

Roblon Traversing Precision Coiling Unit, TPCU 7-30

Roblon Traversing Precision Coiling Unit offer unmatched performance, reliability, and versatility, making them the ideal choice for cable manufacturers.

Roblon Traversing Precision Coiling Unit, a revolutionary solution designed to automate cable winding processes by eliminating the need for manual guidance on the take-up drum. Engineered for unparalleled precision and efficiency, this innovative coiling unit offers automated precision winding at high speeds, setting a new standard for cable production.

The TPCU 7-30 can be implemented into any existing rewind or jacketing line and thereby increase coiling quality while significantly improving safety and reducing labor costs.

By leveraging controlled positioning technology, the Traversing Precision Coiling Unit ensures uniform winding patterns for products such as cables, wires, plastic tubes, or profiles, virtually eliminating gaps and product crossings during the take-up process. This not only enhances operational efficiency but also delivers a more presentable end-product with minimal cable damage.

Safety is paramount with the Roblon Traversing Precision Coiling Unit, as it eliminates the need for manual cable guiding, thereby reducing the risk of accidents and injuries associated with manual handling. Innovative control and regulation technology enable the unit to monitor and adjust tension levels, ensuring uniform product positioning side by side. Moreover, the unit adeptly detects flanges and orchestrates turning maneuvers at precisely the right moment, further enhancing winding precision.

- Optimal safety
- Short payback time
- No crossing of cable
- Uniform winding
- No re-winding



Roblon Traversing Precision Coiling Unit can wind materials ranging from Ø7-30 mm and is supplied with easy exchangeable pulleys for different product diameters.

| Technical data | TPCU 7-30 |
|--------------------------|---|
| Winding speed: | Up to 100 m/min. depending on cable behavior |
| Winding tension: | 30-300 N |
| Reel diameter (flanges): | 800-2600 mm |
| Barrel diameter: | 400-1400 mm |
| Product diameter: | Ø7-30 mm |
| Product types: | Round and rectangular cables, steel wire, plastic pipes, profiles |
| Dimensions (L x W x H): | 2690 x 1800 x 2330 mm |
| Traversing width: | 1100 mm |
| Interface: | Profinet/Profisafe |

Winding quality

The Traversing Precision Coiling Unit's ability to ensure a uniform and consistent take-up performance reel after reel, depends on product design, product dimension, product surface, reel quality and not least the condition of the take-up.

Roblon recommends that reel flange crookedness should be less than $\frac{1}{2}$ x product diameter and reel barrel circular run-out is no more than 1 x product diameter. Expandable pulleys allow for irregularities up to a maximum of 2 x product diameter.

Optional equipment

Easy exchangeable pulleys for different product diameters

Fencing system according to machine directive 2006/42/EC

Customized traversing width

