

Gradall Forklift Parts

Gradall Forklift Part - Throughout the time when WWII caused a scarcity of workers, the famous Gradall excavator was established in the 1940s as the idea of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, El Monte construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the labor force and signed up in the military, depleting available workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers decided to build an equipment that would save their company by making the slope grading task less manual, easier and more efficient.

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 that was utilized to move the beams back and forth. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Shortly improving the very first design, the brothers built a triangular boom so as to add more strength. Also, they added a tilt cylinder which 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 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 remarkable change in the company's excavators since their creation. 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 initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively handled finishing work and grading but had a difficult time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were made 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 likewise developed together with a load-sensing capability. Traditional excavators make use of an operator to be able to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's whole job easier and also saves fuel at the same time.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the very competitive industrial equipment market which are designed to tackle demolition, pavement removal, excavating as well as different industrial tasks. 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.