

Gradall Forklift Part

Gradall Forklift Parts - Throughout the time when WWII caused a shortage of workers, the well-known Gradall excavator was born in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the available workers to do the delicate work of finishing and grading on their interstate projects. The Ferwerda brothers chose to make a machine which would save their business by making the slope grading work easier, more efficient and less manual.

Their very first design prototype was a machine with two beams set on a rotating platform which was affixed on top of a second-hand truck. A telescopic cylinder moved the beams back and forth which enabled the fixed blade at the end of the beams to pull or push dirt. Soon improving the initial design, the brothers built a triangular boom so as to add more strength. Furthermore, they added a tilt cylinder that let the boom turn 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 outfitted with either a blade or a bucket attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever 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 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 efficiently handled grading and finishing work but had a hard time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These versions were made together 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 with a load-sensing capability. Traditional excavators utilize an operator in order to pick 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 also conserves fuel at the same time.

When the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial equipment market which are designed to tackle excavating, demolition, pavement removal as well as other 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.