

## Gradall Forklift Parts

Gradall Forklift Part - During the period when WWII created a shortage of workers, the well-known Gradall excavator was founded in the 1940s as the idea of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Irvine construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when a lot of men left the labor force and signed up in the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build an equipment which would save their company by making the slope grading job easier, more efficient and less manual.

Their initial design prototype was a device with two beams set on a rotating platform that was affixed on top of a used truck. A telescopic cylinder moved the beams back and forth which enabled the fixed blade at the end of the beams to push or pull dirt. Before long improving 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 positioned at the back of the boom, powering a long push rod to allow the machine to be equipped 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 innovative adjustment in their machines since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems successfully 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 lift and dig materials. With this series, the models were made along with a piston pump, high-pressure system of hydraulics that showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was even 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 meant for the task at hand. This makes the operator's whole job easier and even conserves fuel at the same time.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial machinery market which are designed to tackle demolition, pavement removal, excavating as well as several industrial tasks. 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.