

Boomlift / Manlift

Used Boom Lift South Dakota - One of the commonest types of industrial equipment and aerial equipment is the boom lift. Commonly known as aerial work platforms, mobile elevating work platforms, cherry pickers, aerial devices and elevating work platforms, it was engineered to complete work at higher locations more efficient and easier. Many industries rely on boom lifts every day including retail locations, construction contractors, companies and warehouses. Keeping workers safe as they access conditions in a higher altitude is priceless. The material handling industry offers many boom lift models. Most boom lifts can be successfully run with a single operator. This equipment became popular in the orchard industry to harvest fruit without having to climb a ladder and balance heavy baskets or pails. It can be difficult to secure a ladder on farmland or in orchard settings. Harvesting fruit is much safer and simpler with a boom lift compared to using a ladder. 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. Boom lifts can reach items even when it is impossible to move the machine right underneath the area you are working in, making it possible to fix overhead cables within telephone line and pole installation, window cleaning applications and similar circumstances. The articulated boom lift is an example that has numerous joints enabling it to bend over or under items. 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. The dual-fuel boom lifts provide service in both exterior and interior locations. Diesel models are used outside while electric boom lifts are implemented in interior locations. 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 even rely on them and some models feature water cannons. Telescoping sections are available on certain models to extend reach to the maximum. There are articulating boom lifts complete with an additional jib that allows the platform to extend an extra 6 feet in any direction. 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. Smaller units called interior articulating boom lifts are capable of fitting through doorways, making them valuable in retail, warehousing and storage facilities. Interior models are typically electric boom lifts due to their lack of dangerous carbon monoxide exhaust and quieter features. Telescopic Boom Lifts Articulating boom lifts and telescopic boom lifts move differently from each other. These models extend upwards and outwards, relying on hydraulics that extend and retract. The operator who is situated in the platform has the controls to operate and extend the lift on their own. Certain larger units feature a jib located at the top that looks similar to an articulating boom lift model. Some models of boom lifts can achieve a reach of more than 180 feet. These machines are built to be stable and reliable. Some are able to extend to their full height capacity in less than 60 seconds. There are dual-fuel and diesel models available. Weight range capacities vary from 500 lbs. to 1000 lbs. and speed is adjustable. With 4WD options and their capacity to travel through small spaces, boom lifts are used in a variety of industries. 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. This enables extra reach and another articulation point or hinge for the platform to move side-to-side or up-and-down. Articulating boom lifts and telescopic boom lifts may have jibs. 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 unit offers exceptional versatility for accessing difficult to reach locations with the capacity to lift up, over and out with precision. 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 Safety is the utmost priority when operating any kind of boom lift. Safety hazards must be advertised to everyone who is working in the area for best practices. Safely operating the equipment is a top priority for the operator and everyone in the working environment. Before starting the boom lift, it is paramount that the proper safety gear and communication is in place. Ensure there are no flammable or combustible items, open flame or lit cigarettes near the machine, engine fuels or battery gases. 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 It is important to conduct a visual inspection prior to operating and to consult the maintenance manual to ensure everything is up to date. Lifting and supportive devices need to stabilize the weight on hand. 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. Adequate ventilation and lighting are essential in garages, workshops and along workbenches. Maintenance is broad and typically categorized into subsections including Quarterly Maintenance, Annual Maintenance, Commissioning and Programmed Maintenance Intervals.

Maintenance Inspection Report Key components of the boom lift are divided up to categorize the inspection process. Common maintenance categories include Control and Function, Turntable, Booms, Platform, Drive Chassis and Engine. Improperly conducting maintenance can lead to unsafe working conditions, damaged components, reduced performance and ultimately 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. Commissioning refers to a list of one-time maintenance procedures to be complete at 50 hours and at 150 hour intervals. Annual and Quarterly maintenance procedures need to be performed once or multiple times a year. There are a variety of programmed maintenance procedures based on preparing the machine for pre-delivery machine operating. Set yourself up for success by consulting your maintenance manual before operating the equipment to ensure battery life, oil changes and fluid levels are ready to go.