Key information to confirm with customers for ball mill design

To recommend a suitable ball mill model and design parameters, please confirm the following information.

I. Material Properties

1. Material name and main chemical composition
2. Required processing capacity (t/h)
3. Bulk density (t/m³)
4. Angle of repose (°)
5. Moisture content (%)
6. Specific heat capacity (kJ/kg·°C)
7. Abrasiveness
8. Particle size range

II. Process Requirements

1. Required inlet temperature (°C)
2. Required outlet temperature (°C)
3. Required material residence time (minutes)
4. Required moisture content at the outlet (%)
5. Heat transfer medium temperature (°C)
6. Heating or cooling method
7. Whether a chemical reaction is involved (if yes, provide the reaction equation)
8. Heat of reaction and reaction temperature
9. Heat source

III. Operating Conditions and Special Requirements

1. Whether the material tends to agglomerate, cake, or form build-up
2. Whether the working condition is corrosive
3. Whether sealing or complete oxygen isolation is required
4. Preferred equipment materials (if any)
5. Recommended equipment specifications or technical parameters (if any)
6. Material flowability

Common Ball Mill Types

You may also refer to the following ball mill types for typical applications:

1. Air swept coal ball mill
2. Aluminum dross ball mill
3. Ball mill with perforated screen and classifying effect
4. Cement ball mill
5. Ceramic ball mill

6. Double inlet and double outlet ball mill
7. Energy saving ball mill
8. Grid ball mill
9. Gypsum ball mill
10. Intermittent ball mill
11. Ore ball mill
12. Overflow ball mill
13. Raw material ball mill
14. Steel slag ball mill
15. Wet ball mill