

Specification 008 Ultra Fine Vertical Stirred Mill Pos.190

Project: LIFE19 MIBA Filler – Pilot
Reference: LIFE19 CCM/NL/001219 - 190
Revision: 0.2
Date: 13 July 2021

This document describes the specific and technical specifications for the **Ultra Fine Vertical Stirred Mill**. This document is part of the Request for Quotation **LMF-RFQ-003-Ultra Fine Vertical Stirred Mill Pos.190**.

1. Product characteristics Machine suitable to handle Incinerator Bottom Ash (IBA) with the following characteristics:

Position number		190		24/06/2021	
Medium		milled bottom ash slurry		rev 1.0	
Particle density, approx.		2,65	kg/L		
Water density		1	kg/L		
pH range		9-12			
Cl-content, up to		20000	ppm		
Installed power		75	kW		
Temperature range		min	5	°C	
Input material		max	60	°C	
Additional cooling water		YES		<i>reducing temperature rise due to friction</i>	

Particle size distribution
INPUT

screened with 0,5mm deck

d50	30 - 100	µm
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Particle size distribution
OUTPUT

d50	5 - 20	µm
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2. Capacity & dimensions

input flow case	q_m kg/h	q_v L/h	ρ_{sl} kg/L	C_m -	C_v -	C g/L
average expected	1513	1089	1,389	45,0%	23,6%	625,2
minimum flow	1050	720	1,458	50,5%	27,8%	736,1
maximum flow	2450	2000	1,225	29,5%	13,6%	361,4

3. Mounting position Position of frame on flooring
Directly place on floor, product outlet at approx. 2.9m above floor level.

4. Features
- Designed for full automation and minimal human interference.
 - Designed for wet milling.
 - Including grinding beads.
 - Including stirring discs on shaft, e.g. no pins.
 - Including automated grinding media dosing
 - Including exchangeable wear liners.

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5. Deliveries

Design, fabrication & delivery of an **Ultra Fine Vertical Stirred 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/recommended spare parts.

Documents:

Document deliveries according to the specification 'Documentation and Drawings'