

ABSTRACT

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Centering Process and Defect Analysis on the KKBW Series Bogie Frame (Coal hauling train with 2 axles).

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(xii + 40 + Attachment)

Bogie is a driving part consisting of main components, namely, side frame, boltster, wheelset, brake rigging, suspension on coal trains. Each component also has a different size and function. The centering process on the bogie makes it easier when installing the carriage to the bogie, it is useful as part of the side frame and the bolster determines the midpoint or center. Later, wood will be given to the frame and bolts so that they do not change when the load is removed, until the carriage is installed. KKBW bogies are bogies that are used to transport coal, making bogie frames using the casting process. The length of the KKBW Bogie Frame is 2120 mm. Casting is a production process that uses a casting system. In the process of casting the KKBW bogie frame, many defects were found in the frame, including: Porosity, Metal Penetration, Drop Casting due to the casting time factor and the solution was done by adjusting the pouring of molten metal into the mold so that the molten metal could cover all sides of the mold.

Bibliography (2009-2021).