

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's during WWII, when there was a scarcity of workers. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the existing laborers to be able to do the delicate job of grading and finishing on their freeway projects. The Ferwerda brothers opted to build a machine which would save their company by making the slope grading work less manual, easier and more efficient.

The initial 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 that was utilized 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. Soon enhancing the initial design, the brothers made a triangular boom to add more strength. Also, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to enable the machine to be outfitted with either a bucket or a blade attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide high productivity and comparable power to the more traditional excavators. The XL Series ended the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional 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 along 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 even developed along with a load-sensing capability. Conventional excavators use an operator to be able to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's general job easier and even conserves fuel at the same time.

When the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machinery market which are designed to deal with pavement removal, excavating, demolition as well as different industrial work. 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.