

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was founded In the 1940's through WWII, when there was a scarcity of labourers. Partners in a Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when lots of 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 decided to make an equipment that would save their business by making the slope grading work easier, more efficient and less manual.

The very first excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder which was used to move the beams back and forth. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Shortly improving the very first design, the brothers made a triangular boom in order to add more strength. In addition, they added a tilt cylinder which 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 allow the machine to be outfitted with either a blade or a bucket attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their equipment ever since their invention. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series put an end to the original 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 jobs.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were made with a piston pump, high-pressure hydraulics system that showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed along with a load-sensing capability. Traditional excavators utilize an operator so as to select a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the work at hand. This makes the operator's general job easier and also saves fuel at the same time.

When their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of equipment designed to tackle excavation, demolition, pavement removal and other industrial work. Marketability was further enhanced with their telescoping boom due to its exclusive ability to better position attachments and to work in low overhead areas.