

Gradall Forklift Parts

Gradall Forklift Parts - All through the period when World War II caused a shortage of laborers, the legendary Gradall excavator was founded in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, El Cajon construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when numerous men left the workforce and signed up in the military, depleting existing laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers opted to build an equipment which would save their business by making the slope grading job less manual, easier and more efficient.

Their very first design prototype was a machine with two beams set on a rotating platform which was affixed on top of a second-hand truck. A telescopic cylinder moved the beams back and forth which allowed the fixed blade at the end of the beams to pull or push dirt. Soon improving the very first design, the brothers made a triangular boom to be able to add more strength. As well, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. 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.

1992 marked a momentous year for Gradall with their launch 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 deliver high productivity and comparable power on a realistic level to conventional excavators. The XL Series ended the original 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 dig and lift materials. With this series, the models were produced along with a piston pump, high-pressure system of hydraulics which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Traditional excavators use an operator so as to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the work at hand. This makes the operator's overall job easier and even saves fuel at the same time.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the extremely competitive industrial machine market that are designed to tackle demolition, pavement removal, excavating as well as several industrial jobs. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to better position attachments and to work in low overhead areas.