

Gradall Forklift Parts

Gradall Forklift Parts - During the time when WWII created a scarcity of laborers, 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 business called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the workforce and joined the military, depleting available laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build an equipment that will save their company by making the slope grading work more efficient, less manual and easier.

The 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 back and forth. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Shortly improving the first design, the brothers built a triangular boom to add more strength. Moreover, they added a tilt cylinder that let the boom turn 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to allow the machinery to be outfitted with either a blade or a bucket attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems efficiently handled grading and finishing work but had a difficult time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were made with a piston pump, high-pressure system of hydraulics that showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was even developed along with a load-sensing capability. Conventional excavators use an operator so as to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the work at hand. This makes the operator's overall job easier and also conserves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial machinery market that are meant to tackle pavement removal, excavating, demolition as well as various industrial work. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.