

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's all through World War II, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Thousand Oaks construction company referred to as Ferwerda-Werba-Ferwerda they lacked the available workers in order to perform the delicate job of finishing and grading on their highway projects. The Ferwerda brothers opted to make a machine which will save their company by making the slope grading work less manual, easier and more efficient.

Their initial design model was a machine with two beams set on a rotating platform that was attached atop a second-hand truck. A telescopic cylinder moved the beams back and forth which enabled the fixed blade at the end of the beams to pull or push dirt. Shortly enhancing the initial design, the brothers made a triangular boom to be able to add more strength. Additionally, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machinery to be equipped with either a bucket or a blade attachment.

1992 marked a crucial year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to deliver high productivity and comparable power on a realistic level to conventional excavators. The XL Series ended the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems efficiently 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 even developed together with a load-sensing capability. Conventional excavators use an operator to select a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the job at hand. This makes the operator's general job easier and even saves fuel at the same time.

When the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machinery market that are meant to deal with pavement removal, excavating, demolition as well as other industrial tasks. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.