



ATLAS LIFTING & RIGGING UK ACH6 MANUAL CHAIN HOIST USER INSTRUCTION MANUAL

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1. INTRODUCTION

This manual provides essential information for the safe installation, operation, inspection, and maintenance of the Atlas Lifting & Rigging UK ACH6 Manual Chain Hoist. This hoist is designed for lifting and lowering loads within its rated capacity in industrial environments.

IMPORTANT

Only competent, trained, and authorised personnel should operate or maintain this equipment. Failure to follow this manual may result in serious injury, death, or damage to property.

2. SCOPE AND APPLICATION

The ACH6 chain hoist is suitable for:

- General industrial lifting
- Construction and maintenance applications
- Workshops and manufacturing environments
- Offshore / marine lifting operations

Not suitable for:

- Lifting or transporting people
- Continuous duty lifting systems

3. STANDARDS AND COMPLIANCE

The Atlas Lifting & Rigging UK Manual Chain Hoists are designed, manufactured, and tested in accordance with relevant international standards and regulatory requirements where applicable.

3.1 Core Standards

- BS EN 13157
- EN 818-7
- ASME B30.16
- NORSOK R-002 (when fitted with overload protection)
- SANS 1594
- AS 1418

3.2 United Kingdom Legislation

- LOLER 1998 – Lifting Operations and Lifting Equipment Regulations
- PUWER 1998 – Provision and Use of Work Equipment Regulations

3.3 European Compliance

- Machinery Directive 2006/42/EC (or UK Supply of Machinery Regulations)
- CE / UKCA marking

4. SAFE USE INFORMATION

4.1 General Safety Rules

- Never exceed the Working Load Limit (WLL)
- Never used a damaged hoist
- Never leave a load suspended unattended
- Never shock load the hoist
- Never attempt unauthorised repairs

4.2 Safe Use Requirements

1. Never use hoists to lift, support or transport people.
2. Always wear suitable personal protective equipment (PPE) appropriate to the lifting operation.
3. Ensure the top and bottom hooks are correctly engaged with the suspension point and the load, and that all safety latches are fully closed.
4. Confirm that the supporting structure is rated to safely withstand the applied load, including any dynamic forces.
5. When using more than one hoist or lifting at an angle, consult a competent person to ensure that the load on each hoist remains within its rated capacity.
6. Establish a clearly defined lifting and exclusion zone around the load.
7. Always keep clear of the load during lifting and lowering and prevent unauthorised access to the lift area.
8. Ensure the load chain is free from twists and kinks, particularly on multi-fall hoists.
9. Keep the load chain running straight and avoid contact with sharp edges, corners or abrasive surfaces.
10. Keep the load chain running straight and avoid contact with sharp edges, corners or abrasive surfaces.

11. Apply the load smoothly and steadily, avoiding shock loading or sudden jerks.
12. Never leave a suspended load unattended. In an emergency, secure the area and maintain safe exclusion zones.
13. Remove damaged or malfunctioning hoists from service immediately and report them to a competent person for inspection.
14. Carry out all pre-use checks specified by the manufacturer before operation.

5. PRODUCT IDENTIFICATION

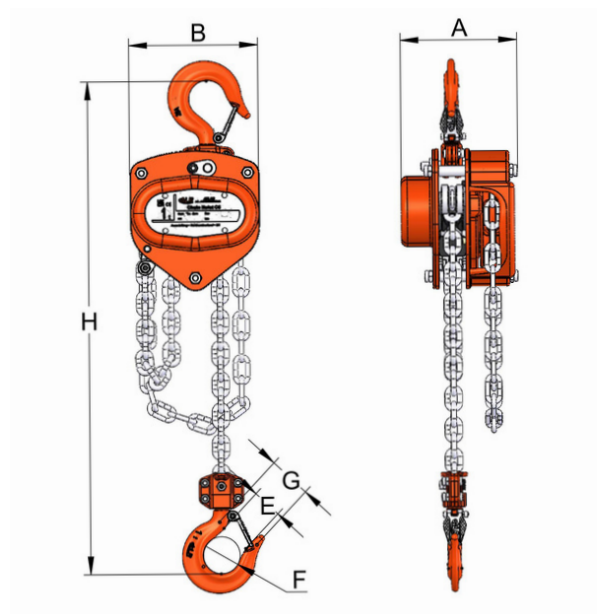
Each hoist is supplied with:

- Unique serial number
- Working Load Limit (WLL)
- Chain size and grade
- Manufacturer identification
- CE / UKCA marking

IMPORTANT

All the information listed above must be legible during a pre-use check.

