

JIS

JAPANESE INDUSTRIAL STANDARD

**Test methods for
performance and accuracy
of band scroll saws**

JIS B 6519—1990

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

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Test methods for performance and
accuracy of band scroll saws

. B 6519-1990

1. Scope

This Japanese Industrial Standard specifies test methods for function, running performance and rigidity of band scroll saws specified in JIS B 0114 of not more than 1000 mm in diameter of saw wheel as well as inspection methods of static accuracy and working accuracy.

Remarks 1. Applicable Standards to this Standard are shown 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 Method of Measurement for Noise Emitted by Wood Working Machinery

2. The corresponding International Standard corresponding to this Standard is shown in the following:

ISO 7007 Woodworking machines - Table bandsawing machines
- Nomenclature and acceptance conditions

3. In this Standard the units and numerical values shown in { } are in accordance with traditional units and are appended for informative reference.

2. Test Methods for Function

The tests for function of band scroll saws are in accordance with Table 1.

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

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Table 1. Test for Function

Number	Test item	Test method
1	Electric apparatus	Carry out the test for insulation condition each once before and after running test.
2	Regulating operation of band scroll saw	Stretch the band scroll saw, rotate the saw wheel with hand in positive and reverse direction, and test the smoothness and security of apparatus to regulate the tensile force and inlet and outlet of band scroll saw.
3	Operation of tension apparatus of band scroll saw	Test the security of markings of smoothness of function, sensitivity and degree of tension.
4	Operation of trap apparatus	Test the smoothness and security of function of trap apparatus.
5	Operation of inclination apparatus of upper part saw wheel	Test the security of regulating function of band scroll saw teeth inlet and outlet by starting the saw wheel ⁽¹⁾ .
6	Operation of starting, stopping of saw wheel and braking apparatus	Attach the band scroll saw, repeat the operation of starting and stopping several times, actuate the braking apparatus and test the smoothness and security of the actuation.
7	Converting operation of main spindle rotary speed	Relating to all rotary speeds of marking, convert the main spindle rotary speed and test the smoothness of actuation and security of indication of operation apparatus.
8	Operation of specified regulation	Test the smoothness and security of regulating apparatus of squareness to table and parallelism to feed direction as well as the drawing-width regulating apparatus.
9	Safety device	Test the safety function to the worker and security of machine-protective function (Refer to JIS B 6507).
10	Lubricating device	Test the security of function such as oiltightness, suitable distribution of oil quantity, etc.
11	Accessories	Test the security of function.

Note ⁽¹⁾ Use the band scroll saw of good working finish.

Remark: As to the band scroll saw having no such function, the test item corresponding thereto in Table 1 is omitted.

3. Test Method for Running

3.1 Test Method for No-load Running Continue the running, after the bearing temperature has been stabilized, measure relating to each item specified in Record Format 1 of Table 2, record it as well as observe that there is no abnormal vibration by feeling.

Further, the measurement of noise shall be in accordance with JIS B 6521.