

# Hardware & Tools Innovation Avenue

五金暨手工具  
新品大道

compiled by Fastener World

## Legacy™ Manufacturing Company Introduces Flexzilla Pro Mini Impact Wrench

### Legacy™ Manufacturing Company推出Flexzilla Pro微型衝擊扳手

This wrench has a body length of 4.4", a weight of 2.5 lbs. and breakaway torque up to 800 ft.-lbs. It will allow professional mechanics to reach areas that full-size impact wrenches just don't fit and remove even the tightest, rusted nuts. The Flexzilla Pro Mini Impact Wrench is rated at 550 ft.-lb. of maximum reverse torque and 800 ft.-lb. of nut-busting torque.

It features an ergonomic grip with a patented forward/reverse toggle switch and torque selector that provides easy one-hand operation. A variable-speed trigger and three torque settings. The handle exhaust directs air away from the user and the built-in swivel allows the hose to rotate freely.



## STAHLWILLE Rolls out the First Electromechanical Torque Screwdriver in the World

### STAHLWILLE發表全球首支電機扭力螺絲起子

TORSIOTRONIC is the first electromechanical torque screwdriver on the market – combines the accuracy of electronic measurement with the convenience of the "click" from mechanical trigger mechanisms. The patented trigger system trips with audible and tactile signals when the target torque is reached. The tool measures as accurately as only an electronic torque tool can. Integrated ratcheting bit-holder with 80 teeth that provide a particularly small ratchet angle of only 4.5° and thus enable particularly sensitive working – ideal for hard-to-reach fasteners. The fine-tooth ratchet, a wide range of programming options and a micro-USB interface make the TORSIOTRONIC the ideal tool when it comes to logging work steps, applying very small torques or following complex tightening sequences. Available in four versions for different torque ranges: 12–120 cN.m, 30–300 cN.m, 60–600 cN.m and 100–1000 cN.m.



## Martins Industries Designs Mobile Torque Wrench Support Stand

### Martins Industries研發行動扭力扳手支撐架

Martins Industries Inc. has developed a mobile impact wrench support stand that it said is designed to reduce fatigue normally associated with repeatedly lifting and torquing an impact wrench.

The new stand is compatible with most impact wrenches. The stand is designed to support weight up to 50 pounds and enhance precision by allowing users to move the wrench freely in all directions while installing lug nuts. When not in use, a locking system will secure the impact wrench onto the tray, which also can be used to set lug nuts, covers and indicators within arm's reach.

## GEARWRENCH® Introduces New Slugging/Striking Wrenches

### GEARWRENCH® 推出全新衝擊扳手



GEARWRENCH Slugging/Striking Wrenches are designed for applications where the force or torque needed to loosen or tighten large fasteners is so great that a hammer or sledge is required. Wrenches are offered in three styles: 6 Point Slugging, 12 Point Slugging, and 12 Point 45° Offset Striking. The large striking surface allows for more efficient hammer contact, transmitting more force to the fastener, while the compact handle length permits usage in confined areas. The offset handle of the 45° Offset Striking Wrench is designed to clear obstructions. Each wrench is made of alloy steel and features a hard stamped size marking on its handle. All have a black oxide finish for corrosion resistance.

GEARWRENCH 6 Point Slugging Wrenches are offered in fourteen sizes, ranging from 1-1/16" – 3-7/8". There are twenty-eight 12 Point 45° Offset Striking wrench sizes that range from 1-1/16" – 3-1/8", and thirty-three 12 Point Slugging Wrench sizes ranging from 1-1/4" – 4-5/8".

## Rivet Faster & Easier with Milwaukee®'s New M12™ BPRT

### Milwaukee® 全新M12™ BPRT 鉚釘槍



Designed for the professional trades, the M12™ BPRT simplifies the overall riveting process. Engineered with Milwaukee®'s advanced M12™ technology, THE NEW TOOL RIVETS UP TO 2X FASTER AND REQUIRES CONSIDERABLY LESS MUSCLE EFFORT THAN THAT REQUIRED FOR HAND TOOLS, eliminates the maintenance of pneumatic hoses and compressors, and can handle up to 4.8MM stainless steel rivets.

