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 through World War II, when there was a shortage of workers. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the available workers to be able to perform the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers decided to build an equipment that will save their company by making the slope grading work more efficient, less manual and easier.

The initial excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a second-hand 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. Shortly improving the initial design, the brothers made a triangular boom to be able to add more strength. Furthermore, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machinery to be equipped with either a bucket or a blade attachment.

1992 marked a crucial year for Gradall with their launch of XL Series hydraulics, the most dramatic change in the company's excavators 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 ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled finishing work and grading but had a hard time competing for high productivity tasks.

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

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