

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's all through World War II, when there was a shortage of labourers. Partners in a Cleveland, Chandler construction business 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 laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build an equipment which will save their company by making the slope grading task less manual, easier and more efficient.

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 used to move the beams back and forth. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Soon improving the first design, the brothers made a triangular boom so as to add more strength. As well, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to enable the machinery to be equipped with either a bucket or a blade attachment.

The year 1992 marked a significant year for Gradall with their introduction of XL Series hydraulics, the most remarkable change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to provide comparable power and high productivity on a realistic level to conventional excavators. The XL Series ended the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively 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 that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Conventional excavators utilize an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's general task easier and even saves fuel at the same time.

Once their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of equipment meant to tackle pavement removal, excavation, demolition and different industrial tasks. Marketability was further improved with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.