Guidelines for handling plastic reels

Storage

Transportation

Winding & unwinding

Modern plastic reels offer many benefits. With the following notes, we want to ensure that you achieve the highest loading safety when handling our products as well as the maximum service life of the FIDUS reels supplied.

HORIZONTAL OR VERTICAL?

We differentiate between 2 types of positioning:

Horizontal reel

The core tube is aligned at right angles (vertically) to the floor; the reel rests completely on a flange.

Vertical reel

The core tube is aligned parallel (horizontally) to the floor; the coil therefore rests against both flanges.

STORAGE

Empty reel: Unless requested otherwise, we deliver our plastic reels on pallets, wrapped in foil and provided with a hood. However, this only represents limited weather protection.
Please note that prolonged outdoor storage may lead to condensation under the foil wrapping and to accompanying soiling.

Loaded and vertically stored reels must always be secured against possible rolling away (risk of accident!).

Loaded and horizontally stored reels must be palletized and strapped.

Loaded and unloaded reels must always be stored in dry, protected and frost-free storage areas without permanent exposure to sunlight!

TRANSPORTATION

To ensure occupational safety and to protect the wound goods, it is essential to use suitable transport and lifting systems for transporting horizontal or vertical plastic reels.
Also avoid toppling, throwing, bumping or tilting reels.

Horizontal reels may only be picked up and transported positive-locked via the spindle hole (central bore) with a suitable and approved load handling equipment (reel lifter, internal gripper).

It is essential to **avoid** lifting and transporting a loaded plastic reel on the outside of the flange

RECOMMENDATION: If you do not have any suitable load handling equipment for horizontal reels, we would be happy to offer you the mechanical FIDUS internal gripper 56/80. Suitable for the spindle hole diameters 56 and 80 mm, our gripper ensures a positive-lock attachment of the reel.
All approved lifting systems (transport bar, forklift, mini-excavator, crane) can be connected via the towing eye by means of a chain sling.

Vertical reels must be secured against rolling away unintentionally and may only be transported using suitable lifting and transport systems. Lifting and transporting vertical reels is only permitted via both flanges at the same time. Avoid rolling the reel on the flange edges for longer distances.

It is forbidden to lift and transport vertical reels in the loading area.

RECOMMENDATION: We recommend the use of pallet trucks or forklifts with adjustable prism forks or roller lifters or forklifts with arbor.

WINDING AND UNWINDING

FIDUS plastic reels are suitable for use in winding and unwinding systems in the cable industry.

REQUIREMENT: The reel must be inserted into the machine via the spindle holes of both flanges on a shaft corresponding to the spindle hole diameter. The reel should be clamped by means of pressure flanges rubberized on the inside, which have an outer diameter of at least 220.0 mm. The contact pressure must not lead to any deformation of the flange or core hole!

Note: If the diameter of the pressure flange is smaller than the diameter of the core hole, the load or the contact pressure inside the core hole will be too high, which will lead to undesired deformations even to the extent of the flange tearing off.

UNWINDING CABLES

CORRECT

Always unwind cables perpendicular to the reel axis.
For this purpose, the reel can be mounted rotating on a vertically or horizontally positioned pick-up shaft (pick-up mandrel).

INCORRECT

The vertical unwinding or fliering of cables or wires on flier systems without dancers and without tension control directly above the upper flange of a horizontal and fixed reel is not permitted due to the high tensile stresses that occur when the unwinding reel is too small.

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Recycling Pioneers

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