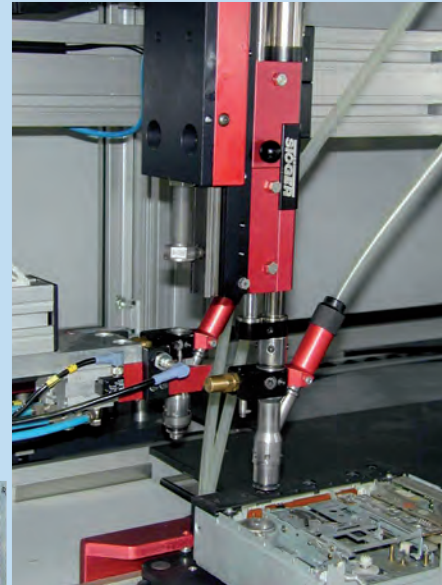


SES Screwdrivers in use

Assembly of
radio housings



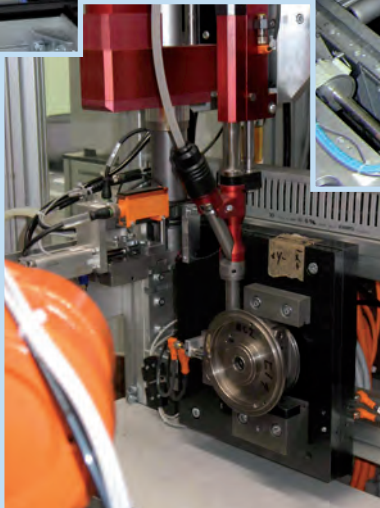
Fitting circuit boards
to sensor housing



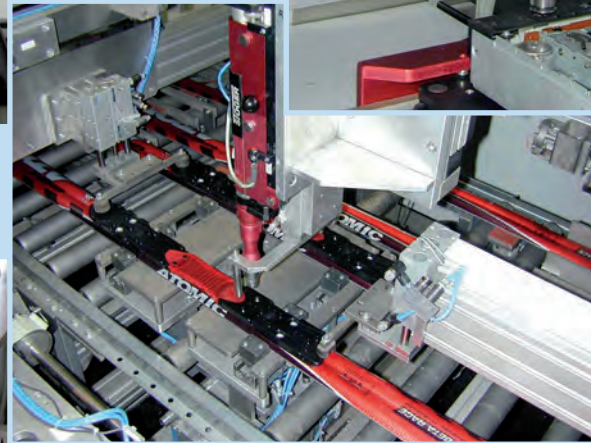
Assembling
electric motors



Fitting studs to a
turbo-charger housing



Inserting thread-forming screws
into ski binding platforms



TOP 100
We are among the
100 most innovative
companies in Germany !



Lorenz Stöger being presented with
the award by Lothar Späth

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YOUR ADVANTAGE

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01.05.14

STÖGER Screw and assembly systems

High capacity Screwdrivers SES series

with automatic screw feeding



STÖGER
*technology put
to your use!*



Project support

We help you plan your project

- Consultation in system decisions per telephone or with a visit
- Price guides for your calculations
- 3D data for your presentation

Investment

Quality consistence that you determine

- The monitoring of the fitting process is your decision - as extensive as necessary, as economical as possible.

You decide the package

- A ready-to-use system with extensive STÖGER guarantee
- STÖGER components for integration in your system

Cycle times / Operating costs

Automatic feeding

- Fully automatic operation - lower operating costs
- Semi-automatic operation - the operator can carry out preparation work during running. Doubling of output is possible.

Applications

for automated assembly

- Manual work stations
- Transfer lines
- Rotary table machines
- Positioning systems (XYZ axes)
- Robots

Advantages

Slim design -
In many assembly lines an increasing number of functions need to be integrated in a minimum of space. The slim spindle design is therefore ideal for multi-spindle set-ups or solutions combining various operations.



