

## Gradall Forklift Parts

Gradall Forklift Parts - Throughout the period when WWII created a scarcity of workers, the legendary Gradall excavator was founded in the 1940s as the idea of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Ventura construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and joined the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to make an equipment which would save their business by making the slope grading task more efficient, less manual and easier.

Their very first design prototype was a machine with two beams set on a rotating platform which was attached over a second-hand 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. Before long improving the very first design, the brothers built a triangular boom so as to add more strength. Also, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machine to be equipped with either a bucket or a blade attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more traditional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled grading and finishing work but had a hard time competing for high productivity tasks.

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 that showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was even developed along with a load-sensing capability. Traditional excavators utilize an operator to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's whole task easier and even conserves fuel at the same time.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial machine market that are designed to tackle demolition, pavement removal, excavating as well as different industrial jobs. 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.