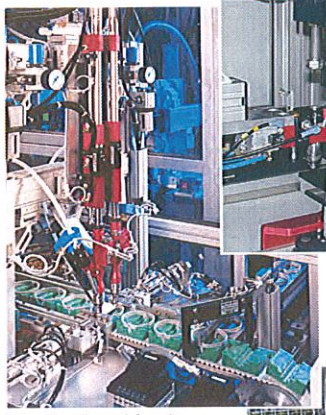
STÖGER
Screwdrivers in use

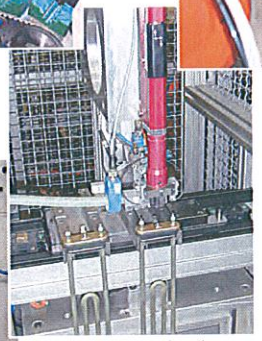
Assembly of radio housings



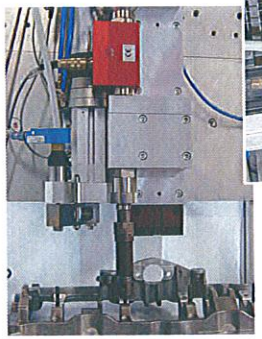
Inserting thread-forming screws into plastic rings for the electro-industry

Robot-mounted screw-driver for fitting hinges in the furniture industry

Fitting studs to a turbo-charger housing

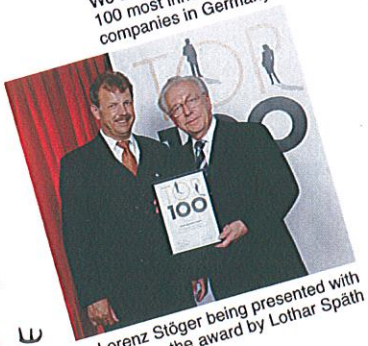


Fitting nuts to heating elements for water boilers



Fitting studs to cylinder heads in the automobile industry

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



Lorenz Stöger being presented with the award by Lothar Späth

STÖGER AUTOMATION

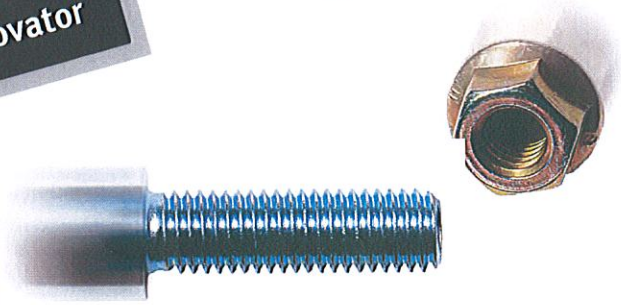
STÖGER AUTOMATION GmbH · Gewerbering am Brand 1 · D-82549 Königsdorf
☎ +49(0)8179/99767-0 +49(0)8179/99767-50 **eMail** info@stoeger.com **Internet** www.stoeger.com

01.05.14

TOP 100 2006 Top-Innovator

Stationary screwdrivers-compact

Automatic screw and assembly systems from STÖGER

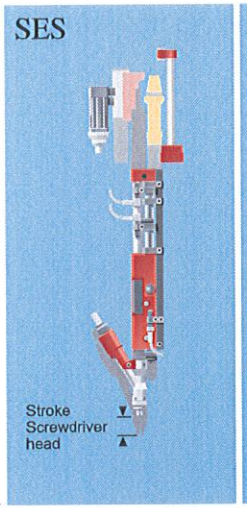


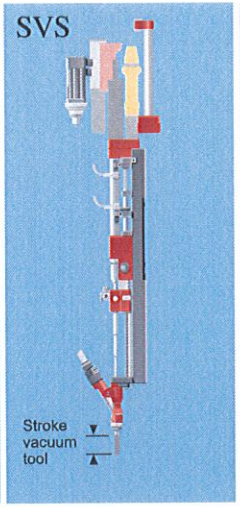
STÖGER AUTOMATION

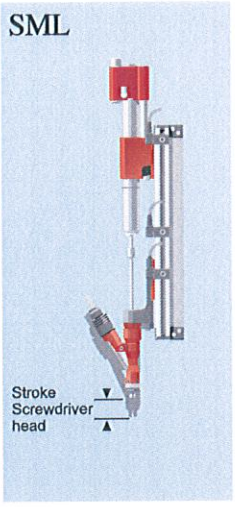
Screwdriver units

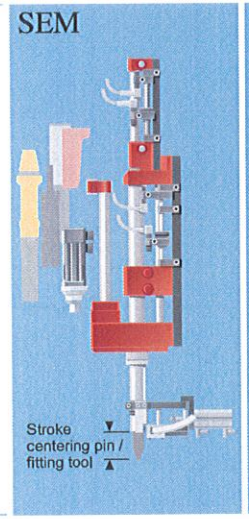
Premium

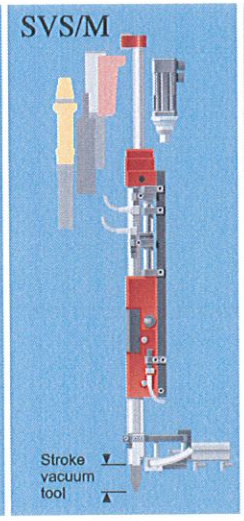
Economy

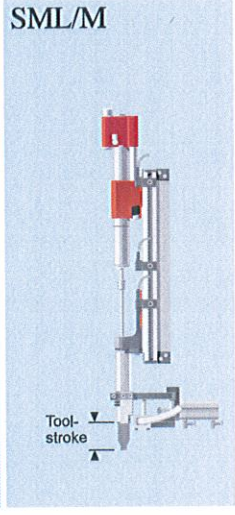








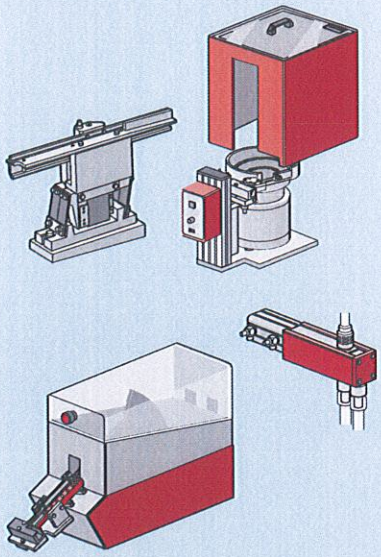




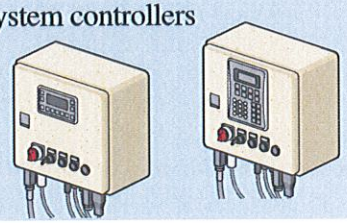
Pneumatic motor	•	•	•
EC-motor	•	•	•
EC motor with transducer	•	•	
Free choice of drive system (on consultation)	•	•	
Vacuum tool		•	

