

Gradall Forklift Part

Gradall Forklift Parts - All through the period when WWII created a scarcity of laborers, the well-known Gradall excavator was established in the 1940s as the creation of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the available workers in order to perform the delicate job of grading and finishing on their highway projects. The Ferwerda brothers decided to make a machine that will save their company 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 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. Soon enhancing the very first design, the brothers made a triangular boom in order to add more strength. In addition, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machinery to be equipped with either a bucket or a blade attachment.

Gradall introduced in the year 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 traditional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled grading and finishing work but had a hard time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These versions were made along with a piston pump, high-pressure hydraulics system which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Traditional excavators utilize an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power for the task at hand. This makes the operator's general job easier and even conserves fuel simultaneously.

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