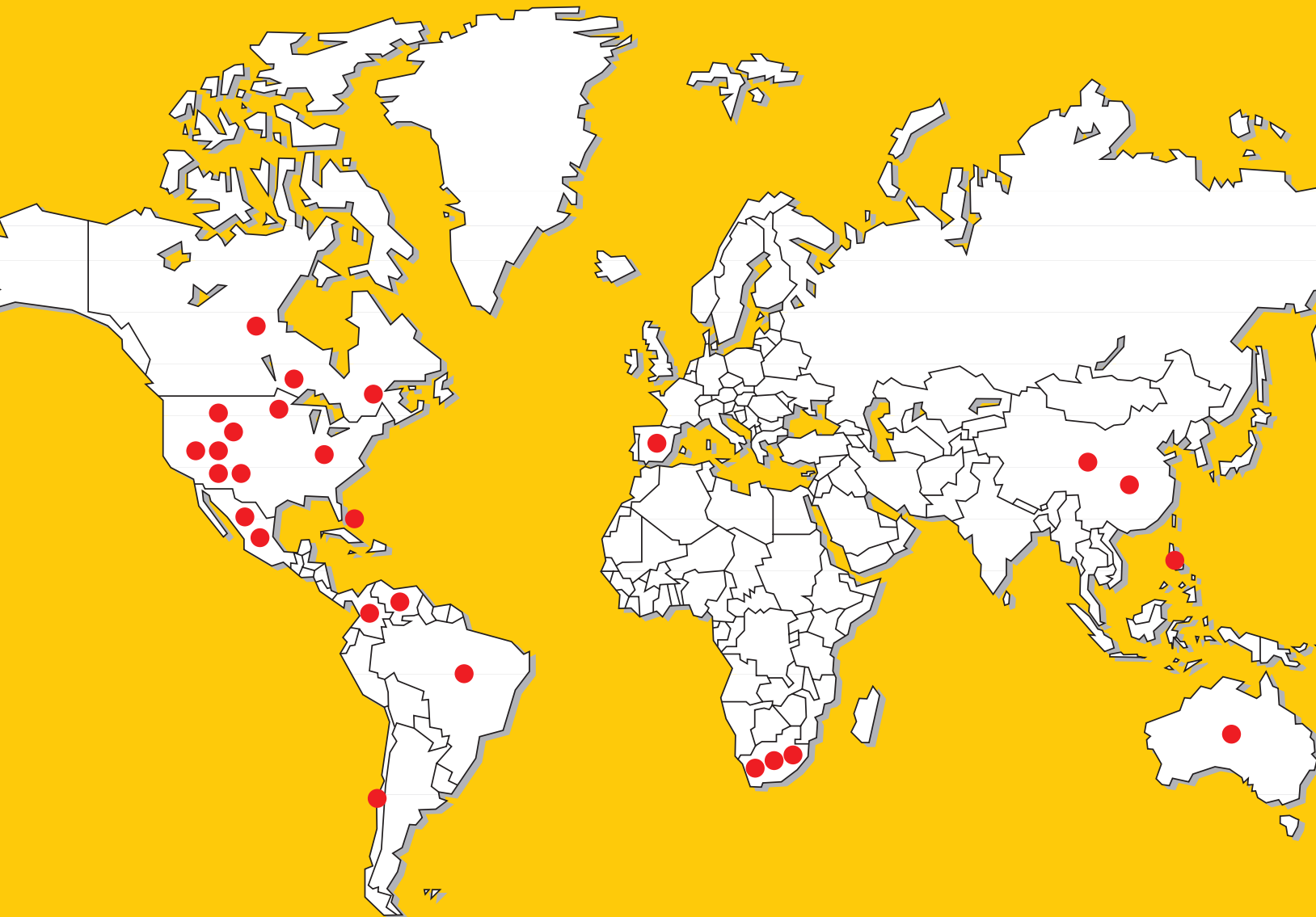


Liebherr Maintenance Tools - In Use World wide.



Self Propelled Maintenance Tools Product Overview

- Multi Handler
- Wheel Handler

- Super Jack III
- Super Jack IV



Super Jack III



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Subject to modifications.

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With compliments:

LIEBHERR

Mining Power.

