

Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the brainchild of two brothers Koop and Ray Ferwerda. The excavator was established in the 1940's during WWII, when there was a scarcity of labourers. Partners in a Cleveland, Antioch construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the workforce 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 a machine that will save their company by making the slope grading work more efficient, less manual and easier.

Their very first design prototype was a device with two beams set on a rotating platform that was attached atop 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. Soon enhancing the initial design, the brothers built a triangular boom in order 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 rear of the boom, powering a long push rod to enable the equipment to be outfitted 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 innovative adjustment in their machinery since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver high productivity and comparable power to the more traditional excavators. The XL Series ended the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems efficiently handled grading and finishing work but had a difficult time competing for high productivity jobs.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were made 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 even developed together with a load-sensing capability. Traditional excavators utilize an operator in order to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general work 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 extremely competitive industrial equipment market that are designed to deal with excavating, demolition, pavement removal as well as different industrial work. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to better position attachments and to work in low overhead areas.