

Basic structure

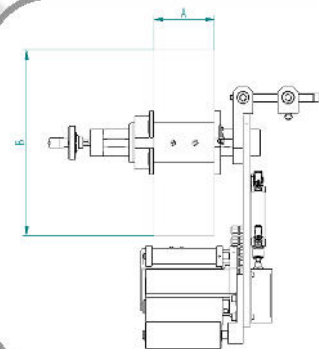
- Aluminium basic frame surrounded by cladding and open on the operating side.
- Control elements integrated in frame components.
- From single film application for one respective visible surface to double film application and film units with automatic changing while emptying the film roll of a unit.

Mechanical structure

- Comfortable adjustment of the individual film units to the product contour.
- In case of automatic film application, a second film applicator is switched to if the film roll of the first unit is used up. The used roll may then be replaced without interrupting production.
- Upon request, the STEIN film applicator unit may be expanded with a rotating unit, which enables settings from 0 degrees (vertical) to 90 degrees (horizontal) without any stages.
- The mounting mandrel for mounting the film roll may be adjusted to the size of the film roll cores that are used.

Operation/electrical technology

- For the single version of the film applicator, the electrical technology is omitted completely. The pressing rollers of the film applicator unit(s) are activated via pneumatic hand lever valves exclusively.
- For the automatic variant, a compact PLC controller is built-in to control automatic replacement of the film units. The control elements are designed as control buttons and/or switches. If a film roll replacement is necessary, this is signalled to the operator.



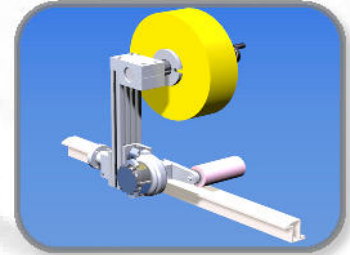
Technical data:

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| Film roll widths | Up to 120 mm (standard) to 300 mm (special versions) |
| Film roll diameter | Up to 350 mm |
| Core diameter | 75 mm (standard) |

Equipment/options/additional equipment:

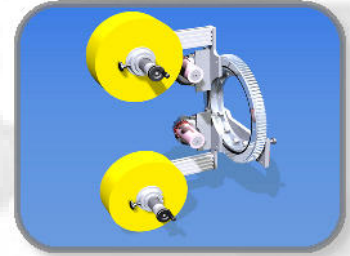
Single film application

The single version of the film applicator mainly consists of a mounting for the film roll and a pneumatic pressing roller that swivels in onto the profile contour. The mounting mandrel may be adjusted perpendicular to the extrusion axis via a spindle unit to enable exact application of the film on the visible surface of the profile section. One film applicator is required for each visible surface of the respective profile.



Single film application expanded with rotary table

An expanded version of the single film applicator including a rotary table enables the film applicator units to be aligned comfortably according to the position of the respective profile. The film applicators are attached opposite to a rotary table. To align the contour of the visible surface, a lock is engaged, the unit is turned, and then it is locked in position again.



Automatic film application

The automatic film applicator is equipped with two film units per visible surface of the profile. Each of these film applicators has its own film mounting mandrel, a pressing roller, and a special mounting for holding the start of the film. Both film applicators are mounted on a shared base plate and then aligned together via this plate to match the angle of the visible surface.

During production, one of the units is in use and moves the film onto the visible surface. The second unit is prepared; i.e. a film roll is already attached and the start of the film on this roll is fastened in the holder of this film applicator. If the film roll of the first film applicator is nearly used up (this is detected via a sensor), the second film applicator is activated and the first one is deactivated.

During use of the second film applicator, the film roll of the first one may be replaced by the operator and prepared for the next automatic change.



Additional pressing rollers/brush holders

In case of special visible surfaces that are not flat, additional pressing rollers need to be used that have partially been adjusted in terms of their geometry. These must be adjusted by the operator to the respective profile and set to its visual surface. In addition to this, the film applicators feature built-in holders for clamping the pressing rollers. We also offer simple tripod systems featuring corresponding clamping elements or more sophisticated systems with adjustable rotary discs for the pressing rollers. Pressing rollers featuring any geometry may be produced by STEIN. Specially produced profile brushes are also used for this application. We also offer corresponding holders for this.



Combination option for other STEIN machines

The STEIN profile film applicator may be combined directly with a STEIN caterpillar haul-off unit or a STEIN profile guillotine, saws, or other combination, among other items. In this case, the frames of the machines are connected directly with each other. The advantage in this case is that this reduces the overall length of the extrusion system.

