

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Koop and ray Ferwerda. The excavator was established In the 1940's during World War II, when there was a shortage of workers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction company referred to as Ferwerda-Werba-Ferwerda they lacked the available laborers to perform the delicate job of grading and finishing on their highway projects. The Ferwerda brothers opted to build an equipment which would save their business by making the slope grading work more efficient, less manual and easier.

Their very first design prototype was a machine with two beams set on a rotating platform which was affixed on top of a used truck. A telescopic cylinder moved the beams forward and backward which enabled the fixed blade at the end of the beams to push or pull dirt. Soon improving the very first design, the brothers made a triangular boom so as to add more strength. Additionally, they added a tilt cylinder which 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 machine to be outfitted with either a blade or a bucket 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 provide comparable power and high productivity on a realistic level to traditional excavators. The XL Series ended the initial 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 made along with a piston pump, high-pressure system of hydraulics which showed distinct 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 choose a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the work at hand. This makes the operator's whole task easier and likewise conserves fuel simultaneously.

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