

Gradall Forklift Part

Gradall Forklift Parts - Through the time when World War II created a scarcity of laborers, the famous Gradall excavator was born in the 1940s as the creation of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the workforce and joined the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to make a machine that will save their company by making the slope grading job less manual, easier and more efficient.

Their initial design prototype was a machine with two beams set on a rotating platform which was affixed atop a second-hand truck. A telescopic cylinder moved the beams forward and backward which enabled the fixed blade at the end of the beams to pull or push dirt. Soon enhancing the initial design, the brothers built a triangular boom to add more strength. In addition, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machinery to be equipped with either a bucket or a blade attachment.

1992 marked a significant year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators ever since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to provide high productivity and comparable power on a realistic level to conventional excavators. The XL Series put an end to the initial 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 jobs.

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 that showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Conventional excavators make use of an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the job at hand. This makes the operator's overall work easier and likewise saves fuel simultaneously.

When the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial machine market that are meant to tackle excavating, demolition, pavement removal and various industrial tasks. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to better position attachments and to work in low overhead areas.