

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was established In the 1940's through WWII, when there was a shortage of workers. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the available laborers in order to do the delicate job of grading and finishing on their interstate projects. The Ferwerda brothers decided to make a machine that will save their company by making the slope grading job less manual, easier and more efficient.

Their very first design prototype was a device with two beams set on a rotating platform that was affixed atop a second-hand truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to push or pull dirt. Before long improving the initial design, the brothers built a triangular boom to be able to add more strength. Also, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to allow the equipment to be outfitted with either a bucket or a blade attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machinery since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled finishing work and grading but had a hard time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were made with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed with a load-sensing capability. Traditional excavators use an operator to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power for the task at hand. This makes the operator's overall job easier and even conserves fuel at the same time.

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