

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was founded In the 1940's during World War II, when there was a shortage of workers. Partners in a Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the workforce and signed up in the military, depleting existing laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to make an equipment that would save their company by making the slope grading work less manual, easier and more efficient.

The 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 which was utilized to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Soon improving the initial design, the brothers made a triangular boom to be able to add more strength. Additionally, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machine to be outfitted with either a bucket or a blade attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems successfully handled finishing work and grading but had a difficult time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced with a piston pump, high-pressure system of hydraulics that showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed together with a load-sensing capability. Conventional excavators make use of an operator to select a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's general task easier and also conserves fuel at the same time.

As soon as their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of machines designed to deal with excavation, demolition, pavement removal as well as different industrial jobs. Marketability was further enhanced with their telescoping boom due to its exclusive ability to work in low overhead areas and to better position attachments.