Multi Handler

For lifting and positioning of large components.

The patented Liebherr MH-4500 Multi Handler is a hydrostatically, self propelled tool designed specifically for lifting and positioning large components during maintenance and repair. Equipped with a ride-on platform, the Multi Handler, with the component being positioned, can easily be maneuvered by one person, safely and efficiently.



U.S. Patent
#5,584,646

Wheel Handler

Less Maintenance Time.

Liebherr's self propelled Wheel Handler handles heavy components up to 30,000 lbs/13,600 kg for dismantling, transporting, and remounting a variety of heavy components, including large wheel motors. With front and rear raise/lower, tilt, rotate and side-shift features, the unit easily aids in installation or removal of wheel motors. Auxiliary hydraulic power ports and optional attachments allow the Wheel Handler to be used in handling other heavy equipment components such as suspensions, and front wheel assemblies.



Super Jack III

Lifts 90 tons easy, fast, and safe.

The versatile Liebherr self propelled Super Jack III has adapters to lift different types of heavy equipment. The Super Jack III provides unequalled stability, through a straight line vertical lift to a mechanically locked position. The superior load distribution and massive construction of the jack, reduce stress in the lift area. Wheels, power steering and a ride on platform save time by allowing one person to precisely position the all hydraulic jack.



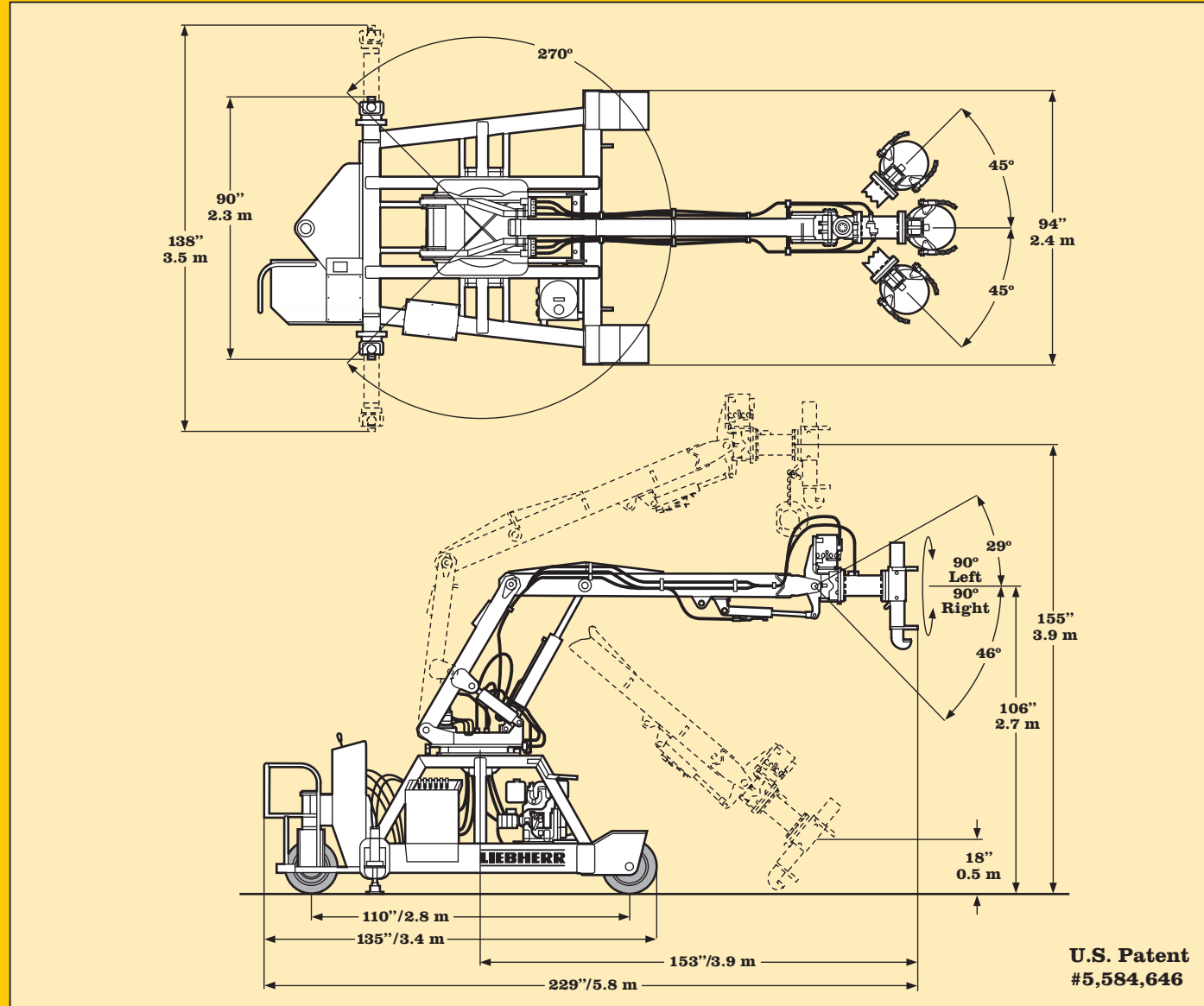
Super Jack IV

