

## Most important magnet features:

### Load test.

This is a standard feature to increase the level of safety of the system.

When the operator pushes the ON button the magnet system starts at reduced power (between 50 and 80% of the normal power).

Then the operator lifts till approx. 10 cm height. If there is something wrong, then the load will fall off, like with too heavy load, something wrong with the power, something wrong with the magnet system. An adjustable time after receipt of the lift signal (usually 2-3 sec), the magnet force is switched to 100 % automatically. So, this means a safety factor is included then to ensure safe moving of the load through the warehouse/factory.

### Tipping

Tip off means that the magnet power is gradually reduced from 100% till zero by holding a button (+ safety button). This feature enables the operator to reduce (shed off) the number of plates that are lifted by the magnets (in case of multiple lifting). In this way it's easy to discard one plate at a time.

With single pipe lifting this feature can help the operator to prevent that the pipe(s) laying next to the lifted pipe will also be lifted.

### Group selection

The magnets can be selected one by one or per set. Then shorter products can be lifted without affecting other products lying next to it.

Now it is easy to lift a great variety of product length.

### Tipping per group

With this feature the operator can lay down a long plate step by step (magnet by magnet), by which up blowing dust and noise are being prevented.

In case a short plate is hanging below a large plate, the operator can select the magnets to tip only there, so the short plate can be laid down, without losing the large plate. Especially at a cutting table, as there is a large variety of plate dimensions, this feature enhances the efficiency of loading and unloading the cutting table.

### Partial load – 5 or 10 steps magnet force control

The lifting force of the magnets can be pre-selected in 5 or 10 steps. This enables fast lifting of partial loads. This avoids having to discard too much lifted material with the tip off function.

An experienced operator knows exactly what magnet force he needs at a certain thickness/weight. He can lift the exact quantity at a time, so he avoids tipping off products, saves a lot of time and prevents noise & dust of tipped off products.

This feature prevents that a pipe laying next to the pipe will also be affected by the magnets.

### Partial load return

To prevent stacked plates (or machine) to jump up to the load, partial load return is used for putting down a load with the same reduced force as used at lifting.

This feature prevents that a pipe lying next to the pipe will also be affected by the magnets. This is included in the above mentioned 5 / 10-steps magnet force control.

### Extra demagnetising cycle (incl. with 5 / 10-steps control)

Especially when you lay down a pipe on a machine to saw or cut it can be a nuisance if there is any residual magnetism left in the plate. With this feature the operator is able to give an extra counter pulse to neutralise the residual magnetism which results in flawless further production.