

Gradall Forklift Part

Gradall Forklift Parts - During the period when World War II created a scarcity of laborers, the legendary Gradall excavator was founded in the 1940s as the creation of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Elk Grove construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the workforce and signed up in the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build an equipment that would save their business by making the slope grading job more efficient, less manual and easier.

Their very first design prototype was a device with two beams set on a rotating platform that was affixed atop a used truck. A telescopic cylinder moved the beams forward and backward that allowed the fixed blade at the end of the beams to pull or push dirt. Soon enhancing the initial design, the brothers made a triangular boom to be able to add more strength. As well, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machine 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 machines ever since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide high productivity and comparable power to the more conventional excavators. The XL Series ended the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. 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 dig and lift materials. With this series, the models were made 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 even developed along with a load-sensing capability. Conventional excavators make use of an operator in order to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the job at hand. This makes the operator's overall job easier and likewise saves fuel at the same time.

When the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial equipment market which are designed to deal with excavating, demolition, pavement removal as well as different 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.