



# LL-Series

## Level Lift System

The safe, easy  
solution for  
multi-point lifts



▼ Level Lift System



## The Safe, Easy Solution for Multi-Point Lifts



### Level Lift System \*\*

Enerpac's Level Lift is offered as a fully configured system including pump, hoses, gauges, and cart.

\*\* Excludes hydraulic cylinders.

- Lifts and lowers uneven loads \*
- Robust solution for demanding field use conditions – eliminates the need for electronics or sensors at each lift point
- Controls up to four lift points
- Single point of control reduces risk of operator miscommunication
- Simple, intuitive, easy-to-operate design
- Patent pending

\* Requires cylinders with matching effective areas.



### Pendant

The Level Lift System features an easy-to-use 3-button 3 meters long pendant control.



### Gauges

Gauges are conveniently located on the cart for easy monitoring by the operator.



◀ Level Lift System provided a safe, fast lifting solution during the rebuild of an off-highway vehicle.



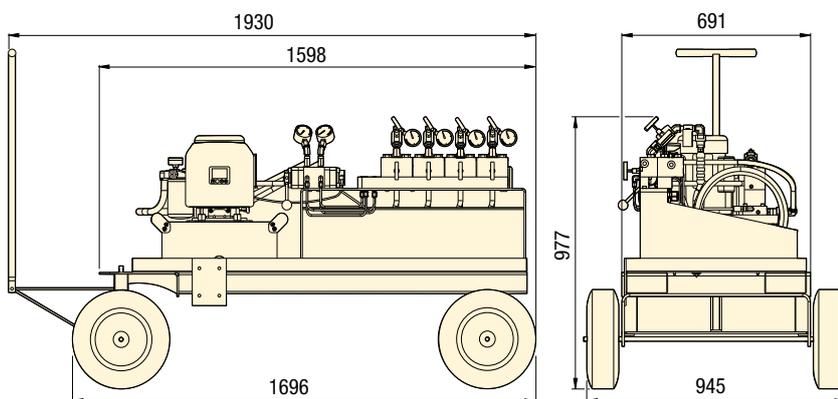
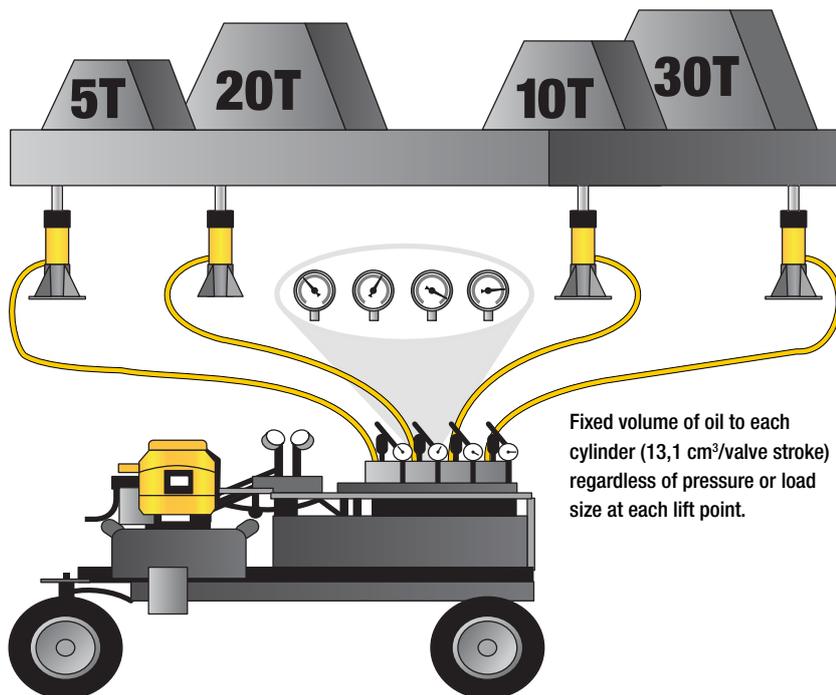
## How Level Lift Works

When the Level Lift System is operated, uneven loads are moved evenly, during both lifting and lowering operations.

The output oil flow from the pump is directed to the Level Lift Valve via the Lift/Lower valve. The Level Lift valve contains small pistons, which on each cycle, send a fixed volume of oil to each cylinder as it is lifting or lowering.

