Gradall Forklift Parts

Gradall Forklift Part - Through the time when World War II created a scarcity of workers, the legendary Gradall excavator was established in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Surprise construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of 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 chose to build an equipment which would save their business by making the slope grading work more efficient, less manual and easier.

Their initial design model was a machine with two beams set on a rotating platform that was affixed on top of 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 first design, the brothers built a triangular boom so as to add more strength. What's more, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machine 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 invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver comparable power and high productivity to the more conventional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled finishing work and grading but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These models were made together with a piston pump, high-pressure hydraulics system which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Traditional excavators use an operator so as to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power for the job at hand. This makes the operator's overall work easier and even saves fuel simultaneously.

As soon as their XL Series hydraulics became available, Gradall was basically thrust into the highly competitive market of machinery designed to deal with excavation, demolition, pavement removal and various industrial jobs. Marketability was further enhanced with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.