Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the brainchild 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. Partners in a Cleveland, Ohio construction company referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and joined the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to make an equipment that will save their business by making the slope grading job 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 that was utilized 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. Soon enhancing the first design, the brothers made a triangular boom to be able to add more strength. Additionally, they added a tilt cylinder that let the boom turn 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machine to be equipped with either a blade or a bucket attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machines since their invention. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide high productivity and comparable power to the more traditional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled finishing work and grading but had a difficult time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These models were made along with a piston pump, high-pressure hydraulics system that showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed with a load-sensing capability. Traditional excavators make use of an operator 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 job easier and also saves fuel simultaneously.

When their XL Series hydraulics came onto the market, Gradall was basically thrust into the highly competitive market of machinery meant to tackle demolition, pavement removal, excavating and various industrial jobs. Marketability was further improved with their telescoping boom due to its exclusive ability to work in low overhead areas and to better position attachments.