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Threading tools—Vocabulary
Part 3 : Chaser

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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 of establishing a Japanese Industrial Standard from The Japan Small Cutting Tool's Association (JSCTA)/the Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. By this establishment, **JIS B 0176 : 1996** has been withdrawn and replaced with **JIS B 0176 : 2002** Parts 1 to 4.

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JIS B 0176 consists of the following four parts with the general title *Threading tools—Vocabulary*.

Part 1 : Taps

Part 2 : Thread cutting dies

Part 3 : Chaser

Part 4 : Thread rolling dies

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Threading tools—Vocabulary

Part 3 : Chaser

1 Scope This part of **JIS B 0176** specifies terms and definitions related to the chaser⁽¹⁾ to be used mainly for metal workings in general.

Note (1) The generic name of multi-threads cutting edged tools.

2 Classification The terms shall be classified as given in the following:

a) Types of chaser

- 1) Classification according to cutting part materials and surface treatment
- 2) Classification according to structure
- 3) Classification according to functions or uses
 - 3.1) Classification according to manufacturing methods
 - 3.2) Classification according to uses
 - 3.3) Classification according to types of screw threads
 - 3.4) Classification according to feature of cutting parts

b) Elements of chaser

c) Angles of chaser

d) Accuracy of chaser

e) Damage on cutting parts of chaser

f) Chaser in general

3 Classification of chaser The names expressing the types of the chaser shall be read combining the terms corresponding to the order of type number **2 a) 1)** to **2 a) 3) 3.4)**. However, the manufacturing methods shall be omitted, and the classification according to the type of screw thread shall follow the classification of cutting part material and surface treatment. In addition, the type of screw thread may be changed to the designation of screw threads (see Table 1).

Table 1 Examples of classification of chaser

Classification	Cutting part material and surface treatment	Type of screw threads	Structure	Use	Feature of cutting part
Die head chasers for alloy tool steel metric coarse threads	Alloy tool steel	For metric coarse threads	(Solid)	Die head	(Straight cutting edge)
Radial chasers for metric fine threads	(High speed tool steel)	For metric fine threads	(Solid)	Radial	(Straight cutting edge)
Titan-nitride coating tangential chasers for parallel pipe threads	(High speed tool steel) Titan-nitride coating	For parallel pipe threads	(Solid)	Tangential	(Straight cutting edge)
Cemented carbide PT1/8 tipped tool pipe thread chasers	Cemented carbide (alloy)	PT1/8	Tipped tool	Pipe threads	(Internal round cutting edge)
Collapsible tap chaser for unified fine screw threads	(High speed tool steel)	For unified fine screw threads	(Solid)	Collapsible tap	(External round cutting edge)

Remarks : Those in parentheses may be omitted.

4 Terms and definitions The terms and the definitions of chaser shall be in accordance with the following:

Further, quantitative symbols, units and English equivalents are shown for information only.

Remarks 1 Those in parentheses in the term column may be omitted.

- 2 The terms given in bold types in the definitions are those specified in this part of **JIS B 0176**.
- 3 The figures shown are only examples, and are not to specify shapes nor dimensions.

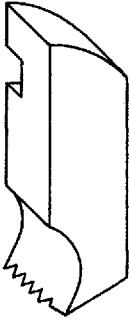
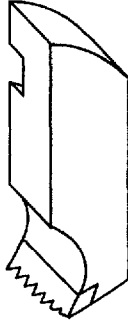
Further, the numerals in parentheses in the figures show term number of this part of **JIS B 0176**.

a) Types of chaser

1) Classification according to cutting part materials and surface treatment

No.	Term (Japanese character)	Reading	Definition	English equivalent (informative)
1101	合金工具鋼チエーザ	GÔKIN KÔGUKÔ TYÊZA	The chaser using alloy tool steel for the material of the cutting parts .	alloy tool steel chaser
1102	高速度(工具)鋼チエーザ	KÔSOKUDO (KÔGU) KÔ TYÊZA	The chaser using the high speed tool steel for the material of the cutting parts .	high speed (tool) steel chaser
1103	超硬(合金)チエーザ	TYÔKÔ (GÔKIN) TYÊZA	The chaser using cemented carbide alloy (sintered substance of tungsten carbide as the main body) for the material of the cutting parts .	cemented carbide chaser, carbide chaser
1104	コーティングチエーザ	KÔTINGU TYÊZA	The chaser using tool materials being adhered on the surface of material of the cutting part chemically or physically in single layer or multi-layer, such as titanium nitride (titan nitride), titanium carbide (titan carbide), etc. Remarks : There are high speed steel titan nitride coated chaser, cemented titan carbide coated chaser, etc.	coated chaser
1105	窒化处理チエーザ	TIKKA SYORI TYÊZA	The chaser using tool material with nitriding treatment on the surface for the material of the cutting parts .	nitrided chaser
1106	酸化処理チエーザ	SANKA SYORI TYÊZA	The chaser using tool material with oxidation treatment on the surface for the material of the cutting parts .	oxidized chaser
1107	窒化酸化处理チエーザ	TIKKA SANKA SYORI TYÊZA	The chaser using tool material with nitriding treatment and oxidation treatment applied to the surface for the material of the cutting parts .	nitrided and oxidized chaser

