Gradall Forklift Part

Gradall Forklift Parts - Throughout the period when WWII created a shortage of laborers, the famous 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 labor force because of the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the existing workers so as to do the delicate tasks of grading and finishing on their highway projects. The Ferwerda brothers opted to build an equipment which would save their company by making the slope grading work easier, more efficient and less manual.

The first excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder that was used to move the beams backward and forward. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Shortly enhancing the initial design, the brothers made a triangular boom so as to add more strength. Moreover, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to enable 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 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 put an end to 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.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions were made along with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Conventional excavators use an operator so as 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 general task easier and also conserves fuel simultaneously.

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