

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 all through WWII, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda they lacked the existing workers to be able to do the delicate work of grading and finishing on their interstate projects. The Ferwerda brothers opted to make an equipment which will save their company by making the slope grading job easier, more efficient and less manual.

Their first design prototype was a machine with two beams set on a rotating platform which was affixed atop a second-hand truck. A telescopic cylinder moved the beams forward and backward that enabled 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 so as to add more strength. As well, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machinery 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 machines ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide high productivity and comparable power to the more traditional excavators. The XL Series ended the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems efficiently handled grading and finishing work but had a hard time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced with a piston pump, high-pressure system of hydraulics that showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Traditional excavators utilize an operator so as to select a working-mode; where the Gradall system could automatically adjust the hydraulic power for the task at hand. This makes the operator's whole work easier and likewise saves fuel simultaneously.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial equipment market which are designed to tackle excavating, demolition, pavement removal as well as several 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.