

## Gradall Forklift Part

Gradall Forklift Parts - Throughout the period when WWII caused a shortage of laborers, the legendary Gradall excavator was born in the 1940s as the idea of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the labor force and signed up in the military, depleting existing workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to make a machine that will save their business by making the slope grading work easier, more efficient and less manual.

Their first design prototype was a machine with two beams set on a rotating platform which was attached atop a used truck. A telescopic cylinder moved the beams forward and backward which allowed the fixed blade at the end of the beams to pull or push dirt. Shortly improving the first design, the brothers built a triangular boom in order to add more strength. Additionally, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machinery to be outfitted with either a blade or a bucket attachment.

1992 marked a crucial year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to deliver comparable power and high productivity on a realistic level to conventional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems efficiently 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 that showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Traditional excavators make use of an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power for the task at hand. This makes the operator's overall job easier and likewise saves fuel simultaneously.

As soon as their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of equipment meant to tackle excavation, demolition, pavement removal and different industrial tasks. Marketability was further improved with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.