

JIS

JAPANESE INDUSTRIAL STANDARD

**Test Methods for Performance
and Accuracy of Single Spindle
Wood Boring Machines**

JIS B 6517—1989

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

JAPANESE INDUSTRIAL STANDARD

J I S

Test Methods for Performance and Accuracy
of Single Spindle Wood Boring Machines

B 6517-1989

1. Scope

This Japanese Industrial Standard specifies the test methods related to the functions, running performances and rigidities and the methods of inspection on the static accuracies and machining accuracies for the wood boring machines specifies in the No. 6511 of JIS B 0114 of 600 mm or under in swing and 500 mm or under in the maximum distance from the spindle end to the table face.

Remark: The units and numerical values given in { } in this Standard are in accordance with the conventional units, and are appended for informative reference.

2. Methods for Functional Tests

The functional test for the wood boring machines shall be in accordance with Table 1.

Applicable Standards:

JIS B 0114-Glossary of Terms for Wood Working Machinery

JIS B 6507-General Code of Safety for Wood Working Machinery

JIS B 6521-Methods of Measurement for Noise Emitted by Wood Working Machinery

Corresponding International Standard:

ISO 7945-Woodworking machines - Single spindle boring machines - Nomenclature and acceptance conditions

Reference Standards:

JIS B 6501-Test Code for Performance and Accuracy of Wood Working Machinery

JIS Z 8203-SI Units and the Use of their Multiples and of Certain other Units



Documents

Document Sharing Hub

Table 1. Functional Tests

No.	Test item	Test method
1	Electric apparatus	Before and after the running test, examine the insulating condition once each.
2	Start, stop and running operation of spindle	At an appropriate spindle speed of rotation, carry out 10 times of start and stop continuously to examine the smoothness and reliability of actions.
3	Changing operation of spindle speed of rotation	Change the spindle speed of rotation over entire marked speeds of rotation to examine the smoothness of the actions and the reliability of indications of the operating device.
4	Changing operation of feeds	Change the feeds over entire marked feeds to examine the smoothness of workings and the reliability of indications of the operating device.
5	Operation of manual feed	Using the manual feed handle, examine the smoothness and the uniformity of workings throughout the overall length of the motion, and rotate the micromove feed handle several times to examine the smoothness and uniformity.
6	Ascending and descending and clamping operations of spindle head and operation of automatic stopping device	Allow the spindle head to ascend and descend to examine the smoothness and uniformity of workings throughout overall length of the motion, and examine the reliability of clamping and the smoothness of the workings of the clamping device, at the both ends and centre of the motion. In addition, examine the smoothness and reliability of the workings of the automatic stopping device.
7	Ascending and descending and clamping operations of table	Ascend and descend the table to examine the smoothness and uniformity of workings over the entire length of the motion. In addition, at the both ends and centre of movement, examine the reliability of clamping and the smoothness of workings of clamping device.
8	Mounting and dismounting of tool	Examine the reliability and smoothness of mounting and dismounting of tool and clamping screw.
9	Mounting and dismounting of workpiece	Examine the reliability and smoothness of mounting and dismounting of workpiece.
10	Safety device	Examine the reliability of safety functions for workers and protecting functions for machine (see JIS B 6507).
11	Lubricating device	Examine the reliability of such functions as oil tightness and proper distribution of quantity of oil.