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(JSMA/JSA)

**Coil springs—Part 3: Expression
of the specification on helical
extension springs**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by 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 Spring Manufacturers Association (JSMA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently **JIS B 2704**:2000 was withdrawn and partially replaced with this Standard.

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JIS B 2704 consists of the following 3 parts under the general title “*Coil springs*”:

Part 1: Basic calculation methods on helical compression and extension springs

Part 2: Expression of the specification on helical compression springs

Part 3: Expression of the specification on helical extension springs

Coil springs—Part 3: Expression of the specification on helical extension springs

1 Scope

This Japanese Industrial Standard specifies the expression of the specification on helical extension springs (hereafter referred to as “springs”), such as of the material, configuration, spring characteristics and dimensions in accordance with **JIS B 2704-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 0004 *Technical representation of springs*

JIS B 0103 *Glossary of terms used in springs*

JIS B 2704-1 *Coil springs—Part 1: Basic calculation methods on helical compression and extension springs*

JIS G 0558 *Steels—Determination of depth of decarburization*

JIS Z 2243 *Brinell hardness test—Test method*

JIS Z 2320-1 *Non-destructive testing—Magnetic particle testing—Part 1: General principles*

JIS Z 2320-2 *Non-destructive testing—Magnetic particle testing—Part 2: Detection media*

JIS Z 2320-3 *Non-destructive testing—Magnetic particle testing—Part 3: Equipment*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in **JIS B 0103** apply.

4 Material of springs and material diameter

Material of springs and material diameter shall be as specified in clause 4 in **JIS B 2704-1**.

5 Shape of springs

Examples of shapes of hooks and hook ends of springs are shown in figure 1.