Gradall Forklift Parts

Gradall Forklift Parts - The Gradall excavator was the idea of two brothers Ray and Koop Ferwerda. The excavator was founded In the 1940's through World War II, when there was a scarcity of labourers. The brothers faced the problems of a depleted workforce due to the war. As partners in their Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda they lacked the existing laborers in order to carry out the delicate tasks of grading and finishing on their interstate projects. The Ferwerda brothers decided to build an equipment which would save their business by making the slope grading work easier, more efficient and less manual.

Their initial design model 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. Before long enhancing the initial design, the brothers made a triangular boom so as to add more strength. Also, they added a tilt cylinder that let the boom rotate 45 degrees in both directions. 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.

1992 marked a significant year for Gradall with their launch of XL Series hydraulics, the most remarkable change in the company's excavators ever since their creation. These top-of-the-line hydraulics systems allowed Gradall excavators to provide comparable power and high productivity on a realistic level to conventional excavators. The XL Series put an end to 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 work.

The new XL Series Gradall excavators proved a remarkable increase in their digging and lifting ability. These versions were manufactured along with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Traditional excavators make use of an operator to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's whole job easier and likewise saves fuel at the same time.

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