

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's all through WWII, when there was a shortage of workers. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the existing laborers to be able to perform the delicate tasks of finishing and grading on their interstate projects. The Ferwerda brothers decided to make a machine that will save their business by making the slope grading task easier, more efficient and less manual.

Their initial design model 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 in order to add more strength. Also, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to allow the machine to be outfitted with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines 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 traditional excavators. The XL Series ended the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled grading and finishing work but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were made with a piston pump, high-pressure hydraulics system which showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed with a load-sensing capability. Conventional excavators utilize an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general task easier and even saves fuel simultaneously.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial equipment market which are designed to deal with demolition, pavement removal, excavating and other 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.