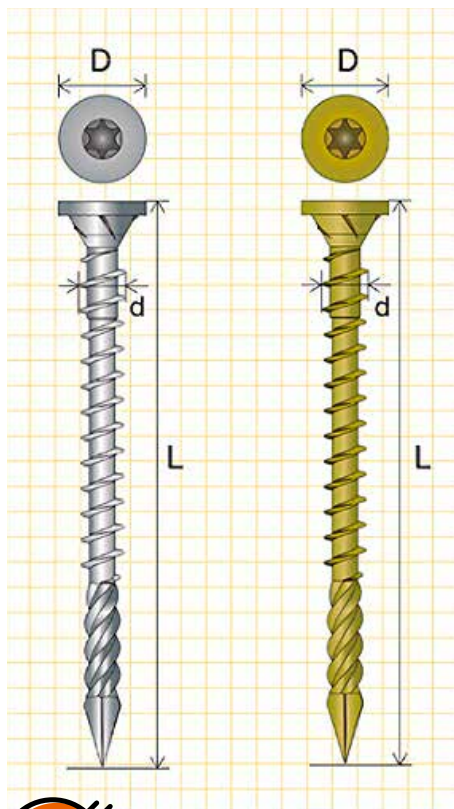


Fastener Innovation Alley



New Reduced Wrenching Bolts to Ease Installation in Tight Spaces

ARP, a leading manufacturer of high-performance fasteners, has introduced a new line of "Reduced Wrenching Bolts" designed to help builders work more efficiently in confined spaces. Available in convenient five-pack sets sorted by size, these bolts include 3/8-16 and 3/8-24 with 3/8" or 7/16" heads, as well as 7/16-14 and 7/16-20 with 7/16" or 1/2" wrenching heads. Customers can choose between polished stainless steel or black oxide-coated 8740 chrome moly steel, both rated at a tensile strength of 180,000 psi—about 20% stronger than standard Grade 8 hardware. The bolts come in various underhead lengths, ranging from 0.5" to 5" for 3/8" bolts and 1.5" to 5" for 7/16" bolts, with options for hex or 12-point heads. All bolts are forged, heat-treated, and precision machined in-house, adhering to ARP's strict quality standards. This new product line complements ARP's extensive catalog of application-specific fasteners and complete Engine & Accessory Fastener Kits, widely used in motorsports and automotive industries.



"TryLead Stainless" Fastener Series

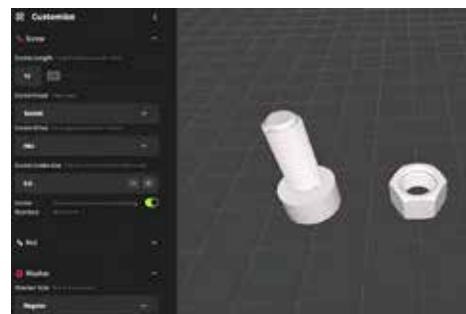
This product line by Synegeic is designed to offer superior corrosion resistance and durability, making it ideal for use in harsh environments such as marine, chemical, and outdoor applications. The TryLead Stainless series includes screws, bolts, and nuts manufactured with high-quality stainless steel materials that meet rigorous industry standards. Synegeic emphasizes that the new series provides excellent mechanical strength while maintaining resistance to rust and oxidation, extending the lifespan of assembled components. The company also offers detailed technical documentation and support to assist customers in selecting the right fasteners for their specific needs. The TryLead Stainless line is part of Synegeic's broader commitment to innovation in fastening solutions, aiming to improve reliability and performance in various industrial sectors. This launch follows Synegeic's continuous efforts to expand its product portfolio with specialized fasteners that address market demands. Customers can access product catalogs and technical data through Synegeic, ensuring easy integration into engineering and manufacturing processes.



