

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was founded In the 1940's during WWII, when there was a scarcity of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the available laborers so as to perform the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers decided to build a machine which will save their business by making the slope grading work less manual, easier and more efficient.

Their very first design model was a machine with two beams set on a rotating platform which was affixed on top of a used truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to push or pull dirt. Soon enhancing the first design, the brothers made a triangular boom to add more strength. What's more, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machine 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 ground-breaking adjustment in their machines since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide high productivity and comparable power to the more conventional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled grading and finishing work but had a hard 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 along with a piston pump, high-pressure system of hydraulics which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Traditional excavators make use of an operator so as to select a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the work at hand. This makes the operator's overall task easier and also conserves fuel at the same time.

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