

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was founded In the 1940's through World War II, when there was a scarcity of workers. Partners in a Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the workforce and signed up in the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make a machine that would save their business by making the slope grading task more efficient, less manual and easier.

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 used to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Before long enhancing the first design, the brothers built a triangular boom so as to add more strength. What's more, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machinery to be outfitted with either a bucket or a blade attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines ever since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled grading and finishing work but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These versions were manufactured with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed with a load-sensing capability. Traditional excavators utilize an operator to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the work at hand. This makes the operator's whole job easier and even conserves fuel at the same time.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial machinery market which are meant to tackle excavating, demolition, pavement removal and other 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 better position attachments and to work in low overhead areas.