This allows each cylinder to be raised or lowered by the same amount regardless of the distribution of the weight, or the resulting pressure on each cylinder – **each cylinder must have the same effective area.**

## Level Lifting and Lowering of Uneven Loads



LL-Series (dimensions in millimeters)

Model Number	Pump Motor Voltage	Oil Displacement (per stroke of level lift valve) (cm <sup>3</sup> )	Pump Usable Oil Capacity (Litres)	(kg)
LL4CE	208-240 V, 1 ph, 50/60 Hz	13,1	20,0	295
LL4CB	115 V, 1 ph, 50/60 Hz	13,1	20,0	295

## LL Series



Number of Lift Points:

**4**

Maximum Operating Pressure:

**700 bar**



### Cart Features

- Field proven, preprogrammed ZE4-Series semi-automated pump with 20 litres reservoir.
- Pendant control
- Simple Lift/Lower Valve (for lifting and lowering)
- Stores four 15 metres long hydraulic hoses with 9,7 mm internal diameter (included)
- Built-in forklift runners for easy transportation
- Large diameter pneumatic tires for easy maneuverability and positioning
- Cart-locking mechanism to prevent unintended movement.



### Cylinder Compatibility

The Level Lift System is compatible with a wide range of Enerpac single-acting cylinders. Not recommended for use with general purpose RC-Series cylinders lower than 10-ton (101 kN) capacity, or CLP, RSM & RCS-Series cylinders. Contact Enerpac for further details.

# LL-Series, Level Lift System



## The Industrial Tools Line

### Cylinders and Lifting Products

- General Purpose
- Aluminium Lightweight
- Pancake
- Flat-Jac®, Low Height
- Pull
- Hollow Plunger
- Precision
- Long Stroke
- High Tonnage
- POWR'RISER® Lifting Jacks
- Jacks
- Cylinder-Pump Sets

### Pumps

- Manual
- Cordless & Electric Driven
- Compressed Air Driven
- Petrol Driven

### System Components

- Hoses, Couplers, Oil
- Gauges, Adaptors
- Manifolds, Fittings

### Valves

- 3-and 4-Way Directional
- Pressure and Flow Control

### Presses

- Bench, Workshop, Roll Frame
- Arbor and C-Clamps
- Tension Meters, Load Cells

### Pullers

- Master Pullers Sets
- Multi Purpose Puller Sets
- Posi Lock® Pullers

### Tools

- Maintenance Sets
- Punches
- Machine Lifts
- Lifting Wedge
- Load Skates
- Cutters
- Pipe Benders
- Wedgie, Spreaders

### Bolting Tools

- Multipliers
- Torque Wrenches
- Impact Sockets
- Bolt Tensioners
- Wrench and Tensioner Pumps
- Flange Alignment Tools
- Flange Facing Tool
- Nut Splitters

### Enerpac Bolting Service Van

## Enerpac Worldwide Locations

For a complete list of addresses see:  
[www.enerpac.com/en/contact-us](http://www.enerpac.com/en/contact-us)

## About Enerpac

Enerpac is the leading global provider of high-pressure hydraulic tools and solutions with a broad range of products, local expertise and worldwide distribution network. With a proven track record in a wide range of markets, Enerpac designs and manufactures high-quality tools and solutions for all industrial applications.

Enerpac has gained unique experience in delivering hydraulic solutions for the controlled movement and positioning of heavy objects. Enerpac supports your business by offering the right solutions and service to help you get your work done efficiently and safely.

### www.enerpac.com

- Online Bolting Calculator
- Learn more about hydraulics
- Promotions
- New products
- Electronic Catalogues
- Trade Shows
- Manuals (instruction and repair sheets)
- Nearest Distributors & Service Centers
- Enerpac products in action
- Integrated Solutions.

### Ordering Products and Catalogues

To find the name of the closest Enerpac distributor or service center, to request literature or technical application assistance, contact Enerpac at one of the addresses on [www.enerpac.com](http://www.enerpac.com) or pose your question through E-mail: [info@enerpac.com](mailto:info@enerpac.com)



## Hydraulic solutions for controlled movement and positioning of heavy loads

While Enerpac has the world's largest product portfolio for heavy-lifting and load-control applications, we also have the knowledge to put all these programs together or modify them to provide a lift system for your most demanding and unique applications.

- Synchronous Lifting Systems
- Stage Lifting and Climbing Systems
- Bridge Launching Systems
- Synchronous Hoisting Systems
- Hydraulic Gantries
- Heavy-Lifting Strand Jacks
- Skidding Systems
- Self-Erecting Towers
- Chain Pulling Systems.

Your Enerpac Distributor: