Gradall Forklift Parts

Gradall Forklift Parts - During the time when World War II created a scarcity of laborers, the famous Gradall excavator was established in the 1940s as the idea of two brothers Ray and Koop Ferwerda. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the existing workers to be able to carry out the delicate tasks of grading and finishing on their highway projects. The Ferwerda brothers opted to make an equipment that will save their company by making the slope grading task easier, more efficient and less manual.

The initial excavator prototype consisted of a device with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder which was utilized to move the beams back and forth. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Soon enhancing the very first design, the brothers built a triangular boom to be able to add more strength. Moreover, 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 allow the equipment to be outfitted with either a bucket or a blade attachment.

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

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were manufactured together 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 together with a load-sensing capability. Conventional excavators use an operator so as to select a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's general job easier and also saves fuel at the same time.

Once their XL Series hydraulics became available, Gradall was basically thrust into the highly competitive market of equipment meant to tackle pavement removal, excavation, demolition and several industrial jobs. Marketability was further improved with their telescoping boom because of its exclusive ability to better position attachments and to work in low overhead areas.