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July 12, 2023

Conformity of Japanese injection moulding machines to the new safety standard JIS B 6711:2021

The Japan Society of Industrial Machinery Manufacturers (JSIM) has established and promoted JIMS K-1001:2008 + Amendment 1:2015 (for Rubber and Plastics Machinery—Horizontal Injection Moulding Machines—Safety Requirements) and JIMS K-1002:2011 + Amendment 1:2015 (for Rubber and Plastics Machinery—Vertical Clamp Injection Moulding Machines—Safety Requirements) as the industry standards for the machine safety. On the other hand, Europe, the U.S., China, and other countries have their own safety standards for injection moulding machines, and international unification was desired. Therefore, countries around the world cooperated to establish ISO/TC270 in 2012 to examine the technical aspects of plastics and rubber machines, and the international standard ISO 20430:2020 (Plastics and rubber machines—Injection moulding machines—Safety requirements) was published.

In Japan, JIS B 6711:2021 was published as the identical standard to ISO 20430:2020 to enhance the safety and international competitiveness of injection moulding machines by promoting these safety standards based on the state-of-the-art knowledge. In Europe, EN ISO 20430:2020 was published as a harmonized standard with the European Machinery Directive, and EN 201:2009, the previous safety standard was withdrawn. In China, the national recommended standard GB/T 22530:2022, based on ISO 20430:2020, has been published and is expected to become a mandatory standard within the next few years.

In light of these circumstances, Japanese injection moulding machines shipped on or after April 1, 2024 will, in principle, conform to JIS B 6711:2021, unless the destination country has a domestic standard for injection moulding machines safety.

We would appreciate all injection moulding machine users' understanding of this action to reduce the risk of occupational accident.

Participating companies and organizations in ISO/TC270 national Committee and JIS B 6711 drafting

- The Japan Society of Industrial Machinery Manufacturers (JSIM)
- Japan Plastics Machinery Association (JPM)
- FANUC CORPORATION
- Hishiya Seiko Co., Ltd.
- The Japan Steel Works, Ltd.
- Niigata Machinery Co., Ltd.
- NISSEI PLASTIC INDUSTRIAL CO., LTD.
- Sanjo Seiki Co., Ltd.
- SHIBAURA MACHINE CO., LTD.
- Sodick Co., Ltd.
- Sumitomo Heavy Industries, Ltd.
- TOYO MACHINERY & METAL CO., LTD.
- UBE MACHINERY CORPORATION, Ltd.