



# HESE Retractable Guide Rail



Increasing efficiency of transport systems in mining  
with the HESE Retractable Guide Rail.

# Gaining safety

## HESE Retractable Guide Rail

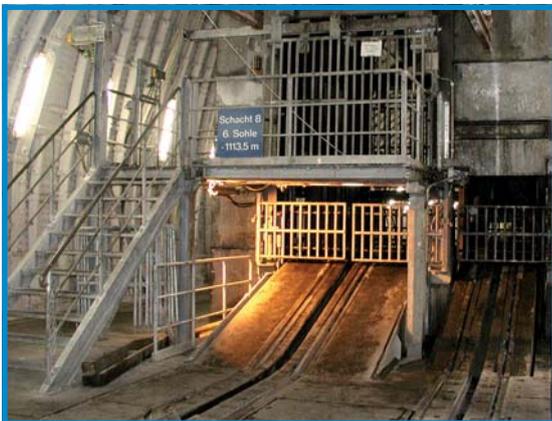
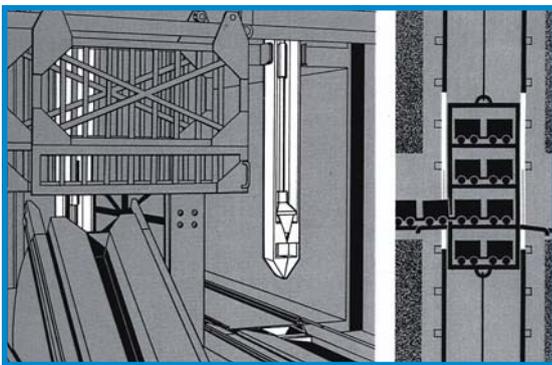


### Areas of application

HESE developed the retractable guide rail to be applied in mining for guiding conveyor cages in mine shafts that offers a special solution approach regarding the passage on floor level. It involves a specially designed tensioning technology and replaces the conventional guiding around corners that can only be passed very slowly. These characteristics in combination with the approved HESE processing and material quality make our product a safe application, perfectly suitable for mining. It can carry out floor level passages with conveyor cage speed of up to 16m/sec. In mine shafts with intermediate floor levels, efficiency rises due to saved time. Currently a lot of German mines apply the HESE Retractable Guide Rail to guide conveyor cages. The Huainan Mining Group in China runs a majority of their pits with our retractable guides and is planning to retrofit further mine shafts in the near future.



# Increasing efficiency



## Functionality and assembly

The HESE Retractable Guide Rail consists of a fixed and a retractable guide part. The retractable part is at the respective floor level and attached to the front and rear of the shaft bottom frame. Via a hydraulically operated cylinder, the retractable part can be extended or retracted. The retractable part can have a maximum length of 3.5 m. When extended the outside dimensions are identical with the fixed guide. This is why a continuous guide string without interruptions is formed. There is a safety-locking device for extension and retraction. To avoid an uncontrolled retraction of the guide, the electric control is equipped with all necessary monitoring and links to the shaft signalling system. The closed state is monitored just as well to guarantee the highest amount of safety. The conveyor cage can only be moved when the lifting guide is closed.

### Safe guiding of conveyor cages at high speed in the floor level

- Conveyance of passengers » up to 12m/sec.
- Conveyance of material » up to 16m/sec.

### Increased efficiency

The time normally needed when braking before reaching floor level, the slow passage of the floor levels and the acceleration after the floor level passage do not apply.



Maschinenfabrik Hese GmbH | Magdeburger Straße 16a | 45881 Gelsenkirchen, Germany  
Tel.: +49 209 9 80 99 - 0 | Fax: +49 209 9 80 99 - 199 | Mail: [info@hese.de](mailto:info@hese.de) | [www.hese.de](http://www.hese.de)