### Basic structure

- Basic frame featuring aluminium profile design, completely covered.
- Height-adjustable positioning feet.
- Sliding window monitored by safety switches.
- Inlet and outlet tunnel as access guard.
- Switching cabinets and operating elements integrated completely in the frame.

Mechanical structure

- Movement of belt units is possible via two methods:
  - Manually via a spindle with a left/right thread to move both transport belts parallel to the centre of the extrusion.
  - The lower belt unit is fastened in the machine frame and the upper belt unit is moved pneumatically. The belt unit features a rotating support to ensure optimal contact with the profile
- Both belt units are separately driven mechanically via one servo motor each with reduction gears.
- The top and bottom segments may be optionally regulated separately in case two frequency converters are used.

Electrical technology

- Operating panel with the following functions:
  - Input haul-off speed/haul-off force.
  - Top belt UP/DOWN.
- Interfaces:
  - External haul-off force regulation.
 - Line emergency stop (on clamps).
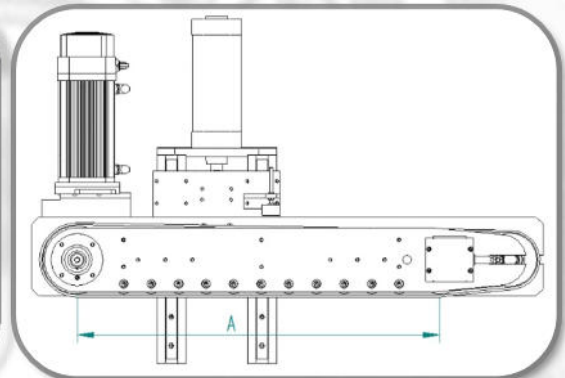
Technical data:

	BAV-05	BAV-10	BAV-15	BAV-25
Haul-off force	5 kN	10 kN	15 kN	25 kN
Material speed	0 – 100 m/min	0 – 50 m/min	0 – 50 m/min	0 – 25 m/min
Belt width	50 - 150 mm	75 - 150 mm	75 - 200 mm	100 - 300 mm
Contact length (A)	600 mm	1050 mm	1500 mm	2300 mm
Pressing force	2000 N	3000 N	5000 N	12000 N

Made in Germany

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Equipment/options/additional equipment:

The following is a selection of different options/additional equipment for this machine:

Poly-V belts (standard)

Poly-V belts are multiple v-belts that are produced in every width. The rear coating may be produced according to the customer's needs and production requirements. A corresponding coating enables high haul-off forces to be implemented via low pressing force. A high number of support rollers transfer the pressing force consistently to the profile.
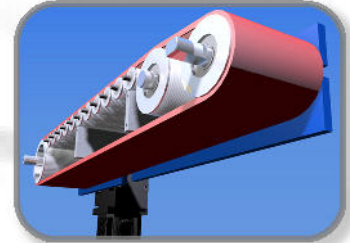

Measuring wheel housing (additional)

Upon request, a measuring wheel housing may be built directly onto the inlet of the caterpillar haul-off unit. This acts as an enclosure for a measuring wheel device for recording the extrusion speed and the length of the traversing profile. Diverse measuring wheel devices are available.
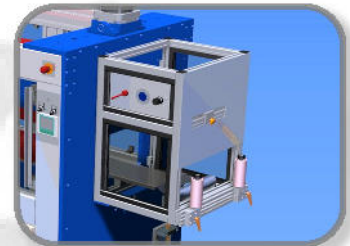

Pneumatic belt tensioning (standard)

The belt units feature basic pneumatic belt tensioning. The tensioning force may be set via a pressure controller. This design enables the belt to be changed quickly.
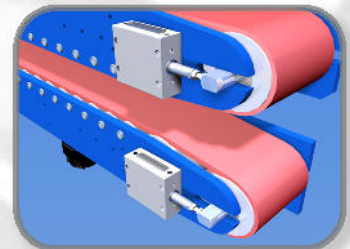

Machine height adjustment (additional)

The standard version of the machine is delivered including regular foot pads and adjusting screws for levelling at the set-up location. Optionally, height adjustment units may be built onto the inlet and outlet sides. Adjustment is possible manually using a hand-wheel/crank or a motor.
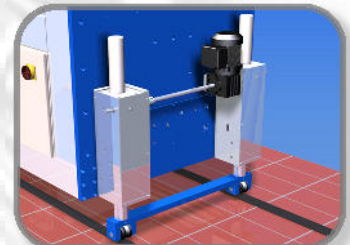
Belt unit adjustable end stop (additional)

The pneumatic counter-pressing system is mainly able to be compensated by the weight of the upper caterpillar unit. However, in case of easily deformed profile geometries, this may not be sufficient. A height-adjustable end stop may also be integrated for this purpose. This is set using a hand-wheel or a motor (upon request) to the desired belt position and functions via the top belt unit moving downward as an end stop.
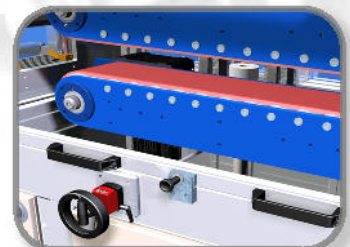
Combination option with other STEIN machines (additional)

The STEIN caterpillar haul-off unit may be combined directly with a STEIN profile guillotine or a STEIN profile foliation unit, 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 line.