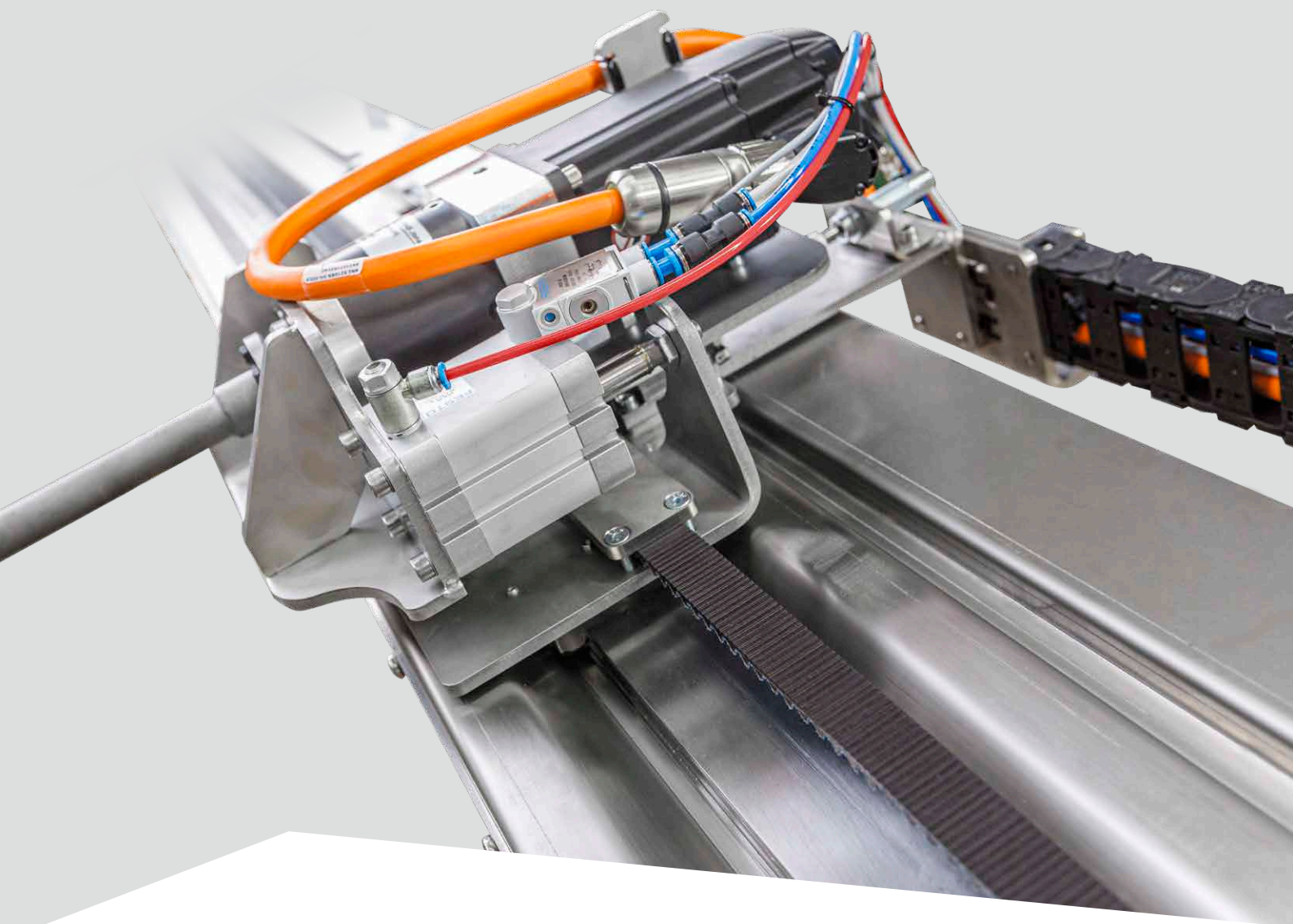


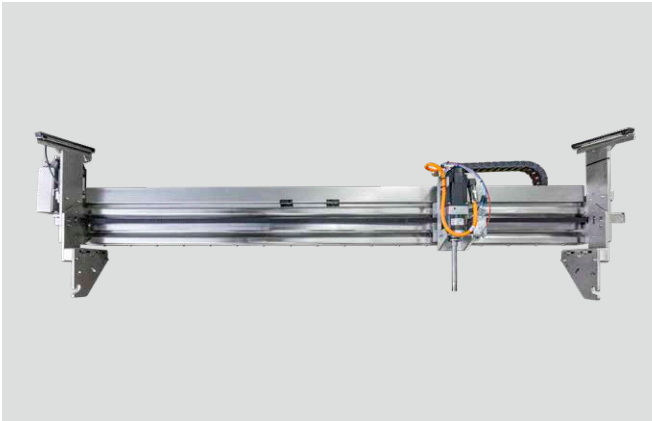
maku-DieTool®-L maku-DieTool®-R maku-DieTool®-LR



SWISS QUALITY 

maku ag 
EXTRUSION DIE AUTOMATION

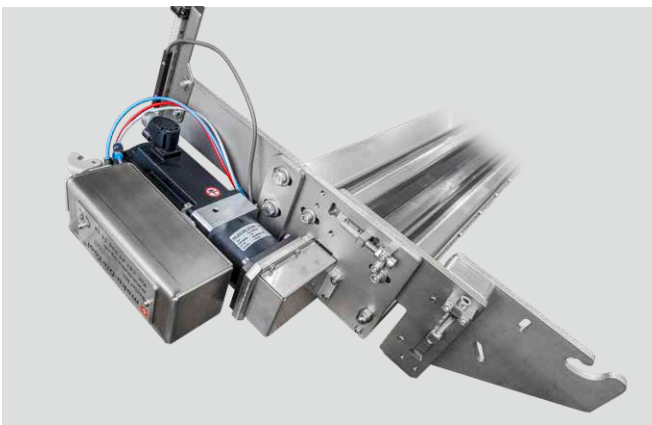
maku-DieTool®-L, die automation with die lip control
maku-DieTool®-R, die automation with restrictor bar control
maku-DieTool®-LR, die automation with die lip and restrictor bar control



maku-DieTool®-L



Linear carriage with integrated drive and actuator



Carriage drive with attached pneumatic box

The **maku-DieTool®** developed in-house stands for the autonomous adjustment of the die lip and/or the restrictor bar and internal deckling on flat dies (if applicable). The patented die lip and restrictor bar adjustment system is suitable for film and sheet extrusion and can be used on any flat die up to 10 meters wide. The customized solution can be used either with or without a gauging system.

- Suitable for extrusion dies for the production of films and sheets
- Adaptable onto extrusion dies up to a width of 10 m
- Adjustment accuracy of $\pm 1^\circ$ angle adjustment
- Die lip adjustment range of 6000 μm
- Die lip profiles can be stored as nominal profiles
- Low energy consumption
- Gauging system compatible

► Characteristics

Thanks to adjustment in a matter of seconds, an even material thickness is ensured. The adjustment of the individual adjusting die bolts can be set and saved with a maximum travel range of 6000 μm . This ensures reproducibility for different products. The product is also available in a semi-automatic mode. The adjusting die bolts are operated via a touchscreen.

► Advantages

- No manual intervention necessary on the extrusion die, presetting and fine adjustments are fully carried out by the **maku-DieTool®**
- Low standard deviation due to high adjustment accuracy
- Fast changeover times due to real-time adjustment and profile presetting
- Cost-effective operation over thermo bolts
- Increased safety for the machine operators