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Standards and Limitations

9-1. Standards and Limitations

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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.

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(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)

Regarding the testing and calibration carried out by testing sites and calibration laboratories, this stipulates the general requirements relating to the competence of companies wishing to receive certification. The standards include testing and calibration implemented using the methods stipulated in the standards, together with methods that have been developed by testing sites and calibration laboratories.

(3) ISO9001

(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.

The following manufacturing and sales site acquire ISO 9001 certification.

ISO9001 : 2008 Kofu factory

ISO9001 : 2008 Tohnichi Shanghai factory

ISO9001 : 2008 Tohnichi Europe NV

(4) ISO 14001

(Environmental Management System)

ISO 14001 is an environmental management standard. It specifies a set of environmental management requirements for environmental management systems. The purpose of this standard is to help all types of organizations to protect the environment, to prevent pollution, and to improve their environmental performance.

The following manufacturing acquires ISO 14001 certification

ISO14001 : 2004 Kofu factory

ISO14001 : 2004 Tohnichi Shanghai factory

(5) Overseas Wireless Standards

Table 9-1. Conditions of wireless equipment certification acquisition

Country	Authority	Acquisition condition
Japan	TELEC	FH256MC, FHLSL, FMA, FHD, FHDS, CEM3-G-BT, ST-BT
United States	FCC	FH256MC, FHLSL, FMA, FHD, FHDS, CEM3-G-BT, ST-BT
Thailand	NTC	FH256MC, FHLSL, FHD, FHDS, CEM3-G-BT, ST-BT
Canada	IC	FH256MC, FHLSL, FMA, FHD, FHDS
EU	CE	FH256MC, FHLSL, FHD, CEM3-G-BT
Russia	FSB	FH256MC, FHD, FHDS, CEM3-G-BT
China	SRRC	FH256MC, FHLSL, FHD, CEM3-G-BT
Malaysia	SIRIM	FH256MC, FHLSL, FHD, FHDS
South Korea	KCC	FH256MC, FHLSL, FHDS
Taiwan	NCC	FH256MC, FHD, FHDS
Indonesia	SDPPI	FH256MC, FHLSL,
India	WPC	FH256MC
South Africa	ICASA	FH256MC



Certification (reference)

As of November 2013



Japan (TELEC)



United States (FCC)



Canada (IC)



China (SRRC)



South Korea (KCC)



Indonesia (SDPPI)

(6) 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.

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(7) WEEE & RoHS Directive

The purpose (idea) of the Waste Electrical and Electronic Equipment (WEEE).

Directive adopted among the EU member countries is to avoid generating waste electrical and electronic equipment. Rather than regulating production, the directive recommends reuse and recycling in order to reduce landfill disposal. The creation of this recycling system has been implemented by all of the countries in Europe. The RoHS Directive is a directive that has the purpose of preventing products including the harmful substances specified in the regulations accompanying the WEEE Directive from entering the market. Among Tohnichi products, checking of electric and electronic devices is carried out to determine whether or not substances covered by the RoHS Directive are included. Mechanical torque wrench and torque screwdriver products are not subject to the directive.

(8) REACH

(Registration, Evaluation, Authorization and Restriction of Chemicals)

REACH will require all companies manufacturing or importing chemical substances into the European Union in quantities of one tone or more per year to register these substances. we do not use components that contain hazardous chemicals to our torque wrenches and torque screwdrivers.

(9) 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.

(10) The new Battery Directive (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 and mercury. 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 0.0005% (5 parts per million or ppm) mercury by weight. Button cells may contain up to 2% mercury by weight.
- 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

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

This law is a regulative bill on harmful substances that is applicable within China.

The range of application covers:

- Electric and specified electronic information products manufactured and sold in China.

- Electric and specified electronic information products imported to and sold in China.
- Electronic information products manufactured in China for export purposes are excluded.

(12) GOST-R (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.

(13) 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.