



MP800 Cone Crusher

Making you more profitable

The MP800 Cone Crusher has successfully been implemented into an existing pebble crushing and AG/ball/pebble mill grinding circuit. An MP800 replaced a 7' Symons Cone Crushers. The basis for purchasing the MP800 crusher was:

- Excellent before sales service and after sales service.
- Proven MP800 performance demonstrated in pilot testing at Nordberg's Test Center.

- Reduced mill circuit throughput projected due to increased ore hardness.
- Increased AG and ball mill capacity by producing finer pebble crushed product.
- No modifications had to be made to the existing concrete foundations.

The MP800 has surpassed production goals and has *"Made this customer more profitable"*.



IRON ORE APPLICATION

Nordberg MP800 Cone Crusher

Making you more profitable

Process Information	
Crushing Circuit	Pebble Crushing
Grinding Circuit	Autogenous/Ball/Pebble Mill Circuit

MP800 Crusher Specifications	
Installation Date	April, 1997
Replacement	7' Symons Heavy Duty Shorthead with 185 kW motor
Circuit Type	Open Circuit Pebble Crushing
Installed Power	600 kW
Cavity	Short Head Medium
CSS Setting	8 - 13 mm
Capacity	310 - 455 tph
Crushing Limit	Volume and 90% Power

Performance Data	MP800	MP800
Production	310 tph	455 tph
C.S.S.	8 mm	13 mm
F80	38 mm	38 mm
P80	7.6 mm	11.5 mm
Reduction Ratio	5.0	3.3
kWh/t	1.915	1.1
Operational Availability	90 - 95%	90 - 95%

Ore Characteristics	
Ore Type	Hematite
Avg. Work Index	18.4 kWh/t ROM Ore
Max. Work Index	19.6 kWh/t Pebbles
Specific Gravity	3.45 ROM Ore and 3.33 Pebbles
Bulk Density	2.16 - 2.4 t/m ³
Abrasion Index	0.637 gms ROM Ore and 0.917 - 1.076 gms Pebbles
Wear Metal Rate	165 gms/t

Flow Sheet

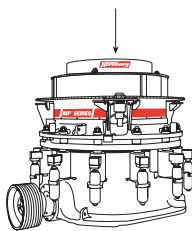
MP800 Crusher Feed

Screen Size (inch)	Screen Size (microns)	Cumulative % Passing
3	76,200	100
2.5	63,500	96
2	50,800	89
1.5	38,100	79
1	25,400	61
0.75	19,050	46
0.5	12,700	9
0.375	9,525	2

MP800 Crusher Discharge

Screen Size (inch)	Screen Size (microns)	Tyler Mesh	Cumulative % Passing	
			8 mm CSS	13 mm CSS
1	25,400			100
0.75	19,050		100	99
0.5	12,700		99	86
0.375	9,525		93	70
	6,770	3	71	51
	4,800	4	60	43
	3,400	6	48	34
	2,400	8	40	27
	1,700	10	35	23
	1,200	14	26	
	850	20	20	

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Autogenous and Ball Mill Feed

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