

Gradall Forklift Parts

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 WWII, 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 referred to as Ferwerda-Werba-Ferwerda they lacked the existing workers in order to perform the delicate tasks of grading and finishing on their freeway projects. The Ferwerda brothers decided to build a machine that would save their business by making the slope grading task less manual, easier and more efficient.

Their initial design model was a device with two beams set on a rotating platform which was attached on top of a used truck. A telescopic cylinder moved the beams back and forth which allowed 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. What's more, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was placed at the rear 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 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more traditional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems successfully handled grading and finishing work but had a difficult time competing for high productivity work.

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 which showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Conventional excavators utilize an operator in order to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the job at hand. This makes the operator's whole work easier and also saves fuel simultaneously.

Once their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machines designed to deal with excavation, demolition, pavement removal as well as several industrial tasks. Marketability was further improved with their telescoping boom due to its exclusive ability to better position attachments and to work in low overhead areas.