

Gradall Forklift Part

Gradall Forklift Parts - Through the time when World War II caused a shortage of laborers, the well-known Gradall excavator was established in the 1940s as the creation of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when a lot of men left the workforce and joined the military, depleting existing workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to build an equipment that would save their company by making the slope grading job less manual, easier and more efficient.

Their first design prototype was a machine with two beams set on a rotating platform which was affixed on top of a used truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to pull or push dirt. Before long enhancing the first design, the brothers made a triangular boom in order to add more strength. In addition, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to enable the machinery to be outfitted with either a blade or a bucket attachment.

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

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were made along with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Traditional excavators utilize an operator so as to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power for the task at hand. This makes the operator's general task easier and likewise saves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial equipment market which are designed to deal with excavating, demolition, pavement removal and various 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.