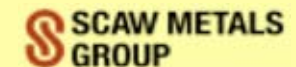


CALCULATE BALL MILL POWER

Moly-Cop Tools™ (Version 2.0)



CONVENTIONAL BALL MILL POWER ESTIMATION Hogg & Fuerstenau Model

Remarks

Base Case Example

Mill Dimensions and Operating Conditions							Mill Power, kW	
Eff. Diameter ft	Eff. Length ft	Mill Speed % Critical rpm	Charge Filling, %	Balls Filling, %	Interstitial Slurry Filling, %	Lift Angle, (°)		
18.50	22.00	72.00	38.00	38.00	100.00	35.00	3348	Balls
		12.82					0	Overfilling
							536	Slurry
							3885	Net Total
							10.00	% Losses
							4316	Gross Total

% Solids in the Mill		Charge Volume, m3	Mill Charge Weight, tons			Apparent Density ton/m3
			Ball Charge	Interstitial	Slurry above Balls	
% Solids in the Mill	72.00					
Ore Density, ton/m3	2.80					
Slurry Density, ton/m3	1.86					
Balls Density, ton/m3	7.75	63.76	296.48	47.48	0.00	5.395