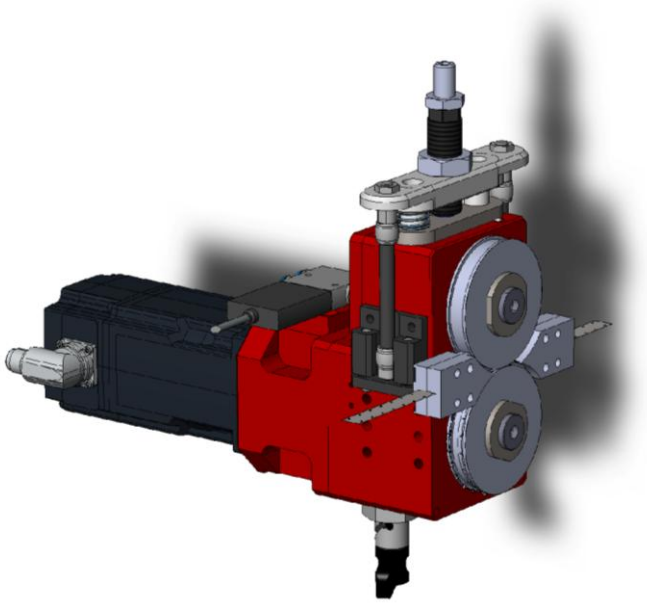
Data Sheet

EX-40S

Pinwheel Feeder



Technical Data:

Feed length:	unlimited
Speed:	depending on belt length/weight, sprocket pitch and diameter
Bandwidths:	<=50mm depending on the shape of the workpiece strip larger bandwidths on request
Band thicknesses:	0.01 to 1mm; Larger strip thicknesses on request
Weight:	Approx .10kg
Servo motor:	Standard Beckhoff; Other manufacturers possible after clarification
Intermediate ventilation:	Electronic ventilation function through torque reduction
Air height:	n.v.
Contact force:	max. 200N, adjustable via spring force from 0N to 200N (contact force only partially relevant for pinwheels)
Price:	Price on request

Areas of application:

- The EX-40S is a pinwheel feeder driven by a servo motor
- The EX-40S can be used as a standalone feeder or in combination with an existing roller or gripper feed (Push/Pull).
- Specifically developed for processing thin strips in series stamping operations, the EX-40S supports strip feeding. Positioned behind the tool, it ensures constant base tension in the strip, significantly increasing process reliability during stamping.
- Use as a feeder is also possible for pre-punched strips
- The EX-40S can be mounted on all common stamping and forming machines.
- It can be used in both pushing and pulling applications.
- Process integration according to customer requirements
  a) as fully integrated application
  b) as integration via an I/O interface or
  c) via I/O interface and external encoder for 100% synchronization.
- Flexible solution with interchangeable pinwheel, available to match application (pitch and diameter of pilot hole).

Options:

- Two pinwheels for double-row pilot holes in the strip
- Pneumatic (intermediate) ventilation (lifting the counter wheel)
- Pinwheel for rectangular pilot holes

Construction

- Mechanical Construction
  - Pinwheel
  - Counter wheel
  - Ventilation (manual lifting of the counter wheel)
  - Strip guide
  - Servo drive

- Electronic Construction
  - Beckhoff servo controller
  - Beckhoff controller.
  - Beckhoff Touch Panel
  - I/O interface
  - STO (Safe Torque Off)

- Optional
  - Absolute encoder for synchronization
  - Safety interface for safely reduced speed

Optional: Independent control cabinet with servo drive control





- Dimensions: 500x500x300mm
- Touchscreen (7”/17.8cm diagonal) for operation and parameter input
- Emergency stop button and main switches
- Connection: 240V / 16A fuse
- Standalone operation or integration into higher-level controls possible
- Signal exchange via bus system, IO signals and/or encoder coupling

- Control cabinets for larger axis counts available on request.