



BISON CONTAINER LIFTING

Buyer's Guide

ALL YOU NEED TO KNOW ABOUT BUYING & OWNING A BISON C-LIFT

www.bison-jacks.com



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INTRODUCING BISON C-LIFTS

BISON C-Lifts are portable container handling systems that equip you to safely lift ISO containers in more locations - at a fraction of the cost of traditional container handling equipment.

C-Lifts solve a common problem facing the logistics industry - that is, **traditional container handling equipment is big, heavy and expensive**. This can make it difficult for you to use or move containers where and when you want.

Investing in a BISON C-Lift will give you the freedom to safely lift containers on and off trailers at times and in places that work best for you.



With a BISON C-Lift, you will get more independence and control over your container logistics, and capture a return on investment through lower costs, new opportunities and improved efficiencies.

Everyone has different logistics operations and budgets to manage. With this in mind, we offer **three different C-Lift models**, each with a different combination of speed, automation, portability, lift capacity and price. If the standard models don't meet your needs, we also deliver custom engineered solutions built around these core designs.

C-LIFT ADVANTAGES

- **LOWER CAPITAL & MAINTENANCE COSTS** - Lift heavy containers, without the high capital and maintenance costs of larger reach stackers, straddle carriers, swing lifts and forklifts.
- **IMPROVE SAFETY** - Ground the container safely. Avoid the dangers of lifting heavy containers with under rated equipment. Eliminate the risks of working from heights on ramps and docks.
- **STUFF AND STRIP CONTAINERS ON THE GROUND** - Make it safer and easier to un/load bulky, heavy or sensitive cargo. Avoid the time pressure of live loading. Stop paying detention fees.
- **ELIMINATE THIRD PARTY SERVICE CHARGES & DELAYS** - C-Lifts put you in control of the cost and timing of container transfers. Avoid crane hire and side loader service charges. Say goodbye to expensive transloading charges. Make your operation independent.
- **BACKUP OTHER HANDLING EQUIPMENT** - Build redundancy into your operation and keep your containers moving when your other container handling equipment needs servicing or breaks down.
- **WORK IN NEW LOCATIONS** - Work from lower cost sites. Eliminate the need for a loading dock, reinforced surface or a gantry crane. Position containers indoors. Make better use of space on site. Collect and offload containers in remote locations with ease.

C-LIFTS COMPARED

A SERIES



P SERIES



M SERIES



Max. Lift Capacity	32,000 kg	32,000 kg	10,000 kg - 20,000 kg
Lift Height	1.65m	1.65m	1.65m
Operation	Automated	Semi-automated	Manual
Min. Operators	1	2	2
Portability	Mobile, single site	Portable, multi site	Portable, multi site
Leg Weight	320 kg	130 kg	130 kg
Reversing Clearance	25cm each side 50cm total	25cm each side 50cm total	25cm each side 50cm total
Compatibility	All ISO container types and sizes	All ISO container types and sizes	All ISO container types and sizes
Complete Transfer	< 15 minutes	< 40 minutes	< 30 minutes

This is the indicative time for 2 people to set up C-Lift, lift container, move truck, position container on ground or chassis, then remove C-Lift. Actual time will depend on starting position, experience and number of operators, size and weight of container, site conditions and power supply.

C-LIFT A SERIES

FAST, AUTOMATED CONTAINER LIFTING

If fast container transfers and ease of operation are your priorities, the C-Lift A32 is your best option. Ideal for sites with regular container throughput, the A32 is safe, robust and easy-to-use. With a high lift capacity of 32,000 kg, the A32 handles containers of all types and sizes, including 40' and 53' containers, high cubes and reefers. The A32 will lift a fully loaded container from the ground to 165cm in 3 – 4 minutes.

HOW IT WORKS?

The A32 comprises four sturdy hoists on wheeled bases, powered by single-phase electric supply. Each hoist has its own independent hydraulic power unit driving a hydraulic cylinder with 80cm stroke. Using mechanical advantage, each cylinder lifts the container to full height via a simple pulley, in one single lift movement. The A32 is controlled by wireless remote control and the hoists communicate with each other wirelessly, to ensure synchronous lifting.

