Gradall Forklift Part

Gradall Forklift Part - During the period when World War II caused a scarcity of workers, the well-known Gradall excavator was founded in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Vallejo construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when lots of men left the workforce and joined the military, depleting available laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make an equipment which would save their business by making the slope grading work easier, more efficient and less manual.

Their very first design model was a device 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 which enabled the fixed blade at the end of the beams to pull or push dirt. Before long enhancing the first design, the brothers built a triangular boom to be able to add more strength. Moreover, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the equipment 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 ground-breaking adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more traditional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively handled finishing work and grading but had a hard time competing for high productivity tasks.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were manufactured along with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed with a load-sensing capability. Conventional excavators use an operator so as to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power for the task at hand. This makes the operator's general task easier and likewise conserves fuel simultaneously.

When the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial machine market that are designed to tackle pavement removal, excavating, demolition as well as different 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.