

Gradall Forklift Parts

Gradall Forklift Parts - Throughout the time when World War II caused a shortage of laborers, the legendary Gradall excavator was born in the 1940s as the creation of two brothers Koop and Ray Ferwerda. 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 existing laborers to be able to do the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers opted to make a machine which will save their business by making the slope grading job less manual, easier and more efficient.

The first excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder that was used to move the beams back and forth. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Shortly improving the initial design, the brothers made a triangular boom in order to add more strength. What's more, they added a tilt cylinder that let the boom rotate 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to allow the machinery to be outfitted with either a bucket or a blade attachment.

1992 marked a momentous year for Gradall with their launch of XL Series hydraulics, the most amazing change in the company's excavators since their invention. These top-of-the-line hydraulics systems allowed Gradall excavators to deliver high productivity and comparable power on a realistic level to traditional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. 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 dig and lift materials. With this series, the models were made with a piston pump, high-pressure system of hydraulics which showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was even developed along with a load-sensing capability. Conventional excavators make use of an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's overall task easier and likewise conserves fuel at the same time.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machine market that are meant to tackle pavement removal, excavating, demolition as well as various industrial work. 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.