

Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was founded in the 1940's all through World War II, when there was a scarcity of workers. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Denton construction business called Ferwerda-Werba-Ferwerda they lacked the existing workers to be able to perform the delicate job of finishing and grading on their highway projects. The Ferwerda brothers chose to make a machine that would save their company by making the slope grading work less manual, easier and more efficient.

Their initial design model was a machine with two beams set on a rotating platform which was attached atop a second-hand truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to push or pull dirt. Shortly enhancing the very first design, the brothers built a triangular boom so as to add more strength. Also, 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 machine to be equipped with either a blade or a bucket attachment.

1992 marked a significant 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 deliver comparable power and high productivity on a realistic level to traditional excavators. The XL Series put an end to the initial Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems effectively handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These versions were manufactured along 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 together with a load-sensing capability. Traditional excavators use an operator to select a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the task at hand. This makes the operator's overall job easier and even conserves fuel simultaneously.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial machinery market which are designed to deal with pavement removal, excavating, demolition and several industrial tasks. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.