
Magnetic handling of rebar coils

Safe transport of rebar coils

Not only long rebar bundle, but also rebar coils of different dimensions, can be transported safely using a TRUNINGER magnet system. With a sound base, rebar coils can be stacked one on top of the other, either horizontally or vertically. However, the coils must be rigid in shape, i.e. compactly wound and firmly strapped.

Using a magnet system it is no longer necessary to limit the stack height to that of a man.



Figure 1: No limit on stack height when using a magnet system

Using a magnet system for rebar coils has many advantages:

Advantages

- No need for people in the material handling area
- No need to climb onto piles of rebar coils
- No need for chains or mechanical grippers (better material quality)
- No aisles required between piles
- No wooden spacers needed between the coils
- Easy operation of the system via cabin or remote control
- No operating assistants required

Your benefits

- Fewer accidents and increased safety
- More compact storage
- Faster handling speed
- Lower personnel costs

Diverse application areas

Steel mills

Operators of steel mills have to accomplish the throughput of large quantities of material. Arranging several magnets on a spreader beam according to specific customer requirements makes it possible to transport multiple rebar coils in one lift. The coils can be carried with their axes parallel or at right angles to the spreader beam (see figure 2). The magnet gripper can thus be optimised for the production line and production volumes.



Figure 2: Magnetic transport of coils in a steel mill

Using TRUNINGER hot magnets (see “Load temperature > 120°C” document) also enables rebar coils at temperatures of up to 450°C to be transported magnetically from the production line to the warehouse.

Logistics service centres

The solutions for logistic service centres are also dependent on the flow of material, the logistics equipment and the throughput volume. Here too, TRUNINGER offers numerous possibilities for optimising the material flow. One example of this is the flexible use of a mobile crane with magnet for unloading rebar coils from railway wagons (figure 3).



Figure 3: Mobile magnet system for lifting heavy rebar coils

Steel distributors / Steel service centres

Using a magnet system to handle individual rebar coils is a particularly useful method for steel distributors and steel service centres. Even with the lower levels of material throughput, the advantages and benefits listed on page 2 can still be achieved. The highly compact way in which magnet systems enable material to be stored is, in particular, a key factor of success (see figure 4).

Summary

- You can store significantly more material within the same area
- Without reducing stock levels, you can reduce the size of storage facilities needed or use it for other purposes
- Considerable time saving due to compact storage with shorter crane travel distances

Material handling using TRUNINGER magnet systems opens up new perspectives for you in warehouse management. Find out more and see for yourself!



Figure 4: High-density storage achieved with a magnet system