

## Gradall Forklift Part

Gradall Forklift Part - During the time when WWII caused a scarcity of workers, the famous Gradall excavator was founded in the 1940s as the creation of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Santa Maria construction company called 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 finishing work and grading on highway projects. The Ferwerda brothers opted to build an equipment that would save their company by making the slope grading job less manual, easier and more efficient.

Their initial 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 that enabled the fixed blade at the end of the beams to push or pull dirt. Soon 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 both directions. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machinery to be equipped with either a bucket or a blade attachment.

The year 1992 marked a momentous year for Gradall with their launch of XL Series hydraulics, the most remarkable 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 traditional excavators. The XL Series ended the original 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 work.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were made along with a piston pump, high-pressure system of hydraulics which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed with a load-sensing capability. Traditional excavators make use of an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's general task easier and even saves fuel simultaneously.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial machinery market that are meant to tackle pavement removal, excavating, demolition 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 better position attachments and to work in low overhead areas.