

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and Ray Ferwerda. The excavator was founded in the 1940's throughout WWII, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the existing workers so as to do the delicate work of finishing and grading on their highway projects. The Ferwerda brothers decided to build an equipment which would save their business by making the slope grading task easier, more efficient and less manual.

The very first excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder which was utilized to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Shortly enhancing the initial design, the brothers made a triangular boom in order to add more strength. As well, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was positioned 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 launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled grading and finishing work but had a difficult time competing for high productivity work.

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

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