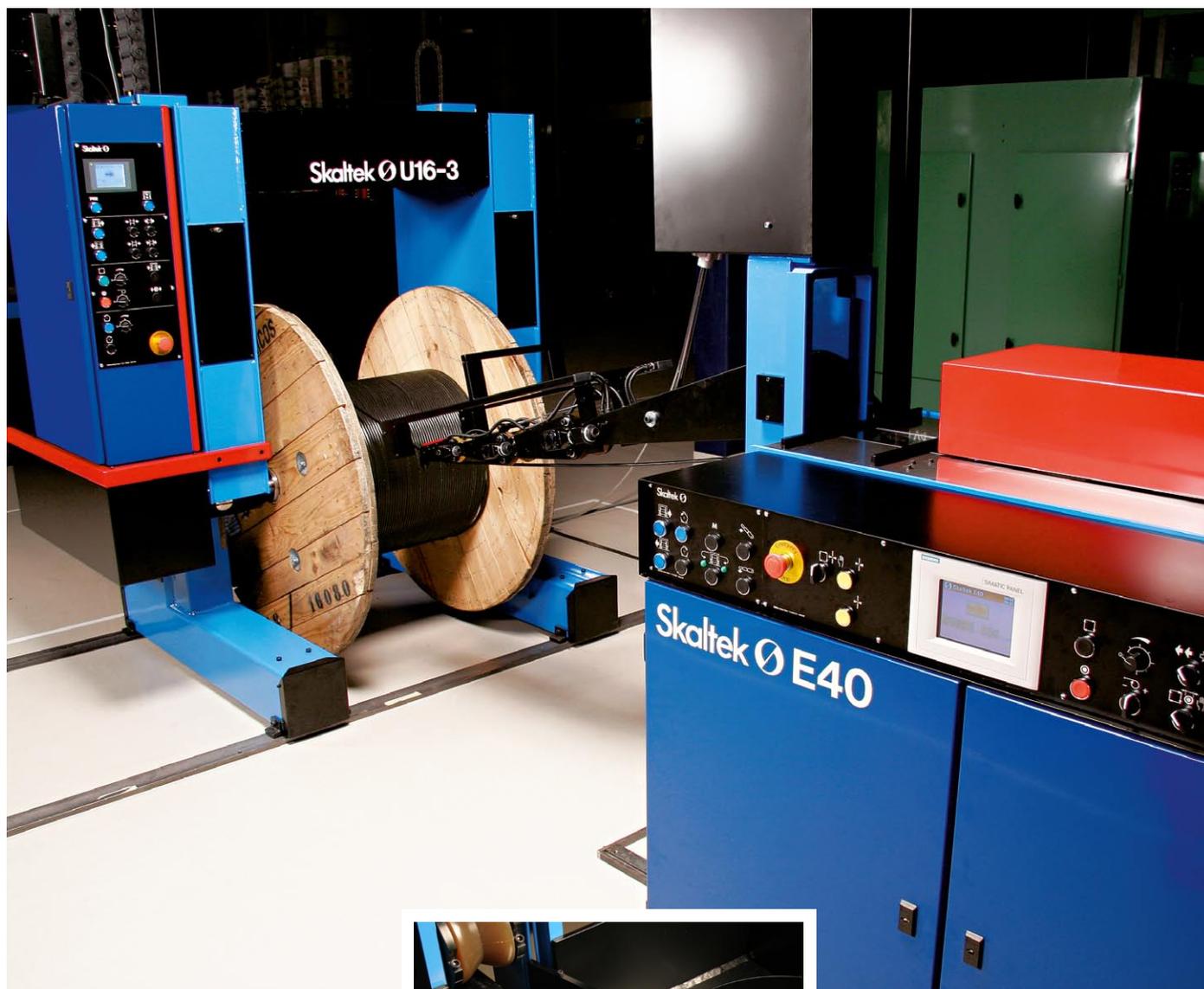


Delivery Rewind Line

Skaltek E40 / E60 / E80

**Basic Vision – Customer Need**

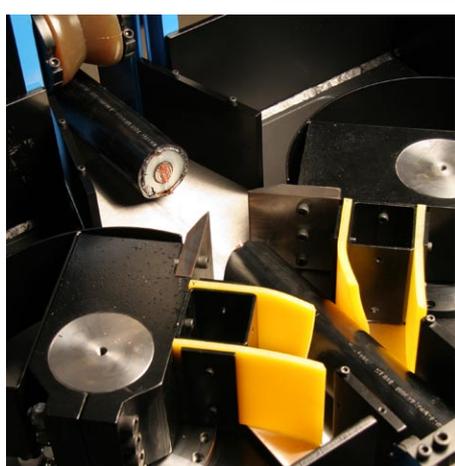
The Skaltek E-lines are developed to offer highly efficient delivery rewinding equipment. “E” is short for Exact, which is the purpose of the E-lines – to produce exact customer cable lengths without wasting cable, and to do this efficiently with a minimum of settings and downtime.

