

Toothed belt axis ELGW for machine tools

FESTO



Reliably powerful

Highlights

- Attachment of high loads of up to 410 kg
- Long strokes:
50 – 5700 mm with two slides, 50 – 5300 mm with three slides
- Maximum feed force F_x 2500 N
- Maximum acceleration 6 m/s^2

The extremely robust toothed belt axis ELGW is ideal as a basic axis for use in machine tools where chips and cooling lubricants are present. Reliable and powerful loading and unloading devices can be realised in combination with the vertical axes EGC-120-BS or EGC-185-BS and parallel grippers like HGPT or HGPD.

Industry expertise for a better solution

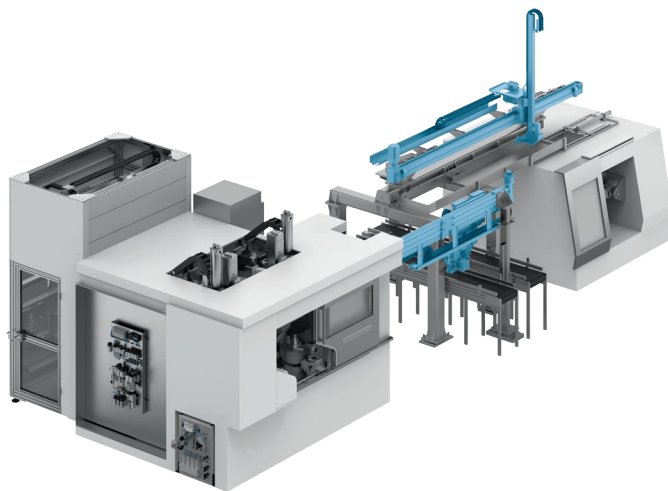
Many years of technical experience with automation solutions for machine tools went into the development of the ELGW. The axis is designed for movements involving high forces and long travel distances, as well as challenging operating conditions due to the presence of chips and coolants.

Clean design for high process reliability

The design of the rigid aluminium profile is optimised for the specific requirements of the working space in machine tools – smooth, with no slots and with bevelled surfaces. It also features details like drainage openings, a drip edge and bearing cartridges with integrated wiper seals for chips.

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Reliable loading and unloading despite chips and coolants



Partially integrated handling system for loading applications:

The carriages travel into the working space of the machine tool. As a result, part of the toothed belt axis is repeatedly exposed to cooling lubricants and chips.

Main features of the ELGW

