Gradall Forklift Parts

Gradall Forklift Parts - Throughout the time 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 Ray and Koop Ferwerda. Partners in a Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and signed up in the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make an equipment which would save their company by making the slope grading job more efficient, less manual and easier.

Their initial design prototype was a device with two beams set on a rotating platform that was attached atop a second-hand truck. A telescopic cylinder moved the beams forward and backward which 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 so as to add more strength. Additionally, they added a tilt cylinder which 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 machinery 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 machinery since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver 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 efficiently handled grading and finishing work but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions 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 likewise developed along with a load-sensing capability. Traditional excavators use an operator to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's overall work easier and likewise conserves fuel at the same time.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machinery market that are designed to deal with demolition, pavement removal, excavating and several 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.