

Specification 007

Circular Motion Vibrating Rod Mill Pos.110

Project: LIFE19 MIBA Filler – Pilot
 Reference: LIFE19 CCM/NL/001219 - 110
 Revision: 0
 Date: 8 July 2021

This document describes the specific and technical specifications for the **Circular Motion Vibrating Rod Mill**. This document is part of the Request for Quotation **LMF-RFQ-002-Circular Motion Vibrating Rod Mill Pos.110**.

1. Product characteristics Machine suitable to handle Incinerator Bottom Ash (IBA) with the following characteristics (contents in mass %):
- IBA input fraction: 0-32mm: ~15% moisture
 <0,063mm: ~3%
 0,063 – 0,5mm: ~8%
 0,5mm – 40mm: ~89%
 SG (particles): ~2,6
- Process water in: pH 9 – 12
 Cl content: up to 20 000 ppm
- Output: see below table

Particle size output							
Particle size (mm)	expected	shape	metal fraction		Particle size distribution of fraction < 0,5mm		
1,0 - 40	4,7%	mix	~99%		d50	30 - 100	μm
0,5 - 1,0	1,5%	flat	~95%				
0 - 0,5	93,8%	rough	~3%				

2. Capacity & dimensions Capacity: see below table

case	q_m kg/h	q_v L/h	ρ_{sl} kg/L	C_m -	C_v -	C g/L
average expected	1211	759	1,596	60,0%	36,1%	957,8
minimum flow	860	510	1,686	65,4%	41,6%	1102,2
maximum flow	1420	950	1,495	53,2%	30,0%	794,6

Installed motor power: 30 kW

3. Mounting position Two milling tubes above each other connected and operated in series.
 Outlet flange: 2600mm above floor level
4. Features Designed for full automation and minimal human interference.
 Designed for wet milling
 Largest feed, intermediate and outlet tubing possible to prevent blockages.
 Including grinding media: 30mm rods, dedicated material
 Including exchangeable wear liners.
 Shaft connection according to attached typical 050-51
 Drawing shaft both sides will be provided by BPG (bearing and gearbox side)



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5. Deliveries

Design, fabrication & delivery of a Circular Motion Vibrating Rod Mill

- Complete machine; after erection and installation ready for operation
- Automation functional design specifications
- Preservation, supplier standard
- Support structure design specifications
- Motor: make SEW, optional supplier standard
- Optional: required instrumentation
- Optional: access ways and platforms
- Optional: control cabinet
- Optional: support structure

Spare parts:

- Required spare parts.

Documents:

Document deliveries according to the specification 'Documentation and Drawings'

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