

ABSTRACT

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THE PROCESS OF MAKING A CHASIS SIDE RAIL LH FRAME AT PT. GEMALA KEMPA POWER

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(xiv + 38 + Attachment)

The vehicle body of the car functions as a protector for passengers or goods in the vehicle from exposure to wind, rain and sun heat. Car parts are divided into 2 major groups, namely the chassis and the vehicle body, the chassis is the part of the vehicle that functions as a support for the body, while the body is the part of the vehicle that is formed in such a way as a place for passengers or goods. One of the car vehicle bodies is the Frame Chasis. The function of the Chassis Frame is to carry the load of passengers and goods from the body and to handle the forces that result from braking and acceleration. This LH Side Rail Chasis Frame uses SAPH440 iron material. This material is a type of Hot Rolled steel in the form of plates, sheets and strips for use in vehicle structural applications. SAPH440 is a material class and its designation is defined in the JIS G 3113 standard. The process for making Frame Chasis Side Rail LH first prepares the material before it goes into the process. Manufacture of Frame Chasis Side Rail LH with SAPH440 iron material where the material includes Hot Rolled steel in the form of plates, sheets and strips. Then begins with the Cutting Separate Process where the process of cutting (shearing) sheet metal is carried out on steel sheet material to separate the material into 2 parts. Furthermore, the piercing process is the process of cutting (shearing) sheet metal which produces a hole, separating the scrap and the product. Scrap is sheet metal that falls off due to punch pressure. Next is the bending process, where in this process the process of bending or flexing a workpiece is carried out using a die machine. And finally, Quality Control is carried out to check whether or not an item is produced.

Bibliography (2015 s/d 2022)