

Powerful all-in-one solution

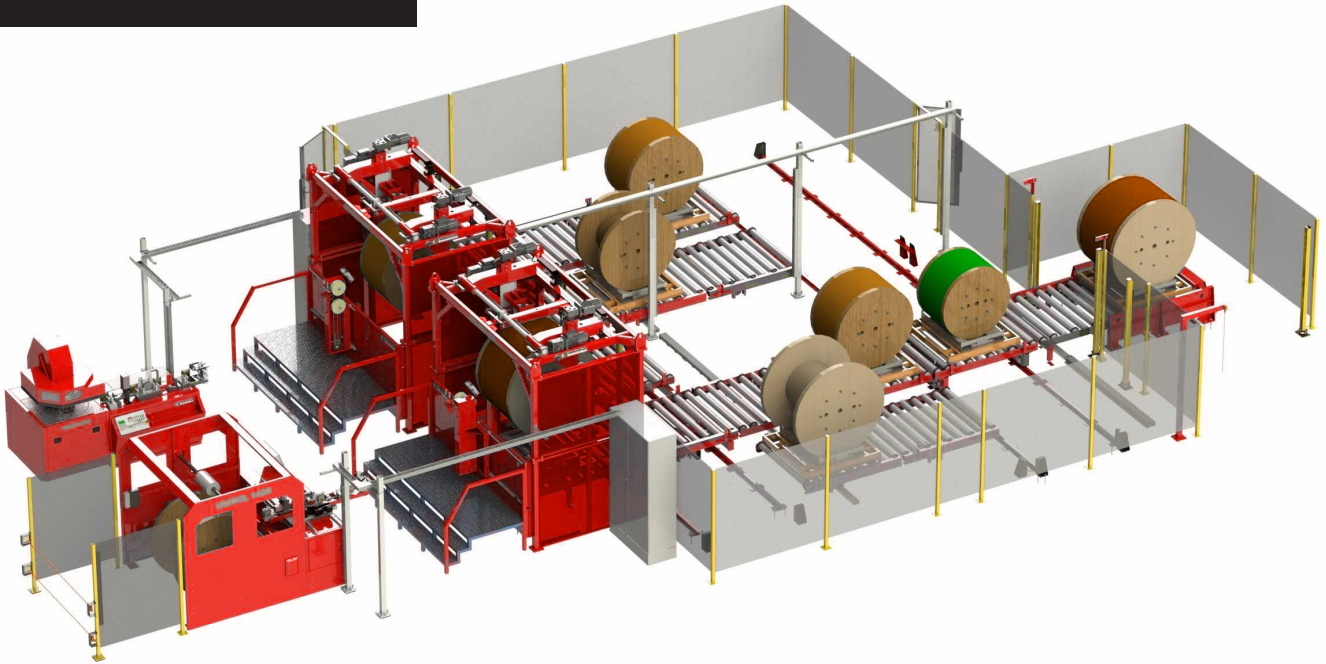


Fig. 1 AUTOLOG winding line

AUTOLOG

- **Winding line with automatic drum pick-up**

Cables and lines for the transfer of different types of electrical energy or data are now an important component of building services engineering, machine and plant engineering, telecommunications and a range of other applications.

Kabelmat offers two different systems which are described below:

System 1: Machine to drum

The approved system „Machine to drum“ is still used in many sectors. The advantages of this system are short access times by picking the material, easy operating of the machine as well a low investment costs. It is mainly used, where number of cuts are low and fewer additional staff will be needed.

System 2: Drum to machine

Depending on increasing centralisation of cable warehouses there is an continuously increasing number of variety of storing positions and cuttings. Routes to the machine are getting longer, complex and unprofitable. Therefore, more and more companies deciding to use the professional solution „Drum to machine“. To ensure an effiecent deployment of staff, it is recommended to automate procedures as far as possible. Kabelmat also offers the right support for this.

PERFECT INTERACTION

Synchronised workflow = reduced cycle time

WINDER AND UNWINDER

- High output performance
- High winding speed
- Automatic measurement of the drum
- Optical drum bore detection
- Automatic drum pick-up
- Frictionally engaged drum pick-up (no driver hole required)
- Winding drive on both sides for an even distribution of force on the drum
- Winding diameter registration for fine-tuning of the winding drives
- Cable accumulator for tension-sensitive cables

LENGTH MEASUREMENT

- Barcode identification of winding goods
- Assignment and documentation of winding goods
- Automatic storage and retrieval of winding data
- Marking of winding material by label printer (date, material, length, company logo)

