

# REVERSING



# SYSTEM

# TYPE RDS

*innovation*  
ENGINEERED IN GERMANY

**HORN**  
GLASS INDUSTRIES

# REVERSING SYSTEM TYPE RDS (Reversing Double Deck System)

A HORN glass melting furnace fired with fossil fuel can be compared with a mechanical clockwork. All components have to interlock to ensure perfect combustion of the fossil fuel. Reversing systems are permanently mounted in the flue gas channel of the melting end.

By reversing at 20-minute intervals, the flow of the flue gas is blocked on one furnace side, and the passage of the combustion air for firing the furnace is unblocked. Therefore HORN has found a "Made in Germany" solution for the important field of flue gas/combustion air reversing systems: our reversing system type RDS and RDS-F (float) developed in-house.

The slider mechanism of the reversing system is installed in both the right and left hand regenerator chambers. Depending on the firing side, there is always one changeover slider open and one is closed. The

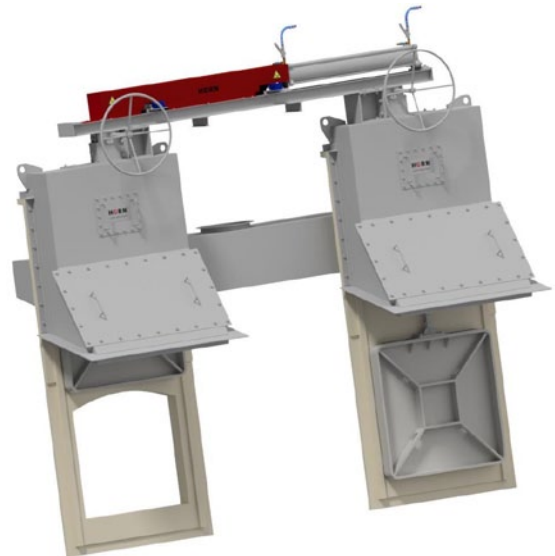
pneumatic cylinder automatically actuates the slide plates at the preset interval cycle length. The slide plates are made of massive cast iron, so they can be used in an environment with temperatures up to 750°C. The reversing system is positioned at a 90° angle to the flue gas channel. The system is mounted at a 15° inclination.

When the firing side changes, the flue gas streams through the open side of the reversing system into the chimney, and the combustion air is guided into the regenerator. The change of position of the slide plates is fast and precise, so false air entry is minimised and NOx emission is reduced.

The HORN reversing system stands for quality. It is gas-proof and also remains gas-tight after many years of operation in a high-temperature range. The HORN reversing system is absolutely reliable.



Float reversing system RDS-F



Float reversing system RDS

## Technical Data

Type	RDS-F	RDS
Possible sizes	W:1000 x H:1200	W: 1200 x H: 1200
	W:1200 x H:1200	W: 1400 x H: 1600
		W: 1600 x H: 1800
		W: 1800 x H: 2000



- Robust and durable
- Maintenance-friendly
- High endurance
- Easy to operate

## Classification

Reversing system float	Float glass
Reversing system container glass	End-fired furnaces