

FEEL THE NEED FOR SPEED

AUTOMATIC SCREWDRIVERS

DT DESIGN
TOOL
INC.
Just Add Screws

DTI 5000 Automatic Handheld Screw Feeders



◀ Fastest feeders in the industry with cycle times of one [1] second or less.



▲ Custom counterbore barrel designs allow screws to be driven in tight access, recessed hole locations.



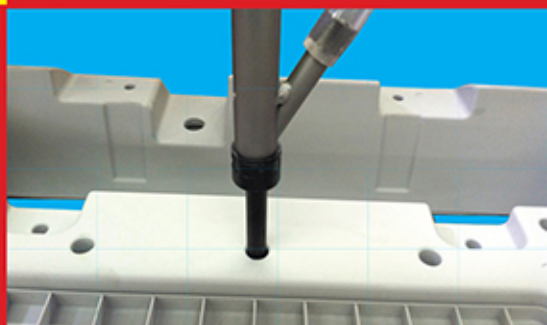
◀ DTI 400 linear workarm

▲ Many customers experience production increases of 50% - 60%.



▶ DTI designs systems for small screw applications.

▶ T handle deck tool for truck and trailer industry.



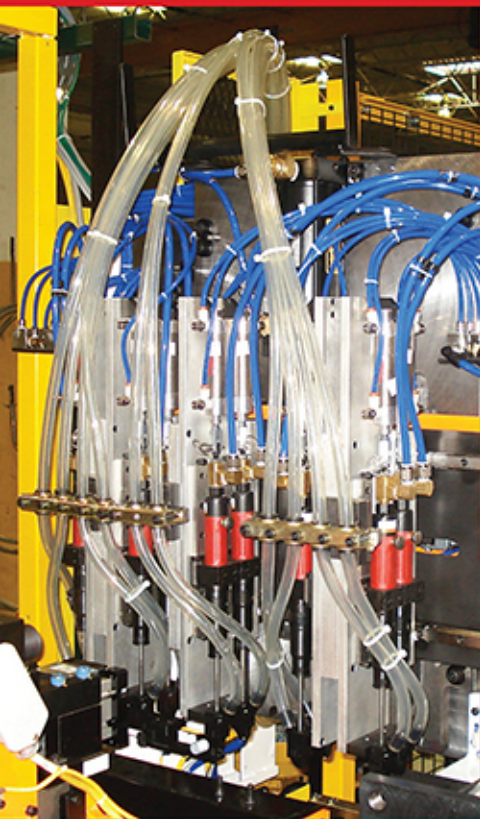
▶ Rigid-style barrel design for misaligned holes.

◀ Pistol-grip screwdrivers are available for horizontal and vertical screw applications.

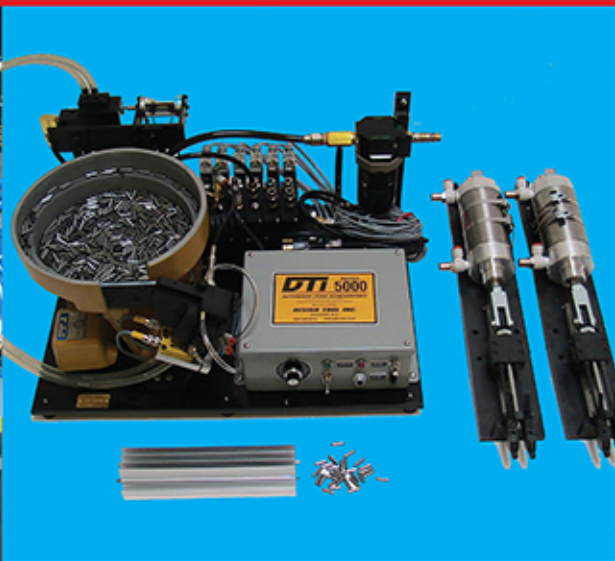


DTI Turnkey Solutions and Robotic Componentry

DTI specializes in feeding and driving all types of fasteners including screws, bolts, nails, pins, nuts and many others including custom fastener designs.



▲ DTI offers its patented multi-feed systems to allow customers with a low cycle time to feed and drive multiple screws simultaneously out of one bowl.

