

Gradall Forklift Parts

Gradall Forklift Part - The Gradall excavator was the creation of two brothers Ray and Koop Ferwerda. The excavator was created in the 1940's through World War II, 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, Tempe construction business referred to as Ferwerda-Werba-Ferwerda they lacked the existing laborers so as to perform the delicate job of finishing and grading on their interstate projects. The Ferwerda brothers opted to build an equipment which would save their business by making the slope grading work more efficient, less manual and easier.

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 backward and forward. This enabled the fixed blade at the far end of the beams to push or pull the dirt. Soon enhancing the very first design, the brothers built a triangular boom to be able to add more strength. Furthermore, they added a tilt cylinder that let the boom rotate 45 degrees in either direction. A cylinder was placed at the rear of the boom, powering a long push rod to allow the machine to be outfitted with either a blade or a bucket attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machines since their creation. This new system of top-of-the-line hydraulics enabled the Gradall excavator to provide high productivity and comparable power to the more conventional 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 grading and finishing work but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a significant increase in their lifting and digging ability. These versions were manufactured with a piston pump, high-pressure hydraulics system that showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was even developed along with a load-sensing capability. Conventional excavators utilize an operator to pick a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the work at hand. This makes the operator's general job easier and also conserves fuel at the same time.

When their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of equipment meant to deal with excavation, demolition, pavement removal as well as various industrial jobs. Marketability was further enhanced with their telescoping boom because of its exclusive ability to work in low overhead areas and to better position attachments.