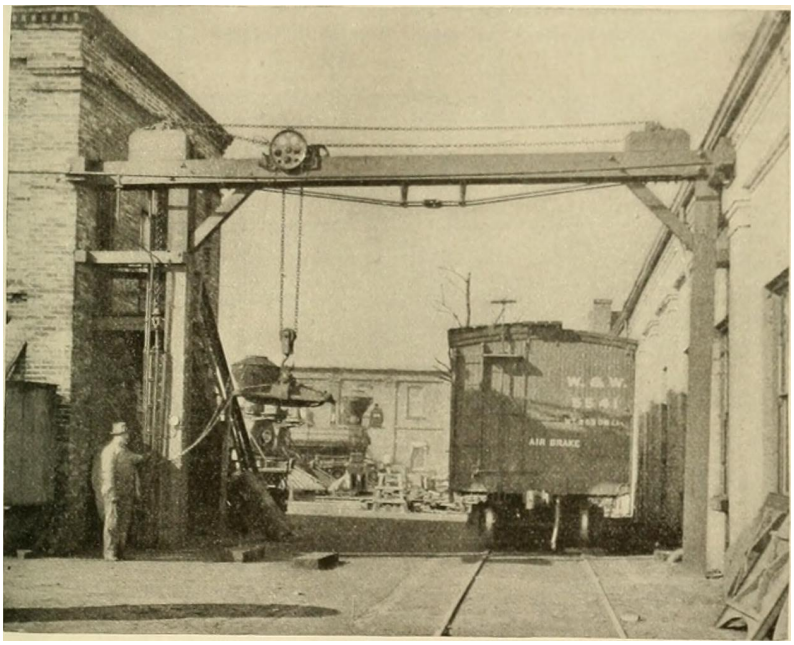
Shop Cranes / Engine Hoists

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



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A shop crane (engine hoist) is a portable hydraulic boom that lifts engines, gearboxes and heavy workshop components out of machines and moves them to the bench. Folding legs, adjustable booms and castors bring controlled lifting to the workshop floor.

Key Features

- Capacities from 1 to 2 tons typical
- Hydraulic ram lift with overload valve
- Folding boom and extendable arms
- Swivel castors with brakes
- Leg spread adjustable for stability

Typical Uses in the Workshop

- Lift and remove engines and transmissions
- Position heavy machines and parts
- Support large project assemblies
- Move heavy stock and equipment

Safe Operation

1. Extend and lock the legs for the load
2. Attach the rated sling or chain
3. Pump the ram to lift clear
4. Move the crane on its castors slowly
5. Lower gently, never drop the load

SAFETY NOTES

- Never stand under a lifted load
- Check slings, hooks and the hydraulic system
- Keep the load balanced and low when moving
- Do not exceed capacity or overreach the boom
- Store with the boom lowered

Maintenance & Consumables

- Check the hydraulic oil level and rams
- Test the overload valve
- Inspect the castors and brakes
- Grease the pivot points
- Certify the crane annually

Specification & Buying Notes

A 1 ton folding shop crane suits school engine and machine work. Quality hydraulics and a smooth release valve matter for control. Add rated slings and a load leveler.