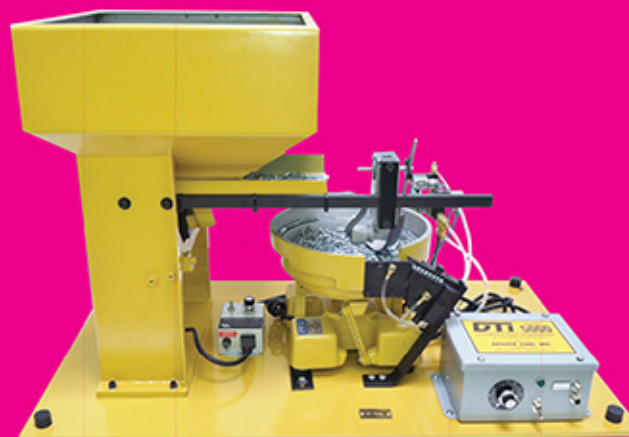
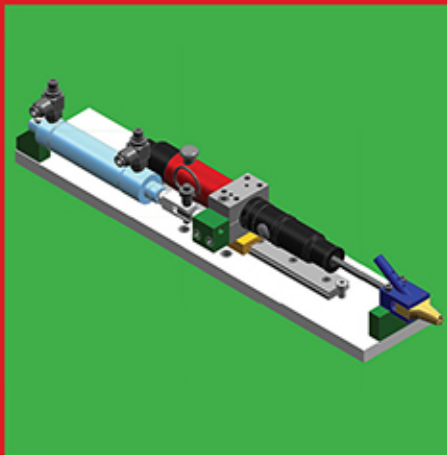


Dual platen assembly ▶

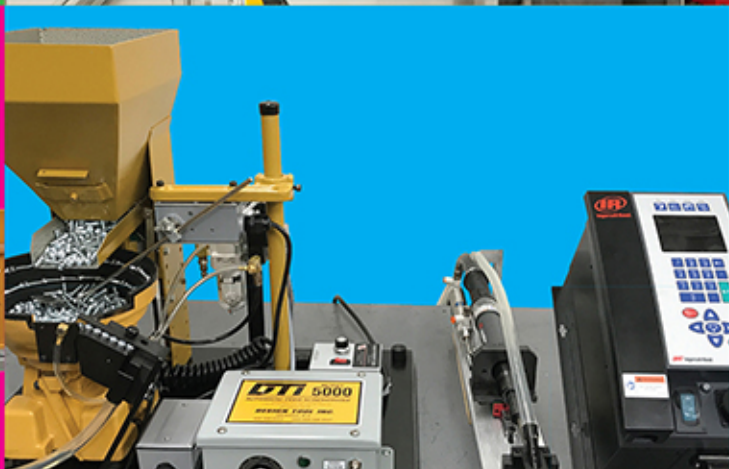
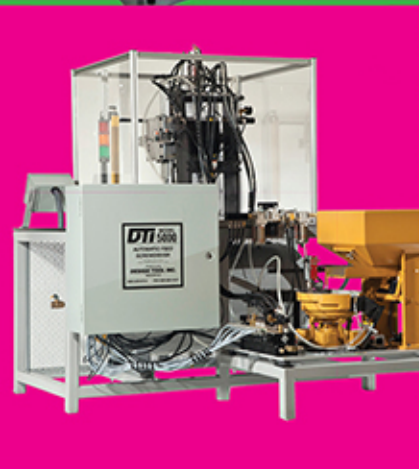
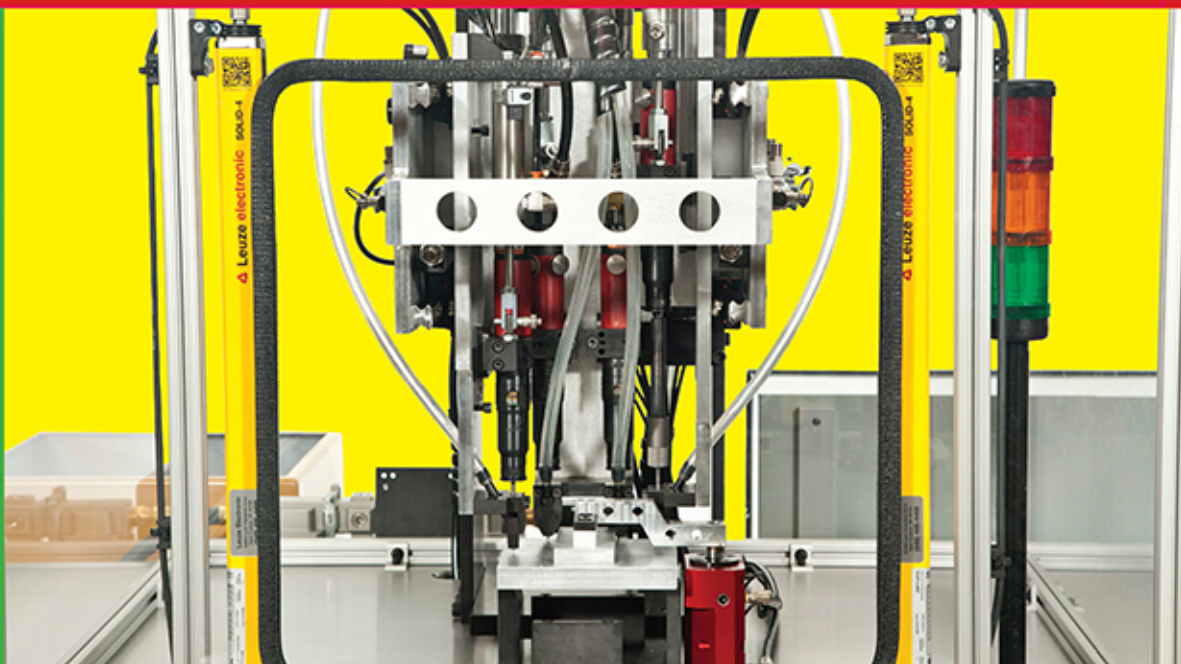


▲ All componentry is custom-designed to customers' specifications.

