

## Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's all through WWII, when there was a shortage of labourers. 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 so as to carry out the delicate tasks of grading and finishing on their interstate projects. The Ferwerda brothers decided to make a machine that will save their company by making the slope grading task less manual, easier and more efficient.

Their very first design prototype was a machine with two beams set on a rotating platform which was attached over a used truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to pull or push dirt. Before long enhancing the first design, the brothers made a triangular boom in order to add more strength. As well, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to allow the equipment to be outfitted with either a blade or a bucket attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machinery 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 traditional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled grading and finishing work 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 with a piston pump, high-pressure system of hydraulics which 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 to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the task at hand. This makes the operator's whole job easier and likewise saves fuel simultaneously.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial equipment market that are meant to tackle demolition, pavement removal, excavating as well as various industrial jobs. 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.