

Telehandler Truss Booms

The telehandler or telescopic handler is a frequently used machine in industrial and agricultural applications. This equipment is similar in appearance to a forklift and even works in a similar way, even though telehandlers are much more like a crane than forklift. It has a telescopic boom which can extend upward and forwards from the motor vehicle. The boom has the capability to fit one of several accessories like muck grab, pallet forks, a bucket or a lift table.

Pallet forks are the most common attachment designed for the telehandler. This machine is commonly utilized for moving loads to and from places that a standard lift truck would find unreachable. Telehandlers are especially helpful for placing loads on rooftops for example, or for removing palletized cargo from with a trailer. A lot of the jobs that a telehandler could accomplish would otherwise need a crane and this particular piece of equipment can be costly, not always time efficient and impractical.

The boom acts as a lever, raising and extending while bearing a load. Although there are rear counterweights, this might cause the telehandler to become more unstable. Therefore, the greatest advantage of the telehandler is also its greatest limitation. As the working radius increases, the lifting capacity lessens. The working radius is defined as the distance between the front of the wheels and the center of the load.

Like for example, a telehandler with a 5000 lb capability with the boom retracted can safely lift as little as 400 lb as soon as it is fully extended at a low boom angle. The equivalent machine that has a 5000 lb lift capacity and the boom retracted can support up to 10,000 lb with the boom raised to 70 degrees. The operator has a load chart to help determine whether a particular lifting task could be accomplished in a safe and efficient manner. This particular chart considers the weight, height and the boom angle.

A lot of telehandlers come equipped together with a computer which utilizes sensors to be able to monitor the vehicle. These sensors will alert the operator and some are capable of cutting off further control input if the limits of the vehicle are exceeded. Some telehandler kinds are also equipped together with front outriggers that are known as mobile cranes. These really extend the lifting capacity of the machinery while it is stationary.