

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's through WWII, when there was a scarcity of workers. Partners in a Cleveland, Salem construction company called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when a lot of men left the labor force and signed up in the military, depleting existing laborers for the delicate finishing work and grading on highway projects. The Ferwerda brothers chose to make an equipment which would save their business by making the slope grading task less manual, easier and more efficient.

Their first design prototype was a device with two beams set on a rotating platform which was affixed atop a second-hand truck. A telescopic cylinder moved the beams forward and backward that 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 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 rear of the boom, powering a long push rod to enable the equipment to be outfitted with either a blade or a bucket attachment.

1992 marked a crucial year for Gradall with their launch of XL Series hydraulics, the most remarkable change in the company's excavators ever since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to provide 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 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 significant increase in their digging and lifting ability. These versions 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 even developed with a load-sensing capability. Traditional excavators use an operator to choose a working-mode; where the Gradall system can automatically adjust the hydraulic power for the job at hand. This makes the operator's whole task easier and likewise conserves fuel at the same time.

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