CODEMA

CHAIN HOIST JH-M



⚠ WARNING

- DO NOT use this hoist for lifting, elevating, or supporting human personnel under any circumstances.
- DO NOT exceed the Working Load Limit (WLL) marked on the hoist rating plate.
- DO NOT slip a pipe or Cheater bar over the lever handle to gain extra mechanical advantage; the lever is rated strictly for human hand effort.
- DO NOT operate the hoist with a kinked, twisted, or damaged load chain.

CAUTION

- Wear personal protective equipment (PPE), including safety helmet, heavy-duty gloves, and steel-toe boots, during operation.
- Keep oil, grease, and moisture off the friction brake surfaces.
- Avoid side-pulling or off-center rigging that forces the chain against the housing edge.

1. PRODUCT OVERVIEW

- The CODEMA Ratchet Lever Hoist (JH-M Series) is a heavy-duty, manually operated industrial lifting and pulling device designed for vertical elevation, horizontal traction, line tensioning, and precise load positioning in demanding environments.

- Distributed by Ferrenaval and manufactured under the CODEMA brand, this hoist combines a compact steel structure with a high-torque mechanical transmission, offering exceptional maneuverability and versatility for assembly, rigging, and heavy engineering tasks.

KEY FEATURES

High-Torque Ratchet Mechanism: Smooth operation driven by an ergonomic non-slip lever handle that reduces operator hand effort.

Grade 80 (G80) Alloy Load Chain: Premium Grade 80 alloy steel load chain providing superior wear resistance and tensile strength for heavy-duty applications.

Automatic Double Pawl Brake System: Mechanical anti-reversal braking mechanism that automatically holds suspended loads securely in any position.

Drop-Forged Steel Hooks: Heat-treated forged top and bottom hooks with 360° swivel action and spring-loaded safety latches.

Industrial-Grade Casing: Compact, impact-resistant steel body engineered to withstand severe field use and resist corrosion.

Free-Chaining / Chain Guide Mechanism: Integrated internal chain guide to prevent derailment and ensure smooth chain alignment during lifting, pulling, or lowering operations.

2. INTENDED USE / APPLICATIONS

The CODEMA JH-M Lever Hoist is engineered strictly for lifting, lowering, tensioning, securing, and positioning freely suspended or fixed loads within its rated Working Load Limit (WLL).

Documented Applications & Work Environments

Structural Steel & Heavy Engineering: Alignment and positioning of structural beams, pipe spools, and heavy assemblies.

Industrial & Equipment Maintenance: Hoisting machinery components, engine installation, and mechanical repair work.

Utility & Transmission Line Tensioning: Cable pulling, line tensioning, and securing heavy industrial loads.

Workshops & Warehouses: Versatile rigging and material handling in confined spaces where electrical power is unavailable.

Prohibited Uses:

- Never use the hoist to transport or elevate human personnel.
- Never exceed the nominal Working Load Limit (WLL) of the selected model.
- Never pull loads at an angle or drag materials horizontally.

3. CORRECT USE / OPERATING PROCEDURE

Operating Steps

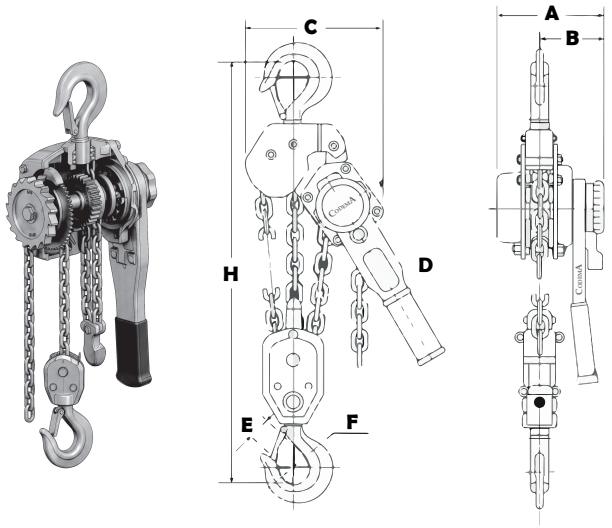
- **Select Direction:** Set the direction selector lever located on the handle to UP for lifting/tensioning or DOWN for lowering/releasing.

- **Take Up Slack:** Operate the lever handle smoothly until the load chain is completely taut.

- **Perform Brake Test:** Lift or tension the load approximately 10 cm (4 inches) off the ground. Pause to verify that the automatic double pawl brake holds the load securely without slippage.

- **Execute Operation:** Apply steady, uniform strokes to the operating lever.

- **Landing & Release:** Once the load is fully set down on a stable surface, switch the direction selector to DOWN and operate the handle until tension is completely released.



