

Service and Representation

A global solution

Weber World-wide

Belgium, Brazil, Ireland, China, Italy, Argentina, Hong Kong, Luxembourg, India, Finland, Netherlands, Israel, Norway, Canada, Australia, Greece, Portugal, Korea, Romania, Malaysia, Spain, and Mexico

Your Local Sales & Support

In North America, Weber has many local and regional sales and support partners. To see you nearest authorized Weber Sales specialist visit the web site at www.weberusa.com and select the sales tab.

This brochure was only a small sample of the technology offered by Weber and our regional sales and support team.



Weber Screwdriving Systems Inc.

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Weber Screwdriving Systems Inc.

World leader in the technology of feeding and installation of multiple fastener types, for a broad range of automotive, electronics, appliance, medical and aerospace manufacturing customers.

Technology That Connects

Screwdriving, Inserting, Feeding, Assembling



Telephone: 914 962-5775

Handheld Screwdriving

Ergonomic and versatile with new LOW COST solutions



HSP pneumatic motor system features Self Advancing automatic driver bit stroke with adjustable stroke speed, and adjustable shut-off clutch. Feed-while-you-drive Swivel Arm means that unlike our competitors the next screw can be escaped and blow fed while the previous one is being installed, providing the fastest cycle time.

HSE electric motor system features the same self advancing driver bit stroke and feed-while-you-drive-technology. This hand held screwdriver is for more demanding applications which require a fully programmable DC electric tool for accurate torque control. Easily combined with our full range of automatic screwfeed systems to provide a high speed, very accurate assembly machine. The system offers adaptation to many styles and brands of screwdrivers/controllers and is not limited to DC electric. Automatic bit advance prevents jamming in the nosepiece, and an optional Bit-Lock feature provides assurance that the fastener is contained in the nosepiece and cannot migrate back up inside the jaws.



HST pneumatic telescoping head system is a push-to-start solution for less demanding applications. This collapsible hand piece uses our full range of standard and custom nosepieces.

Stationary Screwdriving

Cost Effective and Reliable



The Industry leading design in fixtured screwdriving systems, the **Marathon** screwdriver offers highly reliable automatic feeding of screws, nuts, threaded bolts and many other components. Especially suited to high volume manufacturing requirements, with heavy duty ratings on all components for long tool life and high reliability. This also means extremely long maintenance intervals, and superior wear resistance. Modular, and compact in design with tools-free "quick-change" features for bit and screwdriving head removal. There is no Z-axis movement of motor during cycle.



Designed for high volume industries that do not require the features of the Marathon screwdriver above, Weber offers an entire range of screwdrivers suitable for torque up to 50 Nm. Just like the Marathon driver these screwdrivers are highly reliable with quality construction. When coupled with an automatic feed system this **LCS** driver provides a complete solution. Especially suited to high volume woodworking, window, door and white goods manufacturing requirements. With heavy duty ratings on all components for long tool life, this system offers a lower cost solution while maintaining long maintenance intervals.

Weber Technology At The Leading Edge Of Assembly

Insertion Equipment

Hand operated or stationary mounted **LCSI** press units for automatic insertion and controlled force seating of all types of pins, bolts, plastic fasteners and push nuts.

These units can be configured for medical devices and capping as well.



Configured as a fixtured unit or as an end-effector on a Cartesian or Multi-Axis robot, the **SBM20** system is designed to handle round OD or hexagonal M5 - M12 Pop Rivets or Riv-Nuts. Compression forces of up to 20 kN, with or without optional monitoring of force & stroke.



Optional: Force / Distance measurement is available for QC process verification.



All systems have fully automatic blow feeding capability. We can handle standard (round) shaft or external hexagon style Riv-Nuts.

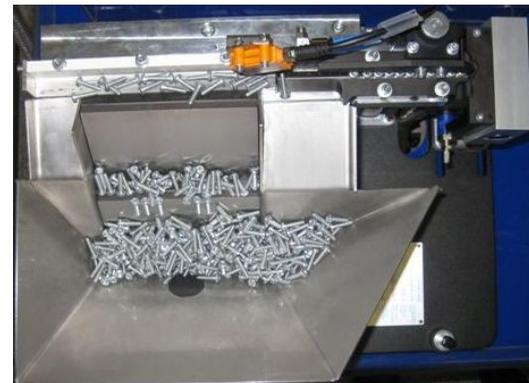
Feeding Technology



Our **Polyfeed-7** solid urethane bowl with in-stock adjustable tracking and escapement tooling makes our feeder unique in the industry. With flip up access to the feed track and a dual durometer spiral, you will enjoy long lasting service from this feeder. No tools are need to gain access to out of specification screws

that get jammed. Available sound enclosures and bulk supply hoppers complete this reliable feed system.

Stepfeeders are the next wave of technology that will allow faster, more flexible and quieter means of sorting and delivering a wider variety of fasteners, such as nuts, pins, and threaded studs to a hand held or fixtured installation tool. With up to 5000 parts per hour these systems are really fast. Optional controls and custom escapement design make these the clear choice. Limited moving parts means no wear on your fastener and low maintenance needs for the feeder.



Control Technology



C30S Screwdriving process control with customer interface to the system master control. Available with either current control or with torque/angle transducer control, to offer high accuracy pre-defined screwdriving processes while using simple parameter settings. The C30S also offers Multi Voltage and Frequency adaptation for a Global solution. ProfiBus is available as an option.

The revolutionary **C50S** process controller is much more than a DC Electric Servo System. It is based around Internet Protocol (IP) based distance controls and is able to offer onboard Process and Machine visualization, which is built into the device. Control can be achieved from a PC, Laptop, Touch Screen PC, Cell Phone or any other suitable device which has access to the internet. Full control over the process, values, statistics and reports is possible remotely from in-plant or around the planet.

The system is also capable of controlling other machine components, such as indexers, conveyors, valves and the feeder, and can accept multiple inputs from sensors as part of the overall control concept. This is performed by the virtual PLC technology inside every C50 Controller. Many optional communication protocols are available including ProfiBus, Ethernet, Serial etc.



We can now accommodate most popular brands of DC Electric and Pneumatic tools on our spindles and hand pieces here in North America, which offers even greater flexibility and standardization within our customers facilities..... Call us for more info!

Special Purpose Equipment

Flow Drilling Screws (FDS) is a relatively new technology for North America which allows for fast, air-tight, and super strong threaded joints with little or no pre-preparation to the sheet metals being joined. This process also creates a fully reusable thread with high resistance to pull out.



Screwdriving process steps:

1. Tip of fastener heats the material through high thrust and high RPM
2. Material plasticized by conical screw tip
3. Cylindrical passage formation
4. Chip-free channeling of a metric True to gauge screw thread
5. Normal screwdriving phase
6. Torque-controlled screw tightening



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