

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's during World War II, when there was a shortage of workers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers in order to do the delicate tasks of grading and finishing on their interstate projects. The Ferwerda brothers chose to build an equipment which would save their business by making the slope grading task more efficient, less manual and easier.

The very first excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder which was utilized to move the beams back and forth. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Soon enhancing the first design, the brothers built a triangular boom in order to add more strength. Furthermore, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machinery to be equipped with either a blade or a bucket attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide 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 traditional systems efficiently handled finishing work and grading 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 distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was even developed with a load-sensing capability. Traditional excavators use an operator to be able to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the task at hand. This makes the operator's whole job easier and also saves fuel simultaneously.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machine market which are designed to tackle excavating, demolition, pavement removal 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.