Feeding, controlling and accessories

Feeding units

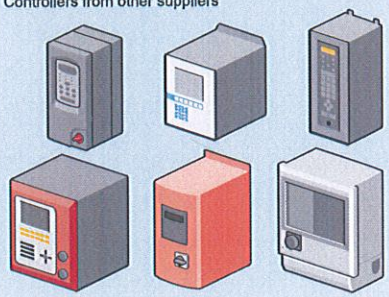


System controllers

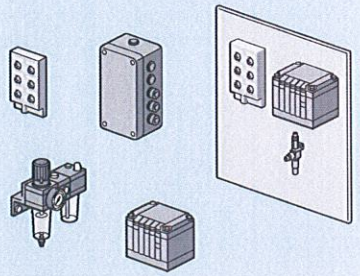


Drive controllers

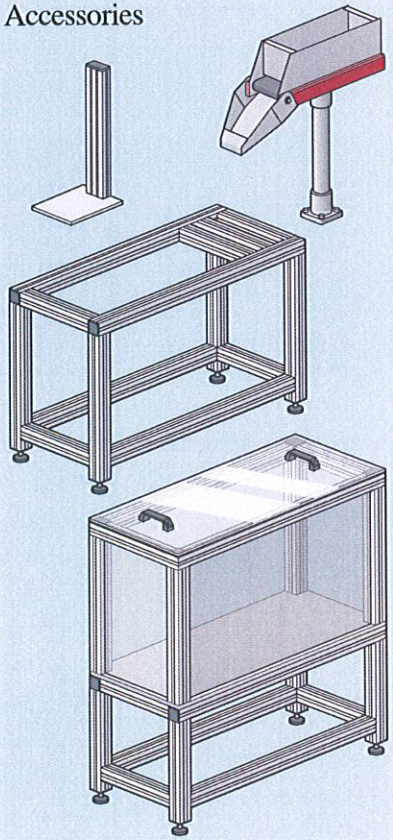
Controllers from other suppliers



Electro-pneumatic equipment



Accessories

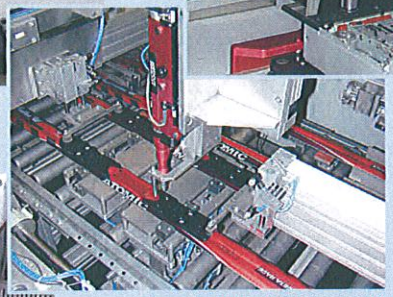


SES Screwdrivers in use

Assembly of radio housings

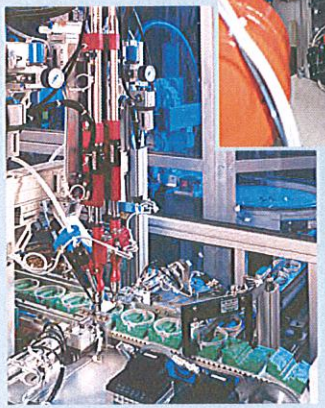
Fitting circuit boards to sensor housing

Assembling electric motors



Inserting thread-forming screws into ski binding platforms

Fitting studs to a turbo-charger housing



Inserting thread-forming screws into plastic rings for the electro-industry

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

Lorenz Stöger being presented with the award by Lothar Späth

OUR TURN YOUR ADVANTAGE

STÖGER AUTOMATION

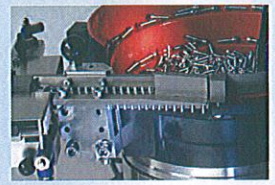
STÖGER AUTOMATION GmbH · Gewerbering am Brand 1 · D-82549 Königsdorf
☎ +49(0)8179/99767-0 +49(0)8179/99767-50 **eMail** info@stoeger.com **Internet** www.stoeger.com

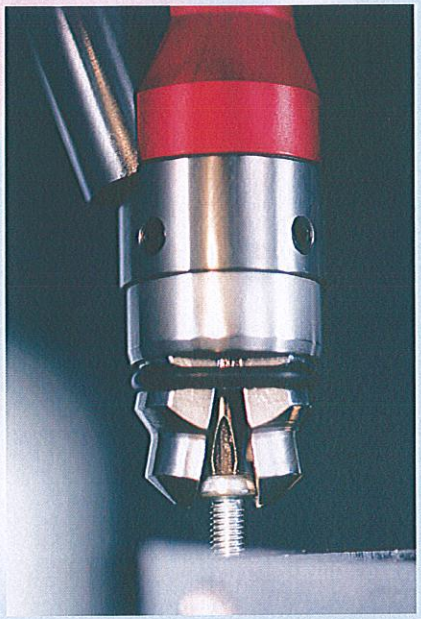
01.05.14

STÖGER Screw and assembly systems

High capacity Screwdrivers SES series

with automatic screw feeding





STÖGER technology put to your use!

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

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

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.

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

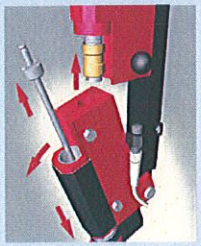
- Feed arm removable without tools, (eg. for curing faulty function)
- Easy adjustment of depth sensor with knurled wheel
- ***Tool bit change*** in 10

1 Slide safety cover down

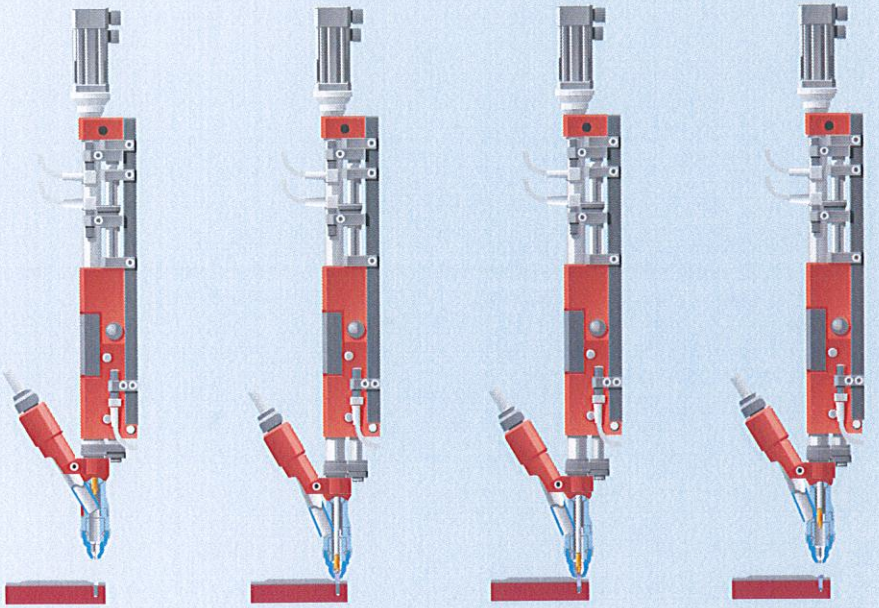
2 Undo quick-release

3 Tilt delivery unit outwards

4 Change tool bit



Function



Start position

Screwdriver head positions screw

Screw is fitted

Screwdriver head returns to start position

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

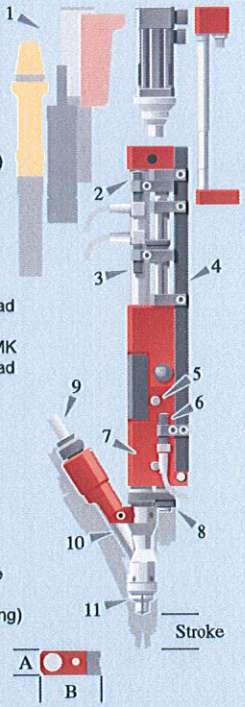
7 Tilting delivery unit for tool bit change

