

## ▶▶ PD400UR Screw Driving Device

PD400UR Screw Driving Device is certified to "UR+" by Universal Robot. Nitto Seiko is the first Japanese company of its industry to have acquired the certificate with a screw driving device. The company successfully developed the URCap "NS SD600T" plug-in software which can be installed to the Universal Robot teach pendant from which the user can manage fastening torque and the driver's turning speed. Enter the target torque and the easy mode will automatically calculate the fittest turning speed, or select the detailed mode to allow for individual parameter configurations.

The Device is equipped with NX-T3 Driver Series/SD600T controller for high precision. Different torque values and turning speed can be set for each fastening spot, and 16 configuration sets can be stored to cope with various conditions. The user can choose to have the device pick up screws either magnetically or via vacuum suction.



## ▶▶ SET-3G™ High-Strength Adhesive

Simpson Strong-Tie, the leader in engineered structural connectors and building solutions, announced that its SET-3G™ high-strength epoxy anchoring adhesive is code listed for anchoring installations in submerged holes and in saturated concrete or water-filled holes.

Formulated to yield superior performance in threaded rod anchor and rebar dowel installations in cracked and uncracked concrete, SET-3G high-strength anchoring adhesive is the latest innovation in epoxy anchoring adhesives from Simpson Strong-Tie.

The two-component, one-to-one-ratio, epoxy-based anchoring adhesive formula dispenses in a uniform gray color to match surrounding concrete surfaces, and can be easily installed in downward, horizontal and overhead orientations. In addition to providing exceptional bond strength, SET-3G adhesive has been proven to outperform other products on the market. SET-3G is code listed to work with the Speed Clean™ DXS dust extraction system, which saves hole preparation time and complies with updated OSHA Silica Dust Compliance Regulations to keep workers safe from hazardous airborne dust.

"When a project requires underwater anchor installation or if weather may impede progress on a job, SET-3G provides contractors with the flexibility and versatility to continue their job," says Simpson Strong-Tie market segment manager for concrete construction products Corey Clark. "Now code listed for underwater applications, SET-3G delivers ease of installation in the best and worst environmental conditions."



## ▶▶ 'Zero Chromate' Zinc Electroplating Technology

"Zero Chromate" developed by Kamiyama Tekkosho in Japan can provide surface treatment for the company's self-drilling and self-tapping screws or can be used for OEM purposes. Since Geomet and other surface treatment solutions may affect the fit of screw recess and the tapping performance, the company has developed the next-generation Zero Chromate technology which is chrome and cobalt free and highly resistant against corrosion. The features include:

1. A 1µm Zero Chromate coating layer covers the top of an 8µm zinc coating layer to form a coating layer as thin as just 9µm. Its anti-corrosion performance has been confirmed in a salt-spray test to be 10 times better than that of a uni-chrome coating layer.
2. At almost the same cost as trivalent chromium.
3. Value of use between uni-chrome coat and Geomet.
4. Thin, environment-friendly and corrosion-resistant.



### Typhoon+ Hydraulic Bolt Tensioner

Nord-Lock Group is celebrating the launch of the new Typhoon+ hydraulic bolt tensioner which has been developed to meet the technical and environmental demands of the wind energy market, where high bolt load and restricted access applications are common challenges.

- Part of Nord-Lock Group, Boltight has developed a deep understanding of hydraulic bolt tensioning and is working hard to deploy the latest technology and advanced bolt tensioning solutions that permanently eliminate the risk of loose or over tightened bolts.
- The robust Typhoon+ design ensures reliability during frequent and repeated use necessary on wind turbine projects, both on and offshore, for low radial clearance applications. The new design offers:
- Ease of use – a fast automatic spring-return design using a single reaction allows a full return to zero stroke piston retraction, and removes the need for manual input.
- Improved seal technology - reduces seal changeouts and enhances general performance throughout the high cycle usage.
- Safety - Over-stroke prevention removes the possibility of over-stroking the pistons. Internal fail-safe technology keeps the tensioner on the bolt in the event of puller bar failure, ensuring user safety.
- High Life Cycle - Long service intervals, not restricted by a fixed number of cycles thanks to high grade material puller bar.
- Low Maintenance – due to an improved spring-loaded auto engagement gear driven nut rotating socket with a geared drive, and it's easy to use.



- Durability - a unique surface finish provides long lasting protection in harsh environments.

When asked about the launch of Typhoon+, Boltight's Commercial & Projects Manager, Gavin Coopey said, "We're delighted to be launching this new solution to our overall product offering. We feel confident that the Typhoon+ will play a crucial role by making the process of using hydraulic bolt tensioners on wind turbine bolts much quicker, improve durability and reduce downtime".



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