

## Forklift Attachment

Forklift Attachments PEI - Many different jobs would be impossible without the help of forklift attachments. The wide range of forklift attachments make most jobs not only possible but also safer and quicker. In addition to general forklift training, operators must be properly training for each attachment they intent to use. There are many non-hydraulic attachments and hydraulic attachments available for forklift attachments. They provide many benefits including decreasing fuel consumption, time, man-power, damage to stock