STANDARD COMPONENTS

- 4 x automated container hoists
- 1 x wireless remote control
- 4 x electric cables

CONSTRUCTION

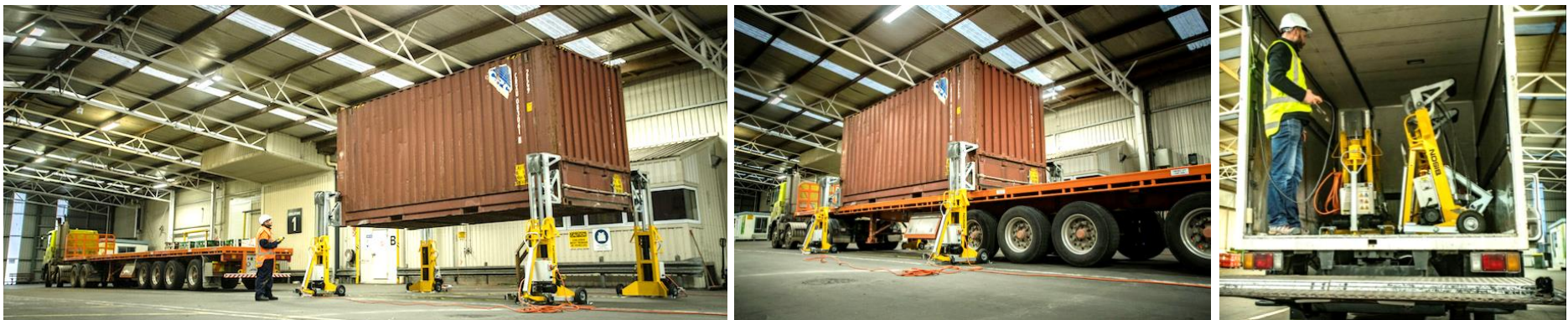
The A32 is manufactured with high strength structural steel and quality coatings for corrosion protection. Each hoist includes a container attachment frame, dual pulley cables, stabilizing wedges, safety guards, hydraulic cylinder with counter balance valve, hydraulic pump, oil reservoir, 750W electric motor, sealed electronic control box, emergency off switch, wheeled base and forklift pockets.

OPTIONAL EXTRAS

- **Weight Sensors & App:** if you would like to weigh containers, we can fit sensors to each hoist, which transmit the load to the BISON VGM App. The App displays the gross container weight on your smartphone, confirms the container's load distribution and allows you to take photos, record essential shipment details, email a signed VGM certificate and log a detailed digital container weight record. Weight sensors are accurate to better than +/- 3%.
- **Service Kits:** alongside all C-Lift models, we offer basic and comprehensive service kits, containing back-up parts to reduce down time in the event of an unexpected breakage.

POWER

240 VAC 50Hz Single Phase, 20 Amps. Other options available.



C-LIFT P SERIES

PORTABLE WITH HIGH LIFT CAPACITY

If you need to move heavy containers in and out of different locations, the P Series is the perfect solution. Portable and safe, with a lift capacity of 32 tonne, the P Series equips you to transfer heavy containers in places where traditional container handling equipment is too big, heavy or expensive - or simply unavailable. The P Series is easy to transport, works on rough ground and can be moved around by one person - no forklift required.

HOW IT WORKS?

The P Series is a semi-automated C-Lift, featuring 4 high strength steel legs, connected by hydraulic hoses to a central hydraulic power unit (HPU). The unique mix of portability, price and lift capacity is achieved with our patent pending "lift-and-lock" mechanism. Double-acting hydraulic cylinders with a 30 cm stroke, lift the container up to 165 cm in a series of steps.

