

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's through World War II, when there was a shortage of labourers. Partners in a Cleveland, Fairfield construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and joined the military, depleting existing laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make an equipment that would save their company by making the slope grading task easier, more efficient and less manual.

The first excavator prototype consisted of a device 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 enabled the fixed blade at the far end of the beams to pull or push the dirt. Soon improving the very first design, the brothers built a triangular boom so as to add more strength. Also, they added a tilt cylinder which let the boom turn 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 blade or a bucket attachment.

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

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced together with a piston pump, high-pressure system of hydraulics which showed distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along 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 for the task at hand. This makes the operator's overall task easier and even conserves fuel simultaneously.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machine market that are meant to tackle demolition, pavement removal, excavating and various 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.