Gradall Forklift Part

Gradall Forklift Parts - During the time when WWII created a shortage of workers, the well-known Gradall excavator was born in the 1940s as the idea of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the labor force and joined the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to make a machine that would save their business by making the slope grading work easier, more efficient and less manual.

Their very first design prototype was a device with two beams set on a rotating platform that was attached on top of a second-hand truck. A telescopic cylinder moved the beams forward and backward that enabled the fixed blade at the end of the beams to pull or push dirt. Soon enhancing the first design, the brothers built a triangular boom in order to add more strength. Also, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machinery to be outfitted 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 innovative adjustment in their machines 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 first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively handled finishing work and grading but had a hard time competing for high productivity jobs.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were made together with a piston pump, high-pressure system of hydraulics which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Conventional excavators make use of an operator to be able to select a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's whole work easier and also conserves fuel simultaneously.

When their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of machines meant to tackle excavation, demolition, pavement removal as well as several industrial jobs. Marketability was further improved with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.