
Stacking cradles

Time saving advantage

By using a TRUNINGER magnet system you save not only space, but lots of time as well. Magnets, when properly operated, allow you to:

- Approach the load quickly and reliably
- Grip the load securely
- Lift the load from its storage location in a few seconds

Magnet systems also enable everything in the warehouse to be tightly packed, which results in shorter average crane travel distances and therefore saved time.

Handling more material in a small space

Where automatic storage of long products is not economical, storing material in stacking cradles can be a useful alternative. In situations where small volumes or small quantities of material are stored and transported, what is needed is often just a lifting system which allows:

- Easy access
- Low space requirement
- Simple operation

Using a stacking cradle system it is possible to store large quantities of material in a very compact space. Such a storage system is the ideal, flexible solution for space-saving, safe storage of long and/or flat material as well as products in large quantities.



Figure 1: View of a typical stacking cradle storage system

Magnet system with cradle carriers

Cradle carriers fixed on the magnet beam allow several operations with the same system:

- Rapid loading of the bundle into the stacking cradle
- Simple mechanical re-stacking of cradles
- Precise order picking of individual items using the magnets

By using the cradle carrier system to alter the stacking order, material lower down is always accessible. There is no longer any need for any manual rearranging.

The magnet system's cradle carriers are located between the two magnets of a magnet group. The lugs are swivelled out by a motor.



Figure 2: Mechanical re-stacking of a cradle

Before order picking with the magnets the motor swivels the lugs back. The entire cradle carrier is no wider than the magnets. Long material can therefore be picked without any obstruction.



Figure 3: Order picking from the stacking cradle

For structural reasons a different cradle carrier design is needed for wide or flat loads. Here the carrier lugs no longer get swivelled out. Instead a motor rotates the entire carrier mechanism.



Figure 4: Carrying cradles using rotatable carrier mechanisms

Summary of your benefits

- Load capacity of up to 3 tons per cradle
- Suitable for all material lengths (3 - 12m)
- Suitable for almost all surface dimensions
- Suitable for almost all volume dimensions
- Fast access to material when used with a magnet lifting system
- Highly stackable – optimum utilisation of space
- Rapid transport of products via automatic operation
- Time-saving
- Reduced risk of damage (compared to lifting with chains)
- Easy to use
- Cost-efficient storage
- Storage capacity can be increased at any time