Gradall Forklift Part

Gradall Forklift Parts - Throughout the period when WWII caused a shortage of workers, the well-known Gradall excavator was established in the 1940s as the idea of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda they lacked the existing workers to be able to do the delicate tasks of finishing and grading on their interstate projects. The Ferwerda brothers opted to make a machine that would save their business by making the slope grading job easier, more efficient and less manual.

Their first design prototype was a machine with two beams set on a rotating platform which was attached over a second-hand truck. A telescopic cylinder moved the beams forward and backward that allowed the fixed blade at the end of the beams to push or pull dirt. Shortly enhancing the initial design, the brothers built a triangular boom so as to add more strength. Additionally, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to allow the machinery to be equipped with either a bucket or a blade attachment.

Gradall launched in the year 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 enabled the Gradall excavator to provide high productivity and comparable power 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 conventional systems effectively handled finishing work and grading but had a difficult time competing for high productivity tasks.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These versions were made with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Conventional excavators use an operator 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 overall task easier and also 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 designed to tackle pavement removal, excavating, demolition as well as 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 work in low overhead areas and to better position attachments.