

series EcoFlex/PowerFlex

automatic turret unwinders



The SML turret unwinder family consists of two different types of unwinders. The PowerFlex types are designed for extra wide applications and high speeds up to 600 m/min. Due to the massive construction they can absorb vibrations very effectively. The EcoFlex unwinders give you a maximum of flexibility at a reasonable price level and speeds up to 320 m/min.

Each unwinder has its own PLC-system with a touch screen operating panel, which makes it easy to fit them also into an existing production line. Settings for different kind of materials can be stored in recipes for quick and unproblematic product changeovers. Tension control is very sensitive due to the speed control loop with an integrated ultra-light carbon fiber composite dancer roller.

The new bobbin has to be prepared with double sided adhesive tape.

During the change over sequence the new bobbin is synchronized to line speed. The joining with the active web and cross cutting will be done at production speed.

Chucking heads mounted on motorized moveable side frames make it easy to work with different core widths.

The basic versions have one cutting system for a roll change of a counter clockwise rotating bobbin. Additionally a second cutting system can be added to give you the advantage of bi-directional unwinding.

The EcoFlex unwinders are built as a modular construction system and due to this they require a minimum of hall space at a maximum of possible features. They can be equipped according to your requirements.

A maximum unwinding diameter of 1500 mm helps you to enlarge roll change sequences and to minimize roll loading activities.

The optional constant gap unwinding roller gives you the advantage to unwind aluminium foil at a minimum thickness of down to 6,35µm. If higher web tensions outside the unwinder are required, an additional take off unit can be added at the outlet. The motorized side frames in the turret in combination with an optional edge detecting support can be used as web guiding unit.

For more simple applications SML can also offer simple semi-automatic unwinders but SML can also offer specific solutions especially developed for your demands.

SML Maschinengesellschaft mbH

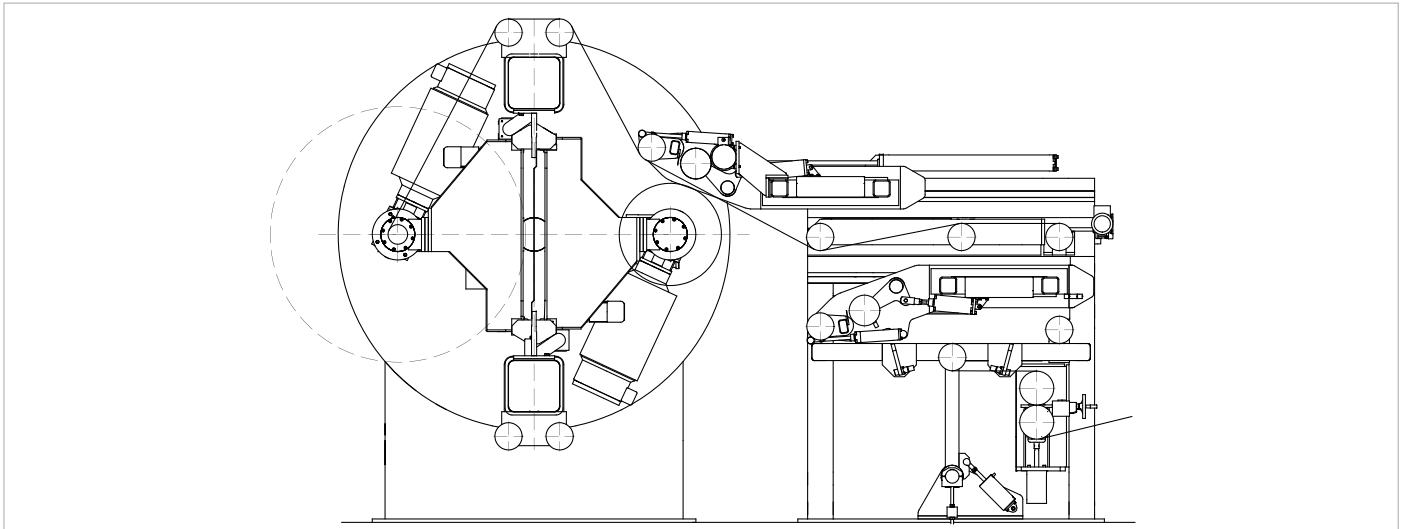
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	EcoFlex	PowerFlex
application	films, paper, nonwoven, aluminium foil	films, paper, nonwoven, aluminium foil
max. mech. line speed	up to 320 m/min	up to 600 m/min
core clamping	6 and 8" shaftless, 3" depending on speed and width, winding shafts optionally	6 and 8" shaftless, 3" depending on speed and width, winding shafts optionally
unwinding direction	counter clockwise both directions optional	counter clockwise both directions optional
max. mechan. unwinding diameter	1500 mm	1000 mm (optional 1200 mm)
max. material width	up to 2800 mm	up to 4400 mm
max. load weight	2500 kg	2500 kg
unwinding tension	50 - 500 N	50 - 1500 N depending on application
speed control	CFP dancer roller	CFP dancer roller
cross-cutting device	rotating chopping knife optional flying knife	chopping knife
integrated PLC system	yes	yes
touch screen	15" color screen	15" color screen
modem connection	yes	yes
options		
integrated edge guiding system	available	external
integrated pulling unit for web tension expansion	available	external
constant gap unwinding for aluminium foil	available	
bobbin handling system	crane or lifting table	crane