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(JSMA/JSA)

**Coil springs—Part 2: Expression of  
the specification**

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## Foreword

This Japanese Industrial Standard has been revised by 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 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 applicable to the case of revision by the provision of Article 14. Consequently, **JIS B 2704-2:2009** is replaced with this Standard, and **JIS B 2704-3:2009** and **JIS B 2709-2:2009** has been withdrawn and replaced with this Standard.

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**JIS B 2704** series consists of the following 2 parts under the general title “*Coil springs*”:

*Part 1: Basic calculation methods*

*Part 2: Expression of the specification*

## Coil springs—Part 2: Expression of the specification

### 1 Scope

This Japanese Industrial Standard specifies the methods for the expression of specifications on the material, shape, spring characteristics and dimensions of helical compression springs, helical extension springs and helical torsion springs based on the basic calculations specified in **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 *Springs—Vocabulary*

JIS B 2704-1 *Coil springs—Part 1: Basic calculation methods*

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

JIS Z 2243-1 *Brinell hardness test—Part 1: 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*

JIS Z 8401 *Guide to the rounding of numbers*

### 3 Terms, definitions and symbols

For the purpose of this Standard, the terms and definitions given in **JIS B 0103** apply. The symbols shall be as specified in **5.2** of **JIS B 2704-1**.

### 4 Materials of springs and diameter of materials

Materials of springs and the diameter of materials specified in **JIS B 2704-1** apply.

### 5 Helical compression springs

#### 5.1 Shape of helical compression springs

Examples of the shape of coil ends of helical compression springs (hereafter referred to as compression springs) are given in Figure 1.