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(JFMA/JSA)

**Machine tools safety — Presses — Part 2:
Safety requirements for mechanical
presses**

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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	2
3 Terms and definitions	3
4 List of significant hazards	4
5 Safety requirements and/or measures	4
5.1 General	4
5.2 Basic design considerations	5
5.3 Mechanical hazards in the tools area	8
5.4 Control and monitoring system	10
5.5 Tools-setting, trial strokes, maintenance and lubrication	32
5.6 Mechanical hazards — Other	34
5.7 Slips, trips and falls	34
5.8 Protection against other hazards	34
6 Verification of the safety requirements and/or measures	35
7 Information for use	38
7.1 General	38
7.2 Marking	39
7.3 Warnings	39
7.4 Instruction handbook	39
7.5 Stroke indication means	39
Annex A (informative) Significant hazards, hazardous situations and protective measures	41
Annex B (normative) Calculation of minimum distances	42
Annex C (informative) The setting of the rotary cam arrangement	46
Annex D (informative) Determination of the stopping time t_2 for Group 1 presses	55
Annex JA (informative) Comparison table between JIS and corresponding International Standard	59

Foreword

This Japanese Industrial Standard has been established by the Minister of Health, Labour and Welfare and the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Forming Machinery Association (JFMA) and Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act. **JIS B 6411** series including this Standard replaces **JIS B 6410** : 2009, which has been withdrawn.

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JIS B 6411 series consists of the following 3 parts under the general title *Machine tools safety — Presses —*:

Part 1: General safety requirements

Part 2: Safety requirements for mechanical presses

Part 3: Safety requirements for hydraulic presses

Machine tools safety — Presses — Part 2: Safety requirements for mechanical presses

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 16092-2 : 2019**, Edition 1, with some modifications of the technical contents due to the compliance with the structural code for powered press machines 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 as stated in **JIS B 9700**.

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

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in Scope of this Standard.

This Standard is intended to be applied with **JIS B 6411-1**.

1 Scope

This Standard, in addition to **JIS B 6411-1**, specifies technical safety requirements and measures to be adopted by persons undertaking the design, manufacture and supply of the following groups of mechanical presses and mechanical press production systems:

- Group 1 : Presses with a part revolution clutch(es);
- Group 2 : with a servo drive system (Mechanical servo presses).

NOTE 1 Requirements in this Standard are essentially applicable to both groups of the mechanical press. If a requirement applies to only one group, then the group is specified.

NOTE 2 Other types of motorized drive systems provide similar functionalities to what is commonly called “servo drives” or “servo motors”, and as such their use is considered the same within the terms used in this Standard (e.g. variable frequency drive systems).

The presses covered by this Standard range in size from small high-speed machines with a single operator producing small workpieces to large relatively slow-speed machines with several operators and large complex workpieces.

This Standard deals with all significant hazards relevant to mechanical presses and ancillary devices (e.g. moving die cushions, work-piece ejectors, feeding and transfer systems) which are integral to the machine, when they are used as intended and under