

## Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was founded In the 1940's all through WWII, when there was a shortage of labourers. Partners in a Cleveland, Fremont construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the workforce and joined the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build an equipment that will save their business by making the slope grading job more efficient, less manual and easier.

Their very first design prototype was a machine with two beams set on a rotating platform which was affixed atop a second-hand truck. A telescopic cylinder moved the beams forward and backward which enabled the fixed blade at the end of the beams to push or pull dirt. Shortly enhancing the initial design, the brothers made a triangular boom so as to add more strength. Furthermore, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to enable the equipment to be equipped with either a bucket or a blade attachment.

The year 1992 marked a momentous year for Gradall with their introduction of XL Series hydraulics, the most amazing change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to provide comparable power and high productivity on a realistic level to conventional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems efficiently 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 together with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Traditional excavators use an operator to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the job at hand. This makes the operator's general work easier and even saves fuel at the same time.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machinery market which are designed to tackle 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.