

Gradall Forklift Parts

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 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 workforce and joined the military, depleting existing 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 task easier, more efficient and less manual.

The initial excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder that was used to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Shortly enhancing the first design, the brothers made a triangular boom to add more strength. Also, they added a tilt cylinder that 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 allow the machine to be outfitted with either a bucket or a blade attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery 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 conventional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems efficiently handled grading and finishing work 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 along 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 utilize an operator to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general task easier and even saves fuel at the same time.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machinery market which are meant to deal with demolition, pavement removal, excavating and different industrial work. 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.