

## series 1100TF winders

turret winders for sleeve and calendering lines



Series 1100TF winders are the ideal automatic winders for sleeve line and calendering line applications:

- various mono or coextruded films out of PP, PET, COC, PC in the thickness range 100-450 microns, produced on sleeve lines.
- PP, PS and PET thermoforming films eventually with EVOH barrier
- special PMMA and PC optical films

A web tension measuring roller positioned in the inlet section is used to control the upstream web tension. So this web tension is separated from the actual winding tension by means of the following nip roller arrangement.

The winders are equipped with a central drive for gap or contact winding mode. Winding in contact mode offers adjustable lay-on pressure. The gap-winding mode works via a laser-controlled gap between the bobbin and the contact roll itself.

With increasing bobbin diameter, the contact roll unit retracts continuously via an AC servo-positioning drive. 10 taper curves are available and can be preselected and modified individually.

Series 1100TF winders are equipped with a powerful guillotine cutting unit, especially suitable for rigid film and sheet. The winders are suitable for 3", 6" and 8" shafts.

For producing part-bobbins friction winding shafts can be used (optional). In this case, 2 adjustable banana rollers are positioned in the inlet section to adjust a small distance between the part-webs. Edge and part-web cutting is done before the winder. In friction mode the winding tension is controlled by the pneumatic pressure control in the shaft, according to adjusted start tension and taper curve.

For transportation of the shaft and the bobbin in and out of the winding station the winder is equipped with a portal robot. To withdraw the bobbin from the shaft, one shaft end is fixed in a clamping device and the bobbin is withdrawn from the shaft by a moveable lifting trolley. From the trolley the bobbin can be picked up or tilted-off onto a pallet or a conveyor band.

SML's series 1100TF winders are available with winding direction being clockwise or counter-clockwise.

**SML Maschinengesellschaft mbH**

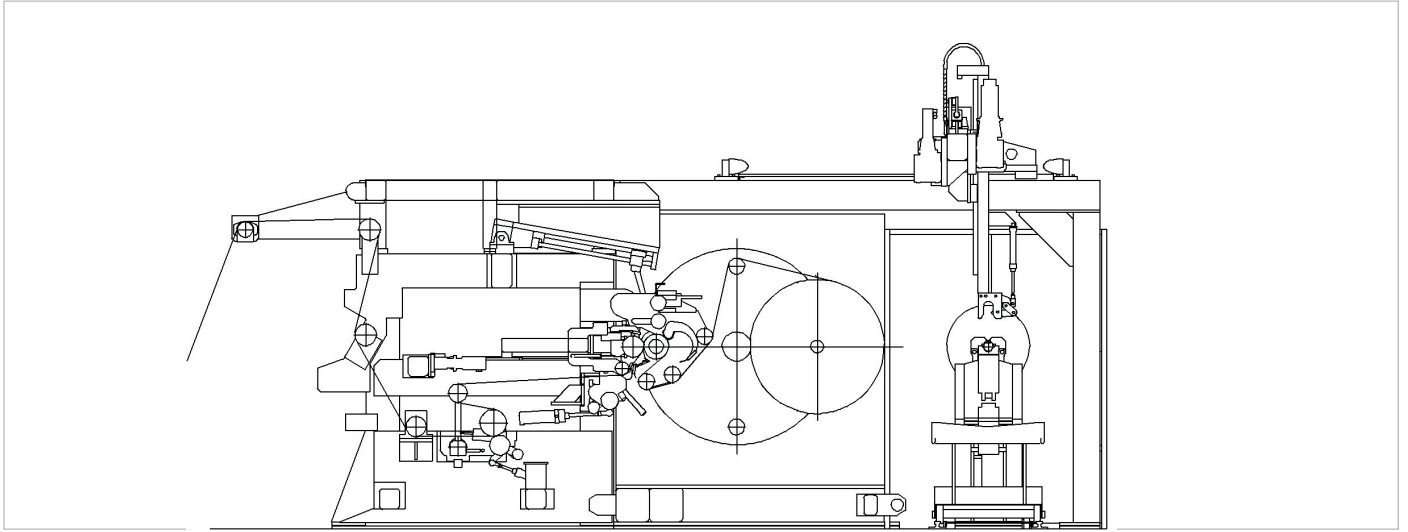
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# SML

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|  | <b>winders 1100TF</b>  |
|--|--|
| application  | sleeve and calendering films<br>PET, PP, PS, PC and PMMA   |
| thickness range                                    | 120 - 600 µm (3" shafts)<br>max. thickness up to 1000 µm<br>(6", 8" shafts), depending on material |
| max. mech. line speed                              | 100 m/min  |
| winding mode                                       | gap and contact  |
| winding direction                                  | depending on design<br>clockwise or counter-clockwise  |
| max. net film width                                | 1450/1750/2050/2450 mm   |
| winding tension                                    | 75 – 400 N/m   |
| contact roll pressure                              | 50 – 500 N   |
| roll start up device                               | core preparation necessary   |
| maximum mechanical bobbin diameter 3"              | 800 mm or smaller for full width<br>(depending on width and bobbin weight)                         |
| max. mechanical bobbin diameter 6" standard shafts | 1000 mm or smaller, if the total weight exceeds 2200 kg  |
| cross-cutting device                               | guillotine   |
| shaft/bobbin handling system                       | portal robot and lifting trolley   |
| part bobbins                                       | possible with friction shafts (optional)<br>limitation of diameters contingent                     |
| touch screen                                       | 15" color screen   |
| modem connection                                   | yes  |