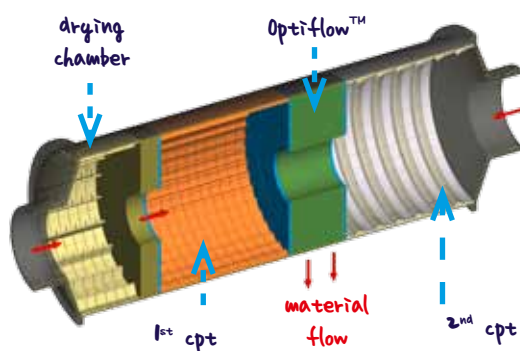


MAGOTTEAUX

OPTIFLOW™: «THE» peripheral discharge diaphragm

WHY THE OPTIFLOW™?

Double rotator mills usually operate in rough conditions, especially for the first chamber.

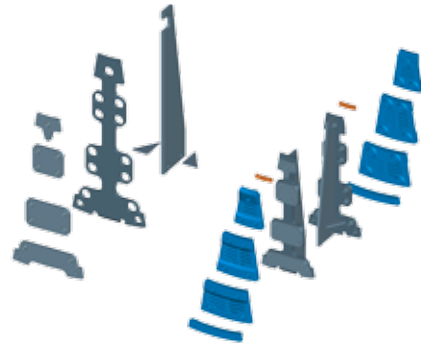


This is why we designed the Optiflow™ with unique features. Its optional retaining ring maintains an optimum level of material in the chamber whilst still respecting the required large slot opening (for easy flow of hot gases in dry conditions). This allows for:

- reduced wear of balls, linings and grates;
- optimum grinding efficiency (level of material in the ball charge).

THE MECHANICAL PLUS

The frame consists of several strong independant sectors which grant the diaphragm excellent mechanical resistance. Each sector supports their own cast parts.



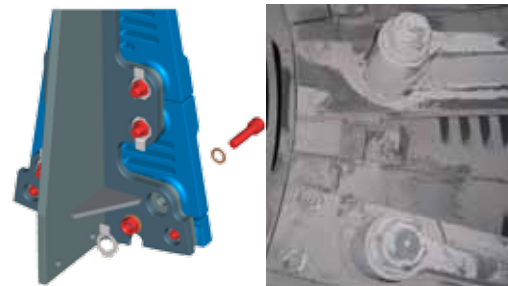
This feature prevents the mill deformation be transferred to the bolts, thus eliminating the risk of breakage. There is a central air passage screen on each side. The screen can be designed according to the volume load of each compartment and can be fitted with a manhole to allow for easy inspection.

FLEXIBILITY IN GRATE DESIGN

The foundry process allows for a combination of optimum grate design and maximum wear life.

HOW?

Design, alloy and heat treatment can be adapted to specific grinding conditions. The slots can be designed in such a way as to reduce the pressure drop through the mill. The shape and location of the lifters can be designed to suit wear pattern. The design allows for maximum protection of the bolts.



MAGOTTEAUX

SHAPING A WORLD OF PERFORMANCE

Eased installation of pre-assembled elements

The Optiflow™ is easily and quickly installed due to:

- Design adapted to all shell drillings.
- All items are sized to fit through the manhole, the discharge openings or the feed trunnion.
- On-site welding and assembly are kept to a minimum.

Reduced maintenance schedule

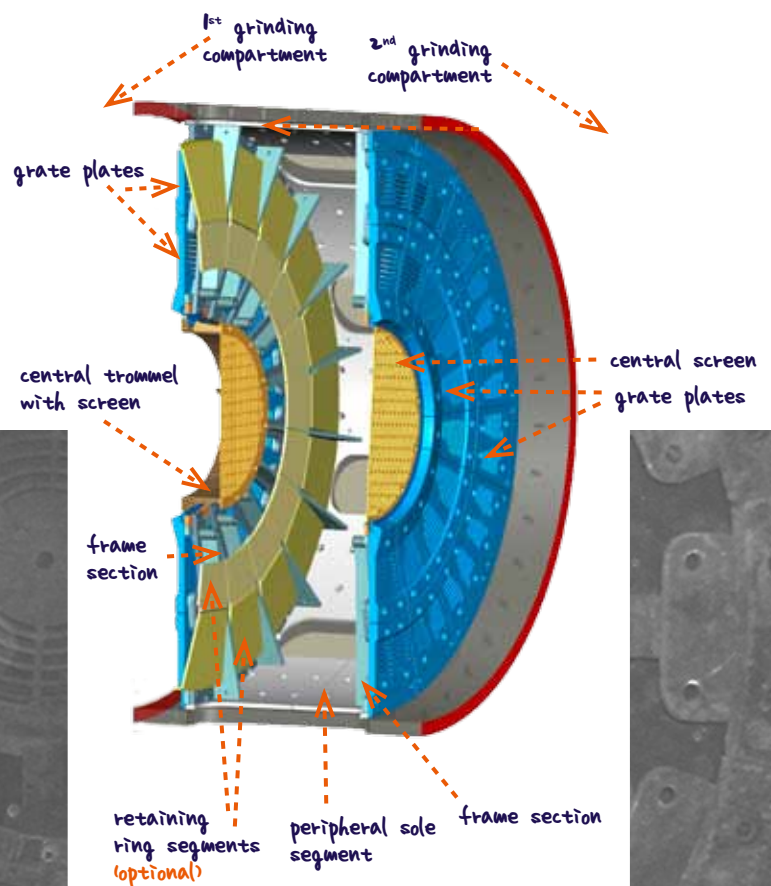
The above features allow for a light maintenance schedule.

- Perfect protection of the mill shell.
- Ideal design of grates fastening system.
- Grate design with overlaps to avoid gaps and provide tight fit.
- Top quality bolts.

Options to suit specific operating conditions

- Our process experts may advise to include 1 or 2 trommels to «artificially» increase the surface available for air passage at the centre of the diaphragm.
- It is sometimes necessary to equip the diaphragm with a «retaining ring». Placed on the 1st cpt side, it aims at slowing the material flow through the diaphragm thus increasing the material filling in the 1st cpt.

- When the output of the 1st cpt must be separated from the output of the 2nd cpt, the diaphragm is provided with an internal blind wall especially designed for this purpose.



Please do not hesitate to contact our engineers for any further details.
www.magotteaux.com