

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was founded in the 1940's all through World War II, when there was a shortage of labourers. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda they lacked the existing laborers to be able to perform the delicate work of finishing and grading on their highway projects. The Ferwerda brothers opted to build an equipment that will save their company by making the slope grading task less manual, easier and more efficient.

Their very first design model was a device with two beams set on a rotating platform which was attached on top of a second-hand truck. A telescopic cylinder moved the beams forward and backward that enabled the fixed blade at the end of the beams to push or pull dirt. Soon enhancing the first design, the brothers built a triangular boom in order to add more strength. Moreover, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machine to be outfitted 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 equipment since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide comparable power and high productivity to the more traditional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems efficiently handled finishing work and grading but had a difficult 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 manufactured with a piston pump, high-pressure hydraulics system which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed with a load-sensing capability. Conventional excavators use an operator so as to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the task at hand. This makes the operator's general task easier and also saves fuel at the same time.

When their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of machinery meant to deal with pavement removal, excavation, demolition and various industrial work. Marketability was further enhanced with their telescoping boom due to its exclusive ability to better position attachments and to work in low overhead areas.