

Heavy-Duty Chain Hoists

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Materials Handling & Access



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(Marines_respond_to_simulated_helicopter_crash_140910-M-OD001-043.jpg)

A chain hoist lifts heavy loads with a chain loop: manual chain blocks are simple and reliable; electric hoists run on controls. They mount on gantries, beams or trolleys to raise machines, motors and project assemblies safely off the floor.

Key Features

- Capacities from 0.5 to 5 tons
- Manual chain wheels or electric motors
- Hooks with safety latches
- Lifts of 3-6 m typical
- Trolley and suspension options

Typical Uses in the Workshop

- Lift and position heavy machines
- Raise engines, motors and gearboxes
- Hoist large project assemblies
- Support rigging and stage work

Safe Operation

1. Check the load weight and the hoist capacity
2. Secure the load with rated slings
3. Lift slowly and keep loads balanced
4. Position and lower with control
5. Remove the slings and stow the hoist

SAFETY NOTES

- Never stand under a suspended load
- Check hooks, chains and brakes before use
- Do not exceed the rated capacity
- Keep hands clear of the chain and load
- Only trained staff direct lifting operations

Maintenance & Consumables

- Inspect the chain for wear and stretch
- Check the hook latches and hinges
- Test the brake holds the load
- Lubricate the chain and gearing
- Have the hoist certified annually

Specification & Buying Notes

Choose a hoist rated comfortably above the heaviest regular load with a trolley. Electric hoists speed the work; manual blocks cost less and teach control. Buy certified slings with the hoist.