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JAPANESE INDUSTRIAL STANDARD

**Safety Standards for Construction
of Band Saw Machines
with Feed Carriages**

JIS B 6607—1983

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Safety Standards for Construction of Band Saw
Machines with Feed Carriages

B 6607-1983

1. Scope

This Japanese Industrial Standard specifies the safety construction, safety devices, instruction manuals, inspection cards and markings for band saw machines with feed carriages⁽¹⁾, hereinafter referred to as the "band saw machine".

Note (¹) Refer to JIS B 0114.

2. Definitions

For the purposes of this Japanese Industrial Standard, the following definitions apply.

- (1) driving saw wheel Out of the two saw wheels constituting the band saw machine, that saw wheel which is driven by an electric motor.
- (2) cutting side Out of the straight line portions of a band saw which has been tensioned by the two saw wheels constituting the band saw machine, that side which cuts the work piece.
- (3) suppressing device That device which suppresses the lateral deflection of the band saw. This is composed of suppressing rods, suppressing-rod holder, suppressing arm and others.
- (4) tensioning force A tensile force given to the band saw through the two saw wheels constituting the band saw machine.
- (5) pocket That space formed between the frame which supports the upper saw wheel and the straight line part of the cutting side of the band saw.
- (6) on board driving system feed carriage The feed carriage of that system of which travelling operations are carried out on board.

Applicable Standards:

JIS B 0114-Glossary of Terms for Wood Working Machinery

JIS G 3101-Rolled Steel for General Structure

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

- (7) neutral position The position of an operating lever at which position of the feed carriage is not actuated in both directions of advance and retreat.

3. Safety Construction

3.1 Starting Switch The starting switch (this means the switch for starting and breaking of the power.) shall be in accordance with the following:

- (1) The starting switch shall be equipped on a position from which the worker can operate it without leaving the working position.
Furthermore, as far as the starting of the band saw machine body is concerned, the switch shall be that of capable of confirming, irrespective of the working position, the conditions of the band saw, as well as capable of operating at a position from which it can be adjusted.
- (2) The starting switch shall be that of capable of being operated easily, as well as not liable to be worked unexpectedly due to contact, vibration and others.

3.2 Restart Preventing Device The band saw machine shall be equipped with the device which automatically maintains the condition of "off" at time of service interruption or in the case where the electric source for driving has been made "off", and which after the restoration from service interruption or in the case where the electric source for driving has been made "on", automatically prevents the band saw machine body and feed carriage from restarting.

3.3 Saw Wheel The saw wheel shall be in accordance with the following:

- (1) The saw wheel shall be that having sufficient strength against working forces such as the tensioning force due to the band saw, centrifugal force and braking force.
- (2) The material of the driving saw wheel shall be FC 20 of JIS G 5501, or that having mechanical properties equal or superior to this.
- (3) The material of the saw-wheel shaft shall be S 45 C of JIS G 4051, or that having mechanical properties equal or superior to this.

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 that of capable of being operated easily, and be so constructed as to be capable of being adjusted so that its function always works sufficiently.
- (3) The braking device of which operating mechanism is of manual or treading shall conform to respective items of the following.