

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was created in the 1940's throughout World War II, when there was a shortage of labourers. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the labor force and signed up in the military, depleting available workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build a machine that would save their company by making the slope grading task more efficient, less manual and easier.

Their first design prototype was a device with two beams set on a rotating platform that was affixed over a used truck. A telescopic cylinder moved the beams forward and backward that enabled the fixed blade at the end of the beams to pull or push dirt. Soon improving the initial design, the brothers built a triangular boom to add more strength. In addition, 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 allow the equipment to be outfitted with either a bucket or a blade attachment.

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

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced along with a piston pump, high-pressure system of hydraulics which showed distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Conventional excavators use an operator so as to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the work at hand. This makes the operator's whole 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 extremely competitive industrial machinery market which are meant to tackle pavement removal, excavating, demolition and several 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.