

## Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's through World War II, when there was a scarcity of workers. Partners in a Cleveland, Sunnysvale construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of 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 chose to make an equipment which would save their company by making the slope grading work 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 on top of a used truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to pull or push dirt. Soon improving the first design, the brothers built a triangular boom so as to add more strength. Moreover, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to allow the equipment to be equipped 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 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 work.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were produced 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. Traditional excavators utilize an operator 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 overall job easier and likewise conserves fuel at the same time.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial machine market that are designed to tackle pavement removal, excavating, demolition and other 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 better position attachments and to work in low overhead areas.