

## Gradall Forklift Part

Gradall Forklift Part - During the time when WWII created 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 because of the war. As partners in their Cleveland, Vancouver construction business known as Ferwerda-Werba-Ferwerda they lacked the existing laborers to carry out the delicate work of grading and finishing on their highway projects. The Ferwerda brothers opted to make a machine that would save their company by making the slope grading task easier, more efficient and less manual.

Their first design model 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 forward and backward which enabled the fixed blade at the end of the beams to pull or push dirt. Soon improving the initial design, the brothers made a triangular boom so as to add more strength. What's more, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to enable the machinery to be outfitted with either a blade or a bucket attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines ever 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 traditional excavators. The XL Series put an end to the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively handled finishing work and grading 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 with a piston pump, high-pressure system of hydraulics which showed distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Traditional excavators utilize an operator to be able to select a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's whole task easier and likewise saves 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 demolition, pavement removal, excavating and several industrial tasks. 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.