



MP800 Cone Crusher

M a k i n g y o u m o r e p r o f i t a b l e

The MP800 Cone Crusher has successfully been implemented into an existing three-stage crushing and grinding circuit. An MP800 replaced a 7' Symons Cone Crusher. The basis for purchasing the MP800 crusher was:

- Improve plant performance and increase plant production.
- Proven performance experienced by other mining customers.
- Reduced crushing throughput projected due

to increased ore hardness.

- Increase crushing efficiency by utilizing Nordberg Multi-Slope “banana” screen.
- No modifications had to be made to the existing concrete foundations.

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



Nordberg MP800 Cone Crusher

Making you more profitable

Process Information

Crushing Circuit	Three-Stage Crushing
Grinding Circuit	Ball Mill Circuit with Re grind

MP800 Crusher Specifications

Installation Date	June, 1998
Replacement	7' Symons Heavy Duty Short Head with 260 kW motor
Circuit Type	Tertiary Closed Circuit Crushing
Installed Power	600 kW
Cavity	Short Head Medium
CSS Setting	15 mm
Capacity	485 tph
Crushing Limit	Volume

Performance Data

	MP800
Production	485 tph
C.S.S.	15 mm
F80	24.5 mm
P80	15.2 mm
Reduction Ratio	1.67
kWh/t	1.03
Operational Availability	> 95%

Ore Characteristics

Ore Type	Copper Ore
Avg. Work Index	18.7 kWh/t
Max. Work Index	N/A
Specific Gravity	N/A
Bulk Density	1.36 - 1.52 t/m ³
Abrasion Index	0.22 gms
Wear Metal Rate	1.1 gms/t

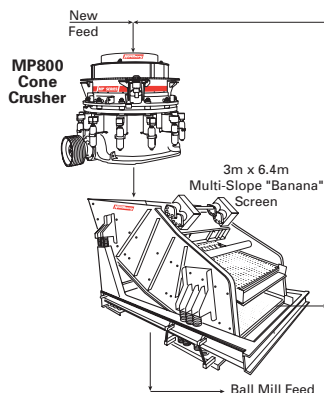
Flow Sheet

MP800 Crusher Feed

Screen Size (inch)	Screen Size (microns)	Cumulative % Passing
4.15	105,410	100
3	76,200	99
2.1	53,340	97
1.48	37,592	92
1	25,400	83
0.742	18,847	69
0.525	13,335	31
0.371	9,423	14

MP800 Crusher Discharge

Screen Size (inch)	Screen Size (microns)	Tyler Mesh	Cumulative % Passing
1	25,400		100
0.742	18,847		96
0.525	13,335		75
0.371	9,423		58
	6,730	3	43
	4,800	4	36
	3,400	6	29
	2,400	8	23
	1,700	10	20



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