

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's throughout WWII, when there was a shortage of workers. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Phoenix construction business known as Ferwerda-Werba-Ferwerda they lacked the available laborers so as to carry out the delicate tasks of grading and finishing on their highway projects. The Ferwerda brothers decided to make a machine that would save their business by making the slope grading job more efficient, less manual and easier.

The initial excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder that was used to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Shortly enhancing the very first design, the brothers built a triangular boom in order to add more strength. Also, they added a tilt cylinder that let the boom rotate 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to allow the machine to be outfitted with either a blade or a bucket attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their equipment since their invention. 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 put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively handled grading and finishing work but had a difficult time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were made together with a piston pump, high-pressure system of hydraulics that showed distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Conventional excavators make use of an operator in order to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the job at hand. This makes the operator's overall work easier and likewise saves fuel simultaneously.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial equipment market that are meant to tackle demolition, pavement removal, excavating and various 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 work in low overhead areas and to better position attachments.