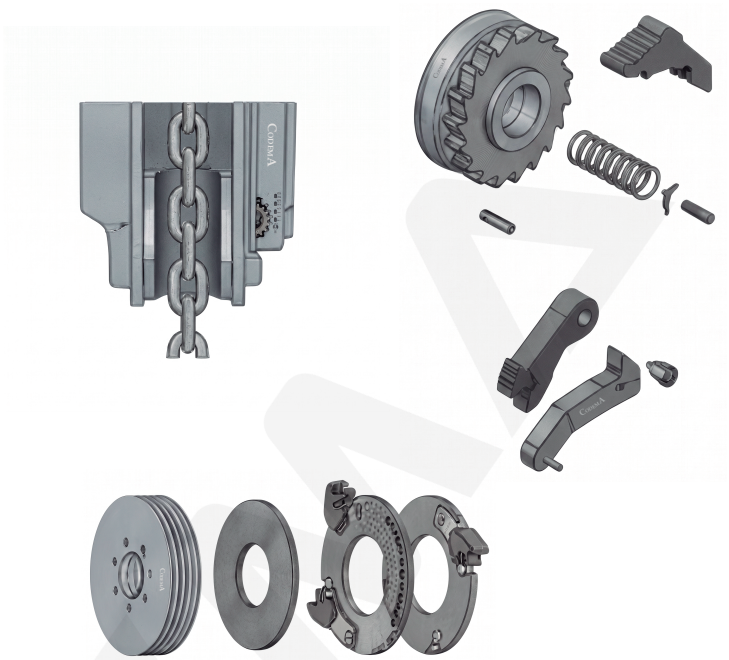
4. INSTALLATION / FITTING

- **Pre-Installation Inspection:** Visually inspect the hoist body, lever, chain, and hooks for any signs of wear or damage prior to mounting.
- **Verify Anchor Point:** Ensure the supporting beam, structure, or anchor point has a rated WLL equal to or greater than the load to be handled.
- **Attach Top Hook:** Secure the top hook to the fixed anchor point. Verify that the safety latch closes completely.
- **Inspect Chain Path:** Ensure the Grade 80 load chain hangs straight and is free of kinks, twists, or knots.
- **Attach Load Rigging:** Connect the bottom hook to approved slings or shackles attached to the load. Confirm that the hook latch is fully engaged.

5. PRODUCT COMPONENTS

- Operating Lever (Ergonomic Handle): Steel lever handle with non-slip grip optimized to deliver high torque with minimal user fatigue.
- Ratchet & Gear Mechanism: Precision-machined internal gearing for smooth forward and reverse load travel.
- Double Pawl Safety Brake: Mechanical friction brake that automatically locks the load instantly when lever operation stops.
- Grade 80 (G80) Load Chain: Certified high-tensile alloy steel chain engineered for heavy lifting and pulling loads.
- Top Hook: Heat-treated forged steel suspension hook with a spring-loaded safety latch.
- Bottom Hook (360° Swivel): Forged load hook with full 360-degree rotation to prevent chain twisting during rigging.
- Integrated Chain Guide: Internal mechanism preventing chain binding, twisting, or derailment during operation.
- Steel Housing: Reinforced outer casing protecting internal gears and brake components from impacts and debris.

Specification	Details
Brand	CODEMA
Equipment Type	Ratchet Lever Hoist
Model Series	JH-M
Application	Lifting, lowering, tensioning, and positioning of loads
Operating System	Manual operation by ratchet lever handle
Load Chain	High-strength Grade 80 alloy steel
Capacities	From 0.5 to 6.0 tons
Body Material	High-strength steel



The safety and performance of manual chain hoists depend on international safety frameworks that regulate structural design, mechanical strength, and braking reliability. The standards and certifications associated with the **Manual Chain Hoist CODEMA** govern load-bearing safety, material quality, and operational protection.

TÜV CERTIFICATION (TECHNICAL INSPECTION ASSOCIATION)

What it covers: Independent third-party mechanical testing, structural safety audits, and manufacturing quality assurance.

How it relates to the product: Evaluates load capacity, dynamic and static brake holding force, chain fatigue resistance, and gear durability under stress.

Why it is relevant: Provides external, objective validation of the hoist's structural performance beyond manufacturer self-declaration.

Product-specific relationship: Directly reinforces the product's German origin (Made in Germany), heavy-duty G80 load chain, and steel gear transmission.

Compliance status: The documentation displays the TÜV Certification mark. Specific test report numbers and scope details are information not specified by the manufacturer.

GS MARK (GEPRÜFTE SICHERHEIT / TESTED SAFETY)

What it covers: German state-regulated product safety certification based on the Product Safety Act (ProdSG), incorporating type-testing and factory monitoring.

How it relates to the product: Focuses on operator safety, hand-chain operation, hook latch security, and protection against mechanical hazards.

Why it is relevant: Guarantees that manual controls and holding mechanisms meet strict German safety standards for human operation.

Product-specific relationship: Links directly to the documented German manufacture, compact steel housing, forged safety hooks, and smooth manual gear system.

Compliance status: The documentation displays the GS Certification mark. Official certificate serial numbers are information not specified by the manufacturer.

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