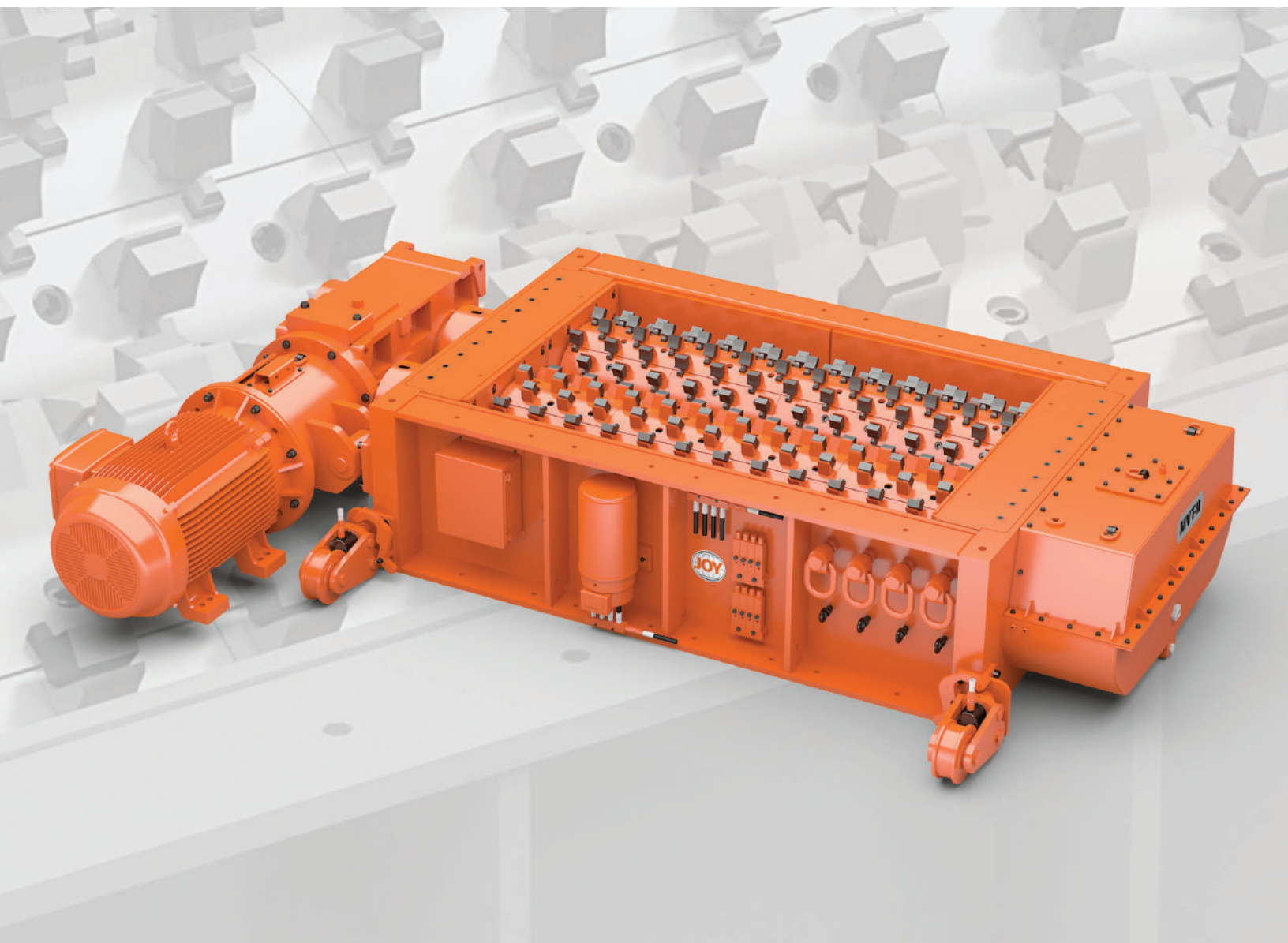


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MVT-II Sizer Product Overview

