

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's throughout WWII, when there was a shortage of workers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Downey construction company called Ferwerda-Werba-Ferwerda they lacked the existing laborers to carry out the delicate work of grading and finishing on their freeway projects. The Ferwerda brothers decided to build a machine which will save their company by making the slope grading job easier, more efficient and less manual.

Their very first design model was a machine with two beams set on a rotating platform which was attached atop a second-hand truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to push or pull dirt. Before long improving the first design, the brothers made a triangular boom to add more strength. Additionally, they added a tilt cylinder that let the boom turn 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to allow the machinery to be equipped with either a blade or a bucket attachment.

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

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced with a piston pump, high-pressure system of hydraulics that showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed together with a load-sensing capability. Conventional excavators utilize an operator in order to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the work at hand. This makes the operator's overall job easier and also conserves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the vastly competitive industrial equipment market which are designed to deal with pavement removal, excavating, demolition and several industrial work. 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.