Lift 120 tons safely and efficiently.

Designed specifically for use with the over 300 short ton haulage trucks, the Super Jack IV, has adapters for different types of heavy equipment to match either front or rear lift points. Easily maneuverable by one person, the Super Jack IV has a safety lock formed by two pawls on the lift carriage that engages two racks on the jack frame for a positive mechanical lock.

Reduce Maintenance Man Hours Safely and Efficiently.

Self propelled, stable maintenance tool, with easy maneuverability, shortens maintenance time.



Dimensions		Unit weight	Calculated 7,600 lbs/3,450 kg
● Overall length (boom fully extended-out)	229"/5.8 m	● Lift capacities	Maximum 4,500 lbs/2,000 kg
● Width (rear, outriggers retracted)	90"/2.3 m	● Power unit	Diesel Engine
● Width (rear, outriggers extended)	138"/3.5 m	● Propulsion	hydraulically driven rear wheel
● Width (front, boom centered)	94"/2.4 m	● Steering	hydraulically driven
● Height (boom extended-full out)	106"/2.7 m	● Brake	hydrostatic
● Height (boom extended-full out & up)	155"/3.9 m		
● Wheel base	110"/2.8 m		

Note: The Liebherr Multi Handler is intended for use inside a maintenance shop with a smooth, level hard-surfaced floor. Rough surfaces, or grades over 1% may limit performance or mobility.



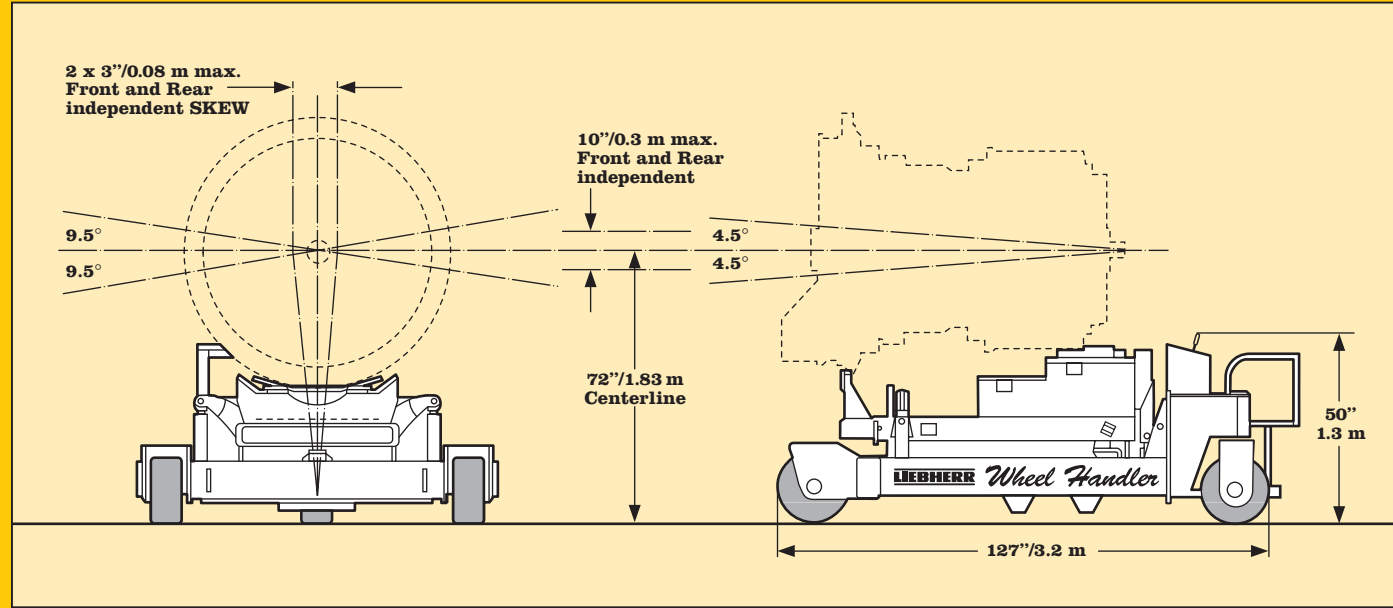
Precise positioning of the Multi Handler is achieved by one person while the Multi Handler holds the component securely locked in place. Large components can be easily installed or removed, shortening both assembly or disassembly procedures.



