

PORTROL

Winding line for heavy drums

We move big drums

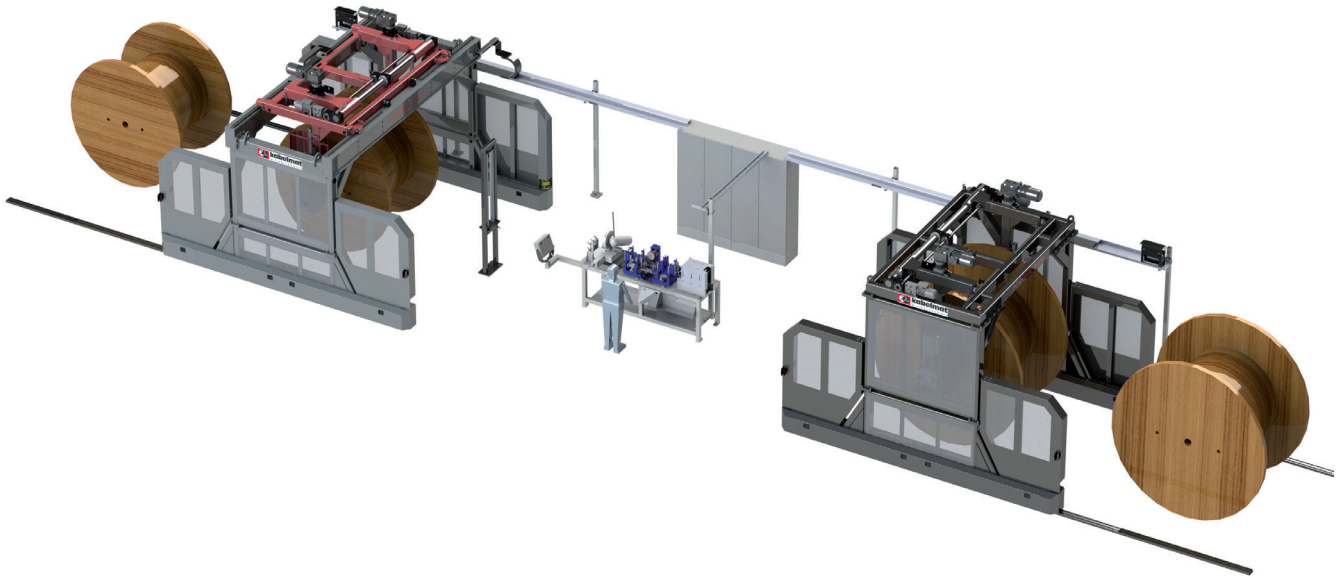


Fig. 1 PORTROL 3000 TELE-ABW / PORTROL 2600 TELE-AUF

PORTROL

- **Winding line for heavy drums**

Wrapping machines for the heavy duty range are used for the cutting and wrapping of winding materials for high energy transfer as well as for data transfer in the copper and glass fibre field. This requires drums of a large diameter due to the maximum admissible bending radius and the big cutting lengths for energy transfer over long distances.

For this purpose Kabelmat has developed machines for drum sizes of up to:

Drum diameter	up to 3.000 mm
Drum weight	up to 10.000 kg
Winding material-Ø	up to 100 mm

Due to the tough and time-consuming rolling in of the heavy drums, these machines are now available with a running gear mounted on rails. This mobile unit facilitates work considerably.

In addition, these machines are driven by powerful servomotors and are equipped with digital servo-converters with Profinet interface. The complete line is speed-controlled. The unwinder is also equipped with a motorised drive for the winding operation with instantaneous control.

Length measuring devices are available of contactless laser measuring design or the well proven MESSBOI 100 with electronic preselection counter, always with permission for the movement of goods requiring calibration. The suitable cutter is also available.

Winding line for heavy drums

Basic equipment:

- Steel frame of solid design, stationary screwed down onto the floor
- Steel frame of solid design, mobile on rails
- Very simple and easy material holding fixture with spindle sleeve arms driven by electric motor. The spindle sleeve arms move completely together so that even very narrow drums can be taken up
- Internal frame with the complete spindle sleeve unit for drum receipt traversing via AC geared motor
- Drum holder takes place via quick-change cones and a one-sided driver wing with sliding drive pin
- Winding drive consisting of AC geared motor with frequency converter
- The functions lifting/lowering as well as clamping/opening of the spindle sleeve arms via electric spindle drive together by pressing a button. The clamping force is limited by a set torque
- Hanging buttons for operating the functions lifting/lowering, clamping/opening, positioning of the drum
- Lateral sheet metal covering in the area of the sleeve arms against the intervention in the winding area
- Drum lowering protection
- Material return detection
- CE declaration of conformity according to Machinery Directive 2006/42/EG
- Electrical switch cabinet implemented in the machine

