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JAPANESE INDUSTRIAL STANDARD

Safety Standards for Construction of Band Resaws with Feed Rollers

JIS B 6606—1983

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Safety Standards for Construction of
Band Resaws with Feed Rollers

B 6606-1983

1. Scope

This Japanese Industrial Standard specifies the construction for safety, safety devices, instruction manuals, inspection data sheets and marking on the band resaws with automatic feed rollers⁽¹⁾, hereinafter referred to as the "band resaws").

Note (1) Refer to JIS B 0114.

2. Definitions

For the purposes of this Standard the following definitions apply:

- (1) driving saw wheel Of the two saw wheels composing the band resaw, the one saw wheel which is driven by a motor.
- (2) cutting side Of the two straight parts of a saw blade strained between the two saw wheels composing the band resaw, the one side which cuts workpieces.
- (3) suppressing device A device which suppresses the transverse vibration of saw blades. This is composed of suppressing bars, suppressing-bar holders, suppressing arms and others.
- (4) tensile force A tensile force exerted to the saw blade through the two saw wheels composing a band resaw.
- (5) concave space That space between the frame holding the top saw wheel and the straight part on the cutting side of a saw blade.

Applicable Standards:

JIS B 0114-Glossary of Terms for Wood Working Machinery

JIS G 4051-Carbon Steels for Machine Structural Use

JIS G 5501-Gray Iron Castings

Reference Standards:

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

JIS B 6509-Test Code for Performance and Accuracy of Band Saw Machines
and Feed Carriages

3. Construction for Safety

3.1 Starting Switch The starting switch (this means the switch for opening and closing the power supply circuit.) shall be as given below:

- (1) The starting switch shall be so located that the operator can operate the switch without leaving his working position.

In addition, as far as the starting of the body of band resaws is concerned, the operator shall be able to check the behavior of the saw blade, irrespective of his working position, and furthermore, to operate the switch at the position where he can adjust the saw blade condition.

- (2) The starting switch shall be easy to operate, and there shall be no possibility that the band resaw suddenly starts due to contact, vibration and others.

3.2 Restart Preventing Device The band resaw shall be equipped with a device which automatically keeps the power supply circuit in open condition at the time of its interruption or in the case where the electric source circuit for driving is opened, and which, after the restoration of the power supply service or in the case where the electric source circuit for driving is closed, automatically prevents the body of the band resaw and the other devices from restarting.

3.3 Saw Wheel The saw wheels shall be as given below:

- (1) The saw wheels shall have sufficient strength against the force exerted by saw blades such as the tensile force, centrifugal force and braking force.
- (2) The materials of the driving saw wheel shall be FC 20 of JIS G 5501 or those having equivalent or superior mechanical properties.
- (3) The materials of the saw wheel shafts shall be S 45 C of JIS G 4051 or those having the mechanical properties equivalent or superior.

3.4 Braking Device of Driving Saw Wheel The braking device of the driving saw wheel shall be in accordance with the following.

- (1) The driving saw wheel shall be equipped with the braking device which is capable of braking its motion effectively.
- (2) The braking device shall be so constructed that it can easily be operated and can be adjusted so as to function effectively.
- (3) The braking device operated by hand or foot shall conform to the following items:
 - (a) The operating direction shall be towards the non-cutting side.