

# RATCHET LEVER BLOCK



Rang 0.75 Ton – 12 Ton

A ratchet lever block, also known as a lever hoist or ratchet chain hoist, is a manually operated lifting and pulling device used to raise, lower, or tension heavy loads. It's commonly used in various industrial, construction, and material handling applications, and it provides a mechanical advantage to make lifting and moving heavy objects more manageable.

Key features of a ratchet lever block include:

- 1.Lever and Ratchet Mechanism:** The primary feature of a lever block is a lever that the operator manually operates to lift or lower the load. The lever is connected to a ratchet and pawl mechanism, which provides a means of lifting the load incrementally and prevents it from slipping back.
  - 2.Load Chain:** A load chain is an integral part of the lever block. It is a strong chain that is wrapped around a drum or sprocket and connected to the hook or attachment point. Pulling the lever winds the chain onto the drum, raising the load.
  - 3.Load Capacity:** Lever blocks are available in various load capacities, ranging from a few hundred kilograms to several tons. The specific capacity is determined by the model and design of the lever block.
  - 4.Hooks:** Lever blocks typically feature a load hook for attaching to the load, and a suspension hook for securing the block to an overhead support structure or other anchoring point. Some models include safety latches on the hooks to prevent accidental unhooking.
  - 5.Ratchet Pawl:** The ratchet pawl mechanism ensures that the load remains in position when the lever is released, preventing it from descending unintentionally.
  - 6.Safety Features:** Many lever blocks are equipped with safety features, including overload protection and a freewheeling mechanism that allows for easy adjustment of the load chain.
  - 7.Lifting and Lowering Control:** The operator can control the lifting and lowering of the load by manipulating the lever. Some lever blocks feature a forward and reverse lever position for easy load control.
- Ratchet lever blocks are commonly used for tasks such as positioning heavy machinery, erecting steel structures, and lifting equipment during construction and maintenance projects. They offer precision and control when working with heavy loads, making them a valuable tool in material handling and rigging operations. It's important to use lever blocks according to manufacturer guidelines and follow safety procedures to ensure safe and efficient operation.