Recommended equipment:

- **Speed-controlled gear motor** depending on technical specifications
- **Frictionally engaged drum driver** with sleeve for easy loading of the drum without carrier bolts
Consisting of two carriers for both pintle arms. Cylindric drum loading.
- **ACUMATIC, material accumulator / dancer**
- **Instantaneous regulation of winding drive**

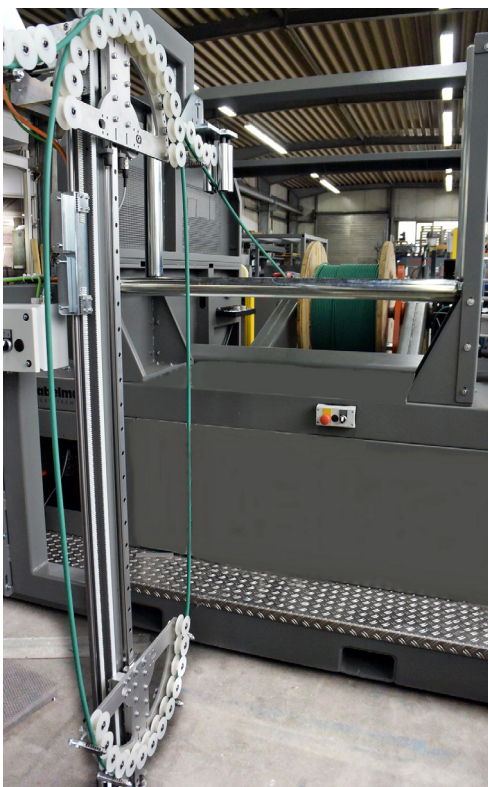


Fig. 2 ACUMATIC: material accumulator / dancer for controlling and synchronization of the drive of the drum. Necessary for tension sensitive winding goods.