8 Screwdriving head, rotatable

9 Screw feed tube

10 Feed arm, rotatable

11 Collet jaws (centering)

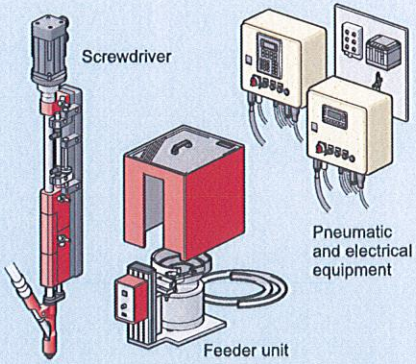


Technical Data	SES 1601	SES 2001	SES 2501	SES 3201
Screw head dia. max. (mm)	7	11	15	24
Torque (Nm)	0,03 -1,6	0,2 - 4,5	0,5 -12	1,0 -45
Stroke (mm)	15/30	25/50	35/70	50/100
A (mm)	25	30	35	43
B (mm)	42	58	68	66

Selection of screw types

Package

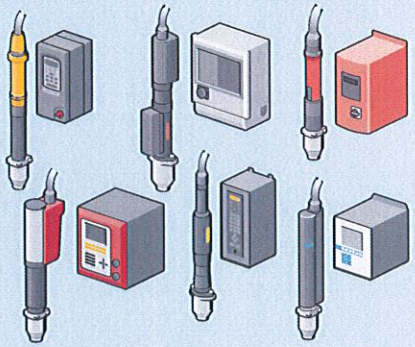
- Supplied also as separate components



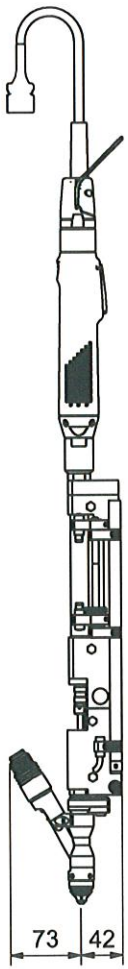
Free choice of drive

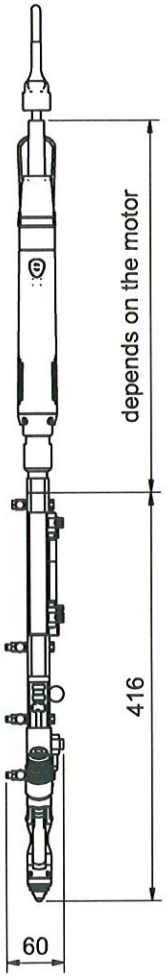
- In addition to the STÖGER pneumatic and electric range, our premium screwdrivers are designed to enable adaptation to other motors. This enables integration of your or your customers preferred unit.
- Adaption is carried out by STÖGER
- It is normally possible to continue use of the system presently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

Motor adapter



Selection of thread types





Die angegebenen Maße sind nur beispielhaft
und können je nach Anwendungsfall abweichen!

The given measurements are exemplary only
and may vary from case to case.

Gewicht der Schraubeinheit ohne Motor 1,6 kg
Weight from the Screwdriver without motor

Zust.	Änderungen	Datum	Name

	Freimaßtoleranz DIN ISO 2768 fein	Oberfläche DIN ISO 1302
	Datum	Name
Bearb.	14.01.2014	JS
Gepr.		
Norm		

Klassifizierung

Maßstab

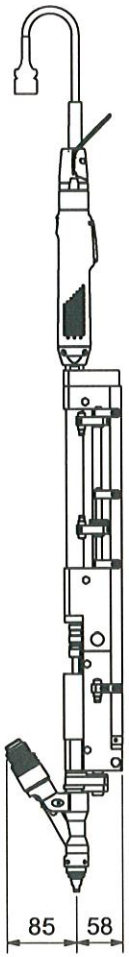
Werkstoff:

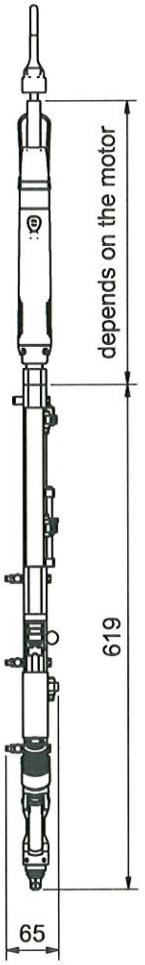
Rohabmessung:

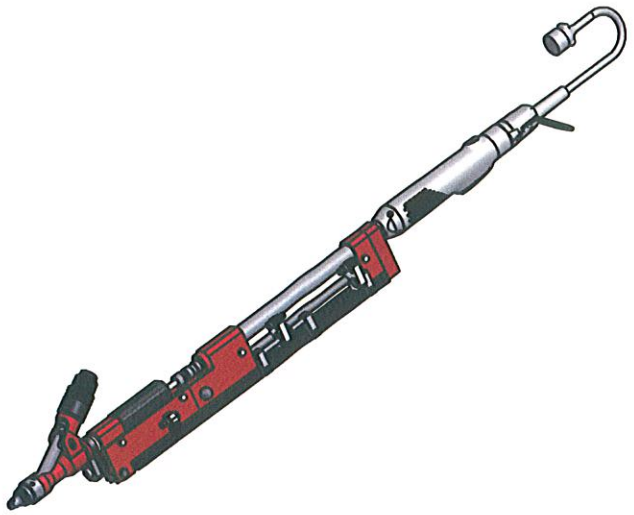
SIÖGER AUTOMATION

Schraubeinheit
SES 1601 - 2010

1
A3







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Gewicht der Schraubeinheit ohne Motor 3 kg
Weight from the Screwdriver without motor

Zust.	Änderungen	Datum	Name

	Datum	Name
Bearb.	15.01.2014	JS
Gepr.		
Norm		

Freimaßtoleranz DIN ISO 2768 fein

Oberfläche DIN ISO 1302

Klassifizierung

Maßstab

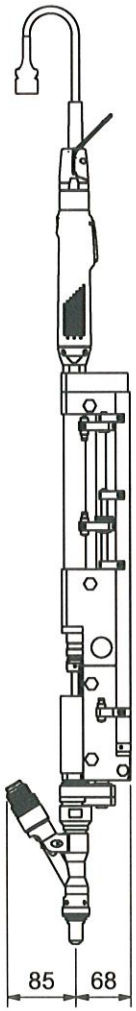
Werkstoff:

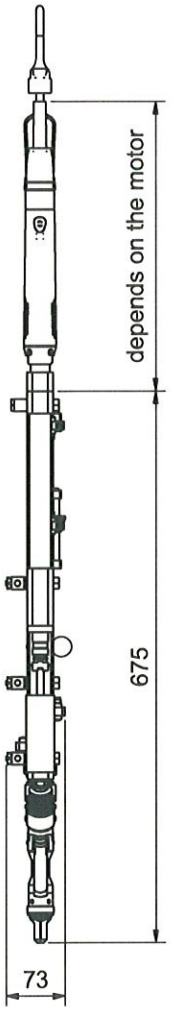
Rohabmessung:

