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**Machine tools — Safety — Electrical
discharge machines**

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In the event of any doubts arising as to the contents,
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Foreword

This Japanese Industrial Standard has been revised by the Minister of Health, Labour and Welfare and the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Machine Tool Builders' Association (JMTBA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS B 6032** : 2016), which has been technically revised.

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Machine tools — Safety — Electrical discharge machines

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 28881** : 2022, Edition 2, with some modifications of the technical contents to conform to the Fire Prevention Ordinance, etc. in Japan.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

This Standard is a type-C standard (machinery safety standard) specified in **JIS B 9700**.

When requirements of this type-C standard are different from those which are stated in type-A (basic safety standards) or -B standards (generic safety standards), the requirements of this type-C standard take precedence over the requirements of other standards for machines that have been designed and built according to the requirements of this Standard.

The hazards related to EDM equipment and EDM systems not specified in this Standard shall be in accordance with **JIS B 9700** : 2013.

This Standard indicates the requirements for designers, manufacturers, suppliers and importers of machines, and also includes a list of items intended to be provided by the manufacturer to the user.

1 Scope

This Standard specifies safety requirements and/or protective measures applicable to EDM equipment and EDM systems intended to be adopted by persons undertaking their design, construction, installation and/or supply, such as:

- manually controlled EDM die sinking or EDM drilling machines;
- numerically controlled EDM die sinking or EDM drilling machines; and
- numerically controlled EDM wire cutting machines.

This Standard also includes information to be provided by the manufacturer to the user.

This Standard is not applicable to arc eroding and electro-chemical machining equipment.

This Standard deals with all significant hazards, hazardous situations and hazardous events relevant to EDM equipment and EDM systems, where they are used as intended and under conditions of reasonably foreseeable misuse, including their transport, installation, setting, maintenance, repair and dismantling for removal or disposal, in normal working environments in non-explosive atmospheres (see Clause 4).