2) Classification according to structure

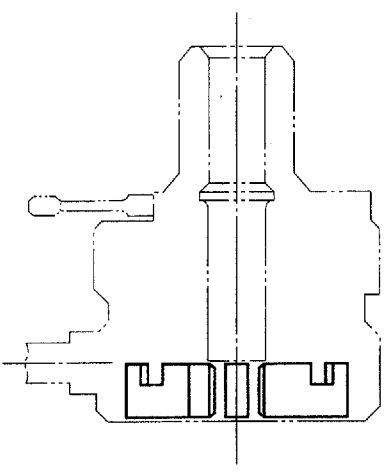
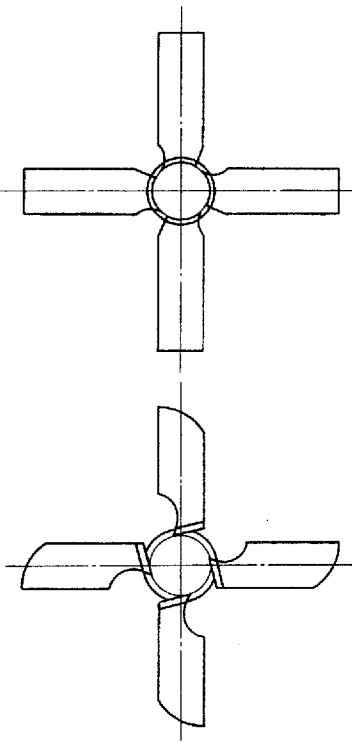
No.	Term (Japanese character)	Reading	Definition	English equivalent (informative)
1201	むくチエーザ	MUKU TYÊZA	The chaser of which the cutting part and the body are made of the same material and are integrated. 	solid chaser
1202	付刃チエーザ	TUKEHA TYÊZA	The chaser of which the material of cutting part has been welded or brazed to the body. 	tipped chaser

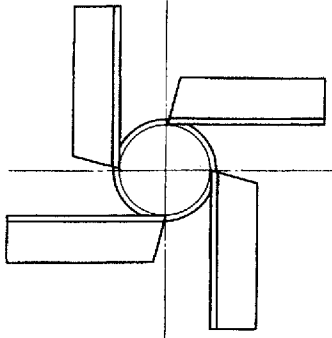
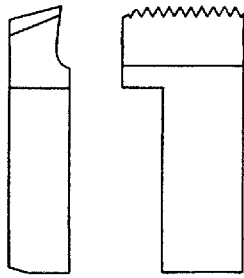
3) Classification according to functions or uses

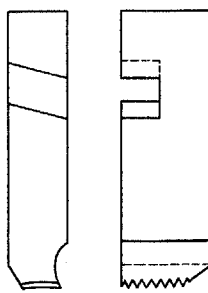
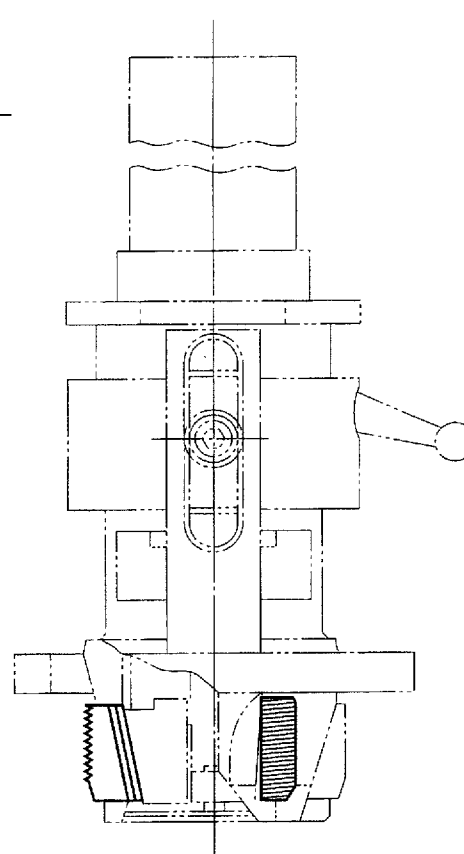
3.1) Classification according to manufacturing methods

No.	Term (Japanese character)	Reading	Definition	English equivalent (informative)
1301	研削(仕上げ)チエーザ	KENSAKU (SIAGE) TYÊZA	The chaser of which the thread part has been finished by grinding.	ground (thread) chaser
1302	切削(仕上げ)チエーザ	SESSAKU (SIAGE) TYÊZA	The chaser of which the thread part has been finished by cutting.	cut (thread) chaser

3.2) Classification according to uses

No.	Term (Japanese character)	Reading	Definition	English equivalent (informative)
1311	ダイヘッドチエーザ	DAIHEDDO TYÊZA	The chaser to be used as an assembly being attached to the die head. 	die head chaser
1312	ラジアルチエーザ	RAZIARU TYÊZA	The chaser of which the direction is radial with respect to the workpiece. Remarks : The Coventry type is a representative one. 	radial chaser

No.	Term (Japanese character)	Reading	Definition	English equivalent (informative)
1313	タンゼンシャルチエーザ	TANZENSHYARU TYÊZA	The chaser of which the direction is tangential with respect to the workpiece. Remarks : The Landis type is a representative one. 	tangential chaser
1314	プロジェクトチエーザ	PUROZYEKUTO TYÊZA	Die head chasers whose chamfer is protruded from the up- per face. 	projection type chaser

No.	Term (Japanese character)	Reading	Definition	English equivalent (informative)
1315	パイプねじチエーザ	PAIPU NEZI TYÊZA	A type of radial chasers, used mainly for the thread chasing of pipe threads. Remarks : The Oster type is a representative one. 	pipe thread chaser
1316	ダイスチエーザ	DAISU TYÊZA	The chasers used for the inserted chaser die (see JIS B 0176-2, No. 1203).	die chaser
1317	コラプシブルタップ チエーザ	KORAPUSIBURU TAPPU TYÊZA	The chasers used for the collapsible taps. 	collapsible tap chaser
1318	タップチエーザ	TAPPU TYÊZA	The chasers used for the inserted chaser taps (see JIS B 0176-1, No. 1205).	tap chaser