

## Gradall Forklift Part

Gradall Forklift Parts - Through the time when World War II caused a scarcity of workers, the legendary Gradall excavator was founded in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Waco construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce 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 will save their company by making the slope grading task more efficient, less manual and easier.

The very first excavator prototype consisted of a device 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 backward and forward. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Before long improving the initial design, the brothers built a triangular boom so as to add more strength. As well, 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 equipped with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery 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 conventional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled grading and finishing work but had a difficult time competing for high productivity work.

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 which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Traditional excavators utilize an operator in order to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's general work easier and also conserves fuel at the same time.

As soon as their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machines meant to tackle pavement removal, excavation, demolition as well as several 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.