

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's all through World War II, when there was a shortage of workers. Partners in a Cleveland, Lubbock construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the labor force and signed up in the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers chose to make a machine that would save their business by making the slope grading job easier, more efficient and less manual.

Their 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 push or pull dirt. Soon enhancing the first design, the brothers made a triangular boom to be able to add more strength. Also, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to enable the equipment to be equipped with either a bucket or a blade attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery since their invention. 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 ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled grading and finishing work but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These models were manufactured with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Conventional excavators use an operator to be able to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's general task easier and likewise saves fuel simultaneously.

As soon as their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machines meant to deal with demolition, pavement removal, excavating 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.