

Gradall Forklift Part

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 WWII, when there was a shortage of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Long Beach construction company referred to as Ferwerda-Werba-Ferwerda they lacked the existing workers to be able to carry out the delicate work of finishing and grading on their freeway projects. The Ferwerda brothers chose to build a machine that will save their business by making the slope grading work more efficient, less manual and easier.

Their first design model was a device with two beams set on a rotating platform that was affixed atop a used truck. A telescopic cylinder moved the beams back and forth that enabled the fixed blade at the end of the beams to push or pull dirt. Soon improving the initial design, the brothers made a triangular boom 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 machine to be outfitted with either a blade or a bucket attachment.

1992 marked a momentous 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 conventional excavators. The XL Series put an end to the original Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems successfully handled grading and finishing work but had a hard time competing for high productivity work.

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 which showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed together with a load-sensing capability. Traditional excavators use an operator so as 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 task easier and likewise saves fuel simultaneously.

When their XL Series hydraulics became available, Gradall was essentially thrust into the highly competitive market of machines meant to deal with excavation, demolition, pavement removal as well as several 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.