

## Gradall Forklift Parts

Gradall Forklift Part - During the period when World War II caused a shortage of laborers, the well-known Gradall excavator was established in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Scottsdale construction company referred to as Ferwerda-Werba-Ferwerda they lacked the existing laborers to be able to carry out the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers opted to make a machine that would save their business by making the slope grading work easier, more efficient and less manual.

The 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 allowed the fixed blade at the far end of the beams to push or pull the dirt. Before long enhancing the initial design, the brothers made a triangular boom to add more strength. Additionally, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machine to be outfitted with either a bucket or a blade attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions were made with a piston pump, high-pressure hydraulics system that showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Conventional excavators utilize an operator so as to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the job at hand. This makes the operator's whole job easier and even saves fuel at the same time.

As soon as their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machinery designed to deal with demolition, pavement removal, excavating and other industrial work. Marketability was further enhanced with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.