▶ Our patented bowl and feed mechanisms, paired with our fixed platen assemblies, can be easily attached to collaborative robots, XYZ systems or simple linear slide assemblies.



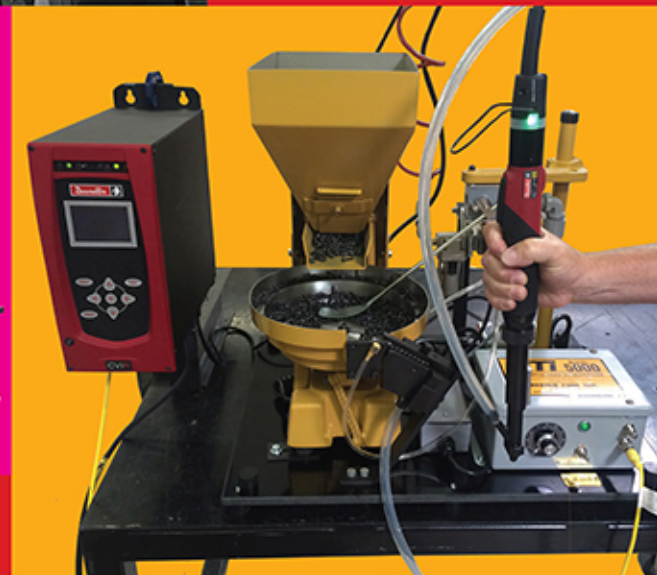
▲ Auxiliary supply hopper



▲ All systems are custom-designed per project to feature pneumatic, electric or DC electric screwdriving systems as needed.

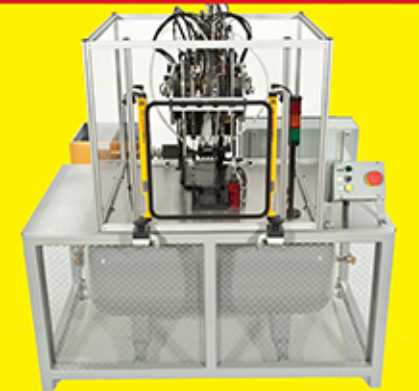
Nut-driving system ▶

DTI can present or count and dispense all different types of nuts. The pictured nut-driving system automatically presents a nut in front of the part allowing a fixtured platen assembly to complete the cycle by driving the nut onto the bolt in the same sequence.



◀ DTI has the ability to provide fully-automated turnkey solutions to be used with or without human interaction.

▲ DTI builds on any brand of tools including DC electric systems to allow the customer to monitor torque and angle, data recording and feedback, joint verification, etc.



DTI 1000 Automatic Dispensers

Provides correct number of fasteners for accountability.



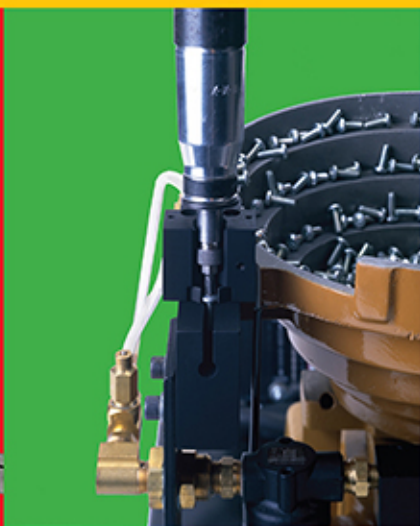
Systems are designed to automatically drop a predetermined number of fasteners into an operator's hand or customer's container for operator pickup.

Each system is custom-designed with the ability to dispense multiple different fasteners to a shared dispensing mechanism. Systems can interface with customers' communication network for input signals and multiple counts, enclosures and remote dispensing mechanisms.



DTI 4000 Automatic Fastener Presenters

If a fastener is unable to be blow-fed [ie: the screw's length to diameter ratio will not allow it], DTI recommends a presenter.



◀ The fastener is isolated and picked up by a screwdriver using a magnetic bit or socket.

DTI's screw presenters are designed for high-productivity industrial use and are great for use with human operators as well as collaborative robots for pick-and-place systems.

▲ Each machine is custom designed to orient and isolate each fastener for pickup by an operator or robotically mounted screwdriver.

▶ A vacuum pump screwdriver may be used for non-ferrous screws if needed.



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