

## Telehandler / Zoom Boom

Used Telehandler Hawaii - Telehandlers are commonly known by a variety of names such as Cherry pickers, telescopic handlers, boom lifts and teleporters. These machines are utilized in agriculture and many different industries. Similar to a crane and a forklift as it has a boom allowing it to extend forwards and upwards.

Many different attachments can be used at the end of the articulating boom to facilitate a wide number of jobs. Common attachments include pallet forks, a winch, a bucket or a muck grab. The pallet forks are the most popular telehandler attachment. Pallet forks enable the operator to move loads to and from a variety of locations that would otherwise be considered unreachable with a standard forklift. These machines enable cargo pallets to be unloaded and loaded from a trailer and placed on rooftops, racking or other high and hard to access locations. Typically, high locations would traditionally require a crane; however, telehandlers can facilitate these tasks easily and efficiently. It can be expensive and impractical to rely on a crane or expansive industrial equipment to finish particular tasks. Within agriculture, the bucket or bucket grab is among the most popular attachments. Relocating items from hard to reach areas that cannot rely on a wheeled loader or a backhoe loader give telehandlers a significant advantage. For instance, these industrial machines can directly access a hopper or trailer with high sides; applications that would otherwise rely on a conveyor, loading ramp or similar equipment. Relying on one piece of equipment to complete a variety of jobs saves time, money and storage. Telehandlers commonly work alongside a crane jib. Many attachments can be used such as power booms, grain and dirt buckets and rotators. Agricultural models can be outfitted with power take-off and 3-point linkage, making the telehandler and exceptionally useful. However, the main advantage of the telehandler is additionally its' largest limitation. The boom raises or extends with heavy loads, acting as a lever. Despite significant counterweights in the rear, the telehandler can be subject to instability at times, decreasing the lifting capacity as the working radius or distance between the center of the load and the front of the wheels increases. If the machine works as a single boom loader instead of using twin arms while carrying a large load, there is a chance that weakness can occur even in the most carefully designed units. A machine with a 5K lb. capacity could safely lift 400 lbs. while fully extended using a retracted low boom angle. The same piece of equipment with a five thousand pound lift capacity and retracted boom may be capable as supporting up to ten thousand pounds once the boom is raised to seventy degrees. There is a load chart on these machines to determine which tasks can be safely executed by taking the weight, angle and boom height into account. There are sensors and computers available on newer models. The operator is warned and even cut off further control input once the limits of the telehandler are surpassed. The lifting capacity is enhanced by front stabilizers that maximize the lifting capacity from a stationary position. A stabilizing rotary joint between the upper and lower frames may be called a mobile crane that can use a bucket. There are many models of telehandlers differing in size, weight, boom designs and reach.

Telehandlers that weigh 11,000 pounds or less fall into the compact category. Compact models feature a two-stage boom design in comparison to the three or four boom design that is common with larger units. Compact models rely on a low pivot boom to facilitate better cab visibility as the operator transports loads. Compact models are skinnier and have thinner dimensions. The reach capacity for compact units is between thirteen to twenty feet and these units offer a lift capacity from five to seven thousand pounds. These versatile machines make the compact telehandler extremely popular. This machine can be utilized for carrying tools or as a pick and place unit. Compact units are ideal for cramped locations. Residential applications are common as contractors relish their useful nature with framing applications and where height restrictions come into play. These units can be useful for accessing internal building locations. Compact telehandlers are commonly used in nurseries, landscaping, multi-story construction, building strip malls and garages, masonry, erecting steel and more. Agri-business and farming applications rely on telehandlers for a variety of jobs. Telehandlers are made with two or four-wheel drive as well as crab steering. This machine can traverse longer distances with

two-wheel drive at higher speeds to facilitate easy travel between worksites. The 4-WD units are capable of having a tighter turning radius and can travel difficult terrain. Crab steering enhances the units' maneuverability while allowing each set of wheels to move forty-five degrees to the right or left. Compact telehandlers have numerous cab environments to choose from. On entry-level models, there is a rollover cage for added safety. Newer units come with windshield wipers, a defroster, a heater and a totally enclosed cab. All compact telehandler cabs are spacious to accommodate the operator as comfortable as possible. Extra amenities including air conditioning, satellite radio, suspension seats, tilt steering and cup holders are available. Different high-flow auxiliary hydraulics and high-pressure hydraulics run the variety of attachments. The different attachments allow the machine to be capable of many options. All of these attachments enable the machine to conduct a variety of jobs. Compact units are more commonly utilized for ground engaging jobs. It is easy to enjoy the benefits of a mini excavator by adding a simple bucket attachment to the telehandler. Light and heavy-duty buckets can be used to move items, augers can plant trees or drill holes, rotating and side-shifting fork carriages facilitate pick-and-place, truss booms are in place for extending reach, sweeping brooms and crane hooks are other popular attachments. Skid steer options are made for compact telehandler designs and ultimate versatility.