

# BALL MILL LINING QUESTIONNAIRE



PARTNERSHIPS IN PRACTICE

Company \_\_\_\_\_ Date \_\_\_\_\_

Operation \_\_\_\_\_

Contact \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

## FIXED MILL DATA

Mill Manufacturer	Serial No.		
Installed Power			
Mill Size	m	m Long	
	ft	in	ft in Long
Trunnion inside	Feed	Discharge	
Inclination of Heads	Degrees		
Mill Speed	<input type="checkbox"/> Fixed	Rpm	Equal to % of critical speed
	or <input type="checkbox"/> Variable between	and	Rpm
Grinding Stage	<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> Regrind
Type of Mill	<input type="checkbox"/> Autogenous	<input type="checkbox"/> Semi-Autogenous	<input type="checkbox"/> Rod
	<input type="checkbox"/> Ball	<input type="checkbox"/> Multi-Compartment	<input type="checkbox"/> Scrubber
	<input type="checkbox"/> Pebble	<input type="checkbox"/> Batch (use separate questionnaire)	
Type of Discharge	<input type="checkbox"/> Overflow	<input type="checkbox"/> Grate Discharge	
	<input type="checkbox"/> Other – Please Specify		
Process	<input type="checkbox"/> Wet	<input type="checkbox"/> Dry	
Max Temperature	Celsius	Fahrenheit	
Direction of Rotation (looking from feed to discharge)	<input type="checkbox"/> Clockwise	<input type="checkbox"/> Anti-Clockwise	<input type="checkbox"/> Dual Rotation

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## GRINDING MEDIA

Type	<input type="checkbox"/> Balls	<input type="checkbox"/> Rods	<input type="checkbox"/> Other Please specify
	Hardness	Bnh	Media Consumption
	Top Size	mm	Recharge Size(s)
	Charge Volume %	Media	% Media + Ore %

Mineral Ground	Composition		
	Bond Work Index	Bulk Density	t/m3
	Abrasion index		

Circuit Data	<input type="checkbox"/> Open	<input type="checkbox"/> Closed		
	New feed	tph	Re-circulating load	%
	Feed Size	Max F100 (mm)	F80 (mm)	
	Product Size	P80um		
	Power Draw	kW	Power Consumption	kWh/t
	Slurry Density	% solids by weight		
	Oils/chemicals in mill	pH level		
	Operating Hours/Year	Utilised Mill Capacity	%	

EXISTING LINING	Feed	Shell	Discharge
Type/Material			
Number of Rows			
New Plate Thickness			
Lifter (width x height)			
Average Plate Life			
Average Lifter Life			
Lining Cost/Tonne New Feed			
Lining Weight			
Rubber Backing ? Thickness			

Slot Size Grates	Aperture Size Pebble Ports
Grate Open Area	Number of Manholes