

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was created in the 1940's during WWII, when there was a scarcity of labourers. Partners in a Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the labor force and joined the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to make a machine which would save their company by making the slope grading task less manual, easier and more efficient.

Their initial design prototype was a machine with two beams set on a rotating platform which was attached over a used truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to pull or push dirt. Shortly improving the first design, the brothers built a triangular boom to add more strength. Moreover, 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 allow the machinery to be outfitted with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver comparable power and high productivity to the more traditional excavators. The XL Series put an end to the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. 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 lift and dig materials. With this series, the models were produced with a piston pump, high-pressure system of hydraulics that 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 make use of an operator to be able to select a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's overall task easier and even saves fuel simultaneously.

Once 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 pavement removal, excavating, demolition as well as different industrial jobs. 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.