

Steel Hot Rolling, Hot Rolling of Steel, Metal Rolling, Metal Forming Process, Steel Rolling Process, Metalworking, Flat Rolling Fundamentals, Physical Metallurgy, Hot Rolled Steel, Rolling Mills (Pre-Treatment of Hot Metal, Heat Treatments for Hot-Rolled

Description:

In metalworking, rolling is a metal forming process in which metal stock is passed through one or more pairs of rolls to reduce the thickness and to make the thickness uniform. Rolling is classified according to the temperature of the metal rolled. When the temperature of the metal is above its recrystallization temperature, then the process is known as hot rolling. This makes the steel easier to form, and also results in products that are easier to work with.

Roll stands holding pairs of rolls are grouped together into rolling mills that can quickly process metal, typically steel, into products such as structural steel, bar stock, and rails. Most steel mills have rolling mill divisions that convert the semi-finished casting products into finished products.

Rolling of steel is one of the most important manufacturing processes for steel. It is usually the first step in the processing of steel after it is made and cast either in ingot or continuous cast product in a steel melting shop. Hot rolling is used mainly to produce sheet metal or simple cross sections, such as rail tracks. Other typical uses for hot rolled metal include truck frames, automotive wheels, pipe and tubular, water heaters, agriculture equipment, strapping, stamping, compressor shells, rail car components, wheel rims, metal buildings, railroad hopper cars, doors, shelving, discs, guard rails, automotive clutch plates.

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