Multi Handler features basic hydraulic control panel for initial maneuverability with the additional remote control joystick box for precise positioning.

Multi Handler 4500

Safety and efficiency combined to provide the best method in handling heavy off-highway equipment components.



Specifications

- | | | | |
|-----------------------|---------------------------|------------|--------------------|
| ● Rated Lift Capacity | 30,000 lbs/15,000 kg | ● Steering | Hydraulic |
| ● Prime Power | Diesel engine | ● Brake | Hydrostatic |
| ● Propulsion | Hydraulic motorized wheel | ● Weight | 6,000 lbs/2,700 kg |



Wheel Handler with Armature Remover Attachment.



The Wheel Handler has been designed to aid in the installation and or removal of wheel motors used on diesel electric haulage equipment. The range of motion, including lift, skew, propel and steering by the use of joystick controls of this self propelled maintenance tool allows installation or removal of wheel motors or other large components to be significantly shortened.

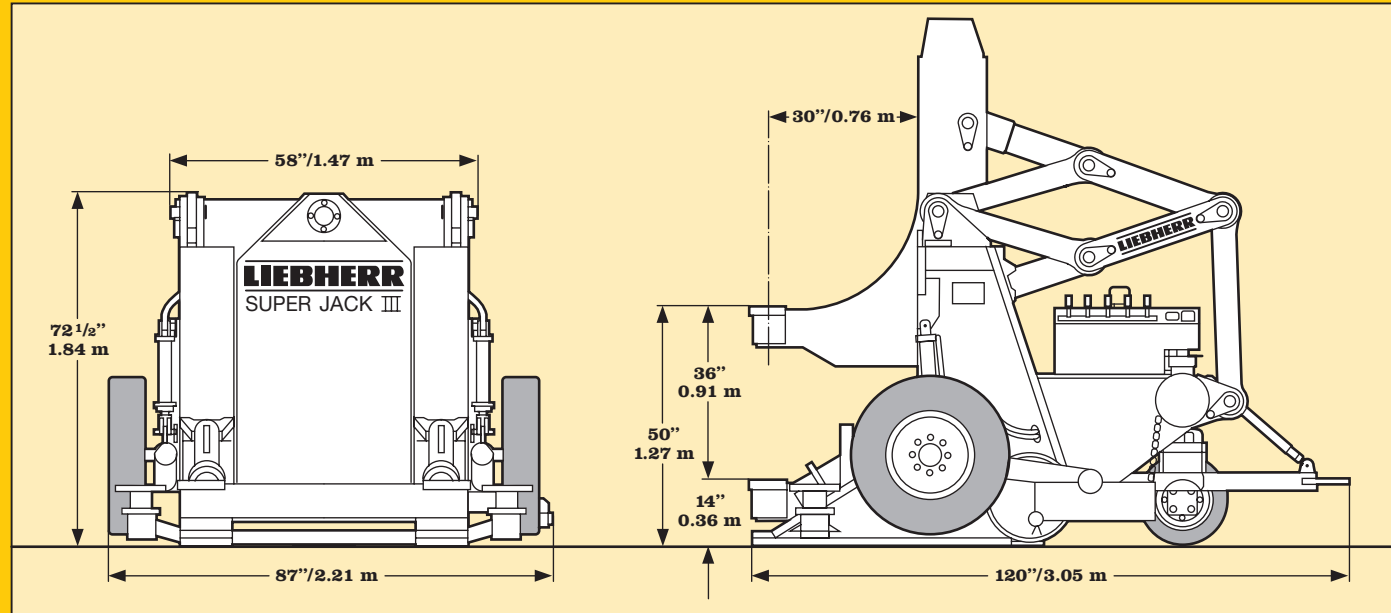
Three different adapters are available for use with the Wheel Handler as optional equipment:

