

Gradall Forklift Part

Gradall Forklift Parts - Through the time when World War II created a shortage of laborers, the legendary 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 because of the war. As partners in their Cleveland, Ohio construction company referred to as Ferwerda-Werba-Ferwerda they lacked the existing laborers to do the delicate work of grading and finishing on their interstate projects. The Ferwerda brothers decided to build a machine which will save their company by making the slope grading work less manual, easier and more efficient.

The very first excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder which was used 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. Shortly improving the first design, the brothers built a triangular boom so as to add more strength. What's more, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to enable the equipment to be outfitted with either a blade or a bucket attachment.

The year 1992 marked a significant year for Gradall with their introduction of XL Series hydraulics, the most remarkable change in the company's excavators since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to deliver comparable power and high productivity on a realistic level to conventional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled grading and finishing work but had a difficult time competing for high productivity tasks.

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 distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed together 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 for the job at hand. This makes the operator's whole job easier and even conserves 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 designed to deal with 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.