STANDARD COMPONENTS

- 4 x steel legs with high spec hydraulic cylinders and carrier frames
- 1 x hydraulic power and control unit
- Assorted hydraulic hoses, rigging and fittings

CONSTRUCTION

The P Series is built with high strength structural steel and quality coatings for corrosion protection. Each leg includes a high spec, double acting hydraulic cylinder with counter balance valves that ensure the container stays elevated in event of electric or hydraulic failure. The HPU features a high quality single or 3 phase electric motor, Bosch-Rexroth hydraulic pump, oil reservoir and Italian made directional control valves, inside a steel tube housing on wheeled base.

OPTIONAL EXTRAS

- **Hose & rigging extensions:** if you are lifting 40' or longer containers, ask about our hose and rigging extensions.
- **Service kits:** alongside all C-Lift models, we offer basic and comprehensive service kits, containing back-up parts to reduce down time in the event of an unexpected breakage.

HPU POWER OPTIONS

Standard	230-240V	Single phase	50 Hz
Alternative	200-200V	Single phase	50 & 60 Hz
	230/415V	Three phase	50HZ
	440/480V	Three phase	60HZ
	400/480V	Three phase	50 & 60HZ



C-LIFT M SERIES

MECHANICAL SIMPLICITY

With no electronics or hydraulics to maintain, the M Series is the most cost effective C-Lift in the range. Like the P Series, this model is well suited to mobile operations and remote logistics. If portability and easy maintenance are the priority, the M Series is a reliable option that simply gets the job done.

HOW IT WORKS

Integrating a solid, safe and sturdy A-frame design with certified chain hoists, the M Series is easy to set up, and takes a fit team less than 10 minutes to lift a container up to 165 cm. No hydraulics, electronics, or external power are required. The wide tripod base gives stability on rough ground and puncture proof wheels make the frames portable after they're assembled.

STANDARD COMPONENTS

- 4 x lifting & carrier frames
- 4 x certified chain hoists
 - 5,000 kg chain hoist for 10,000 kg total lift capacity
 - 10,000 kg chain hoist for 20,000 kg total lift capacity

CONSTRUCTION

The frames are constructed from lightweight, high strength steel with quality coatings for corrosion protection. For maximum safety, each leg is proof tested to 150% of its load limit and rated for 50% of the overall system load limit.

OPTIONAL EXTRAS

- **Weight Indicator:** For a general indication of the container weight and to guard against lifting a container that is too heavy, we can supply a load cell and digital readout for each chain hoist.

COMPACT DESIGN

The M Series packs down into a compact (<2m³) unit for transport, either on a pickup truck, flat bed or inside the container itself. The longest component fits inside the width of a shipping container. The simple, foolproof design makes it easy for anyone to assemble and disassemble the frames in minutes with no special tools required.



EVALUATION & TRAINING

TAKING THE RISK OUT

Before you commit to a C-Lift, you want to be sure it will perform. You want to know it will be safe and reliable, easy to service and that you'll get support and spare parts promptly. You also want to be confident you can train your team easily, now and in the future. We understand.

To help you evaluate the C-Lift, train your people and implement safe working procedures, we offer a range of online resources, backed by live demonstrations.

ONLINE RESOURCES

Go to the Safety and Training section of our website to access the following:

- **FAQs:** find answers to frequently asked questions about owning and operating BISON C-Lifts.
- **Training videos:** view detailed training videos, with sub-titles in all languages, showing you how to operate the different C-Lift models.
- **Operating instructions:** download the Operating Manual and review detailed safety information, task hazard control assessments, technical specifications, operating instructions, user checklists and maintenance guidelines.

LIVE DEMONSTRATION

The best way to get familiar with BISON C-Lifts is to see them working live, talk with our engineers as they operate the equipment and get an up-close, real time view of your preferred C-Lift in action.

We offer demos both before and after you order your C-Lift. These are useful for both evaluating the equipment pre-purchase, and training your team on delivery.

- **Personal Demo:** If we have a demo site located near you, we will organize for a BISON engineer or sales partner to meet you for a live demonstration.
- **Online Demo:** Alternatively, we offer interactive demos via live video conferencing, no matter where you are located. These are highly effective and a great way to get familiar with both the equipment and the team that stands behind it. All you need is a reliable Internet connection.

