

## Multi Directional Forklift

Used Side Loader Forklift PEI - The side loader forklift is designed for lifting heavy cargo in narrow locations including loading docks, lumber yards and warehouse aisles. These forklifts are given their name by the way in which they load, and unload, material - from the side of the forklift rather than from the front, as with standard forklifts. Benefits of Side Loader Forklifts v Standard Forklifts Forklifts which operate on the standard counterbalance system may become unstable when loading, transporting or unloading heavy, long loads. However, the side loader forklift is specially designed to handle these types of loads, such as long pipes and raw timber, providing much more stability. Having the load face the direction of travel ensures that timber and steel can be easier to maneuver. Side loaders offer a safer, unobstructed view for the operator which is a greater improvement over the standard forklift with its front-carrying design and the fork tines. Since the loads are transported along the side of the forklift instead of across the front, the side loader can travel easier through narrow aisles and doorways. The load may have to be lowered or raised to get past obstacles that can increase the chances of destabilizing and cause dangerous tip-overs. Much of the maneuvering is eliminated with side loaders. These units help warehouse locations to manage smaller spaces much more safely. Most side loaders are able to lift up to 12,000 pounds and can travel at speeds just above 5 miles per hour but are often equipped with the ability to program travel speeds. Programmable travel speeds are useful for allowing operators to match speed for particular jobs.

Types of Side Loader Forklifts

Class 2 - Electric Motor Narrow Aisle Trucks Side loader forklifts are within the Class 2 Electric Motor Narrow Aisle Trucks. This class captures the forklifts that operate in narrow aisles with electrically sourced power. The side loader is useful for handling long and narrow loads in similar locations including lumber, carpet and laminate. These machines are additionally used for rack storage and feeding machine tools. The narrow aisle units are popular in warehouses as they offer a sleek design that saves on storage. These units are efficient at loading and unloading. Class 2 side loader forklifts have been designed to take up less space by the forklift truck. These machines create better efficiency and speed while moving, unloading and loading narrow aisle locations. Dangerous internal combustion emissions are eliminated due to their electrical power use, making side loaders excellent for interior applications.

Internal Combustion Engine Side Loader Forklifts Side loaders that are not powered by electricity obviously do not fall under the Class 2 forklift classification. The side loader design is popular for outdoor use as well in places such as timber and lumber yards, steel and pipe producers and many other similar job sites that require long, heavy loads to be transported to and from storage areas, such as racking, or stacking loads in blocks, or offloading from flatbeds. Exterior side loaders need to work outside and on uneven surfaces. This means an internal combustion engine and, sometimes, pneumatic tires are a better option for the job. Side loaders can efficiently load cumbersome items that are long and heavy by securing them in the middle.

Side Loader Forklift Design Side loader forklifts can be either sit down units or stand on machines.

Stand On Side Loader Forklifts Stand-on side loaders are found in warehouses and interior applications. They feature a small platform generally found in the middle of the unit that is where the operator stands and is surrounded by controls. There are several advantages to this design. Stand-on side loaders don't have an operator seat, allowing for a more streamlined cab design. This creates a forklift with a smaller footprint which is advantageous for traveling within confined locations. There is better visibility for the operator when working in a standing position, particularly while operating the machine backward. In the stand up position, an operator can turn his whole body to view the rear of the truck when reversing direction whereas in a sit down position the operator must twist his back and neck to get a clear view behind. Stand-up models have comfort and safety. Better operator visibility lessens injuries and product damage. Operators on standing forklifts can enter and exit the machine faster than sit-down cab units.

Sit Down Side Loader Forklifts Of the two basic designs, the sit down side loader forklift is the most popular. Similar to the side loader stand, the sit-down

unit features a centrally located cab. The sit-down models have a raised platform and a seat that is opposite to the controls. The sit-down units boast better operator comfort. The operator is able to control the forklift from a resting position which decreases operator fatigue which increases productivity. Customizable Features Because of the wide range of jobs that use side loader forklifts, the side loader is available in customizable bed lengths. The standard bed length for a side loader was designed to fit a variety of bulky and heavy loads but this can be extended upwards of 60 inches to meet custom jobsite applications. However, when customizing a side loader feature such as the bed length, consideration must be given to the width of aisles at the relevant jobsite as guide rails and aisles may need adjusting to accommodate the extra sized forklift, which is likely to affect budget and productivity. These machines can function in a multidirectional manner. These side loaders have crab steering which allows two wheels to operate independently from the others. This feature allows the side loader to move in all four directions by changing the direction of the wheels, allowing the forklift to move sideways into narrow storage aisles without making large, swing-out turns or multiple adjustments. The smaller turning radius helps to avoid damage to items and the building while increasing safety. More efficiency is attained since there are less space and time needed to move around the job site. It is possible to customize a variety of side loader forklift features for specific jobs. Lift mast heights, lights, mirrors, lift capacities and tine length and other features are all customizable. Certain features are also adjustable, allowing for further customization of the side loader for the particular job application. Travel speed, acceleration time, load limits and breaking force can all be set allowing further job efficiency and increased workplace safety. For all of the above reason, the side loader forklift has become the most popular option for workplaces where space is limited and long loads are involved.