









## MIKI NEW HARDWARE CONTEST 2020 Award product Description

| Prize   | The product<br>The winner  | The product<br>picture   | Use  | Features  |
|---|--|--|--|---|
| <b>👑Gold Prize👑</b>                                   | <b>X-Cart</b><br><br>IMOTO HAMONO CO.,LTD.                       |    | Cart with little storage space requirement   | 1) Low-slung cart with one-touch open&close mechanism for easy storing.<br>2) Top of chassis and wheels are made of elastomers. Features nonskid platform for securing the load. Quiet wheel action.<br>3) Compact size for minimal space requirement in cars. Convenient for moving moderately heavy objects.  |
|   | Judge's comment  |  | This is a novel form of cart, never seen before. On one hand, compact and assembly not required. On the other hand, it makes carrying things really easy. The innovative idea of meeting both demands by designing the cart in an X-shape was rated highly. Further evolution of the design can be expected in the future. |   |
| MIKI NEW HARDWARE Prize<br>☆Special Award for Design☆ | <b>Grape shears (Serrated edge type)</b><br><br>Saboten CO.,LTD. |   | Shear for grape pruning and harvesting   | 1) Sophisticated design based on growers' feedback and repeated testing.<br>2) The unilaterally serrated blades firmly grasp the grape stems, which have become thicker and harder in recent years due to artificial selection. Designed for easy pruning and harvesting work.  |
|   | Judge's comment  |  | User-oriented design concept that takes into consideration the needs of grape growers down to the smallest detail, such as the shear's work specific adjustability or the serrated design of the blades. The design's smooth integration of all aspects of this concept into a single form was rated highly.               |   |
|   | <b>HARNES HOOK A TYPE</b><br><br>SHIMIZU MFG.CO.,LTD.            |  | Attachment for the vertical strap of a full-harness-type safety belt for secure fastening of smartphone pouches or lightweight tools   | 1) This carabiner hook attaches to the vertical strap of a full-harness-type safety belt. The slim design of the body allows for full integration of the hook into the harness belt.<br>2) Eliminates the need for an extra carabiner when fastening smartphone pouch, tool case etc. to the harness.<br>3) The body is made of glass fiber reinforced resin and is extremely durable.  |
|   | Judge's comment  |  | This hook is designed for attachment to full-harness-type safety belts. It was rated highly for its simple design which reflects the users' demand for a hook that does not slip down yet is light and not too bulky. This hook is not limited to use in the workplace but has many applications in daily life too.        |   |
|   | <b>Deltagon Stop Bit</b><br><br>MIYANAGA CO.,LTD.                |  | Pilot hole drilling and driving-in of internal cone-drilled anchors (3030, 3040) into concrete, mortar, blocks and deck plates   | 1) The stopper function guarantees a constant drilling depth and improves work efficiency and reliability. The driver holder can be mounted while the bit is still attached to the power tool and can serve as a driver rod.<br>2) The cutting edge features 3-blade tips allowing for almost perfect circular drilling as well as smooth insertion of anchor bolts.<br>3) A mounted ring prevents the driver holder from falling out. When worn out, the O-ring can be replaced easily and economically. |
|   | Judge's comment  |  | This design concept was rated highly because it allows for a consistent process from pilot hole drilling to driving-in the anchor without having to change the bit and, additionally, elevates this idea to functional beauty.   |   |

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| MIKI NEW HARDWARE Prize            | <b>STEEL HANDLE DIGGING HAMMER</b>   |    | Hammer for digging around pipes, under pipes and inside boxes  | 1) The forged head's shape is designed especially for digging.<br>2) The head's weight is increased for more striking power and the handle consists of a durable 17Φ steel shaft.<br>3) The compact size allows for easy use in confined spaces. This is a heavy-duty tool for waterworks contractors and other professionals and is especially designed for digging.  |
|                                    | IMOTO HAMONO CO.,LTD.  |  |  |  |
|                                    | <b>SMART PUNCHER</b>   |   | Tool for punching holes into duct channels, raceways, etc. (manually operated)   | 1) The tool for punching Φ10, Φ13 holes in duct channels, raceway, etc.<br>2) Tool is operated manually and requires no power supply, punching produces no burrs or dust and makes no noise.<br>3) The first punching tool ever, where the same die can be used for punching holes into both stainless steel and iron, thus eliminating the need to change dies for each material.<br>4) The tool is designed to collect punching debris and prevents scattering of debris during the punching process. Debris can be disposed of safely and all at once, eliminating the need for cleaning. |
|                                    | KOYAMA EDGED-TOOL WORKS CO.,LTD.   |  |  |  |
|                                    | <b>Nakaboshi no tatsujin</b>   |  | Tool for damage-free weeding between rice plants during mid-season drainage  | 1) The ultra-small-diameter chip saw and the protective cover for rice stems make it possible to weed out even the narrowest spaces between the rice plants during mid-season drainage.<br>2) No need for bending over when cutting weeds because the tool is moved back and forth instead of swung sideways, thus reducing strain on the body. Chip saw replacement blades are sold separately for economical use.<br>3) In addition to paddy fields, ideal for use in a wide range of vegetable fields such as garlic, soybean and corn fields.  |
|                                    | Sanyo Metal Works Co.,Ltd.   |  |  |  |
| <b>TSUMURA "HYPER FREE" Series</b> |  | Blade for self-propelled lawn mowers for cutting slopes and ridges                   | 1) To mitigate the impact when striking obstacles such as stones, a free blade is attached to the main body's base and constructed to rotate around the bolt of the fixed axle.<br>2) The upper and lower blades crush the grass finely, allowing for a precise finish of the stubbles and preparing the grass clippings for a less laborious disposal of the cut grass.<br>3) The bump shape of the base prevents the grass from wrapping around the blades.<br>4) The lineup consists of 7 blade types, compatible with self-propelled lawn mower models (for slopes and ridges) by various manufacturers. |  |
| TSUMURA KOGYO CO.,LTD.             |  |  |  |  |