

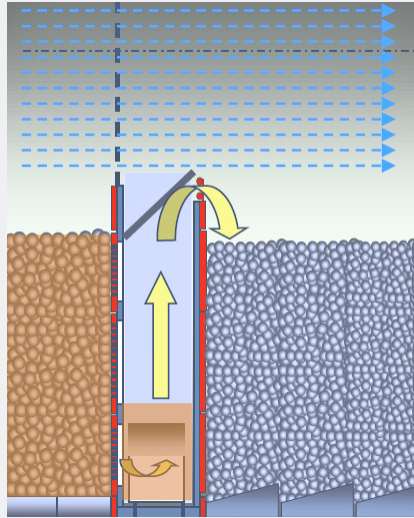
# diapol 2.0 lifting diaphragm



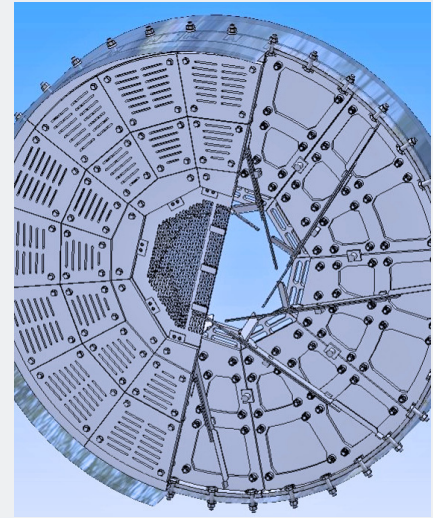
thyssenkrupp



Installation of the diaphragm frame



Material conveyance



3D model of the diapol 2.0

## Tuning for your ball mill

The further improved diapol 2.0 lifting diaphragm, with types intermediate diaphragm (JND), discharge diaphragm (DCD), central discharge diaphragm (CDD) for double rotators and pre-drying compartment diaphragm (DRD), is the universal solution for your grinding. The air stream and the mill feed material are now separated from each other more effectively. The mill feed material falls directly behind the diaphragm, preventing onward pneumatic conveyance, meaning that the entire effective grinding length is used for grinding.

The diapol 2.0 is first and foremost easy to install. Workshop-fabricated segments can be joined on site with the need for only minimal welding. The special segmental construction, which allows the segments to slide up against each other, prevents the formation of stress cracks during operation. In addition, as installation is so easy, the time savings are significant, which means that the slightly higher capital costs quickly break even. Due to the simple segmental construction, wear parts such as lifter scoops and their correspondent heads can be replaced quickly and effectively.

We use fully hardened rolled-steel plates (polalloy) as the wear material for the slotted and backwall plates, or high-chromium cast iron if the application so requires. When using fully hardened rolled-steel plates, the geometry of the slots and the free area can be selected as required for the application. The slotted and backwall plates are fastened using shear bolts and expansion sleeves. As these plates are easily accessible and because they

are fastened with expansion sleeves, it is very easy to replace them. To do so, the expansion sleeves are simply removed by flame cutting without damaging the framework.

Furthermore, the greatest possible central opening ensures low air velocity and a low pressure drop. Access to compartment 2 from compartment 1 is also facilitated on opening the grate. The size of the opening is determined by the maximum grinding-media filling ratio. The mill feed material flow can be regulated by adjustable lifter scoops, which makes it possible to control the filling level in the grinding compartment.

### Your service advantages

- Easy-to-install due to workshop-fabricated segments
- Flexible segmental construction to prevent stress cracks
- Controlled material flow thanks to fixed and adjustable lifter scoops
- Slot geometry can be freely designed
- High operational reliability