4-spindle screwdriver station

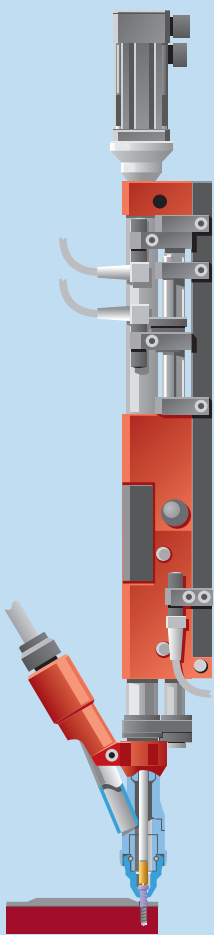
Integrated stroke movement and low weight -

- The motor stays in its position during the screw driving cycle and thus prevents additional wear
- The sensitive sensor systems are also stationary, thus increasing reliability
- The masses moved are small, making this screwdriver highly suited for fast running, high performance systems, capable of up to 80 screw driving cycles per minute.

Function



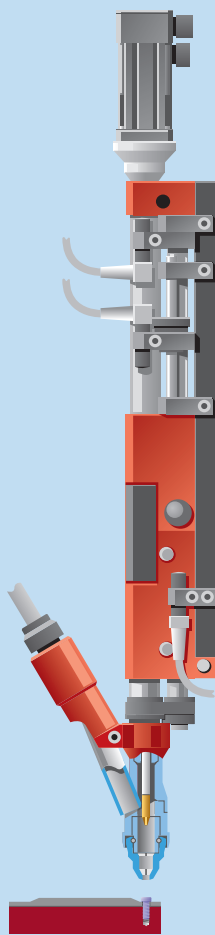
Start position



Screwdriver head positions screw



Screw is fitted



Screwdriver head returns to start position

Further advantages

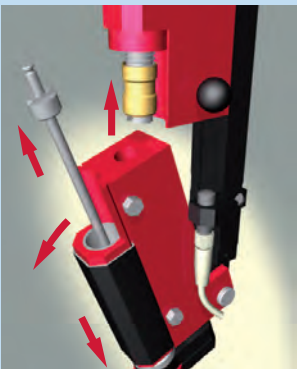
- Tool/bit advance adjustable
- Screw head rotatable through 200°
- High pressure, e.g. for threaded inserts
- Automatic screw rejection when screw operation faulty
- Precise screw guidance

Easy servicing

- Feed arm removable without tools, (eg. for curing faulty function)
- Easy adjustment of depth sensor with knurled wheel

• **Tool bit change** in 10

- 1 Slide safety cover down
- 2 Undo quick-release
- 3 Tilt delivery unit outwards
- 4 Change tool bit

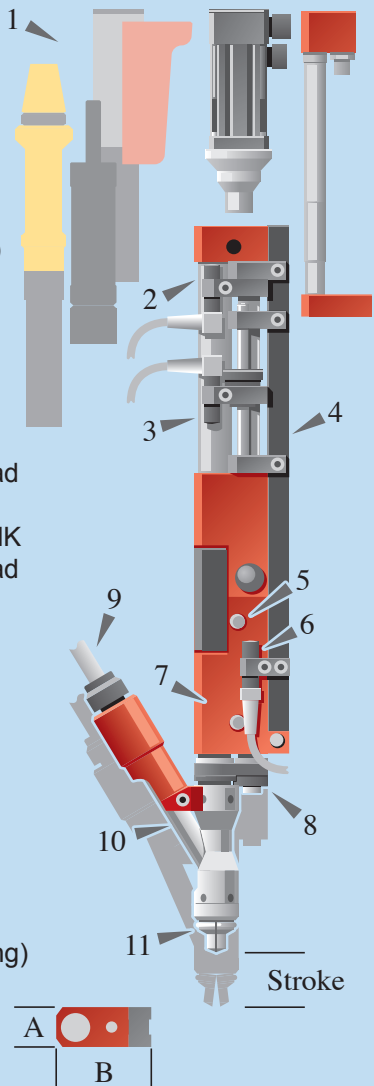


Control functions

- Torque/torque angle
- Screwdriving depth
- Screwdriving cycle OK/Not OK
- Screw loading control
- Special requirements

