Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was established In the 1940's through World War II, when there was a shortage of labourers. Partners in a Cleveland, Tucson construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the workforce and joined the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers chose to build an equipment that would save their company by making the slope grading task easier, more efficient and less manual.

Their initial design prototype was a device with two beams set on a rotating platform which was attached on top of a second-hand truck. A telescopic cylinder moved the beams forward and backward which allowed the fixed blade at the end of the beams to pull or push dirt. Soon improving the very first design, the brothers built a triangular boom to add more strength. Additionally, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was placed 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.

The year 1992 marked a momentous year for Gradall with their introduction of XL Series hydraulics, the most amazing change in the company's excavators since their invention. These top-of-the-line hydraulics systems allowed Gradall excavators to provide high productivity and comparable power on a realistic level to traditional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems successfully handled grading and finishing work 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 produced 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 together with a load-sensing capability. Conventional excavators utilize an operator to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the job at hand. This makes the operator's overall job easier and likewise conserves fuel at the same time.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial equipment market which are meant to tackle demolition, pavement removal, excavating as well as different industrial tasks. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.