

Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was founded In the 1940's during WWII, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda they lacked the available workers to carry out the delicate work of grading and finishing on their interstate projects. The Ferwerda brothers decided to make an equipment which will save their business by making the slope grading work easier, more efficient and less manual.

Their initial design prototype was a machine with two beams set on a rotating platform which was attached on top of a second-hand 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. Shortly improving the initial design, the brothers built a triangular boom in order to add more strength. In addition, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to enable the machine to be equipped with either a blade or a bucket attachment.

The year 1992 marked a momentous year for Gradall with their introduction of XL Series hydraulics, the most amazing 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 conventional excavators. The XL Series put an end to the initial Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems effectively handled grading and finishing work but had a hard time competing for high productivity jobs.

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 noticeable improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Conventional excavators use an operator so as to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general job easier and even conserves fuel simultaneously.

As soon as their XL Series hydraulics came onto the market, Gradall was essentially thrust into the highly competitive market of machines designed to tackle excavation, demolition, pavement removal as well as other industrial work. Marketability was further improved with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.