

Gradall Forklift Part

Gradall Forklift Parts - During the period when WWII created a scarcity of workers, the legendary Gradall excavator was born in the 1940s as the idea of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Santa Clarita construction business called Ferwerda-Werba-Ferwerda they lacked the existing laborers to perform the delicate work of finishing and grading on their highway projects. The Ferwerda brothers opted to build a machine which will 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 that was affixed over a used truck. A telescopic cylinder moved the beams back and forth that allowed the fixed blade at the end of the beams to pull or push dirt. Shortly improving the very first design, the brothers made a triangular boom so as to add more strength. Moreover, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was positioned at the rear of the boom, powering a long push rod to allow the machinery to be outfitted 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 remarkable change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems enabled Gradall excavators to provide comparable power and high productivity on a realistic level to traditional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These conventional systems successfully handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were manufactured together with a piston pump, high-pressure hydraulics system that showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Traditional excavators make use of an operator to select a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the job at hand. This makes the operator's overall work easier and also conserves fuel simultaneously.

Once their XL Series hydraulics became available, Gradall was basically thrust into the highly competitive market of machinery designed to tackle pavement removal, excavation, demolition as well as various industrial tasks. Marketability was further enhanced with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.