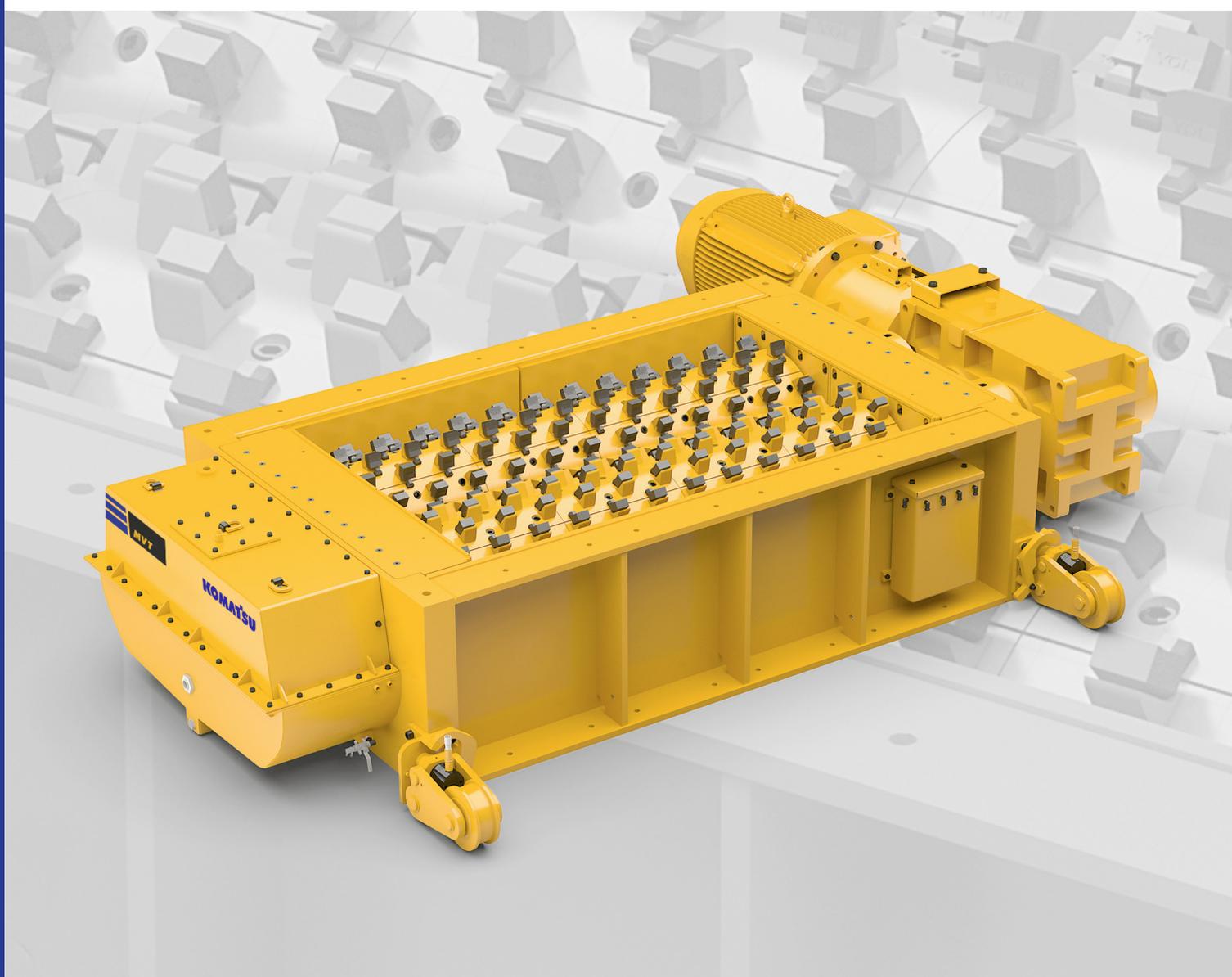




MVT-II Sizer Product Overview

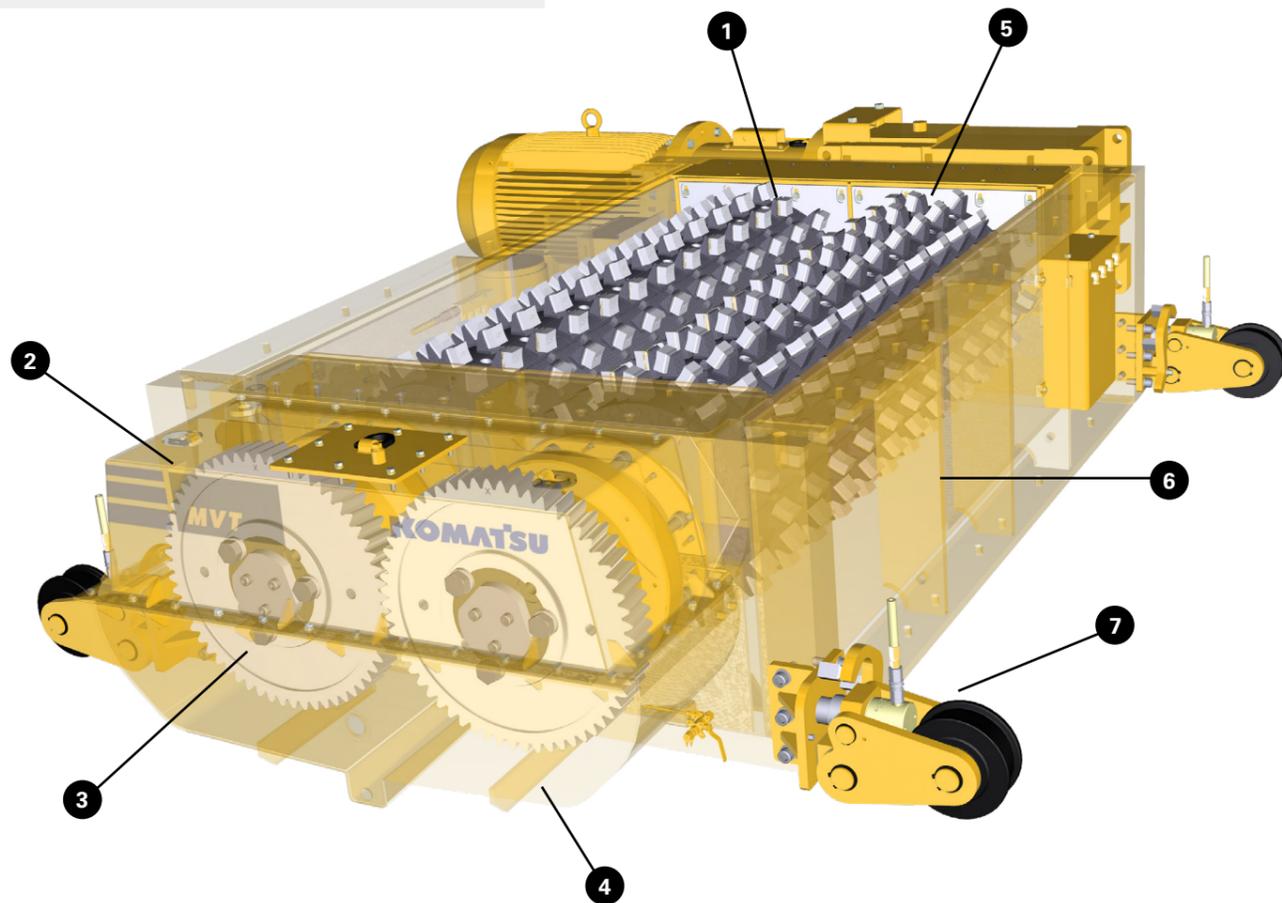


MVT-II sizer

Features and benefits

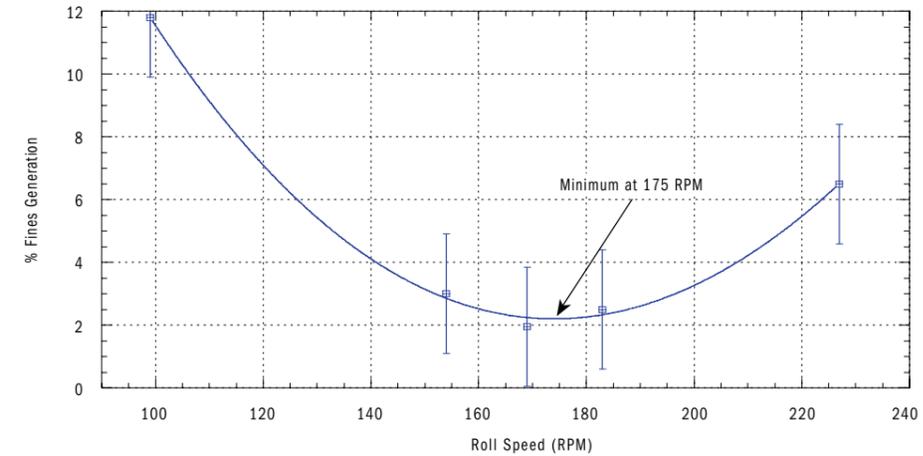
- Segmented roll design - only the worn segments need to be replaced
- Roll gap can be adjusted to optimise productivity
- Welded frame construction
- Self-cleaning, timed impact teeth optimise throughput by allowing sized material to pass through unimpeded

The MVT-II is a secondary and tertiary sizer that reduces fines generation through Matched Velocity Technology, while optimising 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 utilising 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

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

MVT-II 800

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

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

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