

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was created in the 1940's during World War II, when there was a shortage of workers. Partners in a Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the labor force and signed up in the military, depleting available laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to make a machine which would save their business by making the slope grading work 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 used truck. There was a telescopic cylinder which was utilized 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. Before long improving the first design, the brothers made a triangular boom so as to add more strength. As well, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machine to be equipped with either a blade or a bucket attachment.

The year 1992 marked a significant year for Gradall with their launch of XL Series hydraulics, the most dramatic change in the company's excavators since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to deliver high productivity and comparable power on a realistic level to conventional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems efficiently handled finishing work and grading but had a difficult time competing for high productivity tasks.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These models were manufactured 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 likewise developed along with a load-sensing capability. Traditional excavators utilize an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the job at hand. This makes the operator's overall task easier and even conserves fuel at the same time.

As soon as their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of equipment designed to deal with demolition, pavement removal, excavating as well as different industrial work. Marketability was further improved with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.