

Gradall Forklift Parts

Gradall Forklift Parts - Throughout the time when WWII created a scarcity of workers, the famous Gradall excavator was founded in the 1940s as the creation of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Riverside construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and signed up in the military, depleting existing laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers chose to make a machine which would save their company by making the slope grading task easier, more efficient and less manual.

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 that 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. Before long enhancing the initial design, the brothers built a triangular boom to be able to add more strength. As well, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to allow the machine to be equipped with either a blade or a bucket attachment.

1992 marked a momentous year for Gradall with their launch of XL Series hydraulics, the most remarkable change in the company's excavators since their invention. These top-of-the-line hydraulics systems allowed Gradall excavators to deliver comparable power and high productivity on a realistic level to conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled grading and finishing work but had a hard time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions 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 also developed with a load-sensing capability. Conventional excavators utilize an operator to select a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the job at hand. This makes the operator's whole job easier and even conserves fuel at the same time.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial machine market that are designed to tackle pavement removal, excavating, demolition and several industrial jobs. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.