Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was created In the 1940's throughout World War II, when there was a scarcity of workers. Partners in a Cleveland, Mesa construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the labor force and joined the military, depleting existing laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to build an equipment that will save their company by making the slope grading work easier, more efficient and less manual.

The initial excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder that was used to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Shortly improving the very first design, the brothers built a triangular boom to add more strength. Additionally, they added a tilt cylinder which let the boom turn 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 introduced in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machinery since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide high productivity and comparable power to the more conventional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems efficiently handled finishing work and grading but had a difficult 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 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 even developed along with a load-sensing capability. Conventional excavators use an operator to be able to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the job at hand. This makes the operator's overall work easier and likewise saves fuel simultaneously.

Once their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of machinery meant to tackle pavement removal, excavation, demolition as well as various industrial jobs. Marketability was further enhanced with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.