

JIS

JAPANESE INDUSTRIAL STANDARD

Test methods for performance and accuracy of bandsaw sharpening machines

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1. Scope

This Japanese Industrial Standard specifies the test methods related to the functions, running performances and rigidities and the inspection methods on the static accuracies and machining accuracies of the bandsaw sharpening machine of 305 mm or under in the effective opening of saw supports specified in JIS B 0114.

Remarks 1. The applicable Standards to this Standard are as given in the following:

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

2. The units and numerical values given in { } in this Standard are based on the traditional unit system and are appended for informative reference.

2. Methods for Functional Tests

The functional tests on the bandsaw sharpening machine shall be in accordance with Table 1.

Reference Standards:

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

JIS Z 8203-S1 Units and the Use of their Multiples and of Certain other Units

Table 1. Functional Test

No.	Test item	Test method
1	Electric equipment	Before and after the running test, examine the insulating condition once each.
2	Start, stop and running operation of grinding wheel spindle	At an appropriate speed of rotation of the grinding wheel spindle, carry out 10 times of start and stop repeatedly and examine the smoothness and reliability of actions.
3	Changing operation of speed of rotation of grinding wheel spindle	Change the speed of rotation of the grinding wheel spindle on overall marked speeds of rotation and examine the smoothness of actions and reliability of indications of the operating apparatus.
4	Lifting and lowering operations of grinding wheel spindle	Allow the grinding wheel spindle to lift and lower and examine the reliability and uniformity of actions throughout the overall length of motions. In addition, examine the smoothness and reliability of actions of the turning out device and grinding quantity regulating device of the grinding wheel spindle.
5	Operation of band saw feed-ing device	Allow the band saw feed claw to travel and examine the reliability and uniformity of actions throughout overall length of the motion. In addition, examine the smoothness and reliability of actions of the regulating device of feed positions of band saw.
6	Operations of band saw pressing device and band saw supporting device	Operate the band saw pressing device and the band saw supporting device to examine the smoothness and reliability of actions.
7	Mounting and dismounting of grinding wheel	Examine the smoothness and reliability of the mounting and dismounting of the grinding wheel and the clamping screws.
8	Safety device	Examine the reliability of the safety functions for the worker and protective function for the machine (see JIS B 6507).
9	Lubricating equipment	Examine the reliability of such functions as the oil tightness and proper distribution of oil quantity.
10	Oil hydraulic equipment	Examine the reliability of such functions as the oil tightness and pressure regulation.
11	Pneumatic equipment	Examine the reliability of such functions as the air tightness and pressure regulation.
12	Accessories	Examine the reliability of the functions.

Remarks: For a bandsaw sharpening machine which is not provided with the said function, the corresponding test item to this in Table 1 is omitted.