

# Handling Systems for Level Wound Coils

As a competent producer of Level Wound Coils manufactured to the latest technology we also offer to our customers the necessary handling systems.

The LWC's are usually delivered stapled vertically on pallets with up to 7 coils high. For coil handling we can supply the following components depending on customer's requirements.

## 1. LIFTING BELTS

These lifting belts are used to move the coils. According to the arrangement of the decoiling device or the customer's preference we can offer two types of belts:

### a) Belt A

This belt (see Foto) is wrapped around the coil and tightened by means of a ratchet. The coil can then be moved by crane from the horizontal into the vertical position.

In this way it is possible to place the coil on the decoiling device. This system is suitable for all vertical decoiling devices.

### b) Belt B

This belt (see photo) is, in addition to the lifting strap of belt A, equipped with two more straps, which are of-set by 180 degrees.

The advantage of this system is that the coils can be moved in the horizontal position (on the stack) by means of the two additional supporting straps onto a horizontal decoiling device. You can also turn this coil 180 degrees using this strap (and thereby change the launch direction).

This system is primarily used for horizontal launch equipment, but it can also be deployed for vertical launch equipment because it provides the lifting band for strap A in addition to the two holding straps fitted to the side.

### Advantages of both belt systems

- no damage of the coils during handling
- easy handling of the belts
- unique purchase cost

### Note:

It is PROHIBITED to lift and transport copper tube drums above people. Their use is only permitted at floor level.



## 2. ADAPTER REELS

For those customers who regularly decoil the same dimensions we offer a further cost and handling advantage with our adapter reels.

Instead of supplying the LWC's on cardboard reels (which are used for uncoiling the coils on the decoiling device), we also offer adapter reels that are compatible with all standard decoiling machines. In this case, the coil "without cardboard core" (off reel) is lifted on to these adapter reels using our lifting belts and is decoiled from this adapter reel.

The adapter reel consists of a wooden drum and a quick release flange.



Closed adapter reel without coil



Open adapter reel with coil



Closed adapter reel with coil

## 3. OVERHEAD UNWINDING

When unwinding from the coil guiding device, the drum remains on the pallet in the condition in which it was delivered and the packaging is cut open just enough to uncover the copper tube coil. The copper tube is pulled out from the middle of the drum and fed into the bending machine or leveller via a plastic tube.

The structure of the equipment which is required to hold the tube director depends primarily on the local conditions. There is no general design solution, only individual customer-specific designs. Coils of up to 450kg can be unwound in this way according to their dimensions.

There are many advantages to using this method:

- Transportation on the pallet direct from the warehouse without additional lifting (handling using straps)
- Diminished risk of damage to soft copper tubes
- Reduction of set-up costs
- Higher launching speed
- Longer machine times
- No g-force on the coil (no slowing down or gathering speed)
- Multiple unwinding options

Special notes:

- The layer wound coils (LWCs) must be prepared accordingly for this unwinding
- Not every dimension allows unwinding (up to 12 x 1 mm)