Handy Online Metric Screw, Nut, and Washer

3D Model Generator

A new online tool has been released that allows users to quickly generate customizable 3D models of metric screws, nuts, and washers, covering sizes from M2 to M16. Developed by Jason, this handy generator uses an OpenSCAD script with a sleek web interface, enabling users to adjust parameters such as thread size, head type, and dimensions without needing prior CAD knowledge. The generated models can be downloaded in popular 3D printing formats like .stl and .3mf, making it easy for hobbyists, engineers, and designers to create precise fastener models for prototyping or projects. This tool is especially useful when a quick 3D printed fastener is needed, for example, in tight-fitting assemblies or custom fixtures where off-the-shelf parts may not fit perfectly. While commercial CAD models from suppliers like McMaster-Carr remain a good option, this generator offers flexibility and speed for on-demand design needs. For advanced users, the underlying OpenSCAD script can be downloaded and modified locally. The project reflects growing interest in parametric modeling and 3D printing within the maker and engineering communities, helping bridge the gap between digital design and physical hardware. Generator link: <https://makerworld.com/zh/models/1055250-screw-generator-parametric-screws-nuts-washer#profileId-1042636>





Innovative EZI-SA Post-Installed Anchor

Sanko Techno has introduced EZI-SA, a post-installed screw-fixed anchor bolt system designed for hanging bolts in concrete structures. The EZI-SA anchor is engineered for easy installation and reliable performance in various concrete substrates, including concrete with truss reinforcement and half-precast slabs. Installation involves drilling a precise hole, cleaning debris, and screwing in the anchor with an impact driver until a visible check ring protrudes, confirming correct embedment depth. The system features a color-coded bolt checker—orange for standard length and green for short length—allowing installers and supervisors to visually verify proper installation. The anchor's tapered shaft minimizes snagging on deck surfaces, while a stopper ensures accurate drilling depth. It comes with a double washer design, and prevents punching shear failure, enhancing safety and durability. EZI-SA is intended strictly for vertical hanging bolts and prohibits reuse of anchors or holes. Safety precautions include wearing helmets and goggles and avoiding over-tightening or use of impact drivers above 36V. The product offers a clean installation process with no waste, simplifying disposal. Available in W3/8 thread sizes with short (35mm) and standard (55mm) embedment options, EZI-SA meets rigorous construction standards. This innovative anchor system supports safer, more efficient concrete fastening for infrastructure and industrial projects.



Aluminum "System 6" Tamper-Resistant Screws

Saima Corporation has launched a new product in its tamper-resistant screw series, the "System 6" small screws, expanding its lineup with aluminum options. Debuted at Fastener Fair Global in Germany this March, System 6 screws have received strong overseas demand, prompting Saima to begin domestic sales in Japan. System 6 screws feature anodized aluminum colors including black, blue, green, purple, and red, with custom colors also available. System 6 screws come in sizes M3, M4, and M5, with lengths ranging from 6mm to 16mm, and are sold in small quantities starting from a single piece, catering to diverse customer needs. Saima emphasizes the product's blend of security and aesthetic appeal, suitable for applications requiring both tamper resistance and visual customization.



New SBW4 Rail Fastening System

Voestalpine Fastening Systems has launched the SBW4 rail fastening system, an innovative upgrade to the long-standing SBW3 system widely used in Poland's railway infrastructure. Building on decades of experience, the new SBW4 addresses key challenges such as assembly ergonomics, electrical resistance, material weight, and automation compatibility. The SBW4 features a redesigned SB3/5 cast iron anchor and WIW60C insulating clamp that standardize clamp positioning and simplify manual installation. A hollow anchor head reduces weight by 20%, cutting production and transport costs while lowering environmental impact. The PWE6094R rail pad's improved lateral ribs enhance electrical resistance, consistently exceeding safety standards (EN 13481-2). The system is designed for integration into automated assembly lines, boosting efficiency and reducing errors. Tested rigorously at the Railway Institute in Warsaw, the SBW4 meets stringent quality and safety criteria, with all components patented for innovation. This system promises faster, more reliable track laying with a smaller carbon footprint, offering economic and ecological advantages for rail construction and maintenance. ■