- Front Suspension Module Adapter
- Suspension Removal Tool
- Cartridge and Armature Removal Tool

Note: The Liebherr Wheel Handler is intended for use inside a maintenance shop with a smooth, level hard-surfaced floor. Rough surfaces, or grades over 1% may limit performance or mobility.

Wheel Handler

Self propelled, towable jack with unequalled stability and adapters for different types of heavy earth moving equipment.



Specifications

- **Rated Lift Capacity** 90 short tons/82 t (180,000 lbs)
Up to 36"/0,91 m straight-line vertical lift.

- **Prime Power** Diesel engine
- **Propulsion** Hydraulic motorized wheel for self-propulsion or when required, the unit can also be towed.

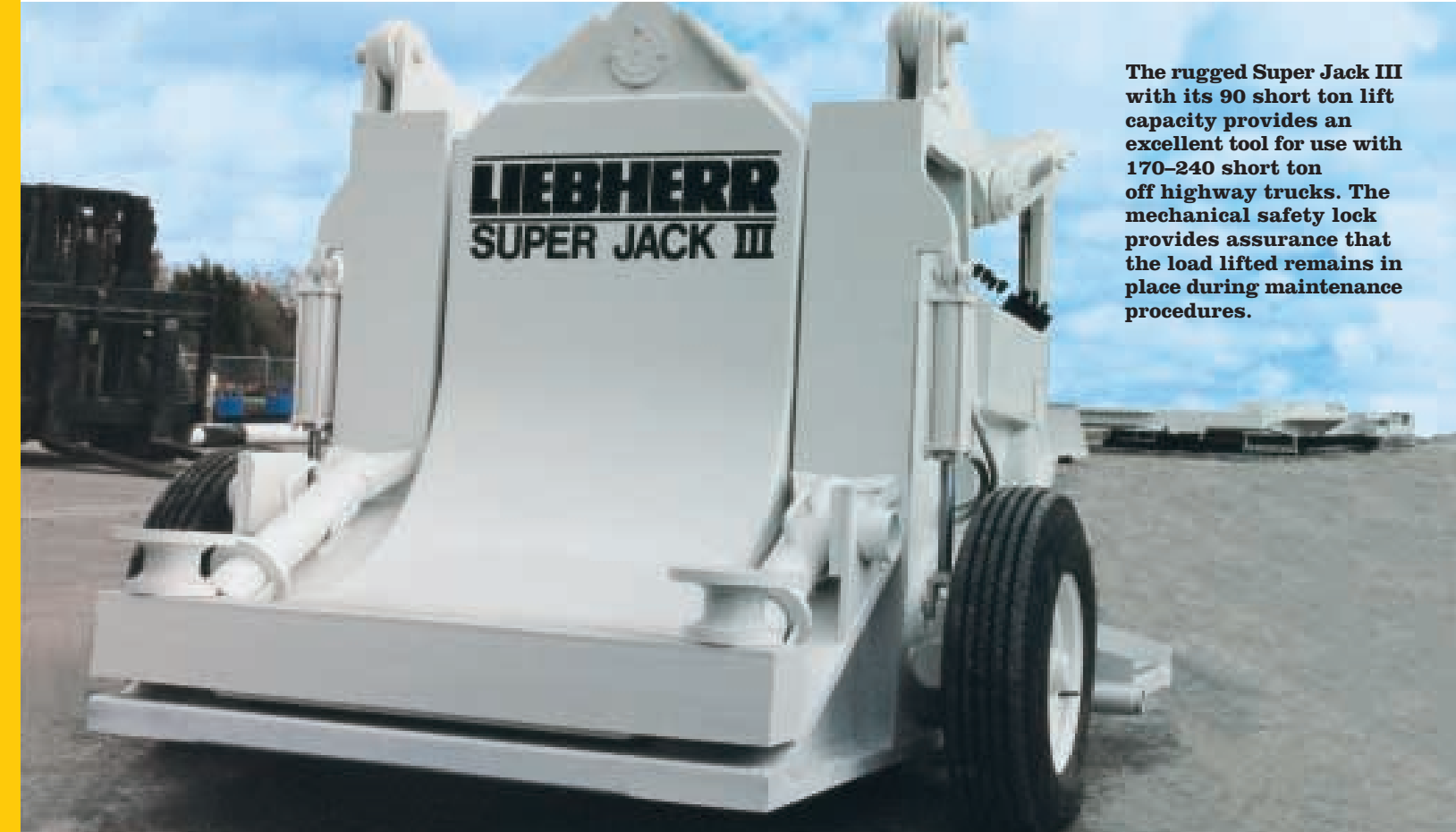
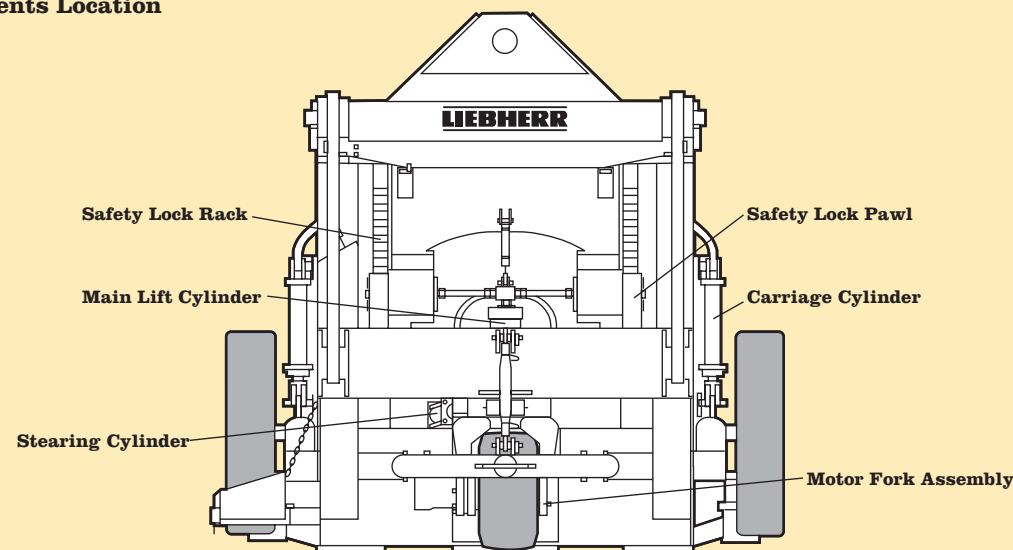
- **Steering** Hydraulic
- **Brake** Hydrostatic
- **Hydraulic Power** One 4,000 PSI/276 bar rated axial piston-type pump at 4.5 GPM/17 l/min.

Hydraulic Pressure Settings:

1. **Main Lift** Raise 4,000 PSI/276 bar
Lower 2,500 PSI/172 bar
2. **Propel** 2,000 PSI/138 bar

- **Safety Lock** Two pawls on lift carriage engage two racks on jack frame for positive mechanical lock.
- **Weight** 14,500 lbs/6,580 kg
- **Adapters** Available for different types of heavy equipment, to match front or rear lift points on equipment.

