

Pulley Block

Applications:

The crane pulley block is a fixed structural component composed of a fixed pulley and a movable pulley, which works with the hook group to save effort and change the direction of force. It is made of cast iron, cast steel or rolled steel. The rope groove radius is designed to be 0.6 times the diameter of the wire rope to optimize the contact surface, and the bearing uses a rolling bearing to improve the transmission efficiency. Its mechanical efficiency is affected by the gravity of the object, the deadweight of the movable pulley and friction factors. The load capacity ranges from 5 tons to 100 tons. It is mainly used in heavy lifting equipment such as bridge cranes and port machinery.

Features:

Changing the direction of pulling force: The fixed pulley can change the direction of pulling force, making pulling more convenient.

Saving effort: The movable pulley can save effort, but it will increase the distance that the pulling force moves.

Balance between saving effort and distance: The effort saved by the pulley group is inversely proportional to the distance that the pulling force moves, that is, the more effort is saved, the greater the distance that the pulling force moves.

