

Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the brainchild of two brothers Koop and Ray Ferwerda. The excavator was established in the 1940's all through WWII, when there was a scarcity of labourers. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Victorville construction company referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers so as to do the delicate work of finishing and grading on their interstate projects. The Ferwerda brothers decided to build a machine which would save their company by making the slope grading work less manual, easier and more efficient.

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 which was used to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Soon improving the initial 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 both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machinery to be equipped with either a blade or a bucket attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever since their creation. 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 initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems successfully 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 dig and lift materials. With this series, the models were produced along with a piston pump, high-pressure system of hydraulics that showed distinct improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Traditional excavators utilize an operator to be able to select a working-mode; where the Gradall system can automatically adjust the hydraulic power for the task at hand. This makes the operator's general job easier and even conserves fuel at the same time.

Once their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of equipment meant to tackle excavation, demolition, pavement removal and various industrial tasks. Marketability was further enhanced with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.