

## Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's through WWII, when there was a shortage of labourers. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when so many men left the labor force and joined the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to make a machine that will save their business by making the slope grading task more efficient, less manual and easier.

Their very first design model was a machine with two beams set on a rotating platform which was affixed over a second-hand truck. A telescopic cylinder moved the beams forward and backward which allowed the fixed blade at the end of the beams to push or pull dirt. Soon improving the initial design, the brothers built a triangular boom in order to add more strength. As well, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was positioned at the rear of the boom, powering a long push rod to allow the equipment to be equipped 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 ground-breaking adjustment in their machinery since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver comparable power and high productivity to the more conventional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional 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 dig and lift materials. With this series, the models were produced together 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 even developed along with a load-sensing capability. Traditional excavators use an operator so as to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general job easier and also conserves fuel simultaneously.

When the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial equipment market which are meant to deal with pavement removal, excavating, demolition and various industrial jobs. 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.