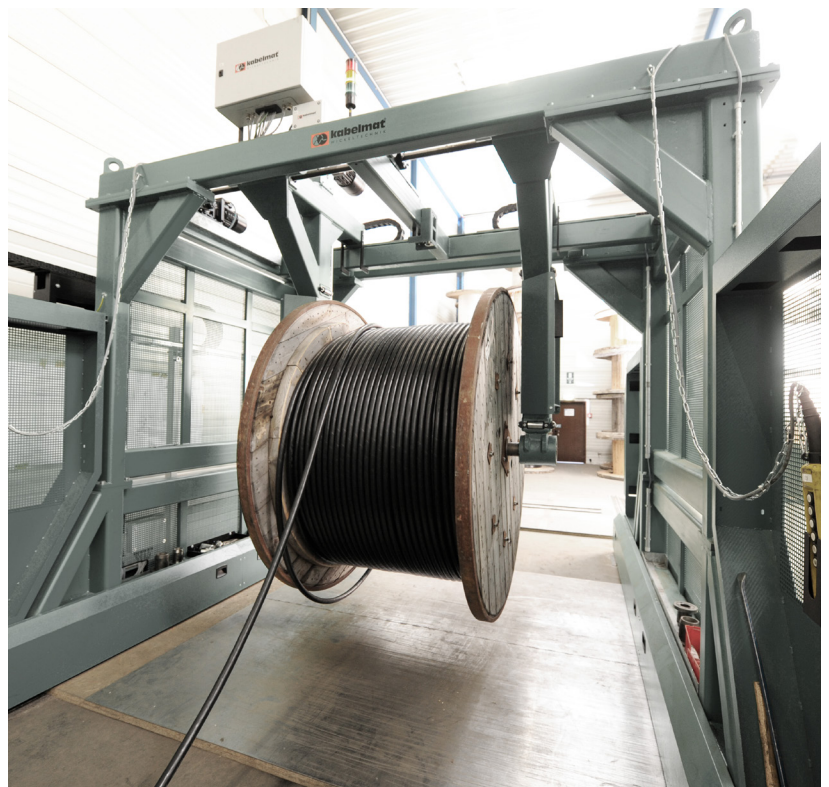


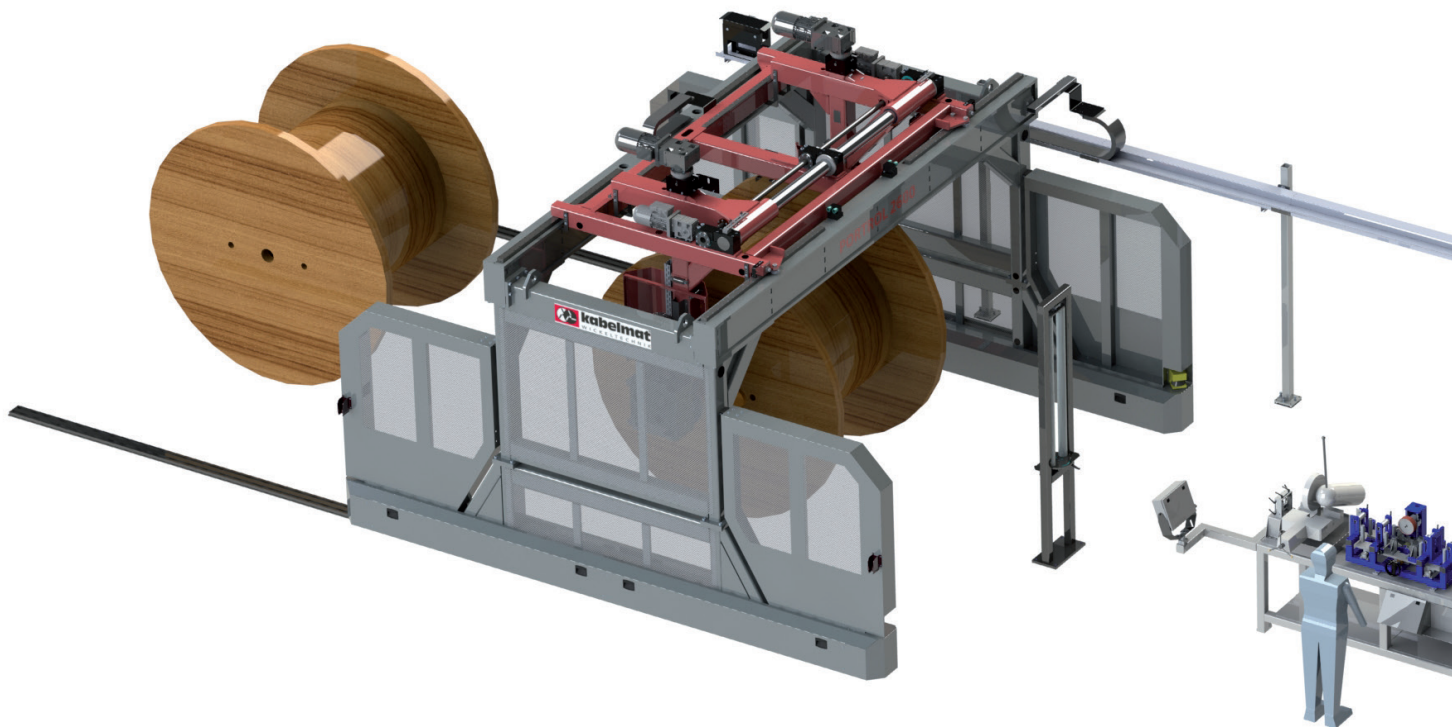
Fig. 3 PORTROL 2500 AWB

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Winding line for heavy drums

PORTROL 3000 ABW - PORTROL 2600 AUF

Synchronised working drives will not only avoid an overstretching of the winding material, but also ensure a perfect laying patten



Additional function for winder:

Automatic synchronization of traversing with winding drives

The traversing pintle unit is getting synchronized with the winding drive for an exactly lay of the winding material. Therefore, the winding material has to be fixed on one point in the inlet device to run into machine.

Additional function for unwinder:

Follow-up control of the traversing via sensors

Due to follow-up control, rigid cables and wires are guided straight through the winding line. That has the advantage that there are no unnecessary bends and a gentle winding process is guaranteed.

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Winding line for heavy drums

Equipment:

Portal unwinder PORTROL 3000

- Mobile version for an easy assembling of heavy drums
- Telescopic arms for drum take-up
- Frequency controlled winding drive with AC-drive engine
- Safety laser scanner for area safeguarding
- Device table with mounted length measuring device MESSBOI 100, cutter and guiding

Portal unwinder PORTROL 2600

- Mobile version for an easy assembling of heavy drums
- Telescopic arms for drum take-up
- Frequency controlled winding drive with AC-drive engine
- Safety laser scanner for area safeguarding
- Traversing via guiding unit for an exactly winding pattern of the material

