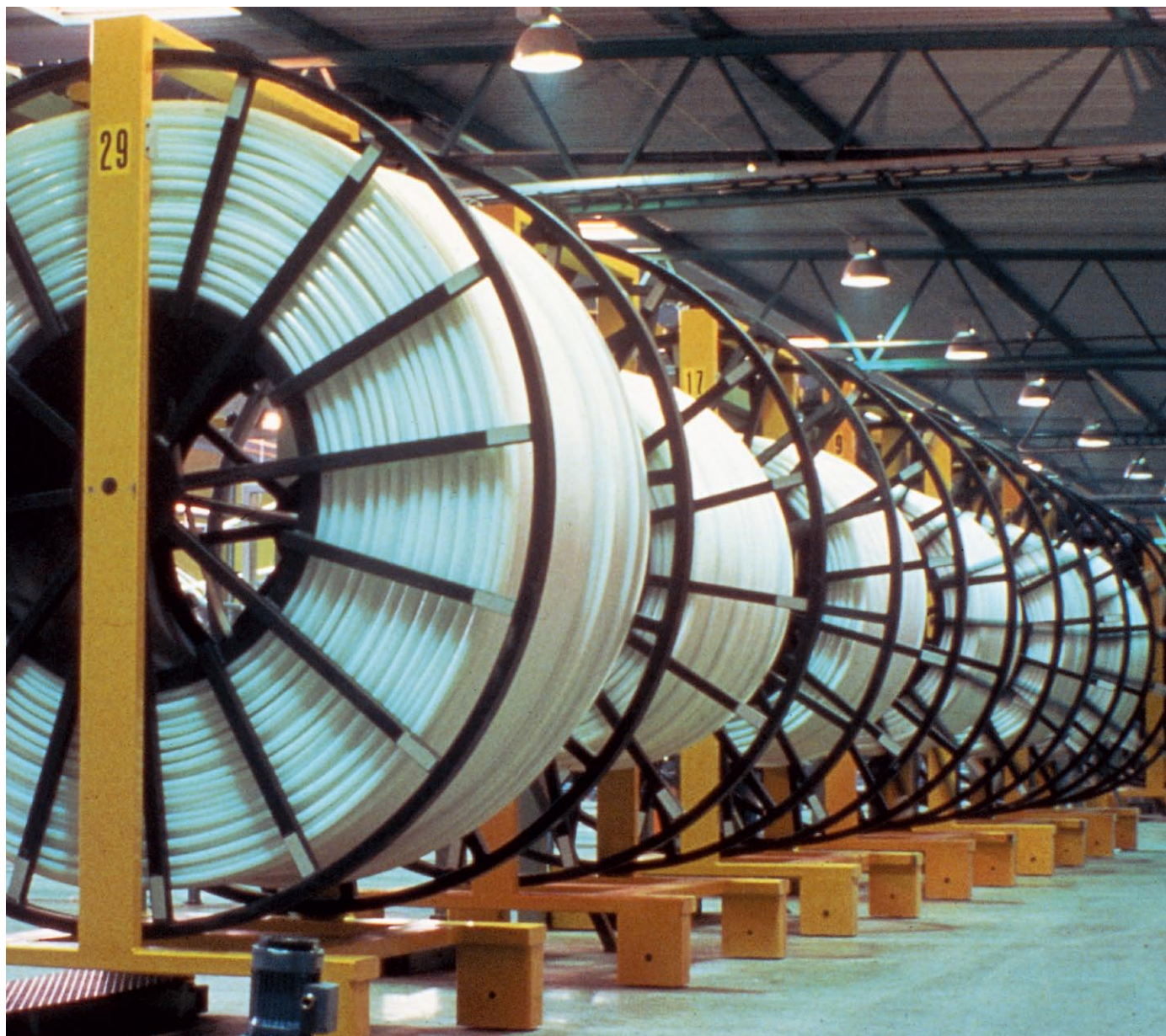


## Reel Container Pay-off &amp; Take-up System

## Skaltek AC/UC22

**Basic Vision – Customer Need**

The Skaltek AC/UC22 is designed for winding and unwinding of lightweight products, such as PEX floor heating tubes, in moderate line speeds on reels which are permanently mounted in steel stands.

The original idea – Reel Container – dates back to 1975.

The Reel Containers are made for in-factory material flow, which protects the sensitive product from handling damage.

The AC/UC22 offer complete applications for winding, unwinding and handling.

**Main Advantage – Customer Value**

The advantages of eliminating conventional handling of reels are obvious:

- Eliminated damage of the product
- Eliminated damage of the reels
- Eliminated damage of the equipment
- Increased operator safety
- Better control of material flow
- Better control of inventory
- Lower cost for reels and equipment
- Lower costs for machine maintenance
- Better winding quality



- Organized production leads to Customer Confidence and higher product Quality.

**Result – Reward – Return of Investment**

Elimination of handling/transport damage leads to substantial cost savings. Careful reel handling without forklifts results in better control of material flow, a much

improved working environment and better End-Customer Confidence.

**Basic Product Information**

**1.** The CY-reel containers can be moved by hand in Y-direction as there are wheels built in to the reel container stand. Movement in X-direction can be done by forklift or AGV.

**2.** The AC/UC22 machines are permanently mounted on the concrete floor. Installation is quick and simple. The Reel Container is easily pushed on its wheels into the UC22, and will automatically be locked in take-up position.

