Transporting sheet packs

Handled quickly and without damage

Suitably designed magnets distribute, over a large contact area, a finely controlled lifting force which penetrates into the material. This prevents any pressure marks or edge damage that impair the quality of the sheets. It also makes it possible to handle any volume of sheets efficiently, flexibly and safely.

And, of course, the magnet system can be used to transport single sheets as well as sheet packs. In this case you can handle significantly larger volumes per lift than with loosely stacked sheets.

Figure 1: Sheet pack on a spreader beam with travelling magnet groups and load slewing device

For transporting packs of sheets the magnets need to have a deep magnetic field. TRUNINGER magnet systems for handling sheet packs are fitted with magnets specially designed for this purpose. However the magnetic field may not have sufficient penetration to reach all the lower sheets in a pack; these sheets will be carried by the strapping.

Important! Highly adaptable!

Incoming material handling, internal transport, order picking and dispatch procedures require magnet systems to be highly adaptable to the material to be handled and to the material flow.

It is essential that the distances between the magnets are adapted to the lengths of the sheets so that any deflection can be kept to a minimum and the distribution of the load between the magnets can be optimised. Only in this way can safe transport of the material be guaranteed.

Being able to rotate the magnet beam while it is carrying its load allows packs to be lined up in any direction on lorries or in the warehouse.

Magnet systems for sheet packs

Using a magnet system for handling packs of sheets offers the following advantages.

Advantages

- Can carry small, medium and large formats, plus special lengths
- No need for chains or mechanical grippers
- Packs can be rotated by means of a load slewing device on the spreader beam
- Picking sheets straight out of opened packs saves time

Your benefits

- One system for all formats – one size fits all!
- No loss of material quality during handling
- Fewer accidents and increased safety
- Faster handling speed

Figure 2: Transporting a sheet pack using a deep-penetrating magnets

Features of TRUNINGER design

TRUNINGER designs and manufactures magnet systems for handling sheet packs of all sizes.

- Multi-purpose spreader beams and correctly configured magnet design are key features of the TRUNINGER magnet systems for sheet transport.
- The magnet beam design is adapted to the relevant material lengths. Three types of beam are used: fixed beams with movable magnet groups (see figure 1), extremely compact active telescopes (see figure 2) and lightweight passive telescopes (see figure 3).

- The magnet controller enables simple motorised movement of the magnets, allowing them to be positioned correctly to suit differing material lengths. This minimises any load deflection and guarantees safe transport.
- Load slewing device allows the spreader beam and load to be rotated in order to align the packs with the material flow (see figure 1).
- With TRUNINGER magnet systems the lifting force can be finely adjusted, thus enabling even thin steel sheets to be separated.

Figure 3: Large sheets lifted using a passive telescope