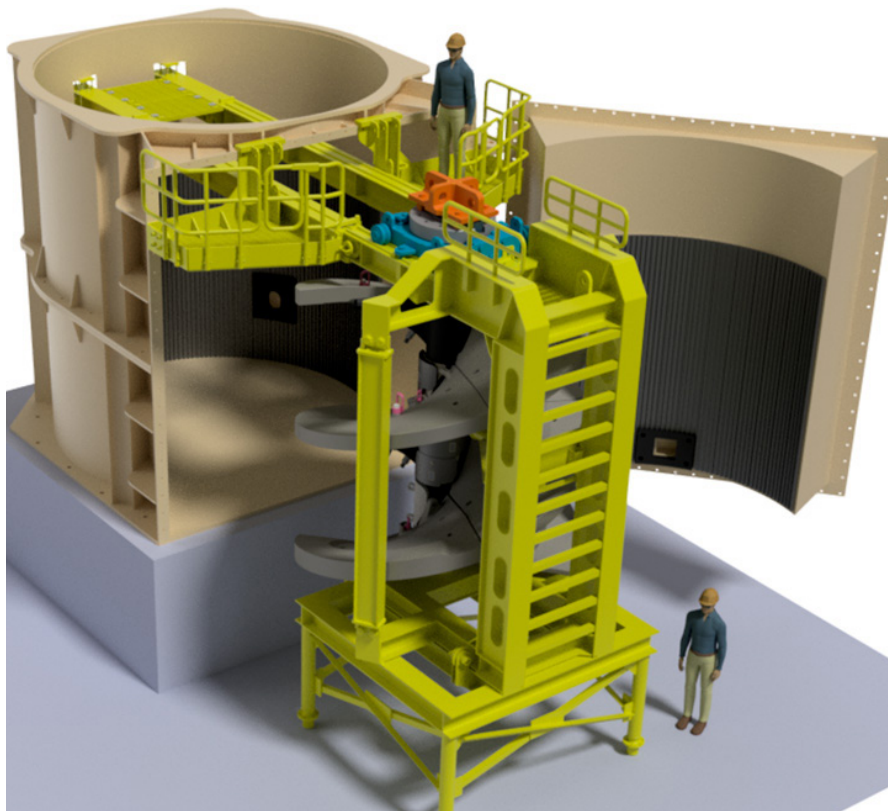


Metso

Stirred mills and HPGR

Vertimill® screw handling system



Application

The Vertimill® screw handling system makes relining safer and faster by giving customers options for the most suitable method for their service and relining operations.

Existing Vertimill® relining procedures require updated methods and design tools for safer and faster relining processes.

Increased safety

Metso has enhanced its Vertimill® screw handling system to provide safer access to parts and additional options for mill relining and maintenance.

The improved system has longer beams that allow the entire screw shaft to be removed from the mill. When the shaft is removed, a redesigned maintenance platform provides increased safety and allows easier access to parts, giving operators the option to reline the screw and shaft in front of the mill, thereby eliminating potential interference with overhead structures.

The system includes a support base with leveling feet that the maintenance platform rests on during relining or maintenance. The base is portable and can be relocated within the plant for use at different mills.

Enhanced accessibility

A reconfigured transport cart allows the screw shaft to be rotated for greater access to parts. The screw lifting lug has also been improved with a higher working load limit that can support the entire weight of the screw shaft, liners and maintenance platform. The lug features additional lifting points that make the screw easier to handle at different shaft positions.

Greater versatility

The screw handling system can be used vertically as a maintenance stand or horizontally to transport the shaft and liners for service. The structure can be

repositioned using a crane and specially-designed transport frame. The frame attaches to the maintenance platform and uses hydraulic arms to tilt the complete assembly up or down, as needed.

Customers using a spare screw shaft for relining can take advantage of the handling system and its components to move and store the spare shaft. The improved system facilitates moving the spare shaft to the mill for operation. This allows the worn shaft and liner assembly to be transported from the mill and replaced outside of the system shutdown time frame.

Convenient transportation

The Vertimill® screw handling system is a cost-effective solution for transporting the screw shaft and liner assembly to and from a maintenance shop, with increased safety and proper workload limits.

Benefits

- Increase safety
- Improve access to parts
- Minimize activities close to suspended loads and in confined spaces
- Eliminate work in confined spaces
- Increase availability

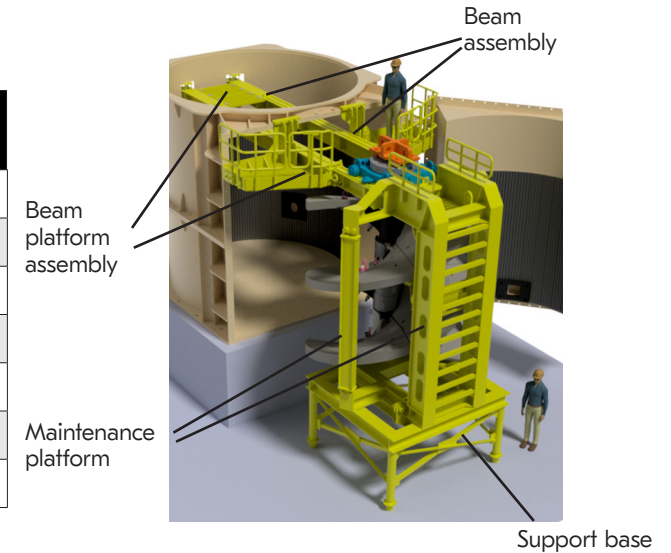
Stirred mills and HPGR

Vertimill® screw handling system

The enhanced screw handling system makes Vertimill® relining safer and faster, and gives customers options for mill relining options according to their needs.

Vertimill® screw handling system part numbers and recommended quantities

Component type	Recommended quantity	VTM-1000	VTM-1250	VTM-1500
Maintenance platform	2 pieces	AX03-100033251	AX02-100180773	AX01-100155335
Beam assembly	1 piece	AX03-100036615	AX02-100183111	AX02-100178422
Beam platform assembly	1 piece	AX03-100031360	AX02-100183082	AX02-100178431
Support base	1 piece per mill	AX03-100035392	AX02-100179675	AX01-100156204
Lifting lug	2 pieces	AX01-100160589		
Transport cart	2 pieces	AX02-100178424		
Screw jacking components	1 set	AX00-100065498		



Transport structure

Mill size	Part number
VTM-200-LS	AX01-100185371
VTM-400-WB	AX01-100168614
VTM-500-WB	AX01-100156066
VTM-650-WB/800-WB	AX01-100151452
VTM-1000-WB	AX01-100131300
VTM-1250-WB	AX01-100139873
VTM-1500-WB	AX01-100139874