The M12™ BPRT is the industry's first rivet tool that uses a scotch yolk mechanism, which dramatically impacts the tool's performance versus the ball and screw mechanisms utilized by other rivet tools. The scotch yolk mechanism is much smaller, allowing the tool to deliver a huge amount of force in a more compact and shorter package.

Powered by M12™ REDLITHIUM-ION™ batteries, the M12™ BPRT can rivet over (325) 4.8mm stainless steel rivets\*. The REDLITHIUM-ION™ Battery Pack delivers more work per charge and more work over pack life, maintaining power under load better.

With a capacity of 2.4, 3.2, 4.0, and 4.8mm, the M12™ BPRT can rivet a range of materials including aluminum, steel, and stainless steel rivets.

For added utility, the M12™ BPRT also features a retention nose piece to keep the rivet in place during applications, as well as on-tool nose piece storage and a quick exchange front end for quick access and easy nose piece replacement.

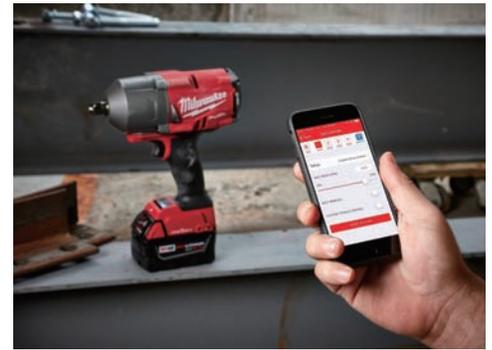
## Panasonic Introduces AccuPulse® Precision Assembly Tools for Quality-driven Manufacturers

### Panasonic發表AccuPulse® 精密組裝工具

Panasonic Eco Solutions of North America, a leader in cordless assembly technology, introduces its latest innovation in mechanical pulse tool technology, AccuPulse®. Mechanical pulse tools were designed with no torque reaction and advanced ergonomics to reduce operator fatigue & injury. Mechanical Pulse tools require minimal maintenance but get the job done accurately. A cordless battery-powered design offers freedom of movement and long-life emissions-free operation, desirable in today's eco-conscious factories.

Panasonic's AccuPulse® mechanical pulse tool series with high-resolution encoder to accurately detect flush and snug points on a wide variety of joint types, important for fastening applications where precision is critical. By sensing eight times faster compared to standard mechanical pulse tools, engineers can fine tune these tools to any application for greater fastening accuracy and higher operational efficiency. Easily program settings such as socket extension mode, cross thread reduction, cross thread/rehit detection, retightening prevention, maintenance alarms, and flush detection delay.

Featuring torque controlled ranges from 3Nm to 120Nm and a high-efficiency double hammer design, AccuPulse® tools are available in a variety of drive systems to deliver versatility in manufacturing applications from automobiles, heavy equipment, off-road vehicles, general industry and agriculture/construction equipment.



## Milwaukee Rolls out Best-in-class M18 FUEL™ Impact Wrench

### Milwaukee發表M18 FUEL™ 衝擊扳手

The M18 ONE FHIWF34 FUEL™ impact wrench is the most powerful cordless impact wrench in its class, delivering up to 1,627 Nm of fastening torque. Its compact size of 213 mm provides for even greater access in confined spaces. The ONE-KEY™ app is a digital platform for tools and equipment that allows users to customise, track, and manage their power tools. The added benefit is that ONE KEY™ allows for the tool to be set up for specific applications.

The tool's POWERSTATE™ brushless motor outperforms competitors due to its constant power output. The REDLITHIUM™ M18 B5 battery pack delivers more work per charge, and more work over pack life than any other battery. An onboard REDLINK PC board monitors each cell for load and temperature, meaning less downtime and a longer tool life.

Milwaukee's proprietary four-mode DRIVE CONTROL™ feature allows users to shift into four different speed and torque settings. These settings can also be customised using the ONE KEY™ app. REDLINK PLUS also ensures maximum performance and protection from overload, overheating, and over-discharge. The tool's Mode 4 bolt removal function, provides for a maximum nut-busting torque of 2 034 Nm and then shifts to 750 rpm, after the bolt is loosened, thereby ensuring unmatched control when removing fasteners. ■