

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was established In the 1940's through WWII, when there was a shortage of workers. Partners in a Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when so many men left the labor force and signed up in the military, depleting existing workers 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 work more efficient, less manual and easier.

Their first design prototype was a device 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 allowed the fixed blade at the end of the beams to push or pull dirt. Before long enhancing the initial design, the brothers made a triangular boom to be able to add more strength. Additionally, they added a tilt cylinder that let the boom turn 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to enable the machine to be equipped with either a bucket or a blade attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery ever since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver comparable power and high productivity to the more conventional excavators. The XL Series ended the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems efficiently handled finishing work and grading but had a hard time competing for high productivity jobs.

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

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial machinery market that are meant to tackle pavement removal, excavating, demolition as well as various industrial work. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.