

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Ray and Koop Ferwerda. The excavator was founded in the 1940's all through World War II, when there was a scarcity of workers. Partners in a Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and signed up in the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to make a machine which will save their company by making the slope grading work easier, more efficient and less manual.

Their very first design prototype was a machine with two beams set on a rotating platform which was attached on top of a used truck. A telescopic cylinder moved the beams forward and backward that enabled the fixed blade at the end of the beams to pull or push dirt. Before long enhancing the very first design, the brothers built a triangular boom so as to add more strength. Furthermore, they added a tilt cylinder that let the boom turn 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 equipped with either a blade or a bucket attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series ended the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled grading and finishing work 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 made along with a piston pump, high-pressure system of hydraulics which showed distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Conventional excavators make use of an operator to select 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 also saves fuel at the same time.

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