

JIS

JAPANESE INDUSTRIAL STANDARD

**Test Methods for
Performance and Accuracy of
Rip Saws**

JIS B 6512—1989

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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 Rip Saws

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1. Scope

This Japanese Industrial Standard specifies test method related to the function, running performance and rigidity, and the inspection methods on static accuracy and machining accuracy of the rip saws specified in No. 6141 in JIS B 0114 of 200 mm or over to 560 mm or under in diameter of circular saws to be used for wood working.

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

2. Methods for Functional Tests

The functional tests of the rip saws shall be in accordance with Table 1.

Table 1. Functional Tests

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 main spindle	At an appropriate main 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 main spindle speed of rotation	Change the main spindle speed of rotation over entire marked speeds of rotation to examine the smoothness of actions and the reliability of indications of the operating device.
4	Start, stop and running operation of feeding device of material	At an appropriate feed speed, carry out 10 times of start and stop continuously to examine the smoothness and reliability of actions.
5	Changing operation of feed speed	Carry out speed change, over entire marked feed speeds and on 3 feed speeds of the lowest, intermediate and highest for that of stepless variable speed system, to examine the smoothness of actions and reliability of indications of the operating device.

Applicable Standards and Reference Standards: See page 10.

Table 1 (Continued)

No.	Test item	Test method
6	Manual feed operation	By using the manual feed handle, examine the smoothness and uniformity of actions throughout overall length of motions, and further rotate the sensitive feed handle several times to examine the smoothness and uniformity.
7	Ascending and descending and clamping operations and automatic stopping operation of main spindle	Ascend and descend the main spindle to examine the smoothness and uniformity of actions throughout the overall length of motion, and to examine the reliability of clamping and smoothness of actions of the clamping device at both ends and centre of motions. In addition, examine the smoothness and reliability of actions of the automatic stopping device at the both ends of motions.
8	Attaching and detaching of circular saw	Examine the reliability and smoothness of the attaching, detaching and clamping screw of circular saw.
9	Pressing device	Examine the smoothness and reliability of function.
10	Safety device	Examine the reliability of safety functions for operators and protective functions for machine [see JIS B 6507 and JIS B 6600].
11	Lubricating device	Examine the reliability of such functions as oil tightness and proper distribution of oil quantity.
12	Oil hydraulic pressure equipment	Examine the reliability of such functions as oil tightness and pressure regulation.
13	Pneumatic pressure equipment	Examine the reliability of such functions as air tightness and pressure regulation.
14	Accessories	Examine the reliability of functions.

Remark: For a rip saw which is not provided with any function concerned, the test items corresponding to these in Table 1 are to be omitted.

3. Methods for Running Tests