

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was established In the 1940's during WWII, when there was a scarcity of labourers. Partners in a Cleveland, Fontana construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and joined the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build a machine that would save their company by making the slope grading job less manual, easier and more efficient.

Their initial design model was a machine with two beams set on a rotating platform that was attached on top of a second-hand truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to push or pull dirt. Shortly improving the initial design, the brothers built a triangular boom so as to add more strength. As well, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to enable the equipment to be equipped with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machinery since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled grading and finishing work 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 along with a piston pump, high-pressure system of hydraulics that showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Traditional excavators make use of an operator to be able to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general work easier and likewise saves fuel simultaneously.

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