

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's through World War II, when there was a scarcity of workers. Partners in a Cleveland, Chula Vista construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and joined the military, depleting existing workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to make a machine which will save their business by making the slope grading job less manual, easier and more efficient.

The very first 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 used 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 enhancing the initial design, the brothers made a triangular boom so as to add more strength. Additionally, 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 enable the machinery to be equipped 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 ground-breaking 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 traditional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively handled finishing work and grading but had a difficult time competing for high productivity jobs.

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

As soon as their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of machinery meant to deal with pavement removal, excavation, demolition and various industrial tasks. Marketability was further improved with their telescoping boom due to its exclusive ability to better position attachments and to work in low overhead areas.