

Gradall Forklift Part

Gradall Forklift Parts - All through the time when WWII created a shortage of laborers, the well-known Gradall excavator was founded in the 1940s as the creation of two brothers Koop and Ray Ferwerda. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers in order to carry out the delicate work of grading and finishing on their freeway projects. The Ferwerda brothers decided to make an equipment which would save their company by making the slope grading job easier, more efficient and less manual.

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 improving the very first design, the brothers made a triangular boom to add more strength. As well, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to enable the machinery to be outfitted with either a blade or a bucket attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines ever since their creation. 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 initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled finishing work and grading but had a hard time competing for high productivity tasks.

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 distinct 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 choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the work at hand. This makes the operator's overall work easier and also saves fuel at the same time.

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