

Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's through WWII, when there was a scarcity of labourers. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when numerous men left the workforce and signed up in the military, depleting available laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build a machine which would save their business by making the slope grading job easier, more efficient and less manual.

The initial excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder that was utilized to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Soon improving the very first design, the brothers made a triangular boom in order to add more strength. As well, they added a tilt cylinder which 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 equipment to be outfitted with either a blade or a bucket attachment.

1992 marked a significant year for Gradall with their launch of XL Series hydraulics, the most dramatic 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 conventional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions were made 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 use an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the task at hand. This makes the operator's whole task easier and likewise saves fuel at the same time.

When the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial equipment market which are meant to tackle pavement removal, excavating, demolition and other 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.