

## Telehandler / Zoom Boom

Used Telehandler Mesa - Telehandlers go by many different names including a boom lift, telescopic handler, Cherry picker or teleporter. This industrial machine is commonly used in a variety of industries and in agriculture. Similar to a crane and a forklift as it has a boom allowing it to extend forwards and upwards. The operator can utilize a variety of attachments at the end of the articulating boom to complete different jobs. Different attachments such as a bucket, pallet forks, a muck grab or a winch can help the machine complete many jobs. The pallet forks are the most popular telehandler attachment. They allow the operator to transport loads to and from locations that are considered unreachable with a regular forklift. Telehandlers allow cargo pallets to be loaded and unloaded from a trailer and placed on high locations such as racking or rooftops. Often, high rooftop locations would need a crane although, telehandlers can accomplish these tasks much more efficiently. It isn't always practical or affordable to rely on a crane or secondary machinery to complete the job. Within agriculture, the bucket or bucket grab is among the most popular attachments. Moving items from unreachable locations that cannot be completed with a backhoe loader or wheeled loader give telehandlers a huge advantage. Telehandlers can directly access trailer units with high sides, hoppers or applications that would typically need a conveyor or loading ramp. Using one machine to finish numerous jobs saves storage space, money and time. Telehandler machines can work in conjunction with a crane jib. Many attachments can be used such as power booms, grain and dirt buckets and rotators. Three-point linkage and power take-off can be used with agricultural models to make this machine particularly capable. Conversely, the main advantage of this machine doubles as its' largest limitation. When raising or extending with heavy loads, the boom functions similar to a lever. Even with rear counterweights, this machine may become unstable from time to time; decreasing the lift capacity when the distance between the center of the load and the front of the wheels or the working radius 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 5000 lb. capacity telehandler could lift 400 lbs. safely while fully extended with a retracted boom in conjunction with a 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. There are front stabilizers that can drastically enhance the machine's lifting capacity while it is stationary. A mobile crane can also use a bucket is another option consisting of a stabilized rotary joint found between upper and lower frames. Compact telehandler models are available in a variety of different weights, reach, sizes and boom designs. 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. Compact telehandlers have a reach capacity ranging between 13 to 20 feet with a lift capacity ranging from 5k to 7k pounds. The versatility of the compact telehandler makes it popular in a variety of applications. This machine can be utilized for carrying tools or as a pick and place unit. It is commonly utilized in spaces that are tight and cramped. Residential applications are common as contractors relish their useful nature with framing applications and where height restrictions come into play. Telehandlers can enter internal building access in hard-to-reach locations. Compact units are popular in multi-story construction, nurseries, strip malls, landscaping, masonry, garage facilities and erecting steel among other applications. 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. Four-wheel drive units can travel over harder terrain while offering a tighter turning radius. Crab steering increases overall maneuvering and enables the front and back wheels to move 45 degrees to the left or the right. Compact telehandlers have varying cab environments. On entry-level models, there is a rollover cage for added safety. Higher models come with a heater, a completely enclosed cab, defroster and windshield wiper. Operators enjoy spacious accommodation for ultimate comfort. Additional options including satellite radio, air conditioning, armrests, cup holders, suspension seats and tilt steering are available. The numerous attachment options are facilitated with high-pressure and high-flow auxiliary hydraulics. 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 machines conduct 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 attachments are being made for versatility and other compact telehandler designs.