

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was established In the 1940's all through World War II, when there was a scarcity of workers. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers to be able to do the delicate work of finishing and grading on their freeway projects. The Ferwerda brothers opted to build an equipment that will save their company by making the slope grading work less manual, easier and more efficient.

The initial excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder which was used to move the beams back and forth. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Soon improving the very first design, the brothers built a triangular boom so as to add more strength. Also, they added a tilt cylinder that let the boom rotate 45 degrees in both directions. 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 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 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 conventional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled grading and finishing work but had a difficult 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 that showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Conventional excavators utilize an operator 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 overall job easier and likewise conserves fuel at the same time.

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