

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was created in the 1940's during World War II, when there was a shortage of workers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Ohio construction company called Ferwerda-Werba-Ferwerda they lacked the existing laborers to carry out the delicate tasks of finishing and grading on their freeway projects. The Ferwerda brothers chose to build a machine that will save their business by making the slope grading job less manual, easier and more efficient.

The very 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 used to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Soon improving the initial design, the brothers made a triangular boom in order to add more strength. As well, 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 equipped with either a bucket or a blade attachment.

Gradall introduced in 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their equipment ever 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 put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. 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 digging and lifting ability. These versions were manufactured along 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 together with a load-sensing capability. Traditional excavators use an operator to be able to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's general work easier and even conserves fuel simultaneously.

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