

## Gradall Forklift Parts

Gradall Forklift Parts - Through the time when World War II created a scarcity of workers, the well-known Gradall excavator was founded in the 1940s as the creation of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when a lot of men left the labor force 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 a machine which will save their business by making the slope grading task less manual, easier and more efficient.

The initial excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder that was utilized to move the beams back and forth. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Shortly enhancing the very first design, the brothers made a triangular boom in order to add more strength. As well, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to enable the machine to be equipped 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 innovative adjustment in their machines ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled finishing work and grading but had a hard time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These models were manufactured together with a piston pump, high-pressure hydraulics system which showed huge improvements 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 to be able to select a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the task at hand. This makes the operator's whole job easier and likewise conserves fuel simultaneously.

As soon as their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of machines meant to deal with pavement removal, excavation, demolition and various industrial work. Marketability was further improved with their telescoping boom due to its exclusive ability to better position attachments and to work in low overhead areas.