

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. The brothers faced the problems of a depleted labor force 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 perform the delicate job of finishing and grading on their highway projects. The Ferwerda brothers chose to build an equipment which will save their business by making the slope grading task more efficient, less manual and easier.

Their very first design model was a machine with two beams set on a rotating platform that was attached on top of a used truck. A telescopic cylinder moved the beams forward and backward that allowed the fixed blade at the end of the beams to pull or push dirt. Shortly improving the very first design, the brothers built a triangular boom so as to add more strength. Moreover, 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 enable the machine to be outfitted with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver comparable power and high productivity to the more traditional excavators. The XL Series put an end to the first 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 tasks.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were made 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 utilize an operator to be able to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the task at hand. This makes the operator's whole work easier and likewise conserves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machinery market that are meant to tackle demolition, pavement removal, excavating 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.