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Standards and Regulations

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Approach of Tohnichi to Global Standards

With higher awareness of quality control, a variety of regulations have been enacted in different countries from a viewpoint of environment protection.

Tohnichi has been making daily efforts to manufacture the products compliant with those regulations.

(1) ISO 6789

(Assembly tools for screws and nuts - Hand torque tools - Requirements and test methods for design conformance testing, quality conformance testing and recalibration procedure)

These standards stipulate the various measurement permissible difference ratios, measurement points, and measurement methods relating to the required items, testing methods, and displays of manual torque tools used for tightening control of screw tightening units.

(2) ISO / IEC 17025

(General requirements for the competence of testing and calibration laboratories)

Technical requirements for laboratories and calibration site that is standardized based on ISO 9001. The accreditation bodies use it as a standard to certify the abilities of test sites or certification laboratories. ISO/IEC 17025 accredited site or laboratory is allowed to use the symbol mark on their inspection or calibration certifications, thereby the certifications will be accepted internationally and ensured reliability.

(3) ISO 9001

(Quality Management System)

ISO 9001 is a global quality management standard. Use it to establish and to update your organization's quality management system (QMS). It applies to all types of organizations. It doesn't matter what size they are or what they do. It can help both product and service organizations achieve standards of quality that are recognized and respected throughout the world. Revisions have been added several times so that consistency with other management systems can be ensured.

(4) ISO 14001

(Environmental Management System)

An international standard on the environment established for the purpose of minimizing the impact of corporate activities on the environment.

It is based on PDCA (plan-do-check-act) management to achieve the results in line with the management policy by set up necessary targets, implement, operate, verify and re-planning for improving the management system continually.

(5) ISO/TS 16949

(Quality Management System for Automotive-related Industries)

Technical standards for automotive and the suppliers that is standardized based on ISO 9001 with adding the industry-specific requirements. Especially, the it's arranged specific requirement for emphasizing defect prevention, deduction of variation and waste in automotive parts and materials suppliers.

(6) Overseas Wireless Standards

Table 9-1. Conditions of wireless equipment certification acquisition

Country	Authority	Acquisition condition
Japan	TELEC	FH256MC, FHLSL, RTDFH, FHP, FMA, BL, FD, CEM3-BT, ST3-BT, STC2-BT, HAC
United States	FCC	FH256MC, FHLSL, RTDFH, FHP, FMA, BLA, FD, CEM3-BT, ST3-BT, STC2-BT, HAC
Thailand	IC	FH256MC, FHLSL, RTDFH, FHP, FMA, BLA, FD, CEM3-BT, ST3-BT, STC2-BT, HAC
Canada	CE	FH256MC, FHLSL, RTDFH, FHP, BLE, FD, CEM3-BT, ST3-BT, STC2-BT
EU	SRRC	FH256MC, FHLSL, RTDFH, FHP, BLE, FD, CEM3-BT, ST3-BT
Russia	NTC	FH256MC, FHLSL, RTDFH, FHP, FMA, BLA, FD, CEM3-BT, ST3-BT, STC2-BT, HAC
China	SIRIM	FH256MC, FHLSL, RTDFH, FHP, FD
Malaysia	SDPPI	FH256MC, FHLSL, RTDFH, FHP, FD
South Korea	KC	FH256MC, FHLSL, RTDFH, FHP, FD
Taiwan	NCC	FH256MC, FHLSL, RTDFH, FHP, FD, CEM3-BT, ST3-BT, STC2-BT, HAC
Indonesia	FSB	FH256MC, FHLSL, RTDFH, BLE, FD, CEM3-BT, ST3-BT, STC2-BT, HAC
India	WPC	FH256MC, FHLSL, FD
South Africa	ICASA	FH256MC
Singapore	IDA	FH256MC, FHLSL, CEM3-BT, ST3-BT, STC2-BT
Brazil	ANATEL/OCD	FD, CEM3-BT, ST3-BT, STC2-BT, HAC

Certification (reference)

As of May 2018



Japan (TELEC)



United States (FCC)



Canada (IC)



China (SRRC)



South Korea (KC)



Indonesia (SDPPI)



(7) CE Marking

CE Marking is a mark which indicates that the specified product conforms to the safety standards, and only products that show CE Marking can be assured of unrestricted distribution inside the EU zone. In the case where products are to be exported to the EU region, it will be necessary to certify that the product conforms to the required standards, and CE Marking must be affixed. Among Tohnichi products, electric

and electronic devices have CE Marking affixed and certification attached, and the conformity is assured. Note that mechanical torque wrenches are not applicable to these standards, and do not have CE Marking certification.

