



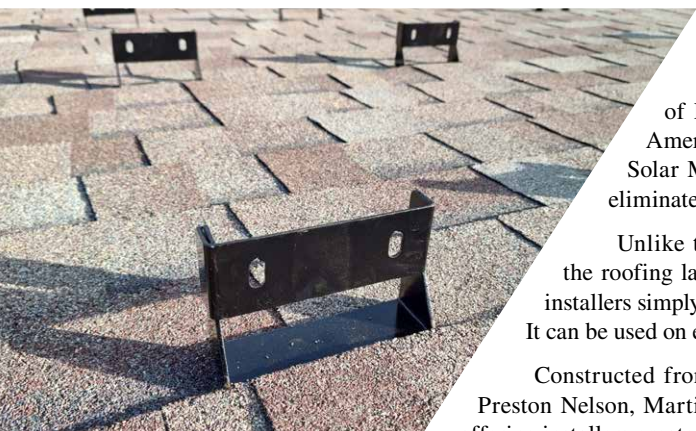
Next-Generation Power Pro® Fastener

This advanced wood screw by Hillman features a dual thread design that enables 30% faster installation while maintaining strong holding power. Tim Ferguson, Hillman's VP of Product and Engineering, highlighted the fastener's ability to eliminate pre-drilling with a self-starting tip and optimized threads that reduce wood splitting. The screw also includes a star drive to prevent cam-out, integrated countersinking blades for clean finishes, and a no-split twist shank for durability.

Designed for decks, subfloors, framing, and fences, the Power Pro fasteners improve speed and efficiency in wood construction. Hillman plans to release complementary accessories in Q3 2025, such as magnetic tool holders and TrapJaw® spring-loaded pouches, along with durable beam and joist tape.

FASTENER INNOVATION ALLEY

compiled by Fastener World



Hidden-Fastener Solar Mount

Martin Roofing and Solar has won a prize from the U.S. Department of Energy's Solar Energy Technologies Office (SETO) as a semifinalist in the American-Made Solar Prize program. The company's innovation, the Hidden-Fastener Solar Mount (HFSM), is designed for asphalt shingle and composite slate roofs and eliminates the need to drill holes in the exterior roofing layer.

Unlike traditional solar mounts that penetrate all roof layers, HFSM installs beneath the roofing layer by attaching through the nail strip. This method avoids removing shingles; installers simply lift the shingle seal, install the mount, then reseal the shingles to cover fasteners. It can be used on existing roofs or integrated during reroofing, a common time for solar installation.

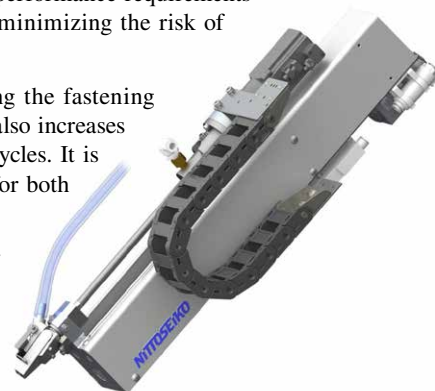
Constructed from durable, U.S.-made 5052-grade aluminum, each mount weighs just 0.6 lbs. Preston Nelson, Martin Solar's director, highlights HFSM's ability to virtually eliminate leak risk, offering installers greater confidence in rooftop solar installations.

Ultra-low Thrust Single-axis Automatic Screw Driving Machine

Nitto Seiko (Japan) officially announced the new "FEEDMAT® FM513 Series Ultra-Low Thrust Single-Spindle Automatic Screw Driving Machine." This new product is designed for industries with stringent component performance requirements such as the automotive sector. It effectively reduces the thrust applied during screw fastening, minimizing the risk of damage to screws and substrates, thereby enhancing product quality.

The new model employs digital thrust control technology to finely adjust the thrust during the fastening process, preventing excessive pressure that could cause screw seizing or substrate deformation. It also increases fastening speed by 40% compared to traditional products, significantly shortening production cycles. It is especially suitable for fastening screws in deep or specially shaped parts, meeting the demands for both "finer" and "faster" fastening.

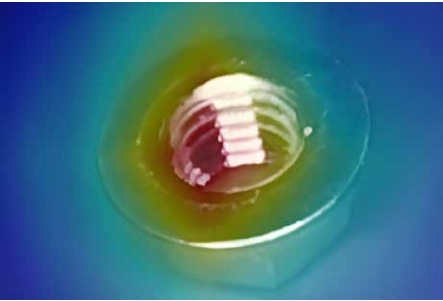
Nitto Seiko emphasizes that this product integrates a screw feeder, fastening unit, and controller into a comprehensive system. Combined with last year's high-precision low-torque NX driver, it creates a rare complete screw fastening solution in the industry, providing a more efficient and reliable technological platform for automated production lines.



AI Inspection Machine QV-7100AI


From Japan, K&K Engineering's new inspection machine, the "QV-7100AI," utilizes AI to distinguish between good and defective products, while also enhancing the user operation experience. The goal is to reduce the workload of on-site inspection tasks.

The QV series inspection machines are centered around "High Quality Vision System," offering customized models tailored to different inspection targets and building a solid track record. The newly launched "QV-7100AI" emphasizes operational efficiency and user experience on the shop floor. Through repeated research, the AI-based recognition function is integrated with an intuitive user interface, enabling quick setup and precise inspection. This model further expands the QV series product line and strengthens the company's technological presence in the field of automated inspection.




4.8 Tension Control Bolt

Tsukimori Kougyo (Japan) developed this product to enable visual confirmation of fastening completion while ensuring stable axial force. Testing on M20 specifications under 280Nm tightening torque showed that after a 17-minute NAS vibration test, traditional hexagonal 4.8 bolts retained only 180Nm (64% of the original torque), whereas this product maintained 260Nm (93%), improving the axial force retention by 44%. The technology originated from a 2021 R&D project subsidized by Japan's Ministry of Economy, Trade and Industry, and secured a patent in 2022. Combining specialized wrenches with cold forging techniques, it streamlines installation while ensuring torque accuracy, supporting specifications up to M36 and offering innovative solutions for anti-loosening needs in construction parts. ■



**OUR FASTENERS USED ACROSS
VARIOUS INDUSTRIES**



ISO
9001 : 2015

IATF
16949 : 2016

ISO
14001 : 2015


BS OHSAS
18001 : 2007

AS 9100D

NADCAP
HEAT
TREATMENT

NADCAP
NDT

NADCAP
MPI



NABL
ISO/IEC
17025:2005

UNIVERSAL PRECISION SCREWS

NH-10, Delhi-Rohtak Road, Kharwar By Pass, Rohtak-124001 (INDIA)

Ph. : +91 - 1262-205117, 205102 Fax : +91 - 1262-205111, 205112

Email : customer@upsind.com Website : www.upsind.com



ISO 9001:2015 Certified

CE EN14592 Certified

Standard Parts: IFI, DIN, ISO, JIS standard,
Drywall screw, Decking screw,
Self-drilling screw, Self-tapping screw,
Machine screw, TapTite screw.

Non-Standard Parts: Customized Drawings.



Bear Fastening Solutions, Inc.

Office: No. 140-1, Zhuanzijing, Madou Dist.,
Tainan City 721008, Taiwan.
Tel: +886 6 571 5928 Fax: +886 6 571 2845
Email: lionel@bearfs.com.tw

www.bearfs.com.tw



