

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's during World War II, when there was a shortage of workers. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the existing laborers in order to carry out the delicate tasks of finishing and grading on their highway projects. The Ferwerda brothers chose to make an equipment that will save their company by making the slope grading work easier, more efficient and less manual.

The initial excavator prototype consisted of a machine 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 backward and forward. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Before long enhancing the initial design, the brothers made a triangular boom to add more strength. Moreover, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to enable the machine to be equipped with either a blade or a bucket attachment.

1992 marked a momentous year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators ever since their invention. These top-of-the-line hydraulics systems allowed Gradall excavators to provide comparable power and high productivity on a realistic level to conventional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems successfully handled grading and finishing work but had a hard time competing for high productivity tasks.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions were made along with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Traditional excavators use an operator to be able to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the job at hand. This makes the operator's whole work easier and also saves fuel at the same time.

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