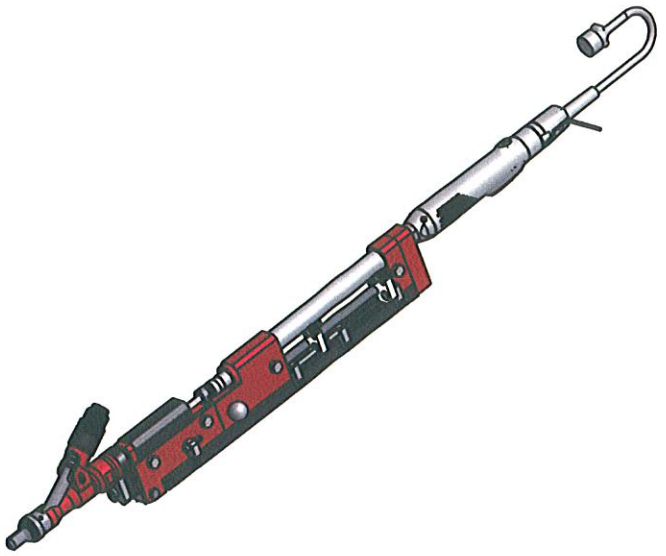
SIOGER AUTOMATION

Schraubeinheit
SES 2001 2026

1
A3







Die angegebenen Maße sind nur beispielhaft
und können je nach Anwendungsfall abweichen!

The given measurements are exemplary only
and may vary from case to case.

Gewicht der Schraubeinheit ohne Motor 5,6 kg
Weight from the Screwdriver without motor

Freimaßtoleranz	Oberfläche	Klassifizierung
DIN ISO 2768 fein	DIN ISO 1302	Maßstab
		Werkstoff:
		Rohabmessung:

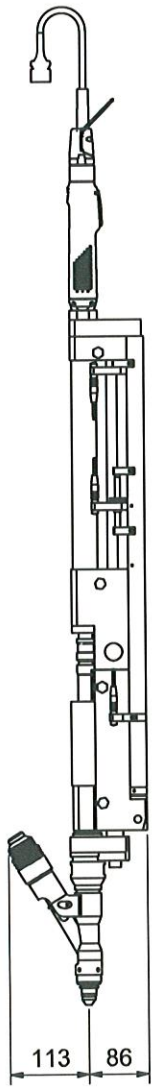
	Datum	Name
Bearb.	15.01.2014	JS
Gepr.		
Norm		

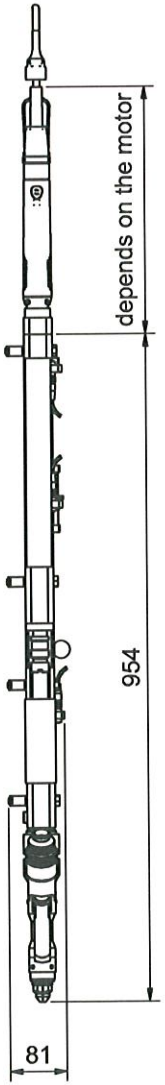
Zust.	Änderungen	Datum	Name

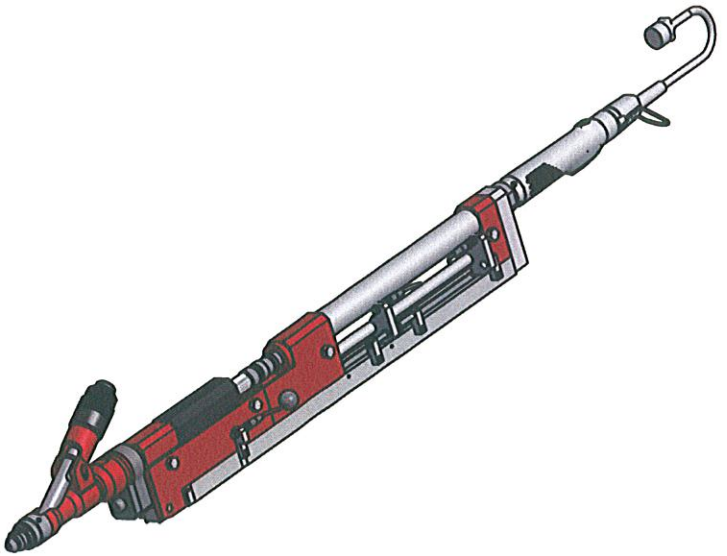
SLÖGER AUTOMATION

Schraubeinheit
SES 2501 2030

1
A3







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Gewicht der Schraubeinheit ohne Motor 6 kg
Weight from the Screwdriver without motor

Zust.	Änderungen	Datum	Name

	Datum	Name
Bearb.	15.01.2014	JS
Gepr.		
Norm		

Freimaßtoleranz DIN ISO 2768 fein

Oberfläche DIN ISO 1302

Klassifizierung

Maßstab

Werkstoff:

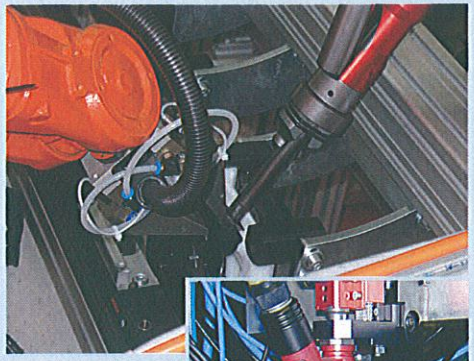
Rohabmessung:

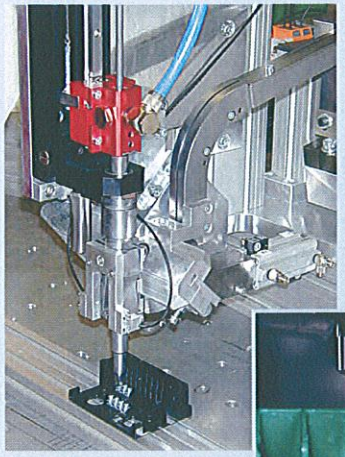
SLÖGER AUTOMATION

Schraubeinheit SES 3201

1 A3

Vacuum-screwdriver in robot cabin





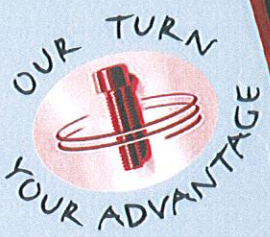
Screwdriver with feeder track for cable clamp screws or heavy-headed screws

Vacuum-screwdriver fitting housing cover

Vacuum-screwdrivers used horizontally with 180° gearboxes

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

Lorenz Stöger being presented with the award by Lothar Späth



STÖGER AUTOMATION

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01.05.14

STÖGER Screw and assembly systems

High-capacity Vacuum-screwdriver units SVS-Series

Where access is poor!

STÖGER technology put to your use!

Selection of screw types (see also SES Series)

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.

