

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and Ray Ferwerda. The excavator was founded in the 1940's throughout WWII, when there was a scarcity of workers. Partners in a Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and signed up in the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to build an equipment which would save their company by making the slope grading task easier, more efficient and less manual.

Their first design model was a device with two beams set on a rotating platform that was affixed over a used truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to push or pull dirt. Soon improving the first design, the brothers built a triangular boom in order to add more strength. Moreover, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to allow the equipment to be outfitted with either a blade or a bucket attachment.

Gradall launched in 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 allowed the Gradall excavator to deliver comparable power and high productivity to the more conventional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled finishing work and grading but had a difficult time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These models 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 also developed along with a load-sensing capability. Conventional excavators make use of an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power for the work at hand. This makes the operator's general task easier and even conserves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machinery market which are designed to deal with excavating, demolition, pavement removal as well as several 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.