Roll and spool winder

UV60-R / UV60-RS

For the winding with and without cores on rolls, spools and flanged spools of non-elastic and slightly elastic tapes up to medium-weight belts

UV60-R/UV60-RS

Concept
The UV60-R and UV60-RS are microprocessor controlled, fully automatic roll and spool winders, which have been designed to handle a range of items extending from non-elastic and slightly elastic tapes to medium weight belts (up to 2mm thick). The innovative concept is evidenced by its enormous flexibility, fast resetting capacity and adaptability to virtually any customer requirement.

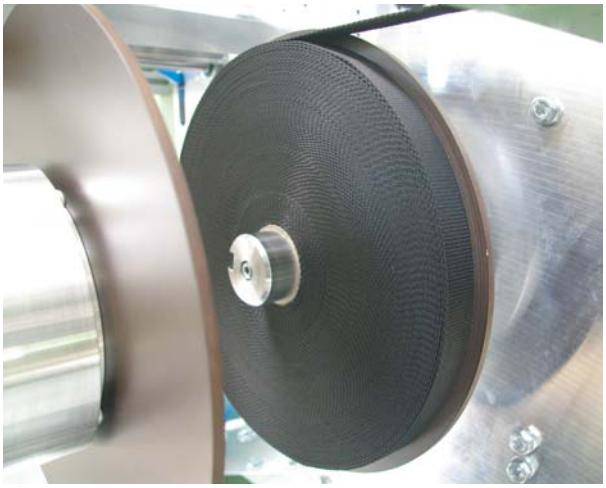
Basic types
UV60-R for roll winding alone
– Winding axis with machine-side, lateral discs
– Winding finger for fixing the start of the tape width
– Adjustable, universal tape guide (15 - 100 mm, no tape guide changes)
– Integrated pneumatic ejection device

UV60-RS for roll and spool winding
In addition to the features identical to those of the UV60-R:
– With electronic laying device for spools
– Specific tape width guidance with a quick change system and counter bearings

Winding applications:
– Roll winding on card /plastic cores
– Coreless roll winding
– Spool winding on card /plastic cores
– Winding on wood, card or plastic flanged spools

Application
The UV60-RS is ideal for the making-up of textile tapes and technical articles:
– Transport and packaging strips with and without coatings
– Strips for securing loads

UV60-RS with roll-off shaft for spools resp. magazine wagon for rolls



Roll winding between two lateral discs

– Glass fibre tapes
– Textile tapes and belts with thickened and/or asymmetrical edges
– Elastic and non-elastic tapes and belts
– Venetian blind and mattress tapes

Important features
– Special tape guides ensure reliable processing, even in the case of kinked goods
– Numerous different types of winding (flange spools, core and coreless) are possible with a minimal adaptation requirement
– Roll winding between lateral discs provides a uniform distribution of tension across the winding diameter in combination with the extremely precise tape tension control that was previously only possible with manual winders
– Between the lateral discs even tapes with the asymmetrical edges common to textiles can be wound into a roll with straight edges. Problems such as the deformation and/or extrusion of the roll centre are largely avoided
– Integrated guide elements provide precise winding right up to the winding point, exact laying control and automatic height adjustment of the tape guide
– An automatically controlled driver finger with an integrated roll ejection device eradicates the need for tape labels, resulting in cost savings and enhanced process reliability
– A fully automatic winding sequence includes the feeding of empty cores/spools up to the storing of the wound rolls/spools
– Excellent production output / advantages
– Easy setting and adjustment owing to stored, retrievable product parameters.

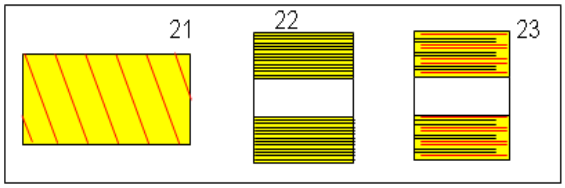
Standard features
- Pre-transport motor with a dancer device for controlled tape tension
- Electronic length measurement
- Fully integrated tape guide system:
  - Tape guide with clamp controlled horizontally by a stepper motor
  - Pneumatic control of up to three cutting positions
  - Motorised, vertical tape guide tracking on the actual winding diameter
  - Predefined programme sequences
  - Stable, cold cutting knife
- Coreless winding device
- Clamping of the start of the tape using a pneumatically activated driver finger on the winding axis
- Pneumatically activated slide flap as a roll removal device
- Touch panel controls

