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 WWII, when there was a scarcity of labourers. Partners in a Cleveland, Torrance construction company referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge dilemma when lots of men left the workforce and signed up in the military, depleting existing workers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to build a machine which will save their company by making the slope grading work less manual, easier and more efficient.

The initial excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a second-hand truck. There was a telescopic cylinder which was used to move the beams back and forth. This enabled the fixed blade at the far end of the beams to pull or push the dirt. Soon improving the initial design, the brothers made a triangular boom to add more strength. Furthermore, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was placed at the back of the boom, powering a long push rod to enable the equipment to be equipped with either a bucket or a blade attachment.

1992 marked a crucial year for Gradall with their introduction 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 high productivity and comparable power on a realistic level to traditional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems successfully handled finishing work and grading 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 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 likewise developed together with a load-sensing capability. Traditional excavators use an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the job at hand. This makes the operator's overall work easier and even saves fuel at the same time.

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 tasks. Marketability was further improved with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.