

## Gradall Forklift Parts

Gradall Forklift Parts - Throughout the time when WWII caused a scarcity of workers, the legendary Gradall excavator was born in the 1940s as the creation of two brothers Koop and Ray Ferwerda. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the available laborers to perform the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers opted to make a machine which would save their business by making the slope grading work easier, more efficient and less manual.

The very first excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder which was used to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Soon improving the very first design, the brothers made a triangular boom to be able to add more strength. Also, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machine 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 initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively 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 lift and dig materials. With this series, the models were made with a piston pump, high-pressure system of hydraulics that showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Conventional excavators make use of an operator in order to pick 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 work easier and also saves fuel at the same time.

Once their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of machinery designed to deal with pavement removal, excavation, demolition and different industrial tasks. Marketability was further enhanced with their telescoping boom due to its exclusive ability to work in low overhead areas and to better position attachments.