

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the creation 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, Escondido construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when numerous men left the labor force and joined the military, depleting available workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to make a machine that will save their business by making the slope grading work easier, more efficient and less manual.

Their very first design prototype was a machine with two beams set on a rotating platform which was affixed on top of a used 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. Before long enhancing the first design, the brothers built a triangular boom to add more strength. In addition, 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 machinery to be outfitted with either a blade or a bucket attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment 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 conventional excavators. The XL Series ended 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 together with a piston pump, high-pressure system of hydraulics that showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Conventional excavators make use of an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power for the work at hand. This makes the operator's whole job easier and also saves fuel at the same time.

When the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial machine market which are designed to tackle demolition, pavement removal, excavating and various 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.