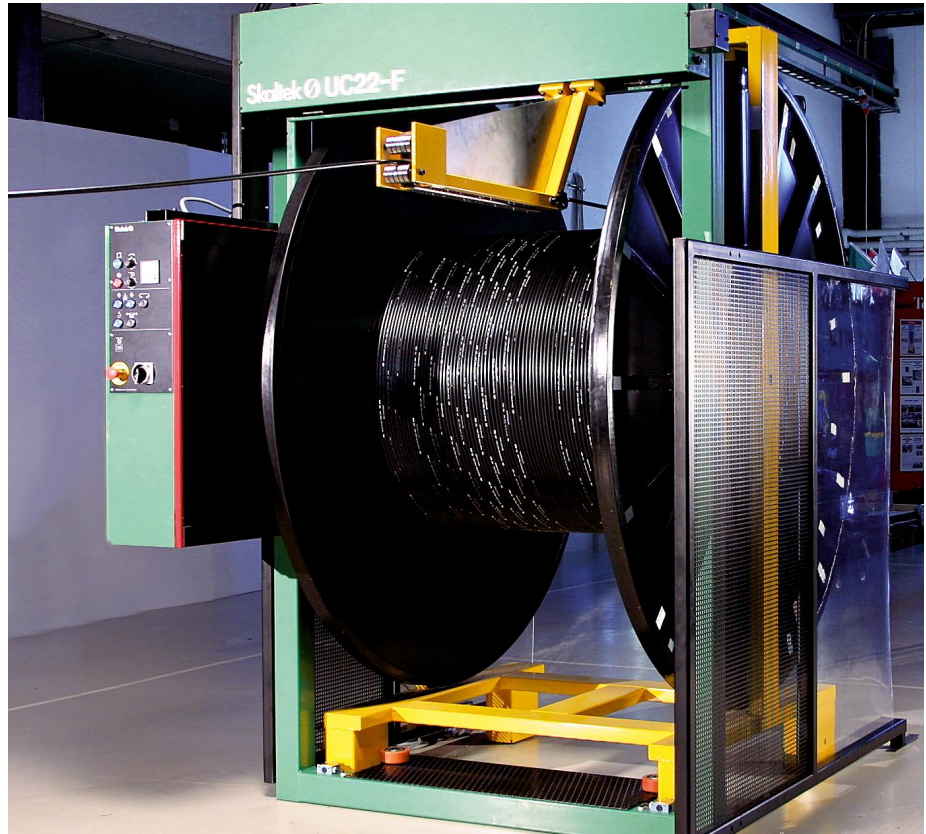
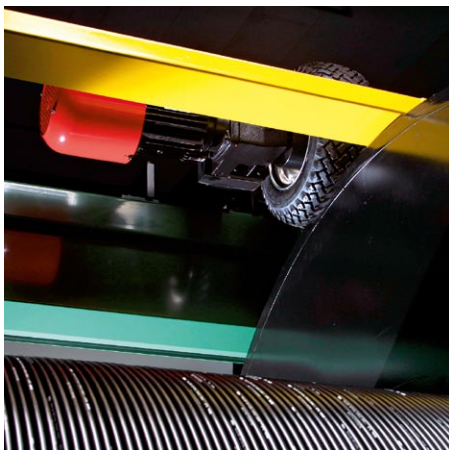
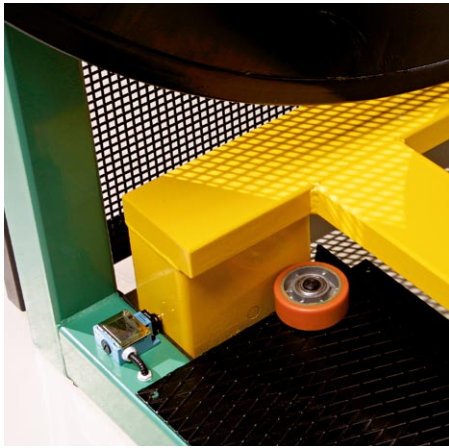
**3.** The take-ups are equipped with PLC-control. The operator panel is mounted in the electrical cabinet.

**4.** The rotation of the reel is done by an AC-driven rubber tire on the rim of the reel flange.

**5.** The laying of the product is controlled by a laying guide, which is digitally controlled by

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an AC servo motor. As the product diameter is entered on the operator panel, the laying guide automatically detects the reel flanges and turns at the correct position. The laying guide is designed to guide the product in a straight line to maintain proper laying.

6. The layout must consider a distance between the fixed outlet point from the production process onto the reel of minimum 3500 mm, which is important for the laying guide geometry.

7. The CY22-reel container has the following reel dimensions:

- Reel diameter 2200 mm
- Traverse width 1100 mm
- Barrel diameter 1000 mm

8. A disc-braked pay-off is also available.

#### Reference – Product History

The Reel Container concept from 1975 was intended for automatic reel handling, but Skaltek's established customers in the cable industry were tradition-bound by thousands of existing conventional reels of many different sizes and existing, conventional machine equipment. As a consequence, they were not ready for this futuristic solution. Instead Skaltek found applications in the plastic tubing industry, where this system was ideally suited. Since 1981 around 500 machines of the lightweight AC/UC22 type have been built and delivered.