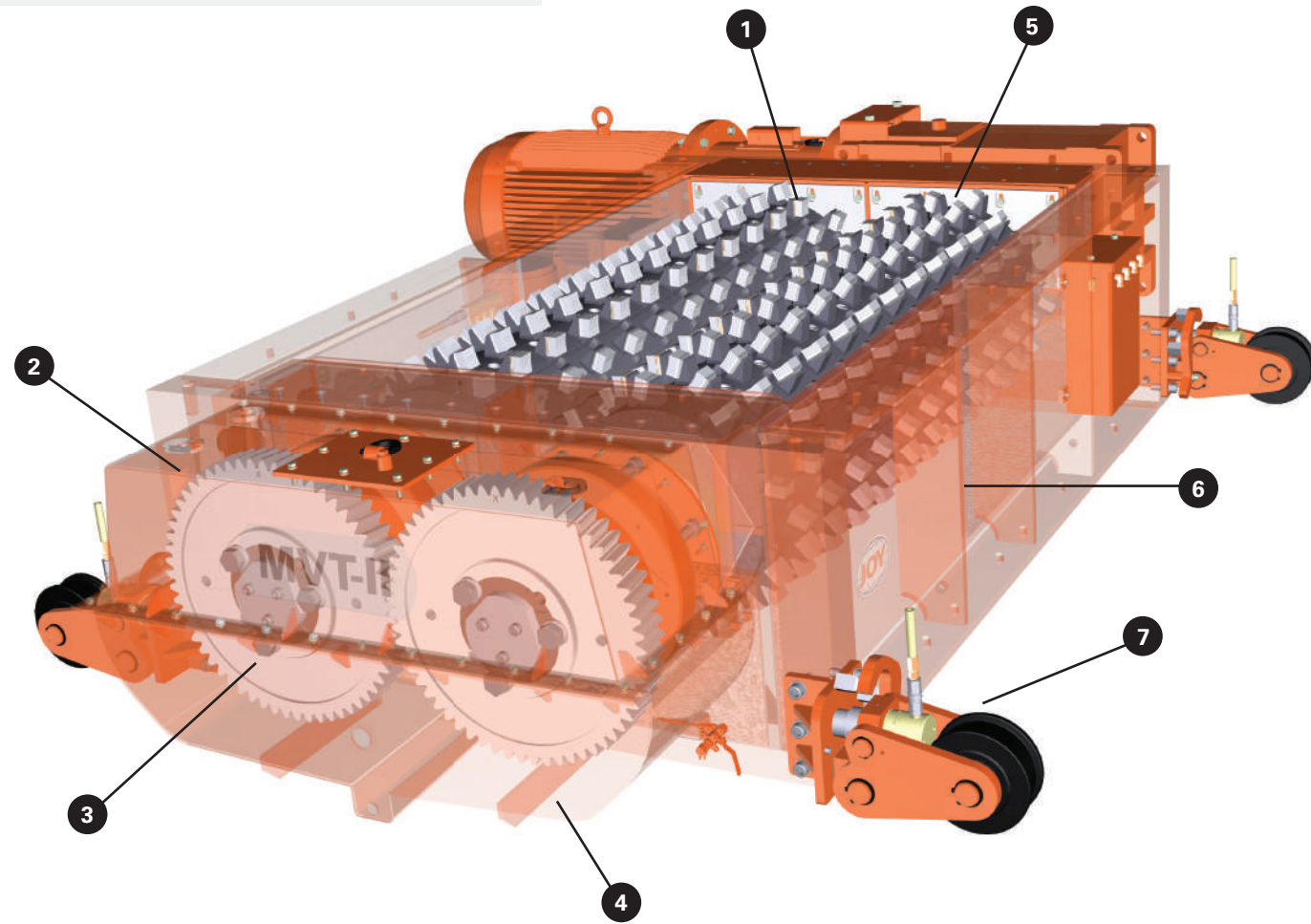


MVT-II sizer

Features and benefits

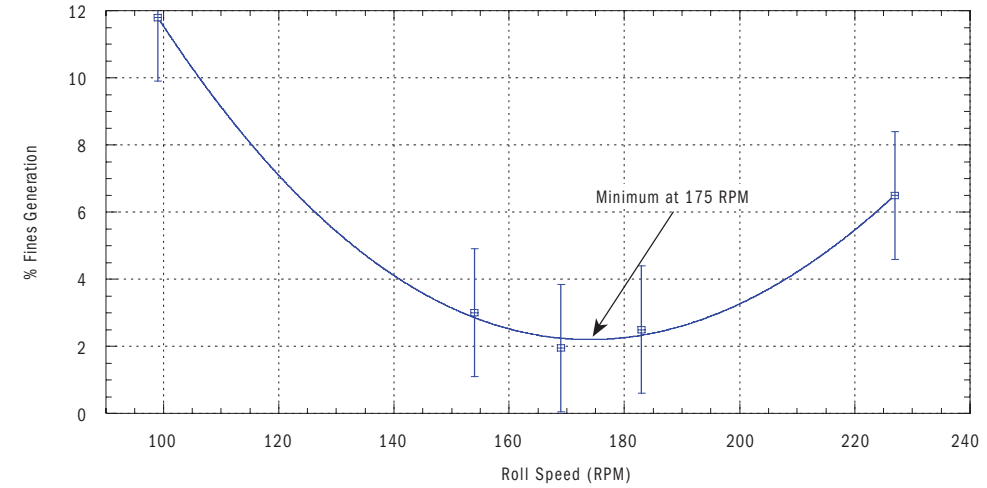
- Segmented roll design - only the worn segments need to be replaced
- Roll gap can be adjusted to optimize productivity
- Welded frame construction
- Self-cleaning, timed impact teeth optimize throughput by allowing sized material to pass through unimpeded

The MVT-II is a secondary and tertiary sizer that reduces fines generation through Matched Velocity Technology, while optimizing throughput capacity. Roll speeds are set to match the speed of incoming material, reducing excess fines created with other designs.



1. One piece solid roll shaft
2. All timing gears are oil lubricated
3. Helical gears for greater power transmission and quieter operation
4. Timing gears are totally enclosed and operate in a sealed lubricant bath
5. Replaceable bolt-on roll segments
6. Welded frame construction
7. Unit is wheel mounted utilizing hydraulic jacks to position sizer for maintenance. Upon disconnect from adjacent chutework, the MVT-II sizer can be raised and rolled into an easily accessible location.

Independent research indicated fines reduction using Matched Velocity Technology. For this test, fines were defined as a product size < 4 mm.



