

Metso

Stirred mills

Vertimill®



The Vertimill® is globally recognized as an energy efficient grinding mill. Through a low total cost of ownership, it brings substantial improvement to the profitability of concentrators. During the years, Vertimill® technology has proven to be efficient especially in secondary and tertiary grinding, regrinding, fine grinding, and lime slaking applications.

Vertimill® is a unique product offered exclusively by Metso. Grinding efficiency, reduced media consumption, lower installation cost, minimal maintenance, and minimal liner wear make Vertimill® the lowest total cost of ownership in many applications, substantially improving the profitability of concentrators.

Mechanically, Vertimill® is a simple machine with an agitating screw suspended into the grinding chamber, supported by spherical roller bearings and driven by a fixed speed motor through a planetary gearbox.

Lower capital cost

Vertimill® requires a simple and small foundation, which means less floor space is required. In fact, in the same application a Vertimill® has 50% less footprint than a ball mill.

Lower operating cost

Vertimill® is an energy efficient grinding machine. They tend to grind more efficiently than, for example, ball mills with feeds as coarse as 6 mm to products finer than 20 microns. This provides up to a 40% higher energy efficiency.

With the Vertimill® simple and robust design, limited liner replacement is required. This also allows for up to 95% or greater uptime for more productivity and profitability.

Versatile applications

Vertimill® has proven to be a versatile tool that exhibits many advantages over traditional ball milling in various applications.

It is capable of handling a wide range of feed sizes typically from 400 to 90 microns.

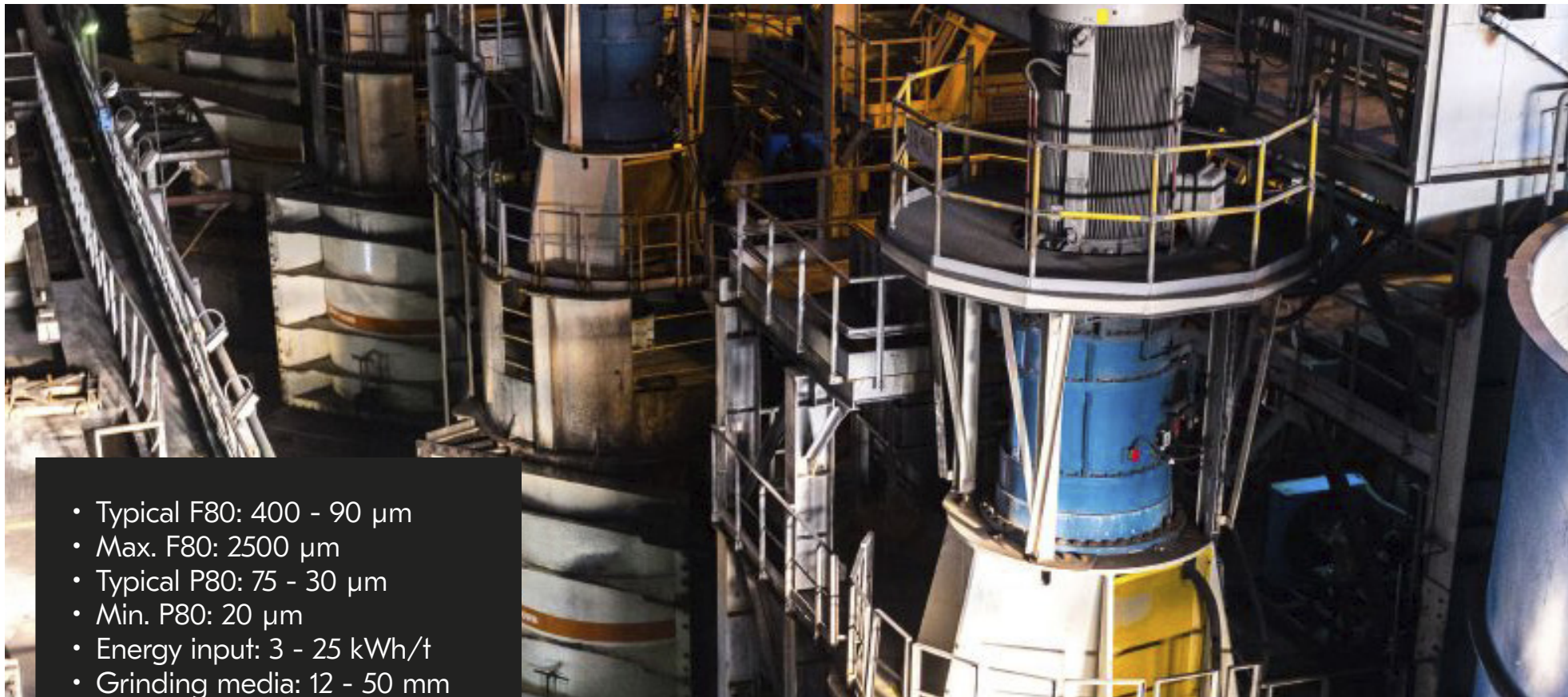
Support from Metso experts

Metso draws from more than 100 years of mill design and manufacturing expertise, and over four decades of successful Vertimill® applications.

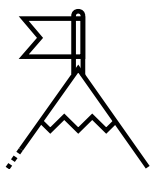
Our engineers will review your specifications and recommend the proper Vertimill® for your application.

Benefits

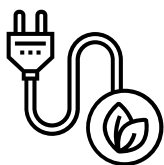
- Energy efficient
- Reduced media consumption
- Lower installation cost
- Minimal maintenance
- Minimal liner wear



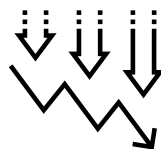
- Typical F80: 400 - 90 μm
- Max. F80: 2500 μm
- Typical P80: 75 - 30 μm
- Min. P80: 20 μm
- Energy input: 3 - 25 kWh/t
- Grinding media: 12 - 50 mm steel, matched with grind



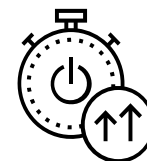
Over 500 units
worldwide



Up to 40% better
energy efficiency



Up to 50% less footprint
compared to a ball mill



Long wear
replacement intervals