

Cement Mill Liners - 1st & 2nd Chamber

Product datasheet - grinding media and wear parts

In a cement mill the first chamber breaks clinker with large balls and high impact, while the second chamber grinds finer with small balls and needs a classifying profile that keeps the charge in the right section. Grindium casts both chamber liners, plus the diaphragm and end liners, in the alloy that matches each zone.

First chamber liners are usually Mn13Cr2 or Cr-Mo with a step profile for lifting; second chamber liners are classifying or wave profile in Cr-Mo or high chrome, where abrasion dominates and impact is low.



Chamber-by-chamber selection

Position	Recommended material	Profile	Why
1st chamber shell	Mn13Cr2 / Cr-Mo	Step or wave	High impact, needs work hardening
2nd chamber shell	Cr-Mo / high chrome Cr26	Classifying	Abrasion dominant, size classification
Diaphragm	Cr-Mo / high chrome	Slotted	Controls material flow between chambers
End liners	Mn13Cr2	Smooth	Impact from the ball charge

Specifications

Item	Range
Plate thickness	40-120 mm
Single weight	80-1,200 kg
Hardness (Mn13Cr2)	HB 180-220, work hardened to 450+
Hardness (high chrome)	HRC 58-62
Bolt hole tolerance	+/-1.5 mm
Pattern life	Kept for repeat orders

Typical applications

Liner and grinding ball supplied together, so the charge and the profile are designed as one system; Classifying liner profile matched to your mill speed and target Blaine fineness; Diaphragm slot width set for your clinker and gypsum ratio; Set-by-set packing, marked by chamber position for faster installation.

Ordering notes

Minimum order, lead time and packing are confirmed against the size mix or drawing in your enquiry. Each shipment carries a test report with chemistry, hardness, impact value and breakage rate for the heat. Payment terms: T/T with 30% deposit, or irrevocable L/C at sight. Shipping: FOB Qingdao, CIF or DAP.

Ordering and technical support

Send the mill type, media size or liner drawing, quantity and destination port. We reply with a quotation, packing plan and lead time within 12 hours.

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Product page: <https://grindium.com/products/mill-liner/cement-mill-liners/>

