

Gradall Forklift Part

Gradall Forklift Part - Through the time when World War II created a scarcity of laborers, the famous Gradall excavator was established in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Peoria construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when numerous men left the labor force and signed up in the military, depleting available workers 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 work 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 second-hand truck. There was a telescopic cylinder which was used to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Before long improving the first design, the brothers made a triangular boom to add more strength. Furthermore, 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 allow the machinery to be outfitted with either a bucket or a blade attachment.

Gradall launched in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their equipment ever since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to deliver high productivity and comparable power to the more conventional excavators. The XL Series ended the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems successfully handled finishing work and grading but had a difficult time competing for high productivity tasks.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These models were manufactured with a piston pump, high-pressure hydraulics system which showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Traditional excavators make use of an operator in order to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the job at hand. This makes the operator's overall task easier and also conserves fuel at the same time.

As soon as their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of equipment meant to tackle demolition, pavement removal, excavating as well as other industrial work. Marketability was further enhanced with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.