

RINGROL 1200

Fully automatic coil winder

**High outputs,
Short changeover times -
Fully automated coil winding**



Fig. 1 RINGROL 1200 with safety fence and roller guide

RINGROL 1200

- Fully automatic coil winder for coil-Ø max. 1200 mm

Functionality:

This horizontally working fully automatic coil winder has been designed for winding in-line and off-line plastic pipes (e.g. B. PE, PE-X, PB, etc.), plastic metal compound pipes (e.g. B. PE-AL-PE, PE-CU, etc.) as well as hoses and other coilable materials. The pipe to be coiled is at first transported by means of the feed unit (either provided for by the customer or integrated in the laying unit). The material feed (roller guide or guiding pipe) transports the front end of the pipe to the opening provided for in the winding core and there, it is pneumatically fixed. This operation takes place without stop up to extrusion speed due to the synchronisation of the servo-controlled axles so that there is no need to stop the continuously extruded pipe. Due to the rotational movement of the winding core, a coiled pipe bundle is obtained. Prior to cutting, the bundle is held together by a four-arm gripper. After winding the remaining length, the winding core is drawn upwards and the bundle is transported to the strapping unit. The coil can be strapped several times with PP strap or wrapped with plastic foil. For this purpose, it is turned over. On completion of the strapping, the coil is pushed out on a roller track by means of a two-axle coil ejector. Sturdy machine frame with sheet-metal cover of stationary design with a separately placed electric switch cabinet and switch desk for the central control of all machine functions.

Technical Data	RINGROL 1200
Part No.	3021.000
Winding material-Ø	8 - 32 mm
Coil outside-Ø	580 - 1200 mm
Winding core-Ø	400 - 600 mm
Winding height (coil width)	90 - 600 mm

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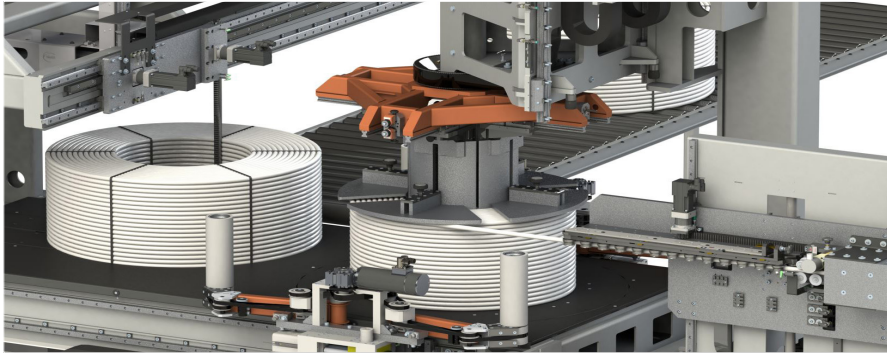


Fig. 2 Functional principle



Fig. 3 Finished product

Basic equipment:

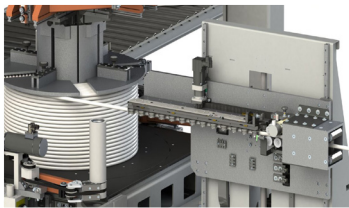


Fig. 4 Traversing unit

Operator panel

- The operator panel is swivelling and installed at the operating side

Traversing unit

- Horizontally, vertically and longitudinally displaceable unit for the precise laying and positioning of the front end of the pipe at the winding core

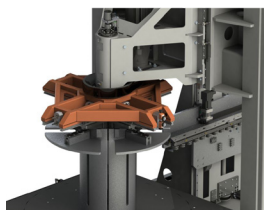


Fig. 5 Coil winding station

Coil winding station

- Horizontally working winding unit with hinged winding cores
- Winding height (coil width) and winding core diameter are steplessly adjustable

Coil gripper system

- Pneumatically operated double-sided gripping unit to hold down the coiled bundle of coils and to transport it to the strapping unit
- Rubber covered driven gripping rollers to turn the bundle of coils ducoil strapping



Fig. 6 Coil gripper system

Coil ejector

- Two-axle linear system driven by a servomotor for pushing out the finished bundle of coils onto a roller track



Fig. 7 Coil ejector

Strapping station for PP straps

- Station for the multiple strapping of the bundle of coils with PP strap trough the lug of the coil

Further modules:



Fig. 8 Wrapping station for stretch straps

Wrapping station for stretch straps (as an alternative to wrapping with PP straps)

- For the partial or complete wrapping of the bundle of coils trough the lug

Holding-down device for the wrapping station

- To avoid that the bundle of coils bursts prior to wrapping (particularly in case of rigid elastic plastic pipes)
- Automatically adjustable to changing height

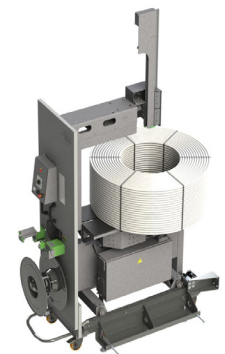


Fig. 9 Strapping station for PP straps