

Gradall Forklift Parts

Gradall Forklift Parts - All through the period when WWII created a shortage of workers, the famous Gradall excavator was born in the 1940s as the creation of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Santa Rosa construction business referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and signed up in the military, depleting available laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build a machine which would save their business by making the slope grading job more efficient, less manual and easier.

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 backward and forward. 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 to add more strength. Additionally, they added a tilt cylinder that 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 outfitted with either a bucket or a blade attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines ever since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more traditional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled grading and finishing work but had a hard time competing for high productivity tasks.

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 that showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed with a load-sensing capability. Traditional excavators utilize an operator in order to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the work at hand. This makes the operator's overall job easier and likewise conserves fuel at the same time.

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