

THE RMS DEROCKER

The DEROCKER is ideal for alluvial mining in areas with large boulders, and can easily handle light to moderate clay with an optional high-pressure spray system. It delivers a standard -1.75" (44mm) product to downstream recovery and discharges clean washed +1.75" (44mm) rock and boulder separately. If specified with the order, this sizing can be prepared for 1.25" (32mm) to 1.75" (44mm), depending on your project needs, with our new articulating deck design.



Key Features

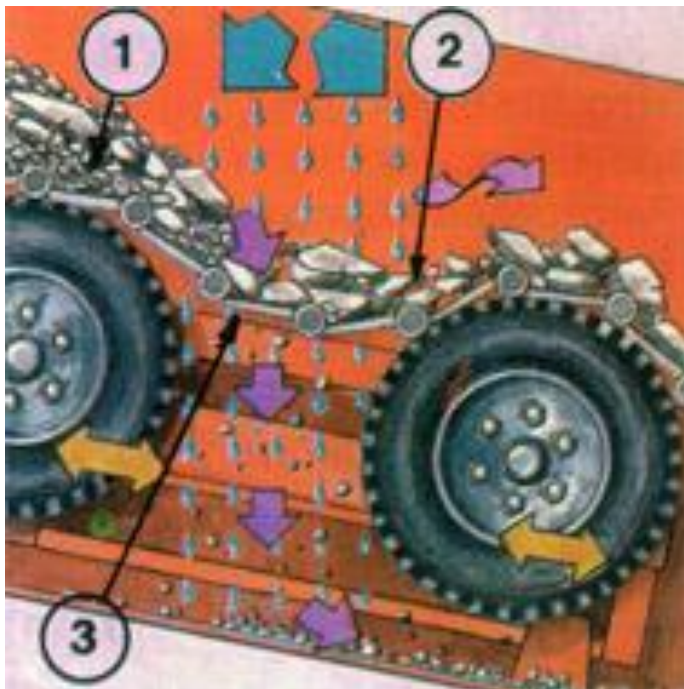
- Automatic, spring loaded feeder
- Self-cleaning articulating deck (Grizzly)
- All rocks scrubbed and washed thoroughly for maximum recovery of values

The DEROCKER was developed in Canada's historic Yukon Territory by a professional Placer Miner to overcome the problems of plugged grizzlies and effectively washing coarse rocks, boulders and gravel to liberate and retain the particles of gold.

The DEROCKER easily handles angular and slab shaped materials or boulders up to 4 feet (1.22 Meter) in diameter. Unlike other systems, the greater the percentage of larger rocks and boulders, the greater yardage the DEROCKER will process.



As the sub-frame moves back and forth (yellow arrows), the deck (3) undulates, causing the material (1) to move down the deck with the 1.75" (44mm) minus dropping through the articulating deck (Grizzly) (purple arrows) and out the bottom to the gold recovery system, leaving the washed coarser material (2) on the top of the deck to be discharged.



Specifications	Model 8 x 20	Model 10 x 20	Model 14 x 20
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Average Gravel Capacity

Cubic Yards/Hour	80 - 150	100 - 200	150 - 280
Tons per Hour	(120 - 230)	(150 - 300)	(230 - 420)
Cubic Meters Per Hour	60 - 120	75 - 150	120 - 220

Water Requirements*	1,000 - 1,800 GPM	1,500 - 3,000 GPM	2,100-4,000 GPM
	3,800 - 6,800	5,600 - 11,500	8,000 - 15,400
	Litres/Min	Litres/Min	Litres/Min

Operating Dimensions	8' 6" x 21'+	10' 5" x 21'+	14' 5" x 21'+
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Shipping Dimensions	8' 6" x 21'+	10' 5" x 21'+	1 piece 10' 5" x 21'+
			2 pieces 3' x 21'+

Weight	45,000 Lb	47,500 Lb	54,000 Lb
	20,500 Kg	21,500 Kg	24,500 Kg

Motor	30 HP Electric	40 HP Electric	50 HP Electric
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Articulating Live Deck 400 Brinell hardened steel alloy plates spaced 1.75" (44mm) apart joined by wear-resistant sealed Caterpillar pins and bushings

Hydraulics Variable speed volume pressure compensated pump, for adjustable automatic speed and cycle control, proximity sensor controlled

- Options**
- Dump box/feed deck can have straight sidewalls, for excavator feed, or extended in width to be more suitable for loaders or dozers
 - High pressure, high impact spray nozzle system available
 - Spray nozzles of various orifice sizes to match best with required water PSI and downstream pulp density requirements
 - Articulating deck plate spacing available from 1.25" (32mm) to 1.75" (44mm) for project specific preferred product sizing
 - Hinged side access protection doors to keep Hydraulic Power Unit clean and protected underneath the DEROCKER
 - Side wall mounted viewing platform with stairs and handrails
 - Take away trough available in a range of lengths and connections
 - Abrasion resistant (AR) steel plate floor available for extremely abrasive feed
 - Available in a range of voltage and hertz
 - Recovery units: Sluice Box, Circular Jigs, or Centrifugal Concentrators

* Processing capacity and water requirements vary with site conditions.



Hydraulic Drive Unit

There are a variety of dump box options available for the DEROCKER depending on the type and size of dozer, loader, or excavator used.

With the DEROCKER set on an eleven degree slope, the material to be processed is loaded into a surge pile in the upper end of the machine where a built-in Spring-Loaded Feeder evens the material flow across the deck while the loader cycles to the pit for more material.



The gold bearing boulders and gravels are moved across the self-cleaning articulating deck (Grizzly) in a wave action while being washed by high pressure from the water manifold. The coarse, rocky material is discarded from the lower end of the DEROCKER where it can be easily removed.

The 1.75" minus fines wash through the slots between the articulating deck plates and are carried out the bottom to suitable gold recovery equipment (Circular Jigs, Sluices, and Centrifugal Concentrators available from RMS) by the process water. The total water requirement of the system is relatively low as the sluice uses the same water that is used to wash the boulders.

