

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and Ray Ferwerda. The excavator was founded in the 1940's throughout World War II, when there was a scarcity of workers. Partners in a Cleveland, Fort Worth construction company known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma 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 build an equipment that would save their company by making the slope grading task easier, more efficient and less manual.

Their initial design prototype was a device with two beams set on a rotating platform that was attached on top of a second-hand truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to pull or push dirt. Shortly enhancing the initial design, the brothers made a triangular boom in order to add more strength. Also, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machinery to be equipped with either a bucket or a blade attachment.

The year 1992 marked a crucial year for Gradall with their launch of XL Series hydraulics, the most dramatic change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to provide high productivity and comparable power on a realistic level to conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems efficiently handled grading and finishing work but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These versions were made together 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. Conventional excavators make use of an operator so as to select a working-mode; where the Gradall system can automatically adjust the hydraulic power for the task at hand. This makes the operator's whole work easier and likewise conserves fuel simultaneously.

When their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machines meant to tackle pavement removal, excavation, demolition and different 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.