

Gradall Forklift Part

Gradall Forklift Part - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was created in the 1940's through World War II, when there was a shortage of workers. The brothers faced the problems of a depleted workforce because of the war. As partners in their Cleveland, Glendale construction company known as Ferwerda-Werba-Ferwerda they lacked the existing workers in order to do the delicate tasks of grading and finishing on their interstate projects. The Ferwerda brothers decided to build an equipment that will save their business by making the slope grading job less manual, easier and more efficient.

Their first design prototype was a machine with two beams set on a rotating platform that was affixed on top of a second-hand truck. A telescopic cylinder moved the beams forward and backward which allowed the fixed blade at the end of the beams to pull or push dirt. Soon improving the first design, the brothers made a triangular boom so as to add more strength. As well, they added a tilt cylinder which let the boom turn 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machine to be equipped with either a bucket or a blade 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 allowed 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 low pressure hydraulics and gear pumps. These conventional systems effectively handled finishing work and grading but had a hard time competing for high productivity tasks.

The new XL Series Gradall excavators proved a significant increase in their digging and lifting ability. These versions were manufactured with a piston pump, high-pressure hydraulics system which 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 make use of an operator so as to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power meant for the task at hand. This makes the operator's general task easier and also saves fuel simultaneously.

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