

Gradall Forklift Parts

Gradall Forklift Part - All through the period when WWII caused a scarcity of workers, the legendary Gradall excavator was born in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Kent construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when a lot of men left the labor force and joined the military, depleting available laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make a machine that would save their company by making the slope grading work more efficient, less manual and easier.

The initial 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 that was utilized 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 initial design, the brothers made a triangular boom to be able to add more strength. As well, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. 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 introduced 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 enabled the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled grading and finishing work but had a hard time competing for high productivity tasks.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were manufactured along with a piston pump, high-pressure hydraulics system which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Conventional excavators use an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general task easier and also conserves fuel at the same time.

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