

Gradall Forklift Part

Gradall Forklift Parts - During the period when World War II caused a shortage of workers, the legendary Gradall excavator was founded in the 1940s as the idea of two brothers Koop and Ray Ferwerda. 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 to be able to perform the delicate job of grading and finishing on their highway projects. The Ferwerda brothers decided to build an equipment which would save their business by making the slope grading task more efficient, less manual and easier.

Their very first design prototype was a machine with two beams set on a rotating platform which was attached on top of a second-hand truck. A telescopic cylinder moved the beams back and forth which enabled the fixed blade at the end of the beams to push or pull dirt. Shortly enhancing the first design, the brothers built a triangular boom so as to add more strength. Also, they added a tilt cylinder which 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 machinery to be equipped 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 dramatic change in the company's excavators ever since their creation. 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 effectively handled grading and finishing work but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These versions were manufactured together with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was also developed along with a load-sensing capability. Conventional excavators utilize 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 job easier and even conserves fuel at the same time.

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