Roll speed, which varies for each application, is set to match the velocity of material falling through the sizer. Optimum roll speed for the research was 175 rpm. As the roll speeds decreased below or increased above the optimum application speed, fines generation rapidly increased.

Assumptions

- Coal @ .9 tonne/m³
- 50 Hz, 1430 RPM motor
- 3:1 crushing ratio
- Coal, no impurities
- Expected nominal capacities shown

MVT-II 600

Roll centers (mm)	600				Roll length (mm)			
	1000	1500	2000	2500	1000	1500	2000	2500
Product size -25	143 RPM 227 RPM	Capacity MTPH	146 226	219 339	292 452	365 565		
Product size -38	143 RPM 227 RPM	Capacity MTPH	221 343	331 514	440 685	551 856		
Product size -50	143 RPM 227 RPM	Capacity MTPH	291 462	436 693	581 924	727 1155		
Product size -65	143 RPM 227 RPM	Capacity MTPH	378 600	567 900	756 1200	945 1500		

MVT-II 800

Roll centers (mm)	800				Roll length (mm)			
	1500	2000	2500	3000	1500	2000	2500	3000
Product size -50	143 RPM 227 RPM	Capacity MTPH	582 924	776 1232	970 1540	1164 1848		
Product size -65	143 RPM 227 RPM	Capacity MTPH	756 1201	1008 1601	1260 2001	1512 2402		
Product size -80	143 RPM 227 RPM	Capacity MTPH	932 1479	1242 1972	1553 2465	1864 2958		
Product size -100	143 RPM 227 RPM	Capacity MTPH	1164 1848	1552 2464	1940 3080	2328 3696		

Contact your local Komatsu Mining representative for assistance with equipment selection.

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