

Gradall Forklift Part

Gradall Forklift Parts - Through the period when World War II created a shortage of laborers, the well-known Gradall excavator was founded in the 1940s as the creation of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda they lacked the existing laborers to be able to do the delicate job of finishing and grading on their highway projects. The Ferwerda brothers opted to build an equipment that would save their company by making the slope grading work more efficient, less manual and easier.

Their first design model was a device with two beams set on a rotating platform which was affixed over a second-hand truck. A telescopic cylinder moved the beams forward and backward which allowed the fixed blade at the end of the beams to push or pull dirt. Soon improving the first design, the brothers made a triangular boom in order 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 equipped 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 ground-breaking adjustment in their machinery ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide high productivity and comparable power to the more traditional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively 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 made together 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 likewise developed with a load-sensing capability. Traditional excavators use an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's overall work easier and even saves fuel at the same time.

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