

Gradall Forklift Parts

Gradall Forklift Parts - Through the time when WWII created a scarcity of workers, the well-known Gradall excavator was born in the 1940s as the creation of two brothers Koop and Ray Ferwerda. Partners in a Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous 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 which will save their business by making the slope grading job more efficient, less manual and easier.

Their initial design model 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 forward and backward which enabled the fixed blade at the end of the beams to pull or push dirt. Before long enhancing the first design, the brothers made a triangular boom to add more strength. As well, they added a tilt cylinder which let the boom turn 45 degrees in both directions. 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 crucial year for Gradall with their introduction of XL Series hydraulics, the most amazing 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 put an end to 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 jobs.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were manufactured 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. Conventional excavators use an operator to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the task at hand. This makes the operator's general work easier and also conserves fuel at the same time.

As soon as their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of equipment meant to deal with pavement removal, excavation, demolition and different 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.