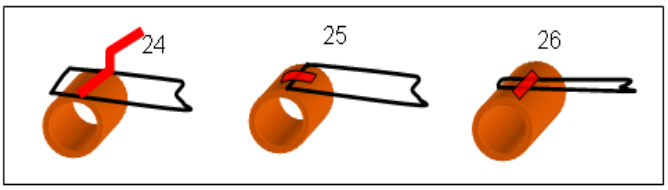
Controls

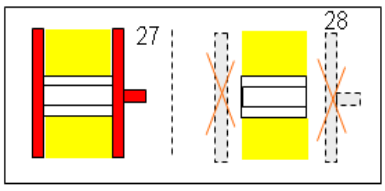
Colour touch screen for simple and comfortable operation.
- Graphic display of the winding geometries
- Straightforward, intuitive setting of the winding modes and process parameters via the touch screen
- Recipe administration and “one-touch” quick recipe selection for easier machine setting
- Additional graphic display of machine faults and maintenance instructions
- Extensive diagnosis and test functions for all motors and valves

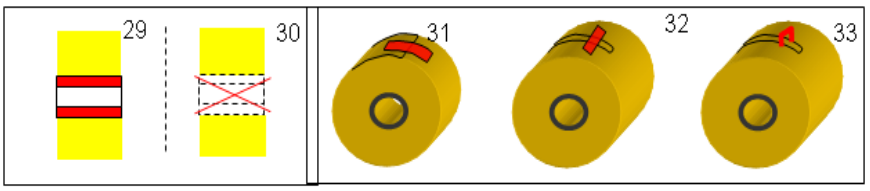
Flange spools winding with fabric guide over winding axle on UV60-RS

Spool winding on core, width 350 mm, diameter 400mm on UV60-RS







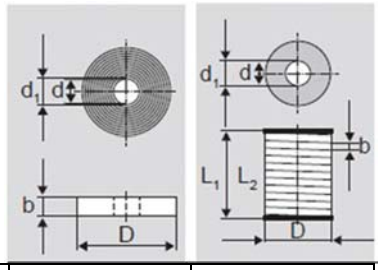


Winding modes: 21 spools, 22 rolls, 23 changes
Tape start fixing 24 clamping fingers, 25 longitudinal labels, 26 lateral labels
Winding types: 27/28 with/without lateral discs, 29/30 with/without core
Tape end fixing: 31 longitudinal labels, 32, lateral labels, 33 staples

UV60-R/UV60-RS

Options

- Light barrier on the deflection roller for knot recognition
- Disentangling device
- Sensor for tape end recognition
- Over-tension device with magnet brake in the tape intake to prevent machine damage due to incoming knots
- Metal detector
- Pre-transport and winding motor for high tape speeds of up to 400 m/min
- Machine without lateral discs (lower price)
- Machine without a core magazine (lower price)
- Additional spool magazine
- Winding between two lateral discs (only with counter bearings)
- Recognition of previously marked tape defects
- Tape end fixing devices (stationary for R, mobile for RS)
- Longitudinal labelling device (also suitable for tape start labels)
- Longitudinal and/or transverse labelling device (also suitable for tape start labels)
- Folding device for transverse labelling
- Clamping device
- Needle unit
- Roll outlet shaft for spools
- Transport and magazine wagon for roll stacking
- Additional roll wagon
- Pre-transporter and dancer roller for elastic articles
- Additional tape guide for spool winding
- Powered run-out device
- Spool selection device
- Hot cutting device
- Inline layout, e.g. upstream inspection



Dimension (mm)		Roll	Spool
D	Outer diameter	500	80–400(Option 500)
L1	spool width	–	50–350 (Option 500)
b	tape width	15–100	0,5–40
d1	core outer diameter	30–80	30–80
d	core inner diameter	25–75	25–75
			L2 min = 20

Technical data

- Tape speeds of up to 200 m/min (optional up to 400 m/min)
- Tape thicknesses of up to 2mm
- Please see table for roll and spool thicknesses

Connected load

Installed load: 6 kW
Mains connection: 3 x 400 V+N+PE – 50 Hz
Compressed air: 6 bar

Footprint

Width: 3,640 mm
Depth: 2,075 mm
Height: 2,300 mm (+ 450 mm sliding doors)

Fascination of Ribbons and Narrow Fabrics
Innovation in Machinery

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