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

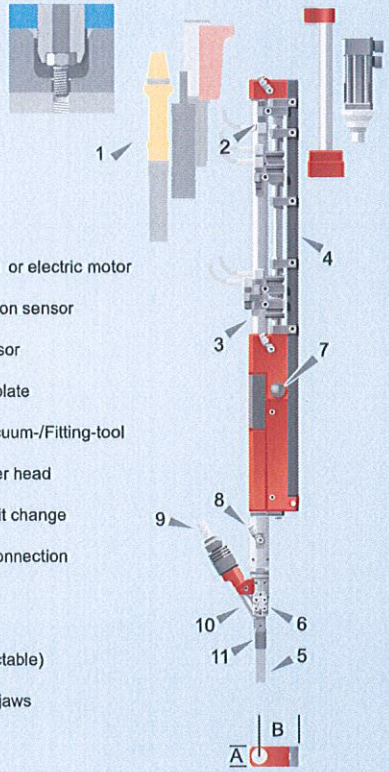
Quality consistence that you determine

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

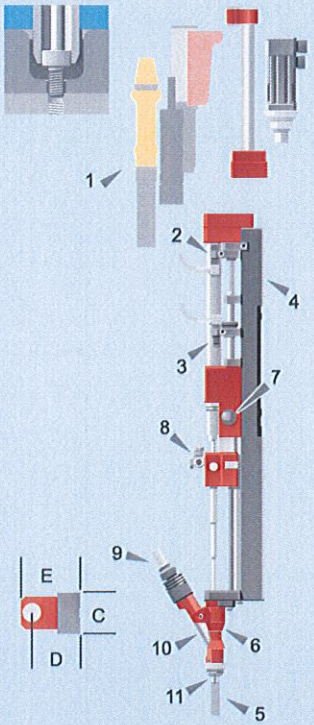
You decide the package

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

Tool fitting over screw



Tool fitting inside screw



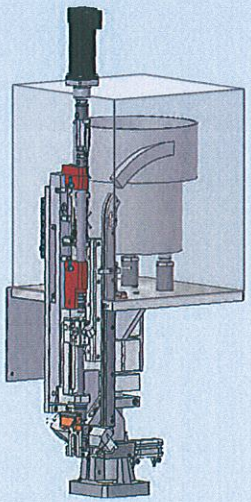
Layout

1 Pneumatic or electric motor
2 Start position sensor
3 Depth sensor
4 Mounting plate
5 Stroke Vacuum-/Fitting-tool
6 Screwdriver head
7 Knob for bit change
8 Vacuum-connection
9 Feed tube
10 Feed arm (disconnectable)
11 Centering jaws

Technical data	SVS 2001	SVS 2501	SVS 3201
Ø Screw head max. (mm)	10	14	23
Torque (Nm)	0,2 - 4,5	0,5 -12	1,0 - 45
A (mm)	30	35	43
B (mm)	58	68	86
C (mm)	56	62	72
D (mm)	80	95	110
E (mm)	93,5	111	130

Control functions

- Torque
- Screwdriving depth
- Start position
- Screw loading control
- Special requirements



Optional version with rail feeder for heavy-headed screws

Easy servicing

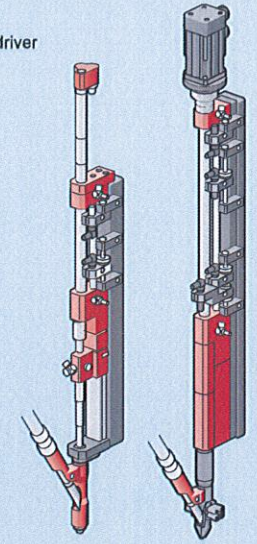
- Tool-bit change in 15 seconds without tools or dismantling
- Feed arm can be disconnected (without tools), important when avoiding interference with cold formed screws
- Change does not require space between tool and workpiece

Tool change

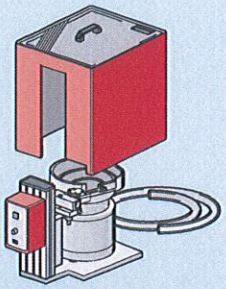
Package

- Supplied also as separate components

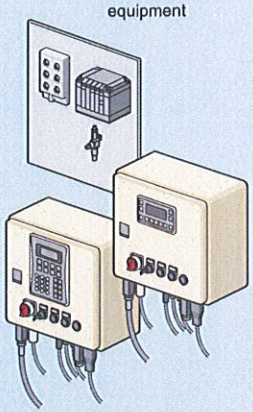
Nutdriver



Feeder unit

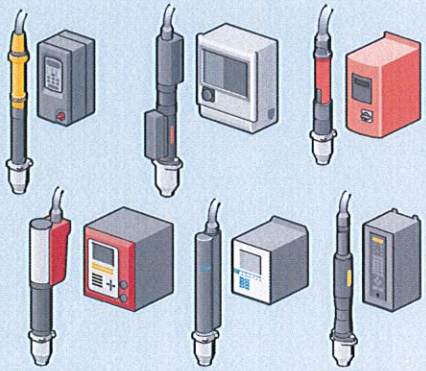


Pneumatic and electrical equipment

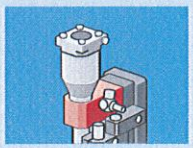


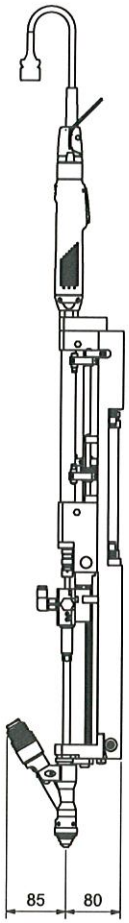
Free choice of drive

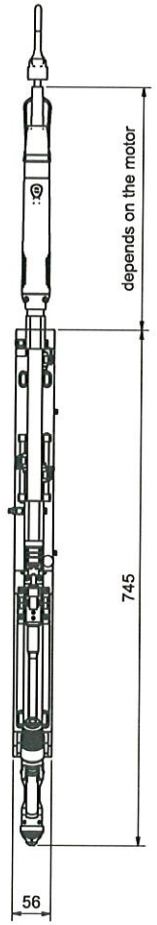
- In addition to the STÖGER pneumatic and electric range, our premium screwdrivers are designed to enable adaptation to other motors. This enables integration of your or your customers preferred unit.
- Adaption is carried out by STÖGER
- It is normally possible to continue use of the system presently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

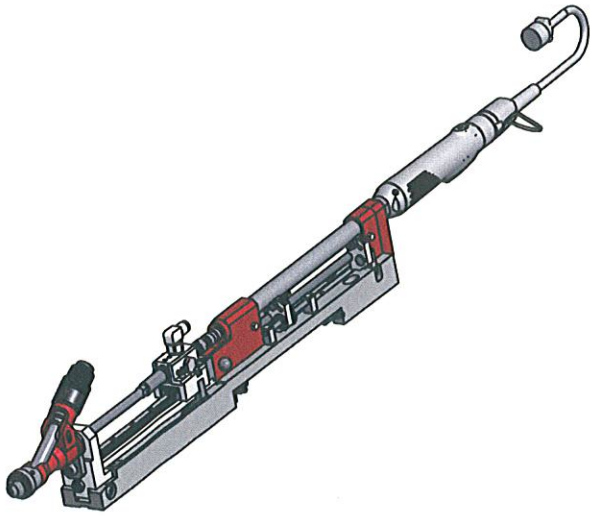


Motor adapter









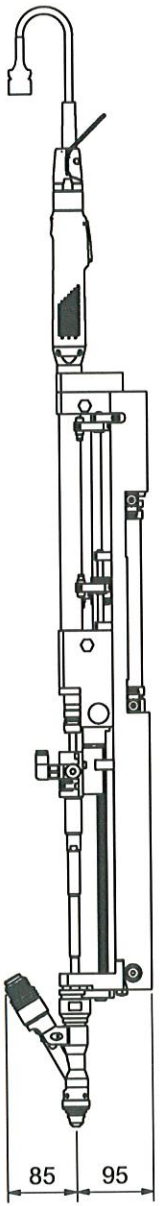
Die angegebenen Maße sind nur beispielhaft
und können je nach Anwendungsfall abweichen!

