). Screw type belt tensioners and counter-balanced belt scraper at the head. Manually folded back for travelling.

**8 - Power Unit: Caterpillar Model 3116 - 90kW**

Caterpillar water cooled diesel engine to drive the crusher and hydraulic system producing 90kW nominal, supplied as a complete power pack designed to suit quarry plant environments.

**9 - Control Station:**

Remote operator control station mounted on the operator platform, including start/stop push buttons, and hydraulic variable speed regulator for feeder.



Model shown below RockRanger RJ0850

## Advantages:

- Compact, transportable low profile unit.
- Rapid and easy to set-up.
- Rugged high capacity Parker 'RockSizer' jaw crusher.
- Vibrating grizzly feeder, with variable speed and remote control.
- Caterpillar (or similar) diesel hydraulic power pack with noise suppression.
- Side discharge conveyor and magnet fitted as standard.
- Hydraulic clutch release as optional extra.

Model	Weight (tonnes)	Capacity (tph)		Max Feed Size (mm)	Travelling Dimensions (mm)			
		50	125		Length	Width	Height	Crusher lift-up Clearance
RJ0850	25.5	50/65	105/140	455	7400	2500	2700	1150
					Working Dimensions (mm)			
					Length	Width	Height	8800

## Options:

- Side discharge conveyor
- Over-band magnet
- Hydraulic clutch release
- Dust Suppression

**NOTE:** Capacities quoted are intended as a guideline only, and are based on a clean, dry graded continuous feed material (weighing 1600kg/m<sup>3</sup> (100lb/ft<sup>3</sup>) and a S.G. of 2.7 average), which will readily enter the crusher feed opening without obstruction, with 100% greater than the jaw setting and 25% less than twice the jaw setting. Actual capacities can vary considerably from those given, due to the following application and operational factors: 1) **MATERIAL** - Friability & Toughness, 2) **FEED CONDITIONS** - Grading of feed size (Compliance with Euro STD), 3) **INSTALLATION** - Method of feeding, Removal of under size. [Operation at settings outside those stated should be referred to the works].

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