Layout

- 1 Motor - electric pneumatic or customer's choice
- 2 Return indicator RMS (start position)
- 3 Depth control TOE
- 4 Mounting face
- 5 Stroke adjustment for screwdriving head
- 6 Return indicator RMK for screwdriving head
- 7 Tilting delivery unit for tool bit change
- 8 Screwdriving head, rotatable
- 9 Screw feed tube
- 10 Feed arm, rotatable
- 11 Collet jaws (centering)



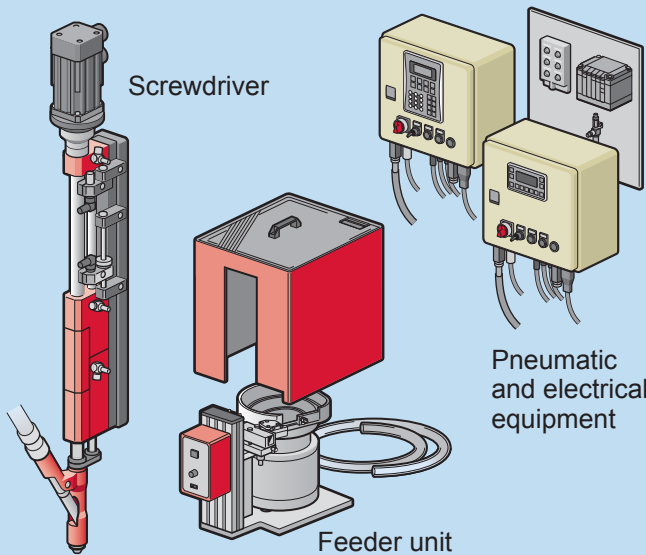
Technical Data	SES 1601	SES 2001	SES 2501	SES 3201
Screw head dia. max. (mm)	7	11	15	24
Torque (Nm)	0,03 - 1,6	0,2 - 4,5	0,5 - 12	1,0 - 45
Stroke (mm)	15/30	25/50	35/70	50/100
A (mm)	25	30	35	43
B (mm)	42	58	68	66

Selection of screw types



Package

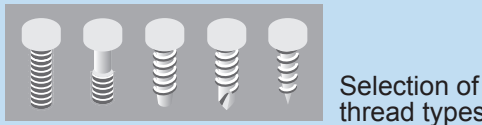
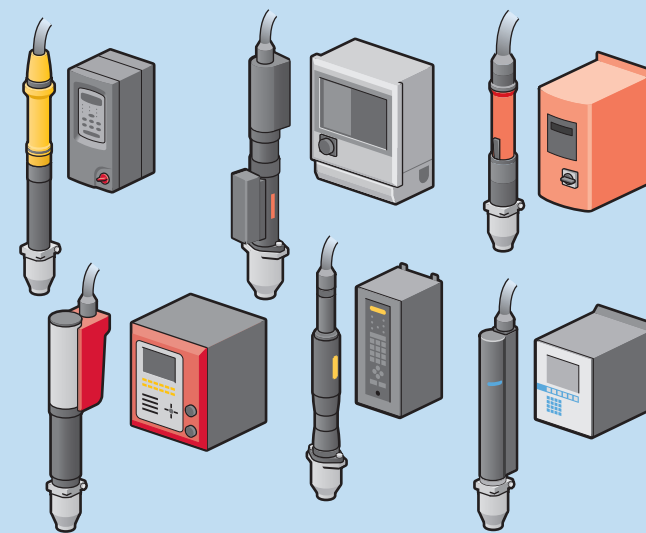
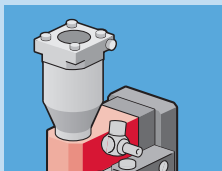
- Supplied also as separate components



Free choice of drive

- In addition to the STÖGER pneumatic and electric range, our premium screwdrivers are designed to enable adaptation to other motors. This enables integration of your or your customers preferred unit.
- Adaption is carried out by STÖGER
- It is normally possible to continue use of the system presently in service.

Motor adapter



Selection of thread types