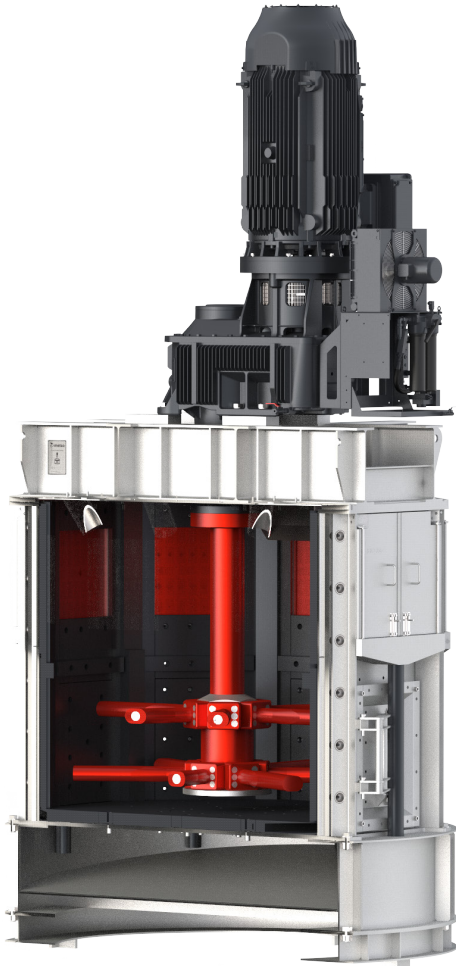


Metso:Outotec

Stirred mills

Stirred media detritor



Stirred media detritor (SMD) is a fluidized, vertical stirred mill designed for optimum grinding efficiency for fine and ultrafine grinding products. SMDs have the capacity to operate continuously at full load power draw with no steel contamination of the product. They are suitable for both open and closed-circuit operation.

SMD has a modular design ensuring faster installation and reducing installation costs.

The vertical arrangement, on the other hand, allows the drive train to be entirely supported by the mill body which leads to a small footprint and simple foundation. Furthermore, the vertical arrangement does not require any slurry seals or inlet feed pressure.

Lower operating cost

SMD's power intensity is optimized to achieve efficient grinding, limit wear, and allow for heat dissipation in the case of a high energy grind.

Optimizing power intensity limits the sheer force of the media and slurry on the liners and impellers to improve wear life. SMD also operates with a small carbon footprint.

Easy to maintain

Thanks to having fewer moving parts than traditional grinding mills, SMD requires less frequent maintenance.

The mechanically simple design and the ability to change all wear parts through access doors means that SMD is easy, safe and cost-effective to maintain when needed.

Improved safety

Easier and less frequent maintenance also results in better operational safety. Simple control and optimization, in turn, allow friendlier operation.

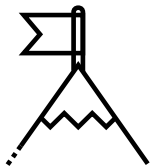
In addition, all the moving parts of SMD are enclosed, and it generates notably less noise when in operation than traditional grinding mills.

Benefits

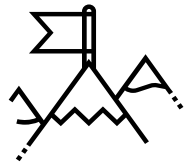
- Faster installation with reduced costs
- Small carbon footprint
- Safe to operate



- Typical F80: 115 - 60 μm
- Max. F80: 250 μm
- Typical P80: 30 - 10 μm
- Min. P80: 5 μm
- Energy input: 5 - 100 kWh/t
- Grinding media: 2 - 6 mm ceramic, matched with grind



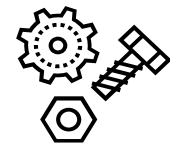
Over 250 units
worldwide



Over 75 MW units
sold



Simple and easy to operate



Optimum wear life