Major Components Location

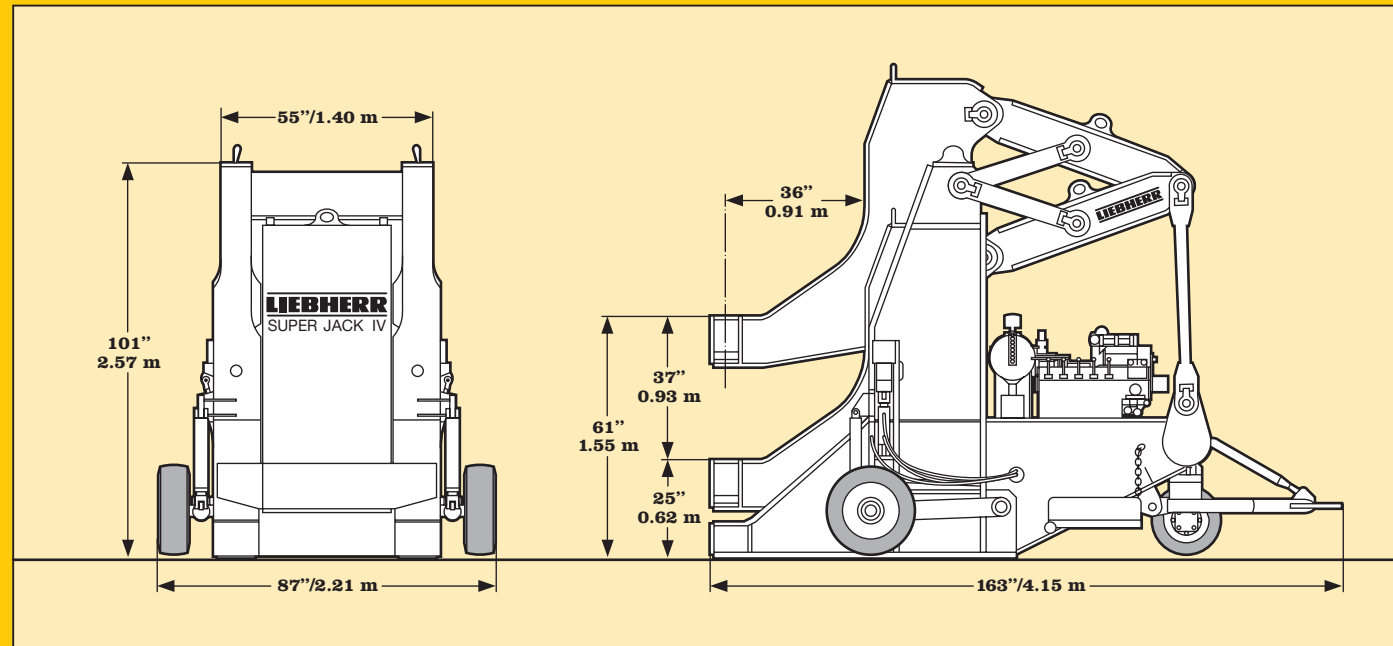


The rugged Super Jack III with its 90 short ton lift capacity provides an excellent tool for use with 170–240 short ton off highway trucks. The mechanical safety lock provides assurance that the load lifted remains in place during maintenance procedures.



Super Jack III

Self propelled jack with 120 short ton/109 tonnes capacity, for use with "ultra class" haul trucks, saves maintenance man hours.



The Super Jack IV is easily positioned for use with the largest haulage units. Once the Super Jack has completed the lift, the two pawls on the lift carriage are firmly locked in place.



Specifications

- **Rated Lift Capacity** 120 short tons/109 t (240,000 lbs)
- **Prime Power** Diesel engine
- **Propulsion** Hydraulic motorized wheel
- **Steering** Hydraulic
- **Retarding** Hydrostatic
- **Hydraulic Power** One 4,000 PSI/276 bar rated axial piston-type pump at 4.5 GPMM/17 l/min.

Hydraulic Pressure Settings:

1. **Main Lift** Raise 4,000 PSI/276 bar
Lower 2,500 PSI/172 bar
 2. **Propel** 2,000 PSI/138 bar
- **Safety Lock** Two pawls on lift carriage engage two racks on jack frame for positive mechanical lock.
 - **Weight** 20,300 lbs/9,200 kg
 - **Adapters** Available for different types of heavy equipment, to match front or rear lift points on equipment.

Note: The Liebherr Super Jack IV is intended for use inside a maintenance shop with a smooth, level hard-surfaced floor. Rough surfaces, or grades over 1% may limit performance or stability.

Heavy duty Super Jack IV, designed for use with over 300 short ton haulage trucks, provides a safe, stable lift.



Adapters are available for different types of heavy equipment and are stored on the Super Jack IV for easy access.

Super Jack IV