

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's through WWII, when there was a shortage of workers. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when a lot of men left the labor force and joined the military, depleting existing workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build an equipment that would save their business by making the slope grading work more efficient, less manual and easier.

The very first excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder that was used to move the beams back and forth. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Shortly improving the first design, the brothers built a triangular boom in order to add more strength. Moreover, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machine to be equipped 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 equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide comparable power and high productivity to the more traditional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled finishing work and grading but had a difficult time competing for high productivity tasks.

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

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial equipment market that are designed to tackle demolition, pavement removal, excavating and 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 better position attachments and to work in low overhead areas.