TRAINING

All C-Lifts are supplied with a detailed Training Video and Operating Manual, so you can easily train your people, now and in the future. We offer personalized training via live video conferencing at no extra cost.

If you prefer, we can have an engineer or Service Partner attend your site, commission the equipment and train and certify your team and local technicians at the time of delivery. On site training and certification is quoted separately. Let us know if you are interested in this option.

SERVICE & PARTS

TAILORED PLANS TO KEEP YOU MOVING

Our after-sales support begins the moment you place your order. We will talk with you about your operation and preferences and put together a service plan, based on our Six Part Service Program, ensuring you see maximum value from your BISON equipment.

- **IN-HOUSE SERVICING** - We supply detailed maintenance and care information with your C-Lift so your team can perform regular, cost effective maintenance and servicing in-house.
- **SERVICE NETWORK** - Some service procedures require specialized skills, tools or a suitable workshop. We have a network of trained Service Partners in cities across the world, who can provide technical support as required.
- **LOCAL SERVICE AGENT** - If there is no trained Service Partner near you, we'll work with you to identify and train a local technician. Your local materials handling or hydraulics service agent will typically have all the skills and equipment needed.
- **REMOTE SUPPORT** - Our engineers are available at all times to train and support your team and local technicians. This remote service is delivered at no cost via email, phone and video call, globally.
- **REMOTE DIAGNOSTICS** - Our remote support is enhanced by diagnostics capabilities in the C-Lift A Series. Working with your team, our engineers can use a smartphone app to talk with the C-Lift, investigate any issues, reprogram the C-Lift and provide expert advice no matter where you are.
- **SPARE PARTS** - Alongside all BISON C-Lifts, we offer Basic and Comprehensive Service Kits, containing recommended back-up parts in case you need them. We also carry a full range of spare parts and can quote and deliver these to you, as and when you need them.

SOME OF OUR CUSTOMERS










DOING BUSINESS WITH BISON

QUALITY. INNOVATION. TRUST.

These are three things you can count on when dealing with companies from New Zealand - a country ranked #2 in Forbes' Best Countries for Business.

BISON is no exception. We exist to equip people in all corners of the globe to handle heavy freight safely and efficiently. Our team lives by these values:

- We create value through innovation
- We listen, we learn, then we solve
- We are a global business
- Our customers' challenges are our own
- We are ethical, honest and fair

GLOBAL SALES & SERVICE

Headquartered in Dunedin, New Zealand, with a sales office in Europe and a network of Sales and Service Partners located around the world, BISON is an award winning company that specializes in the design and manufacture of novel solutions for lifting and weighing shipping containers.

We are proud to supply customers in over 35 countries, including the organizations listed below – proving that BISON delivers innovative technology that meets the highest expectations.

QUALITY CONTROL & OVERSIGHT

Operating from a 1,500 m² premises, we manufacture all of C-Lifts on-site, keeping stringent quality systems under full control. Our founders - CEO, Greg Fahey and CTO, Dr. Mark Fahey - are involved in the day-to-day running of the business. BISON is a privately owned company, and enjoys the support and oversight of an experienced board of directors and two New Zealand Government institutions - Callaghan Innovation and the New Zealand Venture Investment Fund.

QUALITY ENGINEERING

All C-Lifts are CE certified and designed to the EN 1494:2000+A1 standard, that is, the internationally recognized standard for mobile or movable jacks and associated lifting equipment. Constructed with high strength steel and quality materials, all C-Lifts are proof tested to 150% times their working load limit prior to delivery and have an intended design life of 10+ years.

5-YEAR STRUCTURAL WARRANTY

All structural components of the C-Lift are covered by a 5-year limited warranty against defects in materials and manufacturing. All other components are covered by a 1-year limited warranty against defects in materials and manufacturing. The warranty and sale terms are detailed on our website.

HERE'S TO GOOD BUSINESS!

Thank you for your interest in BISON C-Lifts. We would be pleased to answer questions and work with you to integrate this quality equipment into your organization.

THE BISON TEAM

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