



# 2020 Reddot Award & Taiwan Excellence Award Winners Tools & Fastening Accessories

2020  
REDDOT  
AWARD  
WINNERS

## Reversible Ratchet

### HAZET 916 HPLG

HAZET-WERK Hermann Zerver GmbH & Co.  
KG, Remscheid, Germany

The continuously adjustable, fine-tooth HAZET 916 HPLG has a serration which of only four degrees so that the tool is The special feature of this tool is a ratchet continuously variable from 414 to 614 mm. It is of force without slipping. The static load limit and the maximum dynamic permanent load exceed the industry standard by far and ensure strength and durability.



reversible ratchet permits an activation angle suitable for confined working areas. which has no detent points and is thus con- secured against twisting and guarantees a transfer



## Precision Screwdriver Set

### Jimihome GNT30, GNT26

Mili Youhe Home (Shanghai) Co., Ltd., Shanghai, China

Jimihome GNT30 and GNT26 are precision screwdriver sets designed for private use. Thanks to stylish layout, they fit into any modern household. The body of their box is made from injection moulding and consists of two identical parts, which are magnetic and thus held together without any hinges. The screw bits, randomly arranged inside the box, do not stand up when it is opened and their size and shape are easily recognised. The surfaces of the boxes are coated with high-quality copolymer ABS, lending them a delicate appearance and soft texture.

## Cordless Drill Driver

### Hilti SF 6-A22, Hilti SF 6H-A22

Hilti Corporation, Schaan, Liechtenstein

The impact drills of this high-performance class are designed for professional use. The SF 6 class shares a uniform, well-thought-out concept with the other SF classes and impresses with task-specific ergonomic features, high performance and long battery life. The newly developed brushless motor delivers strong torque and high speeds at low power consumption. The full metal housing of the gear unit and the non-slip, shock-absorbing surfaces ensure a secure grip and protect against the rough environment of construction sites.



## Cordless Drill

### Atlas Copco EBB 26

Atlas Copco Industrial Technique AB, Stockholm, Sweden

The EBB 26 is a cordless drill intended for use in industrial aircraft manufacturing. The demands on such a machine are high, as a large number of holes are drilled quickly and precisely, and different materials are processed. The comfortable handle of the EBB 26 helps the user to generate the correct feed rate, thus creating the prerequisite for efficient working. Battery and motor are compactly combined, allowing flexible access to narrow working areas and difficult positions.



## Ratchet and Screwdriver Set

### RS Series

Shenzhen Atuman Precision Machinery Technology Co., Ltd., Shenzhen, China

The ratchet and screwdriver set of the RS series has been designed for household use. Thanks to the innovative layout of the multifunctional ratchet handle, it is possible to efficiently carry out assembly tasks in different environments, for instance in confined spaces, deep holes or tucked-away corners. The ratchet handle consists of different parts which can be put together just as the conditions require. The bits are marked by coloured rings in order to facilitate their identification. The solid box allows the tools to be safely stored.



## Cordless Screwdriver

### Bosch Go

Bosch (China) Investment Co., Ltd., Shanghai, China

The Bosch Go is a user-oriented product that features the innovative Push & Go operating mode, which has been developed on the basis of user experience. It ensures easy handling of the tool, which has a well-considered ergonomic layout. It has a fine tuned torque pre-selection feature, an electronic stop function and a powerful motor with a good balance between precision and performance. Since there is no memory effect with lithium-ion technology, the tool is ready for use at all times.



## Gearless Angle Impact Wrench

### Kuani Gear Co., Ltd.

1. Integrate Aluminum Alloy Body and Environmental fiber reinforced plastics scratch-resistant handle combat traditional impact wrench.
2. Integrated Positive and Reverse Switching Mechanism and Forward 3rd Speed and Reverse Full Speed that its knob is easier to operate with each step of the power adjustment setting.
3. High Efficiency Motor reduces 10% air consumption than same-class products and amounts of air consumed by the air compressor.
4. Noise reduces exhaust below 80-85dB and effectively reduces hearing damage for long-term use.
5. Virtual Gear Transmission directly opens the transmission that is lack of real gear operation, reducing 50% vibration and increasing 20% output of the torque, which greatly improves the performance and reduces the risk.
6. Design for 360° Exhaust Steering-operator can easily change the exhaust direction and not block up the front exhaust.
7. HFE Hand Grip Design.

2020  
Taiwan  
Excellence  
Award

## Indicative Lightweight Sleeve

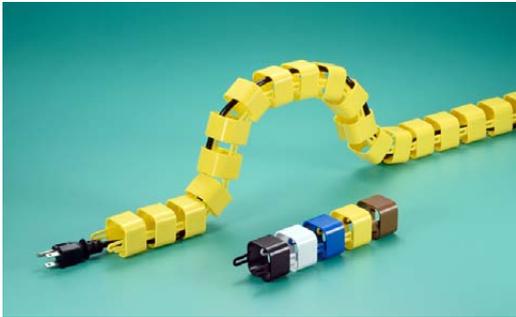
### Chienfu-Tec Co., Ltd.

