

# HARDWARE INNOVATION ALLEY



## New Patriot Wrench 新式 Patriot 扳手

The Matthews Patriot Wrench combines 7 of the most common cutouts for the professional rigging industry into one low profile tool. Wing nuts, hex nuts and square bolts can be easily adjusted with this thoughtfully designed wrench. A lanyard hole is featured to ensure grid clamps, pipe clamps, bale blocks and more are safely configured when working overhead. The Patriot Wrench is fabricated from 6061-T6 aluminum and is hardcoat type 3 anodized to ensure a lightweight yet durable tool.

The Patriot Wrench features a low-profile wingnut wrench, four hex nut cutouts—7/8” (22mm), 9/16” (14mm), 1/2” (12mm) and 3/8” (9mm)—and two square nut cutouts for pipe clamps in 5/16” (8mm) and 1/2” (12mm) sizes.

## 五金新品大道



## Adjustable Wrench for Fast Fittings, Frustration Free

### 可快速安裝的革命性可調式扳手

The Quick-Fit Jaw by Crescent Tools is engineered to allow you to make quicker fitments on the job. Featuring a 1-degree slope on the lower jaw, the design ensures faster fitment on fasteners, despite differences in dimensions. The new adjustable wrench also features off-corner loading to prevent the rounding of fasteners, a wide jaw design for more access and capacity when in use, as well as a smaller knurl to minimize the risk of accidental back-off.

## New Torque Wrench for Wind Turbine Assembly and Maintenance

### 用於風力渦輪機組裝和維護的新型扭力扳手

The new BTW-Series Battery Torque Wrench from Enerpac allows operators to quickly move between bolting jobs, while achieving torquing precision. Weighing from just 10 lbs including reaction arm and battery, the BTW-Series is equipped with an integrated digital motor vectoring system delivering accurate and repeatable torque up to 6,000 ft-lbs. Available for 3/4- to 1.5-in. square drive sizes, the BTW-Series Torque Wrench can be used for most bolting scenarios.

The BTW-Series requires just a single operator. Ease of use and compact, handheld, battery-powered design makes it ideal for difficult to reach applications or where physical space is limited. By streamlining bolting workflow, the BTW-Series has the potential to double the productivity of bolting teams.

BTW-Series Torque Wrenches achieve a +/- 5% accuracy across their entire operational range. Using the tool's intuitive LCD display, the required torque in Nm or ft-lbs is set at the touch of a button.





## Wireless HP Series Torque Meter

無線傳輸版 HP 系列扭力感測器

HIOS Inc. launched presale of the wireless "HP-100" and "HP-10" torque meters in Japan on April 22. This is the first model in the series to feature the ability to transfer torque data wirelessly.

The HP series is a high-performance torque meter that comes standard with data transfer in addition to basic performance such as high-precision torque measurement, check of measurement errors, and built-in battery. In addition to accuracy and convenience, it supports a wide range of applications from torque measurement of electric screwdrivers to measurement of torque wrenches.

HIOS's high-precision measurement has evolved into three modes. Users can check the "peak value", "waveform", "continuous waveform" and other precision values, or check torque changes via visualized graphs. The HP series takes into account precise and accurate display as well as viewing convenience.



## 'Thermal-Grip TubeSeal' Fastener

Thermal-Grip TubeSeal 扣件

TRUFAST, a leader in residential and commercial building attachments, continues growing its portfolio of TubeSeal self-sealing fasteners and introduced the Thermal-Grip TubeSeal fastener, designed for insulation attachment over an air barrier or WRB.

In a May 17 news release, TRUFAST unveiled its newest TubeSeal product, which is available in lengths for insulation nominal thickness from 1-inch to 4 inches and comes in half-inch increments. Thermal-Grip TubeSeal ensures a tailored fit for various insulation needs. In addition to securely attaching insulation, Thermal-Grip TubeSeal fasteners helps seal blind fastener penetrations of a WRB and/or air barrier while enhancing the overall integrity of the building envelope.

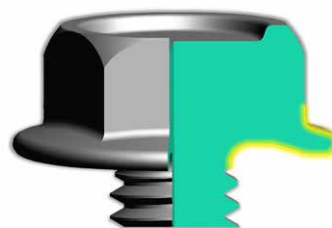
The fastener is suitable for all weather climates with its UV-resistant, semi-rigid tube construction. For added convenience, it is available pre-assembled with various TRUFAST Grip-Deck screws, including SDS (self-drilling) or HiLo thread with various washers for insulation or lath.

## Cup Bolts with High Locking Effect

杯形螺栓，彈性帶來高鎖定效果

Nitto Seiko has released a type of Cup Bolt, which is a flange-type locking bolt that can replace bolts incorporating spring washers and flat washers. This new product is currently patent pending.

Conventional locking bolts generally use a combination of a spring washer and a plain washer. The new Cup Bolt has a flange integrally molded on the head with a tapered undercut section extending from the neck to the outer periphery, and a continuous undercut section located at the outermost periphery. It has a cup shape consisting of a flat part. When fastened, this part elastically deforms and acts like a spring washer, so you can get a strong locking effect without using a spring washer or flat washer. Additionally, by reducing the number of parts, the Cup Bolt achieves a weight reduction of approximately 18% compared to conventional models.



## One-shot Deck Screw, BariKuru

一次性甲板螺絲「BariKuru」

Kamiyama Tekkosho has recently developed a one-shot deck screw called BariKuru that does not require pilot hole drilling. Mass production has been launched since February, and a patent has been filed. BariKuru can perform 4 actions in one step:

1. Drilling pilot holes in the deck material,
2. Counterboring,
3. Tightening screws, and
4. Removing burrs after construction. ■

