

Gradall Forklift Part

Gradall Forklift Part - Through the period when World War II created a shortage of laborers, the legendary Gradall excavator was born in the 1940s as the idea of two brothers Ray and Koop 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 in order to do the delicate job of grading and finishing on their freeway projects. The Ferwerda brothers decided to make a machine that would save their company by making the slope grading job easier, more efficient and less manual.

The initial excavator prototype consisted of a device 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 back and forth. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Shortly enhancing 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 rotate 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to enable the equipment to be outfitted with either a bucket or a blade attachment.

1992 marked a significant year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators ever since their invention. 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 put an end to the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional 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 lift and dig materials. With this series, the models were produced along 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 also developed together with a load-sensing capability. Conventional excavators make use of an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the task 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 equipment market that are meant to tackle demolition, pavement removal, excavating and several industrial tasks. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.