

SA 03/10/30 Spindle Series

with automatic feed



Compact construction
through parallel arrangement of screwdriver and head stroke modules

Quick change of screwdriving head
without tools

Very short time for bit change
without tools, using quick-change lining

Simple mounting and removal of the spindle
with little effort, without special tools, and without needing to readjust

Optimum concentricity
and consequently low moments of friction

Simple attachment of any depth sensors
digital with fine adjustment, or analogue

Low moved mass
through fixed drive modules and transducers, avoids cable rupture

Wide selection of drive concepts
optionally electronically controlled, pneumatic or electric

Plugged spindle modules
with secure, play-free force transmission

Right-hand and left-hand running possible
because there are no threaded connections in the drive train

Further advantages:

- Secure, centred connection to adjacent modules through meshed teeth
- Long tool life through wear-resistant surfaces, even when running dry without oil
- All cable connections are plugged for initiator, electricity and measurement cables
- Screwdriving head can be freely adjusted, and can be clicked into set positions



Drives

Compressed-air drives with friction or one-shut clutches, rotation monitoring, control via PLC

Electronically controlled drives with EC motor and current control/resolver

Electronically controlled drives with EC motor and transducer for torque and angle of rotation

Versions

SEB
with screwdriver advance and head stroke module

SER
with screwdriver advance only head stroke module implemented externally via slide or robot

SEM
with automatic feed for nuts

SEK
with automatic feed for top-heavy screws

Other versions, e.g. with suction technology or magnetic bit.
All screwdrivers are configurable for special applications. Multiple spindles can be made very compact because of the narrow width of the spindles



Technology, that connects



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Stationary Screw Spindle

SA 03/10/30

with automatic feed

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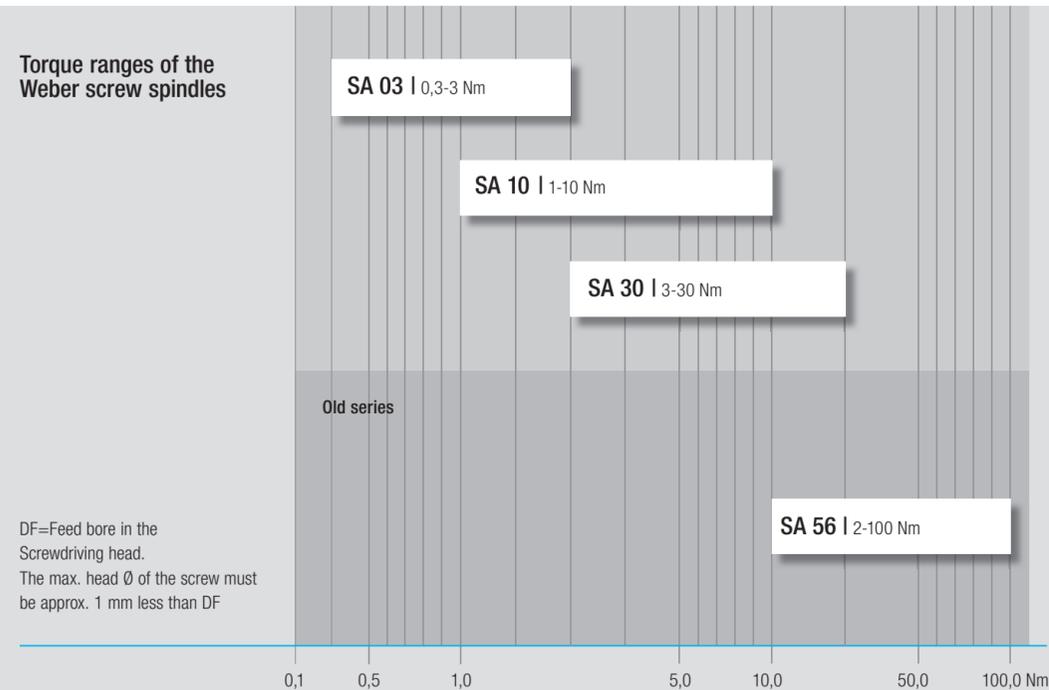
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Weber Screw Spindles

Perfectly attuned to the requirements of day-to-day use

Torque ranges of the Weber screw spindles



In future: Weber Spindle Series SA 03/10/30

In rugged series use, the highest availability, reliability and freedom from disruptions are the most important criteria for the implementation of economical assembly. The Weber screw spindles are manufactured, installed and commissioned on the basis of this principle.



With automatic feed, suitable for screws, nuts, threaded bolts and other threaded parts.

The SA 03/10/30 Spindle Series

Technology for the future

Weber SA – a new dimension in fully-automatic assembly

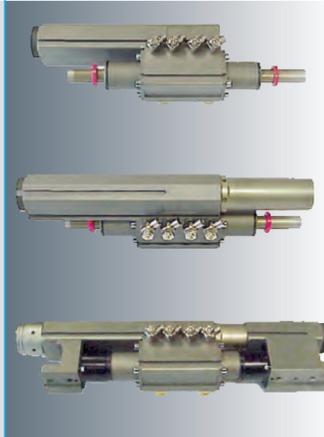
This spindle combines user-friendly, function-oriented configuration with compact construction

The maintenance-friendly design makes it possible to reduce down-times for maintenance and retooling to a minimum.

The latest production processes are used in its manufacture.

The experience gained in over 40 years of practical applications has been applied.

The few wear parts are all easily accessible. The combination of all these factors makes the spindle extremely economical.



Easy removal

Only a few screws have to be loosened to remove the spindle components. The components are fitted together in such a way that the few wear parts are all easily accessible and exchangeable.

Screw-depth sensing

Magnetic-inductive initiators are used. These offer very high switching precision at a very small size. Initiators with fine adjustment, or analogue depth sensors, can also be used.

Clamping grooves

There are four clamping grooves in the circumference of the spindle. These allow any arrangement of one or more initiators for depth-dependent cut-off change-over.



Screwdriving head

The entire screwdriving head has a quick-change system. Change of bits, re-tooling to a different screw, or fault rectification can be carried out in a few seconds without tools. The exact position of the components is preserved, and there is no time-consuming re adjustment.

Air connections

The connections for air inlet and outlet of the screwdriver and head stroke modules can be attached on either the right or the left.

Robust housing

The housing is a mono-block structure, and is made of high-stability aluminium. A special coating creates wear-free surfaces both inside and out.



Drive connection and transducer

The connections between the spindle modules are made with solid teeth. This ensures quick assembly together with sure, play-free power transmission, even in applications with both left and right rotation.

End-position sensors

Monitoring of the spindle stroke and the screwing depth allow reliable recognition of errors even before the assembly process is completed. The initiators are easily accessible and simple to adjust.

In the case of the spindle, the head and screwdriver stroke modules work parallel to each other. This allows a very short, compact form. Drive, transducer and screwdriver stroke are fixed, and do not have to be moved when the spindle moves. This reduces the moving mass, which is the prerequisite for fast cycle times and low wear on the spindle and the positioning system. The precise, automatic screw feed works on the proven Weber principle.

