

## Boomlift / Manlift

Used Boom Lift United States - 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. Warehouses, companies, contractors and retail operations and more rely on boom lifts on a daily basis. Workers need to remain safe as they access locations at higher altitudes. There is a wide variety of boom lift models to choose from. Most boom lifts can be successfully run with a single operator. Boom lifts are beloved in the agricultural and orchard industries, used to harvest fruit without requiring a separate ladder, they keep workers much safer since there is not climbing or bucket balancing involved. Ladders need to be secured on solid, even ground in order to be safely accessible, making them hard to rely on in a natural orchard setting. Relying on a boom lift is an easier and safer way to reach tree tops. Gaining Access Over Obstacles Some boom lift models can move up and over obstacles, making them ideal for working over top of items safely and efficiently. This equipment is used in numerous industries including installing telephone poles and lines, maintaining overhead cables and window cleaning applications due to their ability to reach items when it is not practical to situate the machine directly underneath the issue. With a variety of joints allowing the machine to bend over or under items, the articulated boom lift is helpful for numerous applications. To enable operators to access many places, these sections of the boom lift can move independently. Famous for their tight turning radius, articulated booms offer an ideal solution for narrow hallways and storage facilities. 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. Certain models are outfitted with water cannons to be used in firefighting applications. 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. The nickname "spiders" has been given to these boom lifts due to their legs which can support the machine on rough or steep terrain. Interior articulating boom lifts are smaller and able to fit through doorways for use inside storage, warehouse and retail capacities. Electric models are preferred in interior situations due to the danger that carbon monoxide exhaust poses and how much quieter these models are. 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. The worker who is in the platform has the controls to extend the lift and is able to operate without a second worker. Certain larger units feature a jib located at the top that looks similar to an articulating boom lift model. Boom lifts are available that reach higher than one-hundred and eighty feet. In less than a minute, some models can reach their full extended height since these machines are so stable and reliable. There are dual-fuel and diesel models available. Weight range capacities vary from 500 lbs. to 1000 lbs. and speed is adjustable. Available in 4WD and the ability to fit through small spaces. Telescopic boom lifts are your best choice for combining reach and height. Jib The jib is the extension found at the end of the main boom and between the platform. This enables extra reach and another articulation point or hinge for the platform to move side-to-side or up-and-down. Jibs are an option on many telescoping and articulating boom lifts. Articulating boom lifts have a joint found approximately halfway between the platform and the wheels to allow it to reach over obstacles. The operator can lower the machine again afterward if required. Genie Articulating Boom Lifts A popular type of articulating boom lift manufactured on the market is the Genie Z-boom Model. 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. In 1985, the first Genie Z-30/20 articulating Z-boom was introduced; their up-and-over capacity make them instantly popular and this design continues today. Proper

**Safety Measures** Of course, safety is the highest priority when operating any type of boom lift. Safety hazards must be advertised to everyone who is working in the area for best practices. Safe operation of the machine and personal safety must be paramount. Before starting the boom lift, it is paramount that the proper safety gear and communication is in place. Prior to operating, ensure there are no open flames, combustible or flammable items, lit cigarettes, battery gases or engine fuels present. Have a properly mounted, accessible and visible fire extinguisher mounted within 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** It is important to conduct a visual inspection prior to operating and to consult the maintenance manual to ensure everything is up to date. Stabilizing the weight is accomplished supportive devices to lift and distribute the load. Straps, fasteners and chains need to be checked they are in good condition. Single use components and fasteners cannot be reused due to their risk of failure. Environmental contamination can be prevented by properly discarding oils safely in an approved container. Adequate ventilation and lighting are essential in garages, workshops and along workbenches. To organize and specify, maintenance is categorized into a variety of subsections including Annual Maintenance, Quarterly Maintenance, Programmed and Commissioning Maintenance Intervals. Maintenance Inspection Report Key components of the boom lift are divided up to categorize the inspection process. Some of the maintenance categories for the boom lift include the Engine, Platform, Controls and Function, Turntable, Booms and Drive Chassis. 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. The term commissioning refers to a list of single maintenance procedures that need to be completed at 50- and 150-hour intervals to keep the machine optimally running. Annual and Quarterly maintenance procedures need to be performed once or multiple times a year. Programmed maintenance procedures are completed based on machine operating hours or during “pre-delivery” preparation. Prior to operating your equipment, check your maintenance manual to make sure all of the fluid levels, oil changes, battery life and maintenance are up to date.