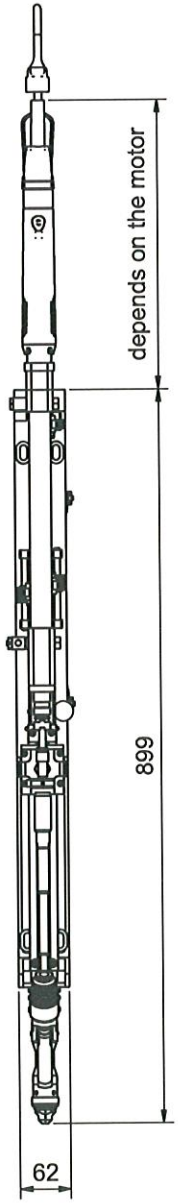
The given measurements are exemplary only
and may vary from case to case.

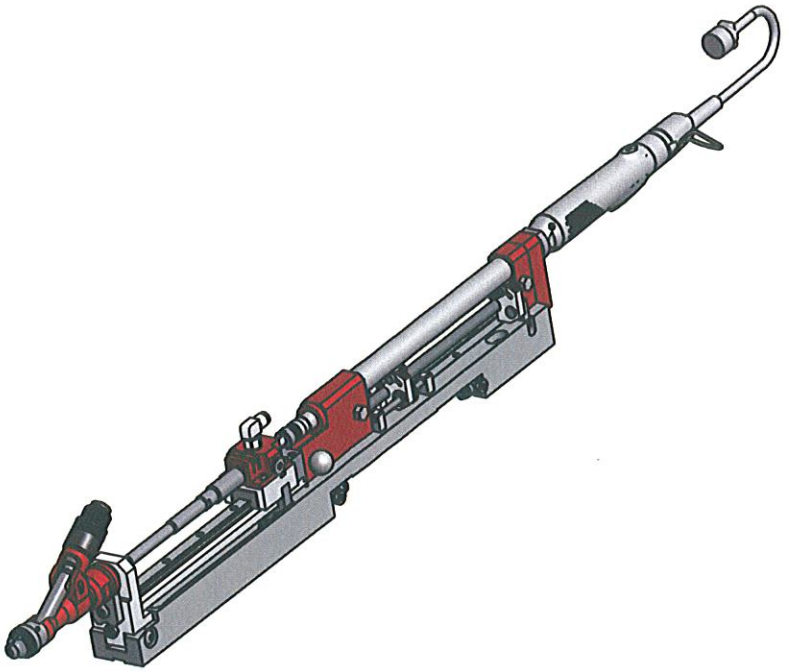
Gewicht der Schraubeinheit ohne Motor 7,2 kg
Weight from the Screwdriver without motor

Freimaßtoleranz DIN ISO 2768 fein	Oberfläche DIN ISO 1302	Maßstab			
		Werkstoff:			
		Rohabmessung:			
	Datum	Name	Saug-Schraubeinheit SVS 2001		
Bearb.	15.01.2014	JS			
Gepr.					
Norm					
SLÖGER AUTOMATION				1	A2

Zust.	Änderungen	Datum	Name







Die angegebenen Maße sind nur beispielhaft
und können je nach Anwendungsfall abweichen!

The given measurements are exemplary only
and may vary from case to case.

Gewicht der Schraubeinheit ohne Motor 8 kg
Weight from the Screwdriver without motor

Freimaßtoleranz DIN ISO 2768 fein	Oberfläche DIN ISO 1302	Klassifizierung
		Maßstab
		Werkstoff:
		Rohabmessung:

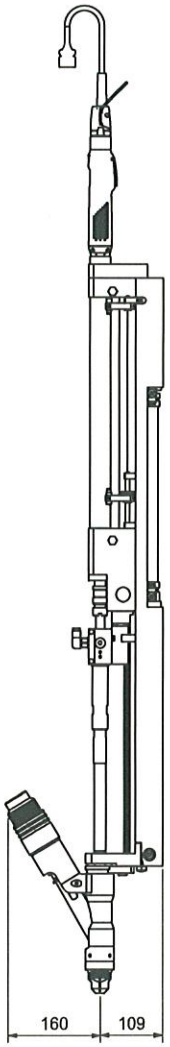
Zust.	Änderungen	Datum	Name

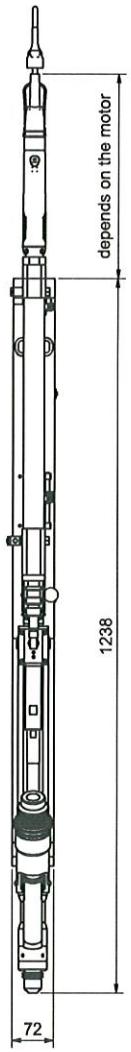
	Datum	Name
Bearb.	15.01.2014	JS
Gepr.		
Norm		

