
Slab turner

Careful turning over of slabs

Ongoing development in continuous casting technology has led to nearly all grades of steel now being cast in a single strand. Due to the diverse range of steel grades and the different manufacturing methods the strand's surface needs to be treated for the next stage in the process. The blank gets further processed, for instance, by flame scarfing or high-pressure grinding. For deburring and grinding the slabs need to be turned over.

Magnet lifting systems from TRUNINGER are an alternative to stationary, hydraulic slab turning devices that require a lot of maintenance.

Magnet spreader beams for use in slab turning applications have an especially robust design, making them suitable for cold as well as hot material.



Figure 1: Slab-turning magnets taking a slab from a stack for further processing

Advantages

- No need for people in the vicinity of the heavy slabs
- Convenient operation of the system from a safe distance
- Less vibration on the crane
- Less noise inside halls from slabs falling over
- Faster handling speed

Your benefits

- Fewer accidents and increased safety
- Lower personnel costs
- Longer service life for the crane
- Handling process makes more efficient use of time



Figure 2: Turning a slab using magnets

Features of TRUNINGER design

TRUNINGER designs and manufactures special magnet systems for handling all kinds of heavy loads.

- Robust spreader beam design and durable magnet construction are built-in features of the magnetic systems designed specifically for slab turning applications
- The magnet beams' design is adapted to the relevant material specifications. Both individual magnets (see figure 2) and simple fixed beams with multiple magnets are used
- Specially developed magnets with temperature-resistant coils guarantee a long service life under rugged conditions
- The magnets are also fitted with reflection plates to protect the coils against radiated heat
- The magnet control system is fitted with a back-up battery as standard and automatically switches from mains to back-up power in the event of mains failure
- The entire magnet system can be designed with built-in redundancy, i.e. from the magnet controller via the power supply, right through to the magnet coils, the system incorporates fully redundant components