

## Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was founded in the 1940's all through WWII, when there was a shortage of workers. Partners in a Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when so many men left the workforce and joined the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose 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 improving the initial design, the brothers made a triangular boom so as to add more strength. Additionally, they added a tilt cylinder that let the boom turn 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 outfitted with either a bucket or a blade attachment.

The year 1992 marked a significant year for Gradall with their launch of XL Series hydraulics, the most dramatic change in the company's excavators since their creation. These top-of-the-line hydraulics systems enabled Gradall excavators to deliver comparable power and high productivity on a realistic level to traditional excavators. The XL Series put an end to the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were manufactured together with a piston pump, high-pressure hydraulics system that showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Traditional excavators use an operator to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the job at hand. This makes the operator's overall job easier and also conserves fuel at the same time.

When their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of equipment designed to tackle demolition, pavement removal, excavating as well as other industrial work. Marketability was further enhanced with their telescoping boom due to its exclusive ability to work in low overhead areas and to better position attachments.