Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was created 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 referred to as Ferwerda-Werba-Ferwerda they lacked the available workers to be able to perform the delicate job of grading and finishing on their highway projects. The Ferwerda brothers decided to build a machine which would save their business by making the slope grading work easier, more efficient and less manual.

The initial excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder which was utilized to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Soon enhancing the initial design, the brothers made 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 positioned at the rear of the boom, powering a long push rod to enable the equipment to be equipped with either a blade or a bucket attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver comparable power and high productivity 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 finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These versions were manufactured together with a piston pump, high-pressure hydraulics system that showed great improvements 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 in order to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the job at hand. This makes the operator's whole task easier and likewise saves fuel simultaneously.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial machine market which are designed to deal with demolition, pavement removal, excavating and various industrial jobs. 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.