

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was founded in the 1940's through World War II, when there was a scarcity of workers. Partners in a Cleveland, San Jose construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the labor force and joined the military, depleting available laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to build a machine that will save their company by making the slope grading job easier, more efficient and less manual.

Their very first design prototype was a device with two beams set on a rotating platform that was attached over a used truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to pull or push dirt. Before long improving the very first design, the brothers made a triangular boom so as to add more strength. Also, they added a tilt cylinder that let the boom rotate 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 equipped with either a blade or a bucket attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery ever 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 put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled grading and finishing work but had a difficult 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 made with a piston pump, high-pressure system of hydraulics which showed noticeable 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 task 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 equipment market that are designed to deal with pavement removal, excavating, demolition as well as various industrial tasks. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.