



DIXON AUTOMATIC TOOL, INC.

Products for Automated Assembly

DGS

Automatic Feeding and Insertion of Coil Thread Insert

Mfr. Stöger Automation

*Sales Representative in
USA, Canada and Mexico
For 24 years*

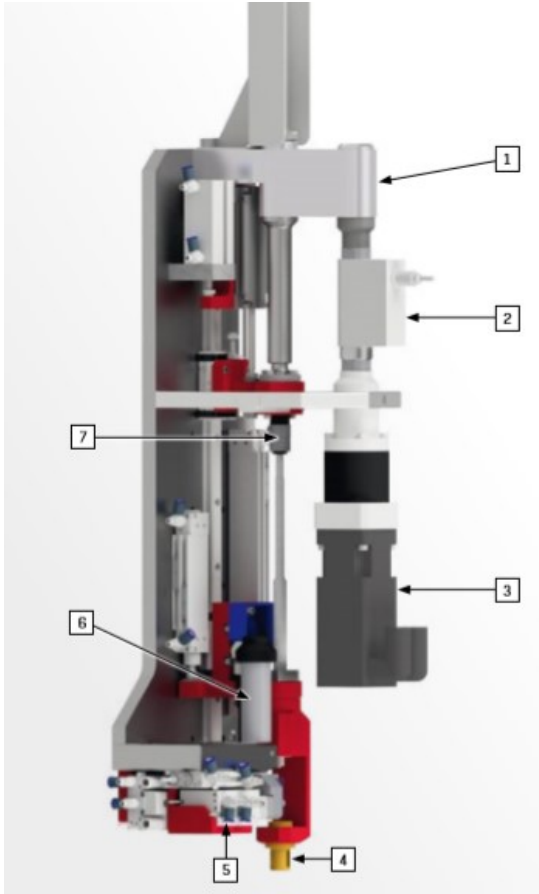
Based on a proven series of automatic screwdriving systems from Stöger Automation, an automatic screwdriver has been developed to feed and drive coil thread inserts automatically as bulk material. Designed especially for serial production, it's used wherever high cycle times and process reliability are needed. The integrated over stroke also enables driving into hard-to-reach screw locations with interfering edges. Fasteners are fed through a flexible hose, thus magazines or strips are not needed. This enables the screwdriving unit to be operated in locations that are difficult to reach, as well. Plus, feeding the coil thread inserts as bulk material significantly reduces costs. The DGS also offers the advantage of being able to process coil thread inserts independent of position, and it can be used in robotic systems and on positioning axes, too.



THE ADVANTAGES AT A GLANCE:

- ◆ Developed for serial production
- ◆ High cycle times possible
- ◆ Integrated over stroke for driving into screw locations with interfering edges
- ◆ Highly reliable by monitoring torque, torque angle and screwdriving depth
- ◆ Automatic feed of fastening elements is low-cost as bulk material
- ◆ Easy maintenance due to quick couplings for tool change
- ◆ Integrated system: Screwdriver with automatic feed unit and controller.

Modules



1. Toothed belt drive
2. Torque transducer
3. Servo motor
4. Support for level-based fastening
5. Loading device with clamp jaws
6. Hose connection
7. Quick fastener

Dimensions and weight

Length	approx. 800mm
Width	200mm
Depth	220mm
Weight	15kg

Example of a feeding unit



Types



- With conical tip
- Sizes M4-M14
- Further sizes on demand



- Without pin and two conical tips
- Sizes M4-M14
- Further sizes on demand



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