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**Metallic materials — Charpy V-notch
pendulum impact test — Instrumented
testing machine**

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Contents

		Page
Introduction	1
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
3.1	Characteristic values of force	2
3.2	Characteristic values of displacement	2
3.3	Characteristic values of impact energy	3
4	Symbols	3
5	Principle	4
6	Apparatus	4
6.1	Instrumented Charpy pendulum impact testing machine	4
6.2	Instrumentation and calibration	5
7	Test piece	7
8	Test procedure	7
9	Expression of results	7
9.1	General	7
9.2	Evaluation of the force-displacement curve	8
9.3	Determination of the characteristic values of force	8
9.4	Determination of the characteristic values of displacement	9
9.5	Determination of the characteristic values of impact energy	11
10	Test report	11
Annex A (informative)	Examples of instrumented strikers	13
Annex B (informative)	Example of support block for the calibration of a 2 mm striker	14
Annex C (informative)	Formulae for the estimation of the proportion of ductile fracture surface	15
Annex D (normative)	Instrumented Charpy V-notch pendulum impact testing of miniature test pieces	16
Annex JA (informative)	Comparison table between JIS and corresponding International Standard	18

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 Testing Machine Association (JTM)/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 7755** : 2011), which has been technically revised.

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Metallic materials — Charpy V-notch pendulum impact test — Instrumented testing machine

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 14556 : 2023**, Edition 3, with some technical and structural modifications.

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

1 Scope

This Standard specifies a method of instrumented Charpy V-notch pendulum impact testing on metallic materials and the requirements concerning the measurement and recording equipment.

With respect to the Charpy pendulum impact test using the instrumented testing machine, this test provides further information on the fracture behaviour of the test piece under impact testing conditions. The results of instrumented Charpy pendulum impact test analyses are not directly transferable to structures or components and shall not be directly used in design calculations or safety assessments.

NOTE 1 General information about instrumented impact testing can be found in References [1] to [5].

Herein, instrumentation in a Charpy pendulum impact testing machine is defined as the capability to record the force and displacement during the impact.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 14556 : 2023 *Metallic materials — Charpy V-notch pendulum impact test — Instrumented test method* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

Part or all of the provisions of the following standards, 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 7722 *Metallic materials — Charpy pendulum impact test — Verification of testing machines*

NOTE Normative reference in the corresponding International Standard: ISO