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JIS

JAPANESE INDUSTRIAL STANDARD

Wing nuts

JIS B 1185–1994

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In the event of any doubt arising,
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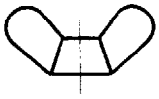
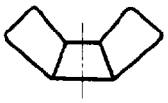
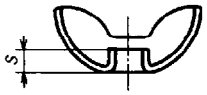
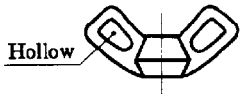
Wing nuts B 1185-1994

1. Scope This Japanese Industrial Standard specifies the metallic wing nuts (hereafter referred to as "nut"), for general use.

Remarks: The standards cited in this Standard are shown in Attached Table 5.

2. Types The nuts shall be classified into 4 types as given in Table 1, according to shapes and manufacturing methods.

Table 1. Types

Type		Shape	Manufacturing method
Type 1		 Wing ends shall be formed into semicircular shape.	An optional method may be employed.
Type 2		 Wing ends shall be formed into square shape.	
Type 3	High shape	 These shall be subclassified into the high shape and the low shape according to lengths of thread part (s).	The press working of sheets shall be employed.
	Low shape		
Type 4		 Hollows on wing parts may not be provided.	The die casting shall be employed.

3. Proof torque The nuts when tested in accordance with the specification of 9., shall neither be broken at or under the proof torque of Table 2 nor deform remarkably on wing parts, and in addition, after the proof torque was applied, the nut shall be capable of being disengaged from the bolt with bare fingers.

Table 2. Proof torque

Unit: N·m

Designation of screw thread (*d*) \ Type / Division of proof torque	Type 1 and type 2		Type 3 high shape	Type 3 low shape	Type 4
	A	B	—	—	—
M 2	0.20	0.15	—	—	—
M 2.2	0.29	0.20	—	—	—
(M 2.3)	0.29	0.20	—	—	—
M 2.5	0.39	0.29	—	—	—
(M 2.6)	0.39	0.29	—	—	—
M 3	0.69	0.49	0.49	0.29	0.49
M 4	1.57	1.08	1.08	0.59	1.08
M 5	3.14	2.16	2.16	1.08	2.16
M 6	5.39	3.92	3.92	1.96	3.92
M 8	12.7	8.83	8.83	4.41	8.83
M10	25.5	17.7	17.7	8.83	17.7
M12	45.1	31.4	—	—	—
(M14)	71.6	50.0	—	—	—
M16	113	78.5	—	—	—
(M18)	157	108	—	—	—
M20	216	147	—	—	—
(M22)	294	206	—	—	—
M24	382	265	—	—	—

Remarks: The proof torque A of type 1 and type 2 shall, as a rule, be applicable to those of which materials are of carbon steel, malleable cast iron, stainless steel, etc., and the proof torque B to those of cast iron, brass, zinc alloy, etc.

4. Shapes and dimensions The shapes and dimensions of the nuts shall conform to Attached Tables 1 to 4.

5. Screw threads The screw threads of the nuts shall be the metric coarse screw threads specified in the main text of JIS B 0205, and their tolerance class shall be 7H (6H for the screw threads of under M3) specified in the main text of JIS B 0209. However, for the time being, the quality 3 (quality 2 for under M3) in the Annex 1 of JIS B 0209 shall be allowed to be used.