

Gradall Forklift Parts

Gradall Forklift Parts - Through the period when WWII created a scarcity of laborers, the legendary Gradall excavator was born in the 1940s as the idea of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda they lacked the available laborers to perform the delicate tasks of finishing and grading on their interstate projects. The Ferwerda brothers opted to make an equipment which would save their company by making the slope grading job 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 used truck. There was a telescopic cylinder that was utilized to move the beams back and forth. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Before long improving the very first design, the brothers made a triangular boom to be able to add more strength. As well, they added a tilt cylinder which let the boom turn 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 blade or a bucket 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 conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled grading and finishing work but had a hard time competing for high productivity work.

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

Once the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial equipment market that are designed to deal with excavating, demolition, pavement removal and various 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 better position attachments and to work in low overhead areas.