

## Gradall Forklift Parts

Gradall Forklift Parts - During the time when WWII created a shortage of laborers, the legendary Gradall excavator was born in the 1940s as the idea of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Pomona construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the labor force and joined the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to make a machine which would save their business by making the slope grading task easier, more efficient and less manual.

The very first 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 which was utilized to move the beams back and forth. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Before long enhancing the initial design, the brothers built a triangular boom so as to add more strength. In addition, they added a tilt cylinder that let the boom turn 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to allow the machine to be equipped with either a bucket or a blade attachment.

The year 1992 marked a momentous year for Gradall with their introduction of XL Series hydraulics, the most remarkable change in the company's excavators ever since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to provide high productivity and comparable power on a realistic level to traditional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled finishing work and grading but had a difficult time competing for high productivity jobs.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were made along 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 also developed together with a load-sensing capability. Conventional excavators make use of an operator in order to select a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's overall work easier and even saves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machine market that are meant to deal with demolition, pavement removal, excavating 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 work in low overhead areas and to better position attachments.