

Gradall Forklift Part

Gradall Forklift Parts - Through the period when WWII created a shortage of laborers, the well-known Gradall excavator was founded in the 1940s as the creation of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Costa Mesa construction company referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the workforce and signed up in the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build a machine that will save their company by making the slope grading job more efficient, less manual and easier.

The first 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 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 made a triangular boom in order to add more strength. Moreover, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machine to be equipped with either a blade or a bucket attachment.

The year 1992 marked a momentous year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to provide high productivity and comparable power on a realistic level to traditional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems efficiently handled grading and finishing work but had a difficult time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were produced together 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. Conventional excavators use an operator to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the work at hand. This makes the operator's whole task easier and even saves fuel at the same time.

Once their XL Series hydraulics became available, Gradall was basically thrust into the highly competitive market of machinery designed to deal with pavement removal, excavation, demolition as well as several industrial jobs. Marketability was further improved with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.