

Gradall Forklift Attachments

Attachments for Gradall Forklift - The Gradall excavator was the creation of two brothers Koop and Ray Ferwerda. The excavator was founded in the 1940's through World War II, when there was a scarcity of labourers. Partners in a Cleveland, Mesa construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the labor force and signed up in the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build a machine that would save their business by making the slope grading work easier, more efficient and less manual.

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 allowed the fixed blade at the far end of the beams to push or pull the dirt. Soon improving the very first design, the brothers built a triangular boom so as to add more strength. Furthermore, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machinery to be outfitted with either a blade or a bucket attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most ground-breaking adjustment in their machines since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series ended the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively handled grading and finishing work but had a hard time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were made with a piston pump, high-pressure hydraulics system which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Conventional excavators use an operator so as to select a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's overall work easier and also saves fuel simultaneously.

Once the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machinery market that are designed to tackle excavating, demolition, pavement removal and other industrial work. 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.