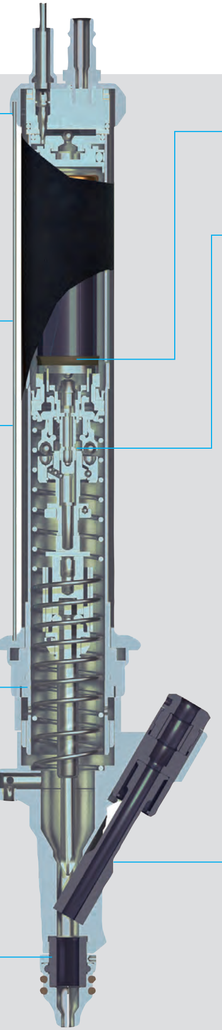
Working Principle

of the hand screwdrivers



Automatic bit advance
- Minimum force requirement (no manual compression of a telescopic nose piece)
- Fatigue-free, joint-friendly working
- Advance stroke infinitely adjustable
- No contact between parts and aligningguide with fixed, protruding screw (optional)

Trigger bar
- Flexible triggering over whole length of grip
- Precise pressure point

Torque clutches
- Friction or one-shut clutches available
- High repeat precision of torque
- Adjustment of torque not accessible for unauthorised persons
- High reliability through use of cup springs

Bayonet fastening on the screwdriving head
- Screwdriving head rotates in 30° steps, giving clear view of screw position
- Removal and re-tooling possible without operating tools in less than a minute
- Precise centring and connection to hand-piece

Exchangeable nose-piece
- Different nose-pieces and aligning guides can be used without difficulty

- Enables automatic bit advance
- Screwdriver length kept to a minimum

- Screwdriver travels to the screw without rotation
- Easy on bit and screw
- Simple inspection of bit
- Screws can be subsequently tightened
- Particularly important with Torx, slot and Allen screws

- Reliable feed, even with short screws
- Gap-free, infinitely adjustable connection of feed tube
- Feeding of next screw during fastening process possible
- Short cycle times

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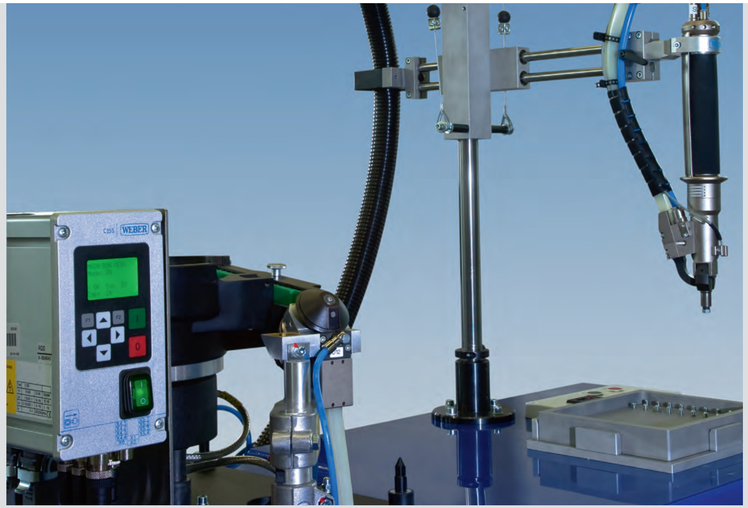
Technology, that connects



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WN 980437 / Stand 7/10 AD Subject to technical changes

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Technology, that connects

Hand Screwdriver

with automatic feed
even with fixed protruding screw

Hand Screwdriver System HSP/HSD

for screws and setscrews

Fastening process:
_ Position screwdriving gun
_ Press the trigger bar
_ Screwdriver bit advances without rotation, and interlocks with the head of the screw
_ Locking clutch engages, screwdriver and screw start to turn
_ Screw is tightened to the set torque
_ Release trigger bar; the screwdriver retracts
_ A new screw is automatically loaded

_ Control for the entire fastening process
_ Conveyor bowl and escapement in various sizes and versions
_ Enclosure cover with noise reduction
_ Feeder vibration control
_ Compressed-air maintenance unit
_ Pneumatics valves unit

Optionally:
_ Rotation monitoring with OK/NOK evaluation
_ Aligning guide with safety catches for fixed, protruding screw
_ Suction for top-heavy screws and restricted screw positions
_ Range of accessories

HSK / HSV / HSF

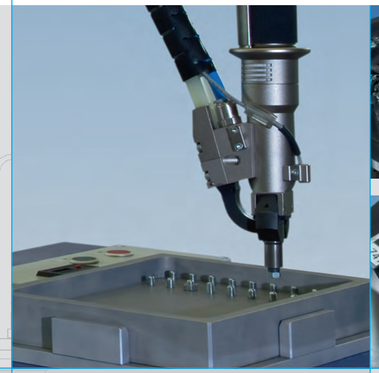
HSK:
_ For top-heavy screws
_ Feeding via special profiled feed tubes
_ Specially-shaped nose pieces and aligning guides
_ For restricted screw positions
_ Suction to hold screw until it engages in thread
_ Suction generated by vacuum pump or by Venturi effect

HSF:
_ For fixed, protruding screws to improve screw location
_ Screw is not pushed back into the aligning guide when screwdriver is applied
_ no contact with part

Hand Screwdriver System HSM

for nuts

_ Position the screwdriving gun
_ Press the trigger bar
_ Screwdriver bit advances without rotation, and interlocks with the head of the nut
_ Nut advances out of aligning guide, suction-held
_ Locking clutch engages screwdriver and nut start to turn
_ Nut is tightened to the set torque
_ Release trigger bar; the screwdriver retracts
_ A new nut is loaded automatically



_ Control for the entire fastening process
_ Conveyor bowl and escapement in various sizes and versions
_ Enclosure cover with noise reduction
_ Feeder vibration control
_ Compressed-air maintenance unit
_ Pneumatic valves unit

Optionally:
_ Rotation monitoring with OK/NOK assessment
_ Nuts picked up by expanding mandrel (without suction)
_ Range of accessories

Suction
Suction can be generated by vacuum pump or by Venturi effect. Reverse blasting is possible between fastening processes to avoid accumulation of dirt.

Our Accessories

for all models

Pistol grip
For horizontal screw fastenings
_ Slides along whole length of grip for optimum weight distribution
_ Ergonomically designed

Stall detector
Reliably recognises faulty screw processes,
e.g. defective threads or slipping screws,
and missing screws
_ OK/NOK assessment

Swivel holder
Allows simple application of the screwdriver axially to the screw by rotation

Evaluates the OK/NOK signals from the screwdriver for stall detector vision

fixed to workbench
alternative wall mounting
_ Minimum operating forces for fatigue-free working
_ Torque support
_ Weight compensation
_ Large working area (swivel radius approx. 0,7 m)
_ Angle of inclination of screwdriver adjustable in two axes
_ Simple to mount

Handling unit HHG
_ Weight compensation
_ Screwdriver guided at exact angle
_ Easy-running guides
_ Large working area

Swivelling air connection
Guarantees optimum-mobility in all working positions

Exhaust-air return
_ Muffles the sound
_ Keeps the air at the screwing position clean
_ Turns freely

The classics suspension device for hand tools
_ Compensates for the actual weight of the screwdriver