

Gradall Forklift Part

Gradall Forklift Parts - During the time when WWII caused a shortage of laborers, the well-known Gradall excavator was established in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda they lacked the existing laborers to perform the delicate job of grading and finishing on their interstate projects. The Ferwerda brothers decided to build a machine which will save their business by making the slope grading job less manual, easier and more efficient.

Their first design prototype was a machine with two beams set on a rotating platform that was affixed atop a used 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. Shortly enhancing the initial design, the brothers built a triangular boom in order to add more strength. Furthermore, they added a tilt cylinder that let the boom rotate 45 degrees in both directions. A cylinder was placed at the rear of the boom, powering a long push rod to allow the equipment to be equipped with either a blade or a bucket attachment.

The year 1992 marked a crucial year for Gradall with their launch of XL Series hydraulics, the most amazing change in the company's excavators ever since their invention. These top-of-the-line hydraulics systems allowed Gradall excavators to provide comparable power and high productivity on a realistic level to traditional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems efficiently handled grading and finishing work but had a hard time competing for high productivity work.

Gradall's new XL Series excavators showed more ability to lift and dig 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 even developed with a load-sensing capability. Traditional excavators use an operator to be able to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power for the task at hand. This makes the operator's general work easier and likewise conserves fuel simultaneously.

Once their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of machines meant to deal with demolition, pavement removal, excavating as well as different industrial tasks. Marketability was further enhanced with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.