In most conventional delivery rewind lines, where cable types and reel sizes are changed often and where specified customer lengths are to be wound, the stand still time of the equipment can be as much as 70% due to adjustments and settings of the equipment, reel changes, etc. In order to compensate for the inefficient production, the equipment is often required to operate at unrealistic line-speeds.

A delivery rewind line is basically a packaging line, normally with a complex variety of cable types, sizes, and lengths – and with a large variety of reel sizes. This requires careful analysis and sound considerations.

Main Advantage – Customer Value

- The E-lines have been developed to increase the effective running time by elimination or automation of settings. By increasing the activity of the equipment,



the top line speed becomes less critical – when operating at more realistic speeds, the winding quality improves and the stress on equipment and operators is reduced.

- The overall output reaches a higher quality and efficiency. In many cases, one Skaltek E-line has replaced two, or even more, conventional rewind lines, which saves space and number of operators.
- The high length accuracy, $\pm 0,1\%$, saves waste and ensures accurate customer deliveries = better customer confidence.
- The simplicity of setting up the line for different cable types and custom lengths

enable quicker and better customer deliveries.

- The function oriented design of the E-line makes training of operators easier, as all sizes of E-lines are identical in operation. Maintenance is also reduced and simplified.

Result – Reward – Return of Investment

The initial investment of a Skaltek E-line is normally higher than that for a conventional rewind line, but when all advantages are added up, it is easy to justify the E-line.

The high quality of each machine unit provides for many years of service – the first E-lines supplied in 1986 are still in operation.

Basic Product Information

1. The E-line is a complete line application based on three standard machine modules:

- A tire-driven System X pay-off
- A central unit including a flying cutter, length counter and a control cabinet with touch screen panel and PLC, which controls the line application
- A traversing take-up – tire driven or pintle driven depending on the reel sizes, etc.

2. Depending on cable dimensions and

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types, as well as reel sizes, there are many different combinations of equipment available. The E-Line central unit is made in three different sizes:

- E40: winds cable diameters 8–40 mm and cuts up to Cu 240 mm² or Al 360 mm²
- E60: winds cable diameters 12–60 mm and cuts up to Cu 3x240 mm² or Al 3x360 mm²
- E80: winds cable diameters 20–80 mm and cuts up to Cu 1000 mm² or Al 2000 mm²

Please Note! Possible cable types and Cu/Al cross sections largely depend on the cable types. Careful cable type analysis must be done for each project.

3. Skaltek recommends using System X tire driven pay-offs and take-ups with the E-lines, as the downtime for reel changes is reduced significantly due to the eliminated drive pins.

4. Line speed and settings for optimal cable lay are selected automatically. The wanted length of cable is entered and the built-in cutter automatically cuts at full length and resets itself immediately after cutting, in order to maintain a repeated length accuracy of $\pm 0,1\%$.

5. The pay-off is equipped with a hanging panel, which enables the operator to jog the reel to locate the cable end, and to move the pay-off sideways to position the reel for

a straight line into the central E-unit. Finally the operator can push a button which starts a slow jog forward of the reel, which makes it easy for the operator to hold on to the cable and feed it in to the central E-unit. This feature is especially useful for large and heavy cable types.

6. The Skaltek E-lines are made to simplify for the operators and thereby increase the overall line output. Some of the features are:

- Automatic registration of reel diameters in both the pay-off and the take-up
- Automatic measuring of cable diameter to determine correct traverse speed
- Automatic setting of guide rollers – the V-shaped rollers always keep the cable centered
- Automatic positioning of the central unit according to take-up reel diameter
- Automatic setting of turning points at reel flanges
- Automatic selection of optimal line speed
- Automatic, continuous correction of cable lay – Skaltek's patented laying system
- Automatic cutting of cable at full length
- Automatic feed out of the cable after cut
- Automatic reset of length counter at the exact cutting point

Reference – Product History

The Skaltek Delivery Rewind Line E was introduced to the cable industry at Wire 1986 in Düsseldorf and has been supplied to many customers in Europe and North America.

