

Gradall Forklift Part

Gradall Forklift Parts - All through the time when WWII created a scarcity of workers, the legendary Gradall excavator was founded in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when so many men left the labor force and joined the military, depleting available workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to build an equipment that would save their business by making the slope grading work easier, more efficient and less manual.

The very first excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder that was utilized to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Soon improving the first design, the brothers made a triangular boom so as to add more strength. Additionally, they added a tilt cylinder that let the boom turn 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machinery to be outfitted with either a blade or a bucket attachment.

1992 marked a significant year for Gradall with their introduction of XL Series hydraulics, the most amazing change in the company's excavators since their creation. These top-of-the-line hydraulics systems enabled Gradall excavators to provide comparable power and high productivity on a realistic level to conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled grading and finishing work but had a difficult time competing for high productivity tasks.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were made along with a piston pump, high-pressure system of hydraulics which showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Conventional excavators make use of an operator in order to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the task at hand. This makes the operator's general task easier and likewise conserves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial machine market which are designed to deal with demolition, pavement removal, excavating and various industrial jobs. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to better position attachments and to work in low overhead areas.