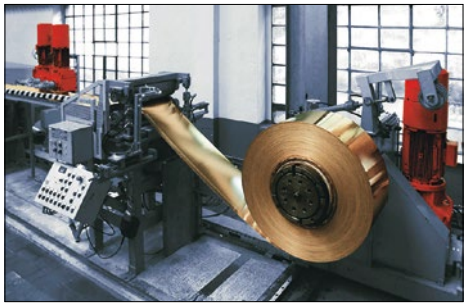
BRIEF INFORMATION

MOVIKIT® Winder

POTENTIAL USES / TYPICAL APPLICATIONS



Winder in clocked machines, e.g. for stamping sheet metal

Machine with web material running through it and with winding units and tension shafts

Winder in cable, rope or wire applications

THE ADVANTAGES AT A GLANCE

Dependable startup
thanks to prefabricated, tried-and-tested function blocks

Rapid startup, optimization and diagnostics
(when combined with MOVIKIT® AFW), thanks to animated startup interfaces

Compatible, end-to-end fieldbus interface
Ready for use with other MOVIKIT® modules in smart applications (in combination with MOVIKIT® AFW)

Flexible and open
with basic modules that deliver adaptability for more complex applications

AN OVERVIEW OF THE TECHNOLOGY

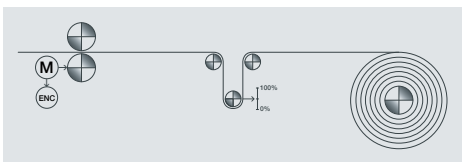
The MOVIKIT® Winder features a program library full of functions for implementing winding applications that enable users to wind or unwind materials with consistent tension or web speed. In winding applications, different materials and mechanical conditions require different winding technologies.

This means the following applications can be achieved, for example:

- **Winders** that wind or unwind material with consistent tension or web speed; tension control available as an option
- **Rewinders** that rewind material onto another coil, whereby one winder sets the consistent web speed and the other winder sets the consistent tension, or
- **Winders with a dancer** that implement the tension-determining winding or unwinding of material, whereby the tension in dancer position control is generated by the dancer weight.

MOVIKIT® Winder supports the following standard processes:

- Tension-determining winders with torque control (tension control available as an option), dancer position control and tension control via control of setpoint speed through tension measurement
- Speed-determining winder with open-loop speed control (closed-loop speed control available as an option)



Overview of functions:

- Torque control (tension control available as an option)
- Friction coefficient determination for torque control
- Dancer position control
- Tension control via control of setpoint speed through tension measurement
- Open-loop speed control (closed-loop speed control available as an option)
- Diameter identification (computer, position counter, distance sensor)

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