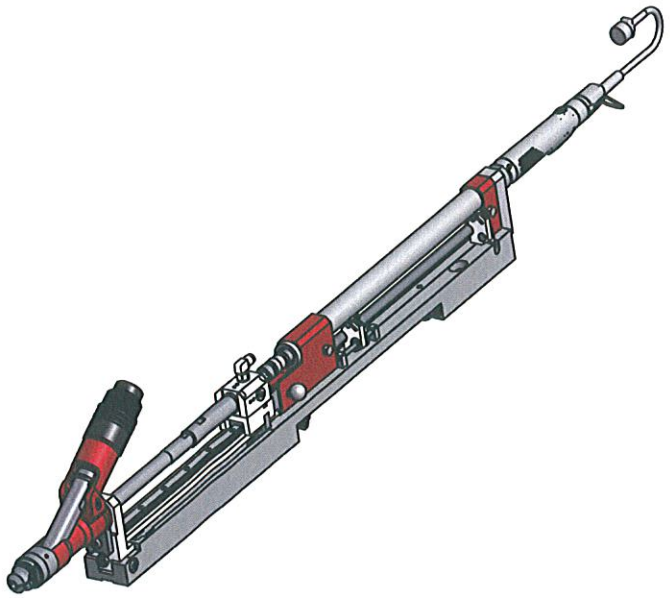
SÖGER AUTOMATION

Saugschraubeinheit SVS 2501

1 A3





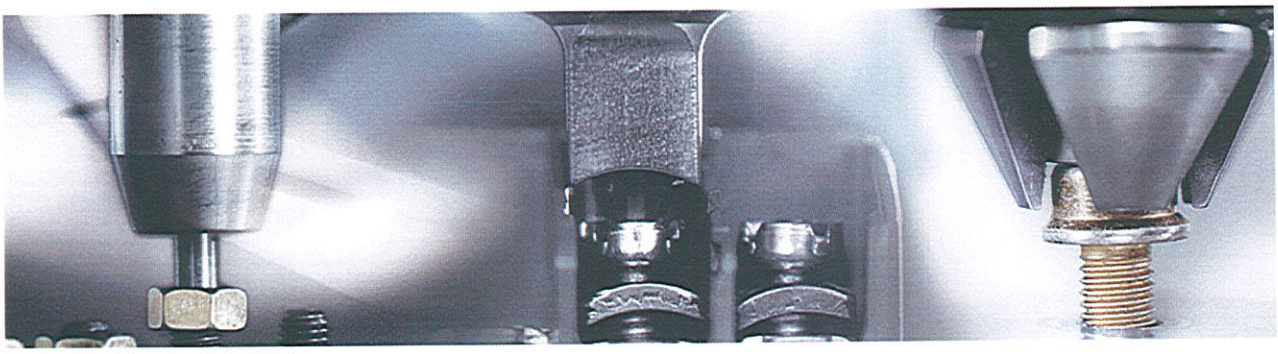


Die angegebenen Maße sind nur beispielhaft
und können je nach Anwendungsfall abweichen!

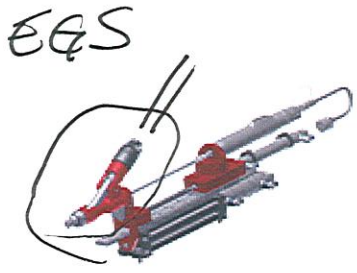
The given measurements are exemplary only
and may vary from case to case.

Gewicht der Schraubeinheit ohne Motor 17 kg
Weight from the Screwdriver without motor

Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz.				Freimaßtoleranz DIN ISO 2768 fein		Oberfläche DIN ISO 1302	Klassifizierung Maßstab Werkstoff: Rohabmessung:
					Datum	Name	
				Bearb.	15.01.2014	JS	Saugschraubeinheit SVS 3201
				Gepr.			
				Norm			
Zust.	Änderungen	Datum	Name	SÖGER AUTOMATION			1 A2



Product overview: Automatic screwdrivers for screws



Automatic screwdriver for screws (SEL 20)

- integrated head stroke
- high torques possible due to special design
- range of torque from approx. 0.5 - 20 Nm
- cycle times starting at 1.5 sec.

2D-Drawing_SEL20.pdf (269.2 kB)

3D-Step_file_SEL20.zip (2.5 MB)

3D-Viewer_SEL20.zip (3.3 MB)

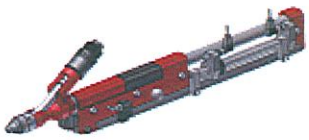
Automatic screwdriver for screws (SEL 100)

- integrated head stroke
- high torques possible due to special design
- range of torque from approx. 5 - 100 Nm
- cycle times starting at 1.5 sec.

2D-Drawing_SEL100.pdf (269.2 kB)

3D-Step_file_SEL100.zip (2.4 MB)

3D-Viewer_SEL100.zip (3.5 MB)



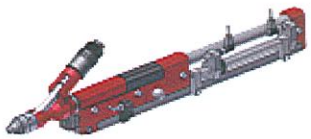
Automatic screwdriver for screws (SES 1601) SD-2010

- integrated head stroke
- high torques of approx. 0.8 sec due to superior design based on minimal movement of masses
- range of torque from 0.03 - 1.6 Nm
- bit change without tool
- particularly slim design

2D-Drawing_SES1601.pdf (197.2 kB)

3D-Step_file_SES1601.zip (1.9 MB)

3D-Viewer_SES1601.zip (2.6 MB)



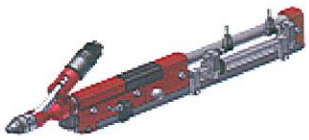
Automatic screwdriver for screws (SES 2001) SD-2020

- integrated head stroke
- high torques of approx. 0.8 sec due to superior design based on minimal movement of masses
- range of torque from 0.2 - 4.5 Nm
- bit change without tool
- particularly slim design

2D-Drawing_SES2001.pdf (193.0 kB)

3D-Step_file_SES2001.zip (2.1 MB)

3D-Viewer_SES2001.zip (3.1 MB)



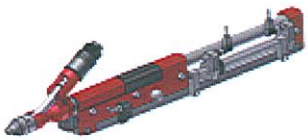
Automatic screwdriver for screws (SES 2501) SD-2030

- integrated head stroke
- high torques of approx. 0.8 sec due to superior design based on minimal movement of masses
- range of torque from 0.5 - 12 Nm
- bit change without tool
- particularly slim design

2D-Drawing_SES2501.pdf (205.8 kB)

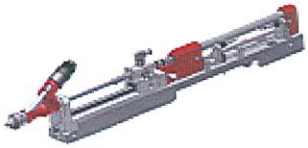
3D-Step_file_SES2501.zip (2.2 MB)

3D-Viewer_SES2501.zip (3.3 MB)



Automatic screwdriver for screws (SES 3201) SD-2040

- integrated head stroke
- high torques of approx. 0.8 sec due to superior design based on minimal movement of masses
- range of torque from 1.5 - 40 Nm
- bit change without tool
- particularly slim design



Automatic screwdriver for screws (SEV 2001) [illegible] SD-2020

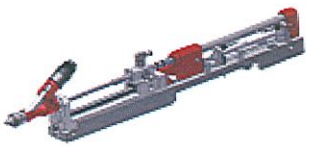
- easy positioning of the screw even where there are obstacles, using vacuum technology
- short cycle times of approx. 2 sec. due to superior design based on minimal movement of masses
- range of torque from 0.2 - 4.5 Nm
- bit change without tool

- particularly slim design

2D-Drawing_SVS2001.pdf (234.9 kB)

3D-Step_file_SVS2001.zip (2.4 MB)

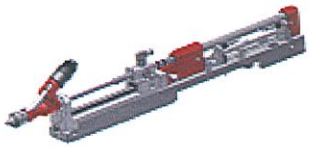
3D-Viewer_SVS2001.zip (3.5 MB)



Automatic screwdriver for screws (SEV 2501)

SD-2030

- easy positioning of the screw even where there are obstacles, using vacuum technology
- short cycle times of approx. 2 sec. due to superior design based on minimal movement of masses
- range of torque from 0.5 -12 Nm
- bit change without tool
- particularly slim design



Automatic screwdriver for screws (SEV 3201)

SD-2040

- easy positioning of the screw even where there are obstacles, using vacuum technology
- short cycle times of approx. 3 sec. due to superior design based on minimal movement of masses
- range of torque from 1 - 45 Nm
- bit change without tool
- particularly slim design

2D-Drawing_SVS3201.pdf (242.4 kB)

3D-Step_file_SVS3201.zip (2.5 MB)

3D-Viewer_SVS3201.zip (4.1 MB)

Automatic screwdriver for screws (SRL 20)

- high torques possible due to special design
- range of torque from 0.5 - 20 Nm

- cycle times approx. 2 - 3 sec.