Spring made of chrome steel material for car. The design of the mechanism achieves the purpose of torque segmentation by precise calculation of the coefficient of spring compression. 1. Visually determine the torque locking process. 2. High degree of customization. Customized service with compression technology, flexible setting of 6-10 torque values. Don't need to convert sleeve. 3. Miniature design to achieve torque value and lightweight -  $64g \pm 5g$ , and product size (D) 17mm  $\times$  (L) 69.9mm. Hand handling operation without burden and storage does not take up space. 4. Change BIT more quickly. The kit group is suitable for different application areas, with multiple changes, interchangeability, and convenience efficiency requirements.



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## Modular Cable Holder Kai Suh Suh Enterprise Co., Ltd.

Utility model and design patent.

- Extendable design is easy to adjust length and direction, no cutting needed.
- Flexible and easy wiring.
- Rounded corner opening for fast installation.
- Durable ABS material is Reusable and Not wasting.
- Environment-friendly non-toxic material ensures safety.

## Intelligent Multi-Segment Torque Setting High Precision Impact Industrial Brushless Cordless Tool

### Kilews Industrial Co., Ltd.

- OK and NG's warning light - master the state of bolt floating lock and sliding teeth to ensure quality.
- The five groups of programs can be used in different bolts.
- Remote control setting - the single machine parameters are not easy to be changed, and the quality of the production process is controlled.
- Programmable blowout motor output force, configured with no segment of power output.
- Counting function - the number of reminders to achieve the mechanism of leakproof lock.
- Battery Power Tip - Determine the timing of the best battery replacement.
- Low voltage compensation - stable output power, maintaining torque stability.



## Push-Fit Fittings TaiWare Alliance Inc.

TW PushFit Fittings are designed for various piping applications. Compared to traditional methods— welding, threading, press— TW features universal compatibility with common pipe materials, tool-free, reusability, low pressure loss, certified health effects & engineered elasticity, benefiting field safety, speed, flexibility, energy-saving.

TW's locally the only ISO 9001:2015 certified maker, the only Taiwan brand, the only UL/NSF listee, the only one offering high grade of stainless version. Planning for export, TW already covers multi pipe materials to be used with and only need to accommodate diameter differences by adjusting tooling.

During product launch in mid 2018, TW applied for CNS standard establishment for PushFit and got approval from IDB committee, contributing to industry advancement.

TW also actively introduced new technology via website, ads & social media since for promotion & 1st-hand UX. We're also invited by Industry Associations & Water Bureau to seminar, field-demo & exhibition.

## Orthodontic Screw System Alliance Global Technology Co., Ltd.

- There are three types: bracket double hook type (Bracket) / bracket single hook type (Hook) / mushroom head type (Mushroom)
- Three kinds of correction nails are designed for the center round hole and can be used with other correction products.
- Product Features:
  - Increase the comfort: the edge adopts a high precision arc angle.
  - Correction anchor source: not easy to fall off.
  - Good biocompatibility: Titanium alloy screws are suitable for patients with poor bone quality and sensitivity to stainless steel.
  - Reduce the locking torque: self-drilling screw tip.



## Prevailing Torque Type Hexagon Nuts with Flange Jing Fong Industry Co., Ltd.

This nuts is a customized metal fastener for fixing car suspension system designed and manufactured by Daimler AG. The nut's property is to resist loosening under vibrations and torque. In order to prevent loosening of fasteners, it adopts tapping-difference design to make closer contact between nuts and bolt; Special thread forming design decreases thread damage and increases the capability of loosening resistance. Embedded nylon washers can prevent damage to other mechanical equipment joints and lower the maintenance expense. The nut is made of medium carbon steel of SAE10B21, which can achieve the requirements of high rigidity and high toughness after heat treatment. The nylon washer adopts TW341 with high heat and cold tolerance that leads to outstanding performance in harsh environment. This series of nuts are designed for vehicle manufacture of Mercedes-Benz, including the A/B/C/E/S models, and absolutely representative of the delicate craftsmanship to the metal fastener industry.



## CNC Auto Lathe

**Major Products:** Fiber-optic Telecommunications Equipment, Hydraulic/Pneumatic Components, Shafts, Mechanic Components, Electronic Components, Wire-cutting, Housing, Computer Connectors, Auto/Motorcycle Parts, Radio Wave Launchers, Radio Frequency Generators

**Materials:** Phosphor Bronze, Aluminum, Copper Beryllium, Free Cutting Copper, Stainless Steel

.SMA	BNG
.SMB/SMC	TNC
.MCX	1.0/2.3
.MMCX	1.6/5.6
.N	7/16



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## Angle Head Attachment

### Trinity Precision Technology Co., Ltd.

Angle head attachment - This product has a torsion breaking force of 70N-m or more, and has high strength and high life characteristics. The output shaft has a special design, which can be matched with various types of bits on the market, and the versatility is widely accepted by consumers. Unique curved surface insulation design, both aesthetic and operator comfort. ■



Sources: reddot and Taiwan Excellence Award