

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's during WWII, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers to be able to do the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers opted to make an equipment which will save their company by making the slope grading job less manual, easier and more efficient.

Their initial design prototype was a machine with two beams set on a rotating platform that was affixed on top of a second-hand truck. A telescopic cylinder moved the beams forward and backward which enabled the fixed blade at the end of the beams to push or pull dirt. Before long 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 turn 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to allow 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 allowed Gradall excavators to provide comparable power and high productivity on a realistic level to conventional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled finishing work and grading but had a hard 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 which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Conventional excavators utilize an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the task at hand. This makes the operator's overall task easier and also conserves fuel at the same time.

As soon as their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machines meant to deal with excavation, demolition, pavement removal and other 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.