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Tapered end mills for trapeziform runner with parallel shanks

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Tapered end mills for trapeziform runner with parallel shanks

1 Scope This Japanese Industrial Standard specifies the tapered end mills for trapeziform runner with parallel shanks of 2 mm or over to 12 mm or under in small end outside diameter and 7°, 10°, 12° and 15° in half included angle to be used mainly for processing the metal mould runners ⁽¹⁾ (hereafter referred to as “end mills”).

Note ⁽¹⁾ The runners to be used for plastic moulds and die cast moulds.

Remarks : The standards cited in this Standard are given in the following:

JIS B 0021 *Indications of geometrical tolerances on drawings*

JIS B 0172 *Glossary of terms for milling cutters*

JIS B 0401 *System of limits and fits*

JIS B 0405 *General tolerances – Part 1 : Tolerances for linear and angular dimensions without individual tolerance indications*

JIS B 0601 *Surface roughness – Definitions and designation*

JIS B 0659 *Roughness comparison specimens*

JIS B 1011 *Centre holes*

JIS B 1501 *Steel balls for ball bearings*

JIS B 4005 *Milling cutters – Parallel shanks – Dimensional characteristics*

JIS B 7503 *Dial gauges*

JIS B 7513 *Precision surface plates*

JIS B 7540 *V-blocks*

JIS B 7725 *Vickers hardness testing machines*

JIS B 7726 *Rockwell and Rockwell superficial hardness testing machines*

JIS G 4051 *Carbon steels for machine structural use*

JIS G 4403 *High speed tool steels*

JIS Z 2244 *Method of Vickers hardness test*

JIS Z 2245 *Method of Rockwell and Rockwell superficial hardness test*

2 Definitions The definitions of main terms to be used in this Standard shall be in accordance with JIS B 0172.

3 Types The end mills shall be classified into 2 types, namely, tapered end mills for trapeziform runner with (plain) parallel shanks ⁽²⁾ and tapered end mills for trapeziform runner with flattened parallel shanks, according to the shape of shank. The shape of end cutting edge shall be of the square end cutting edge.

Note ⁽²⁾ If it is not ambiguous, the letters in () may be omitted.