(8) RoHS Directive Restriction of Hazardous Substances

This EU legislation restricts the use of toxic substances in electric and electronic devices. It was enacted to facilitate device recycling, and to protect human health and the environment when they are disposed of.

When application of the RoHS (Restriction of Hazardous Substances) directive came into effect in 2006, six substances were restricted: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ether. Then on 31 March 2015 four types of phthalate esters were added, making a total of 10 substances. TohnicHi's machine products are exempt from these restrictions. In the case of our electronic and electric devices, we verify whether RoHS directives apply or not.

(9) REACH Registration, Evaluation, Authorization and Restriction of Chemicals

This EU directive amalgamates more than 40 EU chemical substance control regulations. It was enacted to protect human health and the environment, and to maintain and improve the scientific and industrial competitiveness of the EU. After the directive came into effect on 1 June 2007, substances of very high concern (SVHC), such as substances that are carcinogenic, bioaccumulative or toxic, were added sequentially, so that by the 19th amendment in July 2018, the list had 191 substances. An entity that violates this directive can no longer produce, market or use chemicals in the EU.

(10) IEC61340-5-1 Protection of Electronic Devices from Electrostatic Phenomena – General Requirements

The general requirements for protection electro Static Discharge (ESD).

ESD causes the problems such as damage or malfunction of electronic equipment and it may degrade the performance of electric devices. Our some products that ESD protection mark (⚡) is described fulfill this requirement.

(11) EU Battery Directive 2006/66/EC

The new Battery Directive is to regulate batteries and accumulators containing hazardous chemicals (secondary battery). Regulated is if you want to export to the EU in equipment with built-in batteries and accumulators that contain cadmium. However, the equipment that is designed to be sent into space and equipment related to national security are not eligible.

Prohibition of Ingredients

● Batteries shall not contain more than 0.002% (20 ppm) cadmium by weight. Batteries intended for use in the following applications are exempt from the cadmium requirement:

- Emergency and alarm systems
- Emergency lighting
- Medical equipment
- Cordless power tools

(12) Chinese Version RoHS Directive Administrative Measures on the Control of Pollution caused by Electronic Information Products

In March 2007 the Administrative Measure on the Control of Pollution Caused by Electronic Information Products was enacted in China to restrict the use of designated hazardous substances in electrical and electronic products. It is thus known as the “China RoHS.” The amended version of this legislation promulgated in July 2016 strengthened the restrictions. It includes the six old EU RoHS substances, and the chemical compounds subsequently added. The legislation clearly specifies the restricted substances, and identifies two procedural steps: management of an inventory that lists usage restrictions, and eligibility assessments.

At the global level, the most influential organizations determining engineering-related standards are **IEC, the International Electrotechnical Commission** and **ISO, the international Organization for Standardization**. The IEC is primarily concerned with electrical and electronic engineering issues, while the ISO’s field is mechanical engineering. Each organization currently has more than 100 member countries. The standards they have developed are recognized as holding much weight.

(13) GOST R Russian National Standards The Government Standard of Russia

GOST-R (The Government Standard of Russia) is the general name for all the Russian standards, and industrial products will require explosion-proofing, fire-resistance, hygiene certification, and measurement instrument certification. GOST-R certification is required for all the specified products, and it will be necessary to submit certificates in order to import and distribute these products in Russia. In advance of other companies, Tohnichi has already acquired the GOST-R certification for its main products.

(14) CCC China Compulsory Certification

China Compulsory Certification (CCC) is a certificate system on the safety of products sold in China and it was implemented on May 1, 2002. As for the product which does not acquire the certification, the commercial activities such as imports and sales to China are prohibited.