

ABSTRACT

Giant Crane for train is a Type Bridge Crane. This crane consists of crane that moved at bridge frame bar and moved along rail track that lay in the ground.

During the operation, this crane has three movements that are lifting movement, side movement, and run movement.

Giant crane designed to has characteristics as follow: Lifting Capacity is 20 tons, Height Lifting is 12 m, width reach is 8.5 m, lifting rate 10 m/minute, side movement rate 10 m/minute, and backward-onward movement 25 m/minute.

From designing has obtained equipment for lifting movement include: pulley systems, drum, cone break, straight gear.

While equipment for side movement are : wheels straight gear, 45 kW motor driver.

Equipment for run movement they are: motor driver, transmission system, wheels. Frame construction are used profile steel U and profile steel I.