

Telehandler Truss Booms

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

Pallet tines are the most common attachment designed for the telehandler. This particular equipment is normally utilized for moving loads to and from areas that a traditional lift truck will find inaccessible. Telehandlers are particularly useful for placing loads on rooftops for instance, or for removing palletized cargo from with a trailer. A lot of the jobs which a telehandler could carry out will otherwise require a crane and this piece of equipment could be costly, impractical and not always time efficient.

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

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

Several telehandlers come outfitted together with a computer that uses sensors so as to monitor the motor vehicle. These sensors would warn the operator and some are capable of cutting off further control input if the limits of the vehicle are exceeded. Some telehandler types are also equipped with front outriggers which are called mobile cranes. These greatly extend the lifting capability of the machinery while it is stationary.