

## Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the creation of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's throughout World War II, when there was a shortage of workers. Partners in a Cleveland, San Bernardino construction company referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when lots of men left the labor force and signed up in the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make an equipment which will save their company by making the slope grading job less manual, easier and more efficient.

Their first design model was a device with two beams set on a rotating platform that was attached over 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 enhancing the first design, the brothers built a triangular boom 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 back of the boom, powering a long push rod to enable the machinery to be outfitted with either a blade or a bucket attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery ever since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver comparable power and high productivity to the more traditional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled grading and finishing work but had a hard time competing for high productivity jobs.

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

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial machine market which are meant to deal with demolition, pavement removal, excavating and other industrial jobs. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.