

## Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and Ray Ferwerda. The excavator was established in the 1940's during World War II, when there was a scarcity of workers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Ohio construction company referred to as Ferwerda-Werba-Ferwerda they lacked the available workers in order to perform the delicate work of grading and finishing on their highway projects. The Ferwerda brothers opted to make an equipment which would save their company by making the slope grading task more efficient, less manual and easier.

Their initial design prototype was a device with two beams set on a rotating platform that was affixed atop a used truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to pull or push dirt. Shortly improving the first design, the brothers built a triangular boom to be able to add more strength. What's more, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to allow the equipment to be outfitted 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 since their creation. These top-of-the-line hydraulics systems enabled Gradall excavators to deliver high productivity and comparable power 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 effectively handled grading and finishing work but had a hard time competing for high productivity jobs.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were made 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 likewise developed with a load-sensing capability. Traditional excavators utilize an operator so as to select a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the job at hand. This makes the operator's overall task easier and likewise saves fuel at the same time.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial equipment market that are designed to tackle demolition, pavement removal, excavating and different 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.