

Feature: Stainless Steel Screws, Bolts, Nuts, Washers

arranged by *Fastener World*

Introduction

The family of stainless steel materials has been extended to include at least over 180 categories. Fasteners made of stainless steel can be applied to a vast range of industries, based on their respective properties and environments they are going to be used. With over 11% containment of chromium, stainless steel is able to form on its surface a layer of chromium oxide featuring great rust-proof performance. Such alloys are widely used in manufacturing fasteners for automotive and construction applications in which high corrosion resistance is required.

Considering the “ductile” property of stainless steel, some companies have developed new types of stainless steels with the hardness of up to A2-100, offering the civil engineering industry a new option for corrosion-resistant applications, and some others have also developed bi-metal screws (a stainless steel head + a carbon steel drilling point) that best suit the needs of applications. The cost for manufacturing a piece of stainless steel screw is on average 5-10 times that for manufacturing a piece of carbon steel screw, but its durability and corrosion-resistance outperform those made of carbon steel.

Stainless steel products can be fully recycled and will still possess surplus value at the end of their service life.

The development of stainless steel fasteners in Taiwan has been more than 4 decades. In early days, most Taiwanese small screws companies (Rodex, Header Plan, and A-Plus Screws, for example) were located in Taoyuan or in the suburbs of New Taipei City. Many years later, however, many leading companies (such as Tong Hwei and Ming Hwei) determined to set up plants in Kaohsiung or Tainan, due to proximity to the well-established fastener manufacturing supply chain and material sources. Today, southern Taiwan has become one of the world’s pivotal fastener manufacturing hubs, providing very competitive products through a complete production and supply chain. In addition to the headquarters in Taiwan, some companies also began to expand their factories to China and southeast Asian countries after 1995 with good profit returns.

In this feature, we’re very pleased to have **SHEN CHOU FASTENERS** joining us to share its experience in dealing with properties



of stainless steel and the successful development of a new super long screw and the “hard” stainless steel used to manufacture products for outdoor extreme applications, which immediately caused a sensation in the Japanese and European markets upon released. We are also very pleased to have **SAIMA CORPORATION** joining us, which dedicates itself to offering stainless steel fasteners for high security requirements and applications, available in all sizes and ready in stock for shipments.

SAIMA CORPORATION- Meeting Your Small Quantities Demands

by *Gang Hao Chang, Vice Editor-in-Chief of Fastener World*

Always gifted at tackling tough challenges faced by many industries and turning them into its remarkable strengths, the Japan-headquartered and worldly recognized SAIMA CORPORATION has once again consolidated its position and proved its irreplaceability on the minds of its loyal clientele with the three new innovative series currently added into its product portfolio.

Best for Tamper-Resistant Purposes- TRF

Tamper-resistant Fasteners (TRF) offer an ideal option to users who are seeking small quantities supply but still require high security features at the same time. These fasteners can be used for multiple applications, such as public areas (incl. parks, train stations, buses, airports, etc.), handy phones, and traffic signals. According to CEO Tak Saima, Saima’s main customers usually request products in small quantities, so Saima offers the option of 100pcs per standard pack and has currently 13 different kinds of design in stock with available sizes from M2 to M12 and materials in stainless steel and steel.



Best for Thin Plates Fastening- SLIM HEAD SCREW

The nearly flat and space-saving Slim Head Screws, on the other hand, are quite a simple and efficient way for users particularly from the human robot industry and the drone industry to meet their respective demands for fastening several joint parts in limited space and weight reduction. In order to cater to such various requests of different customers, Saima is currently able to offer the options with standard 6-lobe recess heads, Phillips recess heads for maintenance, and even QUA OSG patent recess heads featuring great performance for tightening torque control.



Best for Plastics Fastening- NON-SERT

The NON-SERT thread forming tapping screws have evolved into the 4th generation. The RoHS compliant series are with 30 degrees thread angle & low driving torque and can be repeatedly used. “Nonsert has great performance to help plastic recycling,” says Mr. Saima, “as Nonsert can be fastened and un-fastened on the same female thread for more than 50 times, without the addition of metal inserts.”



Synergy of Cross-border Operations for Enhanced Technical Support

As a typical blue-ocean player and with the focus on web marketing, Saima has established a synergetic collaboration with its overseas operations in China, Malaysia, Singapore and India to service its target customers- small innovative engineering companies. For fulfilling its corporate social responsibility and getting new inspirations from the outside, it has also launched the internship program for students from Japan and other countries.

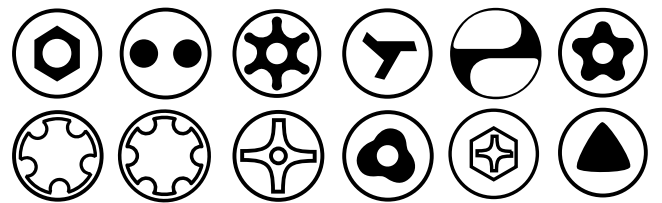
In an interview with Fastener World Magazine, Mr. Saima stated “We are always interested in expanding our business; however, we also need to be very strong in our field,” which clearly shows the DNA of Saima to be 100% well-prepared before any challenges are close at hand.

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Security Fasteners



Tamper Resistant Fasteners

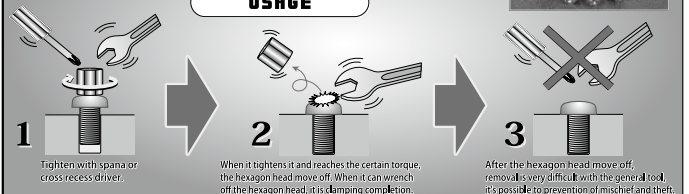


• TRF® is difficult to remove without special tools.

New!!! • Available in stock. (M2-M12)

NON-RECESS TRF®

USAGE



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