

Gradall Forklift Parts

Gradall Forklift Part - During the time when WWII caused a scarcity of workers, the well-known Gradall excavator was established in the 1940s as the idea of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Carrollton construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and joined the military, depleting available laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to make an equipment which will save their company by making the slope grading job easier, more efficient and less manual.

Their initial design prototype was a machine with two beams set on a rotating platform which was affixed atop a used 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. Soon enhancing the very first design, the brothers built a triangular boom to add more strength. Also, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the equipment to be outfitted with either a bucket or a blade attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide high productivity and comparable power to the more traditional excavators. The XL Series put an end to the first 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 jobs.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced along 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 likewise developed with a load-sensing capability. Conventional excavators make use of an operator to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the work at hand. This makes the operator's general work easier and even saves fuel simultaneously.

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