

## Boomlift / Manlift

Used Boom Lift Richmond - One of the commonest types of industrial equipment and aerial equipment is the boom lift. Boom lifts go by numerous names including cherry pickers, elevating work platforms, aerial platforms, aerial devices and mobile elevating work platforms; created to conduct jobs at higher elevations. There are many places to find boom lifts at work including warehouses, contractors, various companies and in retail stores. Keeping workers safe as they access conditions in a higher altitude is priceless. There is a wide variety of boom lift models to choose from. A single operator can control a variety of boom lift models. This machine is popular for harvesting fruit in locations such as orchards that historically relied on climbing dangerous ladders. Since ladders require even, solid ground for setting them up safely, they can be unreliable in the agricultural industry. Boom lifts make it much easier to reach high tree tops for collecting fruit.

**Gaining Access Over Obstacles** Certain boom lifts are designed to move up and over items. This makes working over obstacles possible. Having the capacity to reach an object even when you are unable to maneuver the equipment directly underneath has a variety of applications including window cleaning, telephone pole and line installation and service, fixing overhead cables and numerous other industries. With a variety of joints allowing the machine to bend over or under items, the articulated boom lift is helpful for numerous applications. These sections can independently move to allow workers to gain access to a variety of places. This equipment is popular in narrow storage locations and hallways thanks to its' tight turning radius. There are dual-fuel models that can work inside and outside; diesel is best utilized outside while interior locations rely on electric models.

**Articulating Boom Lifts** These boom lifts are popular for numerous construction and maintenance jobs. Articulated boom lifts are utilized commonly for working on overhead power lines and wires. Firefighters may use these machines and some articulated boom lifts have water cannons. Some models are built for extended reach applications and outfitted with telescoping sections. Certain articulating boom lifts can extend an additional six feet in any direction thanks to the additional jib in their design. Since these machines commonly work on steep ground and rough terrain, they resemble "spiders" with their long legs, and often go by that nickname on the job site. Interior articulating boom lifts are smaller and able to fit through doorways for use inside storage, warehouse and retail capacities. Interior models are typically electric boom lifts due to their lack of dangerous carbon monoxide exhaust and quieter features.

**Telescopic Boom Lifts** Telescopic boom lifts do not bend the way articulating boom lifts do. These models extend upwards and outwards, relying on hydraulics that extend and retract. No second operator is required as the platform operator can extend the lift with the controls. Some taller and larger models have a jib situated near the top that is similar to an articulating boom lift model. Boom lifts are available that reach higher than one-hundred and eighty feet. This equipment has been designed to be reliable and stable, with certain models capable of reaching their extended height in less than a minute. Adjustable speed, along with varying weight range capacities from 500 to 1000 lbs. are available in dual-fuel and diesel options. Boom lifts can fit through tiny spaces and there are 4WD options on the market. In terms of combining height and reach, telescopic boom lifts are your best bet.

**Jib** The jib is the extension found at the end of the main boom and between the platform. Certain models offer an additional articulation point or hinge that allows the platform to travel horizontally and vertically. Jibs are an option on many telescoping and articulating boom lifts. Articulating models have a joint situated roughly halfway between the wheels and the platform to enable it to reach over an obstacle and then lower again if required.

**Genie Articulating Boom Lifts** A well known articulating boom lift that can be seen in a variety of applications is the Genie Z-boom. This model features excellent mobility and is capable of accessing hard to reach areas. The machine can lift up, over and out with ease, making difficult locations easy to work with. The first Genie Z-30/20 articulating Z-boom model was launched in 1985. Thanks to their "up an over" abilities, they have gained the ultimate popularity that continues today.

**Proper Safety Measures** Safety is the utmost priority when operating any kind of boom

lift. It is essential that all potential safety hazards are known to anyone working within the area to maintain a safe atmosphere. Safely operating the equipment is a top priority for the operator and everyone in the working environment. Proper safety gear and communication need to be completed prior to operating. Be aware of any battery gases, engine fuels, combustible items, lit cigarettes or open flames near the machine and do not operate if any flammable or combustible items are present. For the ultimate safety, it is important to have a visible, safely mounted and accessible fire extinguisher within the operators reach. Maintaining a clear area around charging stations and work surfaces is important as tools or clutter could damage the boom lift or cause tire punctures etc. Daily Maintenance Daily maintenance includes a visual inspection and consulting the maintenance manual to ensure the machine is up to date and will operate safely. Stabilizing the weight is accomplished supportive devices to lift and distribute the load. Chains, fasteners and straps need to be inspected regularly to ensure they are in optimum condition. It is very dangerous to reuse single use fasteners and other components as they might fail if used beyond their recommendations. It is vital to discard oils and solvents safely and efficiently to prevent contaminating the environment. Safety can be increased with proper lighting and adequate ventilation along workbenches and within workshops and garages. Typically the wide umbrella of maintenance is distinguished by subsections such as Commissioning and Programmed Maintenance Intervals, Annual Maintenance, and Quarterly Maintenance. Maintenance Inspection Report Main aspects of the boom lift are categorized and divided to facilitate the inspection process. Popular categories include Engine, Drive Chassis, Platform, Booms, Turntable, Controls and Function. Improper completion can result in unsafe operation, damage to components, poor performance and downtime. The maintenance inspection report extend the performance and service life of the machine and needs to be accurately maintained to ensure the machine is safe to run and that the machine is capable of performing properly. A list of single maintenance procedures that need to be conducted at 50-hour and 150-hour intervals is known as commissioning. Quarterly and annual maintenance is required to be performed throughout the year. Maintenance procedures are based on the operating hours of the boom lift and programmed maintenance may be conducted during pre-delivery machine preparation. Consult your maintenance manual prior to operating to ensure all oil changes, battery life and fluid levels are primed for success.