

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the creation of two brothers Koop and Ray Ferwerda. The excavator was established in the 1940's through WWII, when there was a scarcity of labourers. The brothers faced the problems of a depleted labor force due to the war. As partners in their Cleveland, Ohio construction business known as Ferwerda-Werba-Ferwerda they lacked the existing workers so as to perform the delicate work of grading and finishing on their highway projects. The Ferwerda brothers opted to build a machine which will save their company by making the slope grading job 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 that was used to move the beams back and forth. This allowed the fixed blade at the far end of the beams to push or pull the dirt. Shortly enhancing the initial design, the brothers built a triangular boom in order to add more strength. Also, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was positioned 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 launch of XL Series hydraulics, the most amazing change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems enabled Gradall excavators to deliver high productivity and comparable power on a realistic level to conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These traditional systems effectively handled grading and finishing work but had a difficult time competing for high productivity tasks.

Gradall's new XL Series excavators showed more ability to dig and lift materials. With this series, the models were produced together with a piston pump, high-pressure system of hydraulics which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Conventional excavators make use of an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power meant for the work at hand. This makes the operator's overall job easier and even conserves fuel at the same time.

As soon as the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial machine market which are designed to deal with excavating, demolition, pavement removal and other industrial jobs. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to better position attachments and to work in low overhead areas.