

Gradall Forklift Parts

Gradall Forklift Parts - During the time when World War II created a scarcity of workers, the well-known Gradall excavator was established in the 1940s as the creation of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers to do the delicate tasks of finishing and grading on their freeway projects. The Ferwerda brothers chose to make a machine that would save their business by making the slope grading work less manual, easier and more efficient.

Their first design model was a device with two beams set on a rotating platform which was attached on top of a second-hand truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to pull or push dirt. Shortly enhancing the very first 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 either direction. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the equipment to be outfitted with either a blade or a bucket attachment.

Gradall launched in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative 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 first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively handled grading and finishing work 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 with a piston pump, high-pressure hydraulics system which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed together with a load-sensing capability. Conventional excavators use an operator so as to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the job at hand. This makes the operator's whole work easier and also saves fuel at the same time.

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