

Gradall Forklift Part

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 WWII, when there was a scarcity of labourers. Partners in a Cleveland, Everett construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and joined the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make an equipment which will save their business by making the slope grading work more efficient, less manual and easier.

Their initial design prototype was a machine 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. Shortly improving the very first design, the brothers built a triangular boom in order 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 back of the boom, powering a long push rod to enable the machinery to be outfitted with either a bucket or a blade attachment.

1992 marked a momentous 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 enabled Gradall excavators to deliver high productivity and comparable power on a realistic level to traditional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems efficiently handled grading and finishing work but had a difficult time competing for high productivity jobs.

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

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial machinery market that are meant to deal with excavating, demolition, pavement removal 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.