

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's all through WWII, when there was a shortage of labourers. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when lots of men left the labor force and signed up in the military, depleting available laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to make a machine that will save their business by making the slope grading task less manual, easier and more efficient.

Their first design model was a device with two beams set on a rotating platform which was attached on top of a second-hand truck. A telescopic cylinder moved the beams forward and backward which allowed the fixed blade at the end of the beams to pull or push dirt. Soon improving the first design, the brothers made a triangular boom so as to add more strength. Additionally, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the equipment to be equipped with either a blade or a bucket attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machinery ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems successfully handled finishing work and grading but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These models were manufactured along 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. Conventional excavators utilize 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 overall job easier and likewise conserves fuel at the same time.

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