

Telehandler Truss Boom

Telehandler Truss Boom - A telehandler or telescopic handler is an equipment which is commonly used in agricultural and industrial applications. It has a similar look to a lift truck and even works in a similar manner, although, the telehandler is more of a crane than a lift truck. It has a telescopic boom which could lengthen upward and forwards from the motor vehicle. The boom has the capability to fit one of several attachments like for example muck grab, pallet forks, a bucket or a lift table.

Pallet forks are the most common accessory designed for the telehandler. This particular machine is commonly used for transporting loads to and from areas which a standard forklift would find inaccessible. Telehandlers are particularly useful for placing loads on rooftops for instance, or for removing palletized cargo from with a trailer. Many of the tasks that a telehandler could complete would otherwise need a crane and this particular machine could be costly, not practical and not always time efficient.

The boom acts as a lever, extending and raising while bearing a load. Even though there are back counterweights, this can cause the telehandler to become more unstable. Thus, 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.

For example, a telehandler with a 5000 lb capacity with the boom retracted can safely lift as little as 400 lb when it is fully extended at a low boom angle. The equivalent equipment 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 certain lifting task can be done in a safe and efficient manner. This chart takes into consideration the boom angle, the weight and height.

In order to monitor the telehandler, they come outfitted along with a computer that uses sensors. These sensors work to warn the operator, with some being able to cut controls to certain inputs if the limits of the vehicle are exceeded. Several telehandler types are also outfitted with front outriggers which are referred to as mobile cranes. These significantly extend the lifting capacity of the equipment while it is stationary.