6. TECHNICAL SPECIFICATION



Capacity	(tonnes)	0.5	1	1.6	2	3.2	5	7.5	10	15	20	30	50
Product No.		ACH6-005	ACH6-010	ACH6-016	ACH6-020	ACH6-032	ACH6-050	ACH6-075	ACH6-100	ACH6-150	ACH6-200	ACH6-300	ACH6-500
No. of Falls		1	1	1	1	2	2	3	4	6	8	12	20
Load Chain	(mm)	5x15	6x18	8x24	8x24	8x24	10x30	10x30	10x30	10x30	10x30	10x30	10x30
Hand Chain	(mm)	5x25	5x25	5x25	5x25	5x25	5x25	5x25	5x25	5x25	5x25	5x25	5x25
Weight @ 3m HOL	(kg)	8	11.3	15.8	17.3	24.2	40.2	74.7	89.7	156.3	190.8	491.3	852.4
Extra Wt. per m HOL	(kg)	1.38	1.62	2.23	2.23	3.62	5.18	7.4	9.52	13.86	19.1	27.8	45.2
Dimensions (mm)	A	130	155	173	185	235	262	415	365	406	550	800	840
	B	127	134	151	157	157	180	180	180	210	225	370	605
	C	23.5	28	32	32	38	48	58.5	58.5	76.5	76.5	94	115
	D	14.2	15.2	19.2	19.5	24.5	34	42	42	51	51	95	140
	H	280	330	375	405	490	630	740	815	1,000	1,300	1,650	1,800

Overload protection can be fitted to hoists as an optional extra, set at 1.5 x the rated capability of the hoist.

7.UNPACKING AND INSTALLATION

7.1 Unpacking

- Inspect for transport damage - do not use if damaged
- Verify content aligns with
 - Test certificate
 - User manual - available to download from www.alrlift.co.uk

7.2 Installation/Suspension

The hoist may be suspended from;

- Hook
- Beam clamp
- Trolley
- Or other suitable suspension points designed for lifting applications

Requirements:

- Support must meet or exceed hoist capacity
- Hoist must hang freely
- Load line must be straight, no kinks in the load path.

8.PRE-USE INSPECTION

Before each use:

- Check hooks for deformation or cracks
- Ensure safety latches operate correctly
- Inspect load chain for;
 - Wear
 - Twists in the load chain (multi-fall hoists only)
 - Corrosion
 - Any kind of deformation

- Confirm smooth hand chain operation
- Verify brake function (audible clicking when lifting), a light load test is advised but not always achievable
- Check nameplate is legible

If any fault is found - REMOVE FROM SERVICE.

9. OPERATION

9.1 Raising and Lowering

- Pull hand chain clockwise to raise load
- Pull hand chain anti-clockwise to lower load

Operate smoothly at all times - hoists must not be shock-loaded.

9.2 During Operation

- Ensure load is centred in hook saddle
- Lift slightly to test brake before full lift
- Do not allow load to swing
- Maintain clear visibility of load

9.3 Prohibited Practices

- Side loading hooks
- Pulling at an angle beyond design limits
- Using excessive force to operate the hoist - this usually results in overloading
- Using the hoist outside of its temperature rang (-20°C - 120°C)

10. RIGGING AND LOAD HANDLING

10.1 Hooking the Load

- Attach load securely to bottom hook
- Load must sit in hook saddle
- Safety latch must close fully

10.2 Fleeting Operations Using Multiple Hoists

- Ensure a lift plan has been created by a competent person
- ALR Chain Hoists can be operated at a maximum of 60° from the vertical of a full capacity load, without deration.
- Ensure the hoist's maximum and minimum load capacity range is not exceeded throughout the lift

10.3 Lifting Operations

- Lift slowly to remove slack
- Check load stability
- Continue lift only when safe

11. CARE IN USE

- Keep chain clean and lubricated
- Avoid dragging chain on ground
- Protect from dirt, grit, and moisture
- Avoid chemical exposure

12.INSPECTION AND MAINTENANCE

12.1 Inspection Categories

Frequent Inspection

- Daily / weekly depending on use
- Visual checks by operator

Periodic Inspection

- Every 12 months or sooner
- By competent person
- A Report of Thorough Inspection to be issued

(Aligned with industry standards)

12.2 Identifying Faults

Remove from service immediately if:

- Chain is twisted, kinked, or stretched
- Hooks are deformed or latch missing
- Brake slips
- Unusual noise or resistance occurs whilst operating the hoist

12.3 Load Testing

Load tests include:

- Proof load @ 1.5 x rated capacity (150%)
- Full capacity @ 1 x rated capacity (100%)
- Light load @ 0.02 x rated capacity (2%)

Required after:

- Maintenance/repair
- Disassembly of load-bearing parts

13.MAINTENANCE GUIDELINES

(To be carried out by competent personnel only)

- Clean and lubricate chain regularly
- Replace worn or damaged components
- Use only genuine OEM parts from ALR
- Never weld or heat treat components

See the maintenance manual for guidance on full strip down and thorough inspections.

14.STORAGE

- Store in clean, dry environment
- Protect from corrosion
- Keep chain off ground
- Prevent unauthorised use

15.SPARE PARTS

- Use only Atlas Lifting & Rigging approved parts
- Non-approved parts may result in failure

16.WARRANTY

- 1 Year warranty (from the manufacture date issued with the DOC) applies to defects in materials and workmanship, or any quality issues associated with new hoists
- Does not cover misuse, overloading, or poor maintenance/storage

17.TRAINING REQUIREMENTS

Operators must:

- Be trained in lifting operations
- Understand rigging principles
- Be familiar with this manual
- Be physically and mentally fit

18.RECORD KEEPING

Maintain records of (required for LOLER compliance):

- Inspections
- Maintenance
- Repairs
- Load tests