

Gradall Forklift Part

Gradall Forklift Parts - Through the period when WWII caused a shortage of workers, the well-known Gradall excavator was established in the 1940s as the creation of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when so many men left the labor force and signed up in the military, depleting existing workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to make an equipment which would save their company by making the slope grading work less manual, easier and more efficient.

Their first design prototype was a device with two beams set on a rotating platform that was attached over a used truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to push or pull dirt. Before long improving the very first design, the brothers built a triangular boom to add more strength. Moreover, they added a tilt cylinder which let the boom turn 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machine to be outfitted with either a bucket or a blade attachment.

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

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions were made together with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Conventional excavators make use of an operator to be able to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's overall work easier and likewise saves fuel at the same time.

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