

## Gradall Forklift Parts

Gradall Forklift Part - Throughout the period when World War II caused a scarcity of laborers, the well-known Gradall excavator was born in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Gresham construction company called Ferwerda-Werba-Ferwerda they lacked the available laborers in order to carry out the delicate job of grading and finishing on their freeway projects. The Ferwerda brothers decided to make a machine that would save their business by making the slope grading job more efficient, less manual and easier.

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 that was used to move the beams back and forth. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Before long improving the very first design, the brothers made a triangular boom in order to add more strength. In addition, they added a tilt cylinder that let the boom rotate 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to enable the machine to be equipped with either a blade or a bucket attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively handled grading and finishing work but had a hard 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 together 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 even developed together with a load-sensing capability. Traditional excavators make use of an operator to select a working-mode; where the Gradall system can automatically adjust the hydraulic power for the work at hand. This makes the operator's whole task easier and likewise conserves fuel simultaneously.

When the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machine market that are meant to tackle excavating, demolition, pavement removal and several industrial tasks. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.