

Gradall Forklift Parts

Gradall Forklift Part - During the period when WWII created a scarcity of workers, the famous Gradall excavator was born 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 signed up in the military, depleting available workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build an equipment which will save their company by making the slope grading job less manual, easier and more efficient.

Their first design prototype was a machine with two beams set on a rotating platform which was affixed over a used truck. A telescopic cylinder moved the beams forward and backward that allowed the fixed blade at the end of the beams to pull or push dirt. Soon enhancing the very first design, the brothers made a triangular boom to be able to add more strength. In addition, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to enable the equipment to be equipped with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more traditional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems efficiently handled finishing work and grading but had a hard 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 along 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 also developed together with a load-sensing capability. Conventional excavators utilize an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the task at hand. This makes the operator's overall task easier and even conserves fuel at the same time.

As soon as their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of machines designed to tackle pavement removal, excavation, demolition as well as other industrial jobs. Marketability was further enhanced with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.