2D-Drawing_SRL20.pdf (245.1 kB)

3D-Step_file_SRL20.zip (2.2 MB)

3D-Viewer_SRL20.zip (3.0 MB)

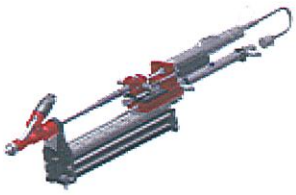
Automatic screwdriver for screws (SRL 100)

- high torques possible due to special design
- range of torque from 0.5 - 100 Nm
- cycle times approx. 2 - 3 sec.

2D-Drawing_SRL100.pdf (232.8 kB)

3D-Step_file_SRL100.zip (2.1 MB)

3D-Viewer_SRL100.zip (3.3 MB)



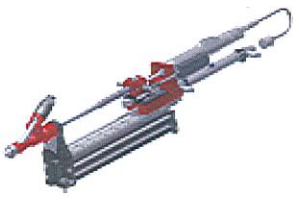
Automatic screwdriver for screws (SVL 20)

- easy positioning of the screw even where there are obstacles, using vacuum technology
- high torques possible due to special design
- range of torque from 0.5 - 20 Nm
- cycle times approx. 2 - 3 sec.

2D-Drawing_SVL20.pdf (232.9 kB)

3D-Step_file_SVL20.zip (2.6 MB)

3D-Viewer_SVL20.zip (3.5 MB)



Automatic screwdriver for screws (SVL 100)

- high torques possible due to special design
- range of torque from 5 - 100 Nm

- cycle times approx. 2 - 3 sec.

2D-Drawing_SVL100.pdf (253.0 kB)

3D-Step_file_SVL100.zip (2.5 MB)

3D-Viewer_SVL100.zip (3.7 MB)

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Configurator

Configure your screwdriving system incl. CAD data and dimensions
Configure now >>

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Glossary

From A to Z: all terms relating to screwdriving technology
Glossary >>

STÖGER AUTOMATION GmbH

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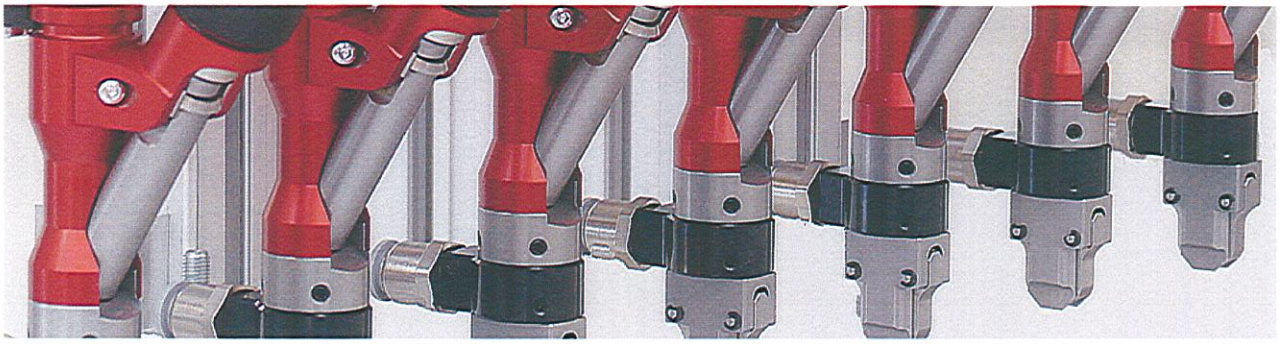


Individual solutions: Automatic screwdriving systems

Assembly automation for series production

STÖGER automatic screwdrivers and feed units with integrated control units provide sophisticated technical features that make them stand out as economic and easy-to-operate tools in the automation sector. Our screwdrivers ensure results that can be documented and thus guarantee high efficiency and serviceability, which makes them highly suitable for a wide variety of possible applications in series production and for customised assembly automation in plant engineering.

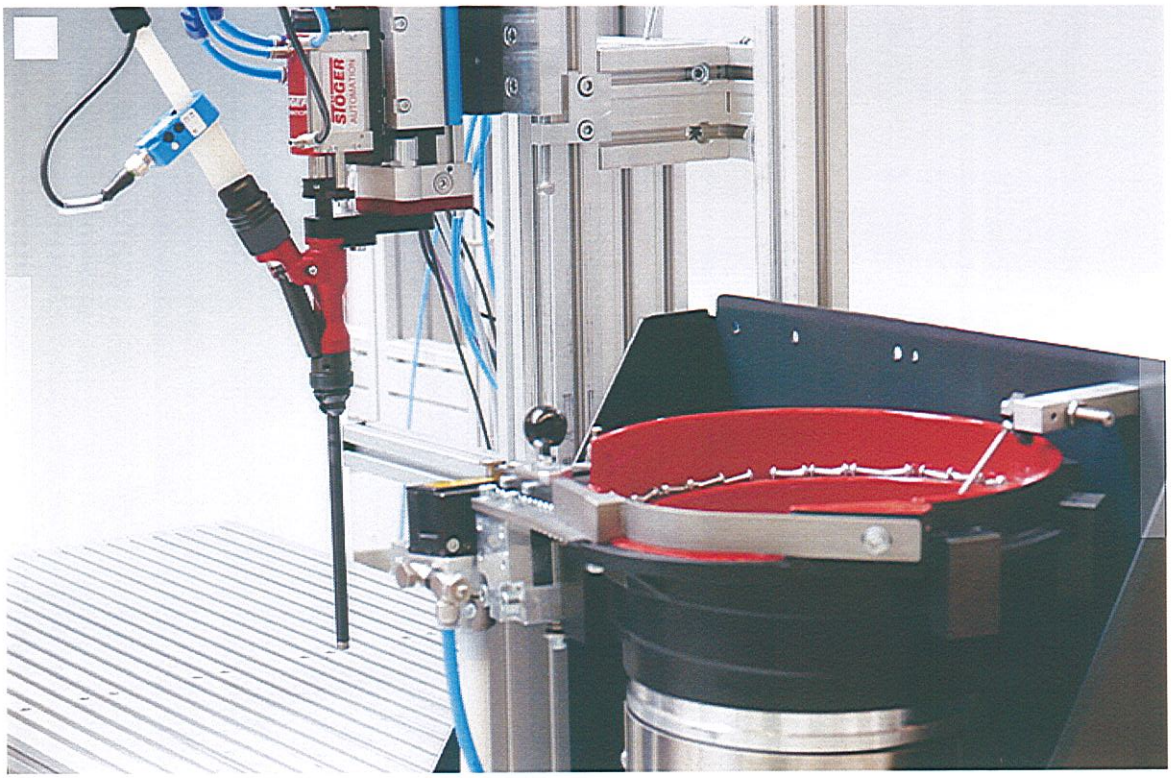
Your advantage:

- short cycle times
- easy to service due to superior design
- reliable even under constant operation in series production processes due to advanced technology

- high availability due to quick tool change
- efficient working due to firmly protruding screw
- careful handling of the work piece and ergonomic operation due to automatic bit stroke
- different drives with or without process analysis possible
- GAP Control measuring tool for checking the screw head contact to work piece surface

Use our **configurator** or talk to one of our staff members to find the best solution for your specific application.

Automatic screwdrivers: Gallery









Schraubablauf Systemschrauber - Screw cycle screwdriver unit