

ERGONOMIC ROTATING GRATE SYSTEM (3-FOLD ROTATING GRATES)

This permanently achieves the perfect combustion condition and the most optimal cleaning, including ember preservation

NEW

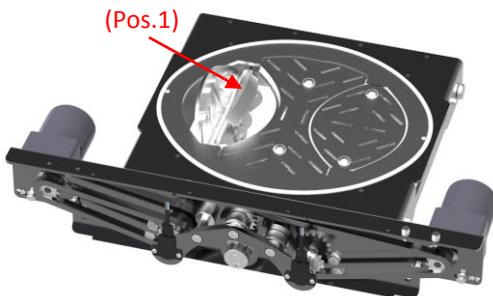
With 2-fold impulse knock-off mechanism and anti-air-strand grate lips!

PATENTED

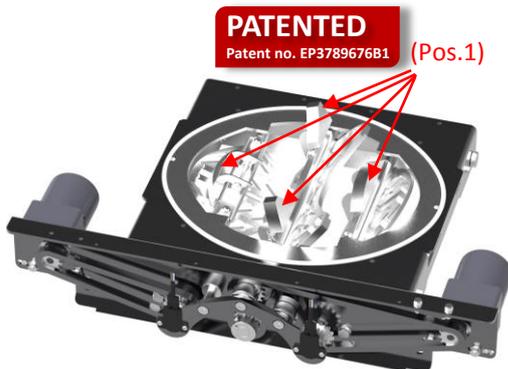
Patent no. EP3789670B1



- Rotating grate positions in regular operation
- All rotating grates closed



- Cleaning in regular operation with embers retention
- 3. rotating grate open, rotating grate on insertion side and middle rotating grate closed to maintain embers



- Universal cleaning at standstill
- All rotating grates open

INTELLIGENT AND EFFICIENT

Ergonomic 170-degree rotating grate technology for optimum primary air flow and thus the ideal combustion condition.

A 3-fold rotating grate system achieves perfect ash cleaning (partial cleaning in ember maintenance mode or universal cleaning). A simple mechanical design makes the modular rotating grate unit very robust, reliable and durable.

- ✓ Ergonomic design "WITHOUT DEAD CORNERS", thus the complete fuel is perfectly flown through with primary air and an ideal combustion condition is achieved (among other things heating efficiency)
- ✓ A 3-fold rotating grate cleaning effect of the ash, with ember retention and centrifugal function
- ✓ Highly efficient 2fold impulse knock-off mechanism (Pos.1) for 3 rotating grates, for perfect cleaning!
- ✓ Ash cleaning possible while the heating system is running
- ✓ No external ignition necessary due to glow maintenance via 2 rotating grates (saves up to 90% of ignition energy!). This reduces wear and tear on the ignition rod and significantly saves electricity
- ✓ After ash cleaning during operation in ember retention, extremely quickly back to full output
- ✓ 4-fold crusher function for perfect universal cleaning of ash components/ slag and foreign bodies
- ✓ Due to grate lips, the gaps between the rotating grates are absolutely tight (no air strands)
- ✓ Developed with state-of-the-art CFD simulation technology and years of intensive testing to ensure optimum process reliability

ALTERNATIVE SYSTEMS

X Alternative rotary grate systems may also not be ergonomic and thus, due to their rectangular geometry, have disadvantageous corners. There it can happen that the primary air does not flow through the fuel optimally. At these corners (so-called "DEAD CORNERS") slagging occurs, which can lead to poorer combustion, among other things in terms of efficiency, and also to malfunctions and downtimes of the heating system. If alternative rotary grates do not have sealing lips, strands of air may flow through the gaps between the rotary grates, which have a negative influence on the overall combustion with regard to efficiency and emission values. In the case of alternative rotary grates without a knock-off mechanism, it can happen that residual ash or unburnt material remains in the perforations of the rotary grates after the tipping process, thus impairing the air circulation through the perforations. This can lead to poorer combustion values of the heating system.