SAFETY TECHNOLOGY

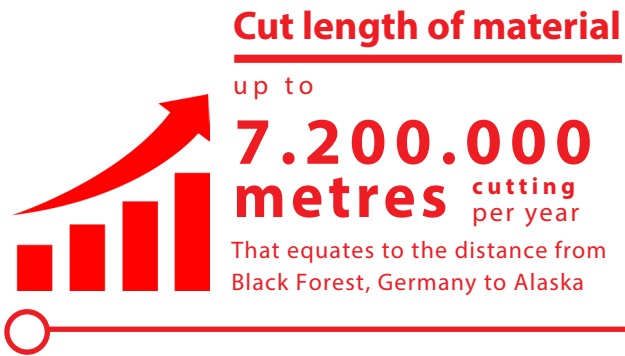
- Closed, complete system providing high level of safety
- Defined workspace for operators

CONVEYOR TECHNOLOGY

- Ability to integrate conveying system from various suppliers in efficient manner
- Transportation of drums on pallets

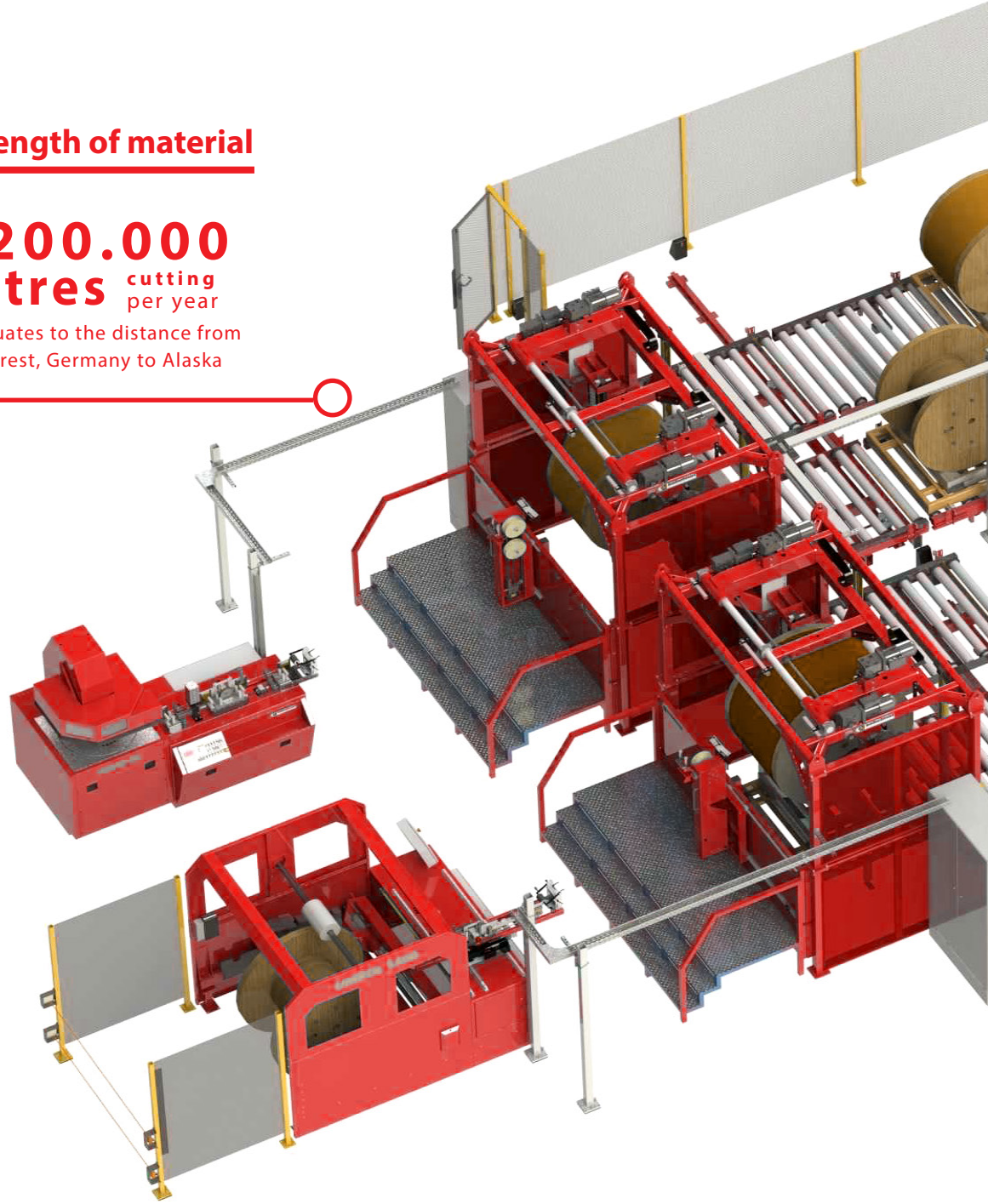
THE SYSTEM: DRUM TO MACHINE

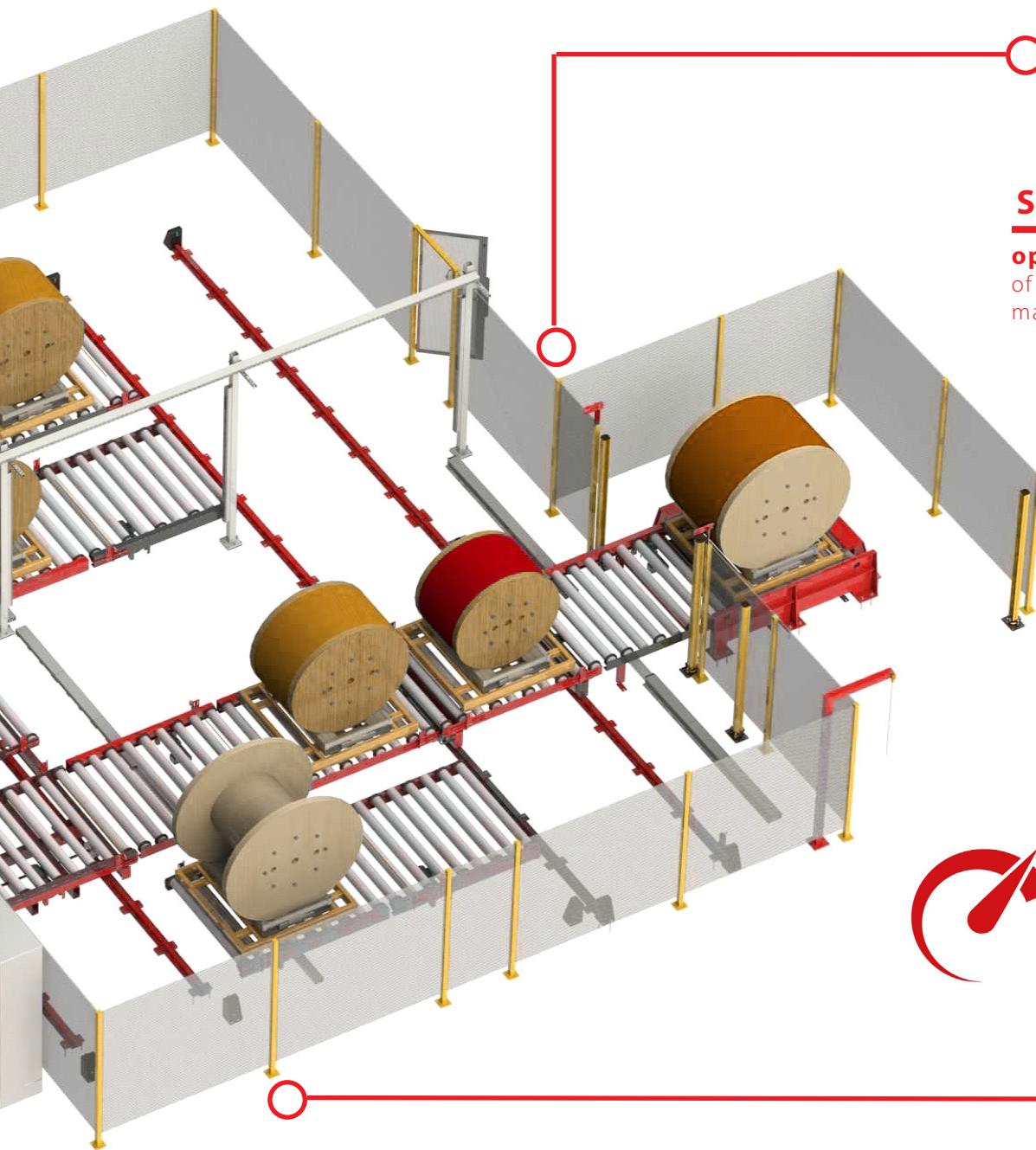
- Clearly structured material flow
- Clear winding pattern at high speed



LINE 1

LINE 2





Software

optimum data flow
of data between warehouse
management and machine



Speed

max.
250 m/min

The desired length is unwind from the original drum and wind onto the target drum and cut off - in a fully automated process. Even the process of transportation to the cutting machine is carried out by conveyor systems. The winding and unwinding processes take place at the same time. The winder and unwinder are driven by one motor each and synchronised using an electronic traction monitor.

This stops the winding material from being overstretched. Automated routing of the winding materials onto drums and rings ensures that the winding pattern is clear and consistent. During this process, the cutting data is logged and then archived by calibrated length measurement devices. In this way, it is possible to trace each order position using its individual drum data right through to the production process.