

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the creation of two brothers Koop and ray Ferwerda. The excavator was established in the 1940's throughout WWII, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the existing laborers to do the delicate job of finishing and grading on their freeway projects. The Ferwerda brothers chose to build a machine that would save their business by making the slope grading work more efficient, less manual and easier.

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 which was utilized 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 improving the initial design, the brothers made a triangular boom so as to add more strength. What's more, 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 enable the machinery to be outfitted with either a blade or a bucket attachment.

The year 1992 marked a significant year for Gradall with their introduction 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 deliver high productivity and comparable power on a realistic level to traditional excavators. The XL Series ended the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems efficiently handled finishing work and grading but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These models 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 also developed along with a load-sensing capability. Traditional excavators utilize an operator 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 work easier and even conserves fuel at the same time.

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