

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and Ray Ferwerda. The excavator was created in the 1940's during WWII, when there was a shortage of labourers. Partners in a Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the workforce and joined the military, depleting available laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to build a machine which would save their company by making the slope grading work less manual, easier and more efficient.

Their first design model 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 back and forth that allowed the fixed blade at the end of the beams to pull or push dirt. Before long improving the very first design, the brothers made a triangular boom to add more strength. Furthermore, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the equipment to be outfitted with either a bucket or a blade attachment.

The year 1992 marked a crucial year for Gradall with their introduction of XL Series hydraulics, the most remarkable change in the company's excavators since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to deliver comparable power and high productivity on a realistic level to traditional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were manufactured along with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Traditional excavators utilize an operator to be able to select a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the work at hand. This makes the operator's general job easier and likewise conserves fuel simultaneously.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial machine market which are meant to deal with excavating, demolition, pavement removal as well as different 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.