

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Koop and ray Ferwerda. The excavator was founded In the 1940's throughout World War II, when there was a scarcity of workers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Ohio construction business referred to as Ferwerda-Werba-Ferwerda they lacked the existing laborers to be able to do the delicate job of grading and finishing on their interstate projects. The Ferwerda brothers opted to build a machine that 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 used truck. There was a telescopic cylinder that was used 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 initial design, the brothers made a triangular boom so as to add more strength. Furthermore, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was placed at the back of the boom, powering a long push rod to enable the machinery 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 remarkable change in the company's excavators since their invention. These top-of-the-line hydraulics systems allowed Gradall excavators to provide high productivity and comparable power on a realistic level to traditional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These versions were manufactured together with a piston pump, high-pressure hydraulics system that showed immense improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Conventional excavators utilize 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 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 meant to deal with 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.