

Hardware Design Awards Winners for 2021-2022

2021-2022
五金設計獎得主

Compiled by Fastener World



reddot design award



Bahco Secateurs BCL23

The Bahco BCL23 are powerful electric secateurs for pruning trees, which are particularly convincing due to their sophisticated ergonomics. Equipped with a carrying strap system, they protect the user from fatigue. The compact design ensures good freedom of movement and reduces the number of blind spots in which dirt can accumulate. This facilitates the maintenance of the device. The minimalist and contemporary appearance demonstrates that the secateurs are also well thought out from an aesthetic point of view.

Manufacturer: **SNA EUROPE**



Reviva Power Tools Range

The focus of the BLACK+DECKER reviva range is on the environmental aspect. Seeking to create colours, textures and clear forms, as well as optimise the ergonomics and maintain a focus on the environmental impact, the design and manufacturing processes were updated to utilise environmentally-friendly plastics and reduce the consumption of materials. The question of how components can be returned to the material cycle was also taken into account. Thus, both the ideas of solder joints, which are difficult to disassemble at end of life, and elastomer over-moulds, typically found on power tools, were abandoned.

Manufacturer: **STANLEY BLACK & DECKER**

Tough Series Handtools

TOUGH SERIES is a tool series designed for harsh conditions on construction sites. It comprises hammers, screwdrivers and tape measures, which are characterised by a variety of detailed innovations. For example, the patented material of the handles increases the durability of the hammers and reduces material fatigue. A novel design makes it possible to increase their strike force while reducing their weight. The new claw of the demolition hammer simplifies prying work. The magnetic precision tips of the anti-corrosion coated screwdrivers and the long reach of the robust tape measures are further features of successful functionality.



Manufacturer: **STANLEY BLACK & DECKER**



Precision Engineering Magazine Screwdriver

This tool is a compact precision magazine screwdriver with plastic handle that contains the most common 4 mm double-ended bits. The product is intended for delicate, filigree screwdriving work and is suitable for mobile use. The rotatable cap ensures that work can be carried out easily and well with the tool. A rotatable pull-out magazine ensures that the required bits can be found quickly and locks securely back into place with a clearly audible click.

Torque Control Nut KRASO DKM



The KRASO DKM is made from glass fibre reinforced high-performance plastic. This means its colour can easily be adapted to company or product colours. A low-wear slip clutch limits torque and contact force over multiple assembly processes. Thanks to a specially developed slip clutch, it can be loosened and tightened again without any special tools. An audible and tactile signal indicates when the optimum torque has been reached.

Manufacturer: KRASO GmbH & Co. KG



Manufacturer: Adolf Würth GmbH & Co. KG

Titan 18V Combi Drill

When designing the Titan 18V combi drill, the focus was on functions that are essential for DIY work. In addition, special care was given to the ergonomics and weight balance of the tool, making it intuitive and comfortable to use over long periods of time, regardless of the operator's physical ability. Also visually, the tool was designed to emphasise its performance and to convey confidence in the user.

Manufacturer: Kingfisher International Products Limited

DuoXpand

The DuoXpand frame fixing range is suitable for a variety of applications. The special lamella geometry expands gently in the respective building material and thus avoids fractures in porous building materials, which enables anchoring close to the edge. The grey nylon main body provides strength while the red material component provides flexibility and the necessary spread. For time-saving installation, the safety screws matched to the plug are pre-mounted.



Manufacturer: fischerwerke GmbH & Co. KG



Wiha Pliers Wrench Family

Working in confined spaces makes it difficult for an installer to press a button to adjust pliers. This design provides the solution. Work is so much faster and easier when you set the required width across flats directly on the workpiece without needing to press a button. This also means that access to tight workspaces is noticeably improved. Wear and damage to sensitive surfaces are minimized, thanks to extremely smooth, parallel-acting jaws. Design ribs on the distinctive pliers head provide a high-class look. This outstanding functional design offers multiple application advantages.



Manufacturer: Wiha Werkzeuge GmbH



Hilti DX 6 Powder-actuated Nailer

DX 6 is a modernized approach to a century-old mainstay of every construction site: the powder-actuated nailer. DX 6 shifts the product design focus from ever-higher power to consider economy, the environment, and ease of use. Instead of regulating force by varying the type of combustible powder cartridge, DX 6 works with one type only and can be adjusted intuitively using a unique numbered dial. This cuts out the trial-and-error needed to harmonize power output, fastener type, and base material condition. DX 6 can be powered with lead-free cartridges, which are clean enough to be disposed of in regular household waste.

Manufacturer: [Hilti Corporation](#)



YENCHANG

Hardware Hook & Spring Factory




4 CNC MILLING PARTS



4 STAMPING PARTS



4 WIRE FORMING



4 SPRING GLIPS



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20V Impact Driver

WU291 is a new impact driver used for screwing into or out of wood, metal, plastic, and other materials. The tool improves the efficiency of assembly and disassembly operations. This intelligent impact driver features four intelligent speed modes that can be quickly set, which simplifies assembly work processes. Compared with similar products, the WU291 offers high efficiency, high rotational speed, and high torque, all in a small shape measuring only 116mm in length. That makes the impact driver easy to carry and operate in a narrow space.

Manufacturer:

[Positec Technology \(China\) Co., Ltd.](#)



TAIWAN
EXCELLENCE
2022

VDE Ratchet Handle

This handle is the world's first to combine "direction switching" and "socket detaching" to reduce the risk of electric shock. It adopts a new 72 teeth drive structure which can cope with narrower working environments.

As the global awareness to environmental protection is rising, the frequency of using electric vehicles has gradually increased, and therefore the demand for electric vehicle repairs will also greatly increase. Given that electric vehicles need and are equipped with high-voltage power supplies, insulating tools must be used for disassembly and assembly when repairing. The VDE Ratchet Handle is the tool to meet this demand.

Manufacturer: **William Tools (Taiwan)**



GOOD DESIGN
AWARD 2021

Ball-Grip Screwdriver

VESSEL's ball grip screwdrivers have been on the market since 1984, and VESSEL continues to sell them while expanding the series. The shape of this product is well recognized by electricians and is used by many of them. The large grip is effective for tightening wood screws and removing hard screws, and the shape is easy to store in a waist sack for easy access.

Features:

1. Thick grip portion of the handle for electric wire fastening.
2. Thin grip portion of the handle for panel board and terminal block fastening and unfastening.
3. The shape design keeps the tools clutched onto the waist sack without dropping.

Manufacturer: **Vessel Co., Inc. (Japan)**

Vessel Industrial Co., Ltd. (Japan) ■

