

Gradall Forklift Parts

Gradall Forklift Parts - Through the period when WWII caused a shortage of workers, the famous Gradall excavator was established in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Ohio construction company referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and joined the military, depleting available workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers chose to build an equipment which will save their business by making the slope grading job more efficient, less manual and easier.

Their initial design prototype was a device with two beams set on a rotating platform which 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 pull or push dirt. Soon enhancing the very first design, the brothers built a triangular boom so as to add more strength. What's more, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to allow the machinery to be equipped with either a blade or a bucket attachment.

The year 1992 marked a momentous year for Gradall with their launch of XL Series hydraulics, the most dramatic change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to deliver high productivity and comparable power on a realistic level to traditional 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 hard time competing for high productivity tasks.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were produced together with a piston pump, high-pressure system of hydraulics which showed noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Traditional excavators utilize an operator to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power for the task at hand. This makes the operator's overall task easier and likewise saves fuel at the same time.

When their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machinery 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.