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JIS

JAPANESE INDUSTRIAL STANDARD

Master Cylindrical Gears

JIS B 1751 —1976

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JAPANESE INDUSTRIAL STANDARD J I S

Master Cylindrical Gears

B 1751-1976
(Reaffirmed: 1985)

1. Scope

This Japanese Industrial Standard specifies master cylindrical involute gears for inspecting gears with transverse modules (m) of 0.2 to 10 having the tooth profile specified in JIS B 1701, hereinafter referred to as the "master gears".

2. Grades

Master gears shall be classified into Grades M 00, M 0, and M 1 according to their precision.

3. Quality

(1) Appearance Master gears shall be free from defects such as streak-flaws, crocks, burrs, and rust in the respective parts, be well-finished, and carry clear markings.

(2) Precision The precision values for the respective grades of master gears shall be as specified in Tables 1 to 8.

Table 1. Tolerances on Bore Diameter

Unit: μm

Item	Grade	Division by bore diameters	
		12 mm to 32 mm incl.	Over 32 mm to 60 mm incl.
Bore diameter (d_1)	M 00 M 0 M 1	+ 3 0	+ 5 0

Applicable Standards:

JIS B 1701-Involute Gear Tooth Profile and Dimensions

JIS B 1752-Methods of Measurement for Spur and Helical Gears

JIS G 4105-Chromium Molybdenum Steels

JIS G 4404-Alloy Tool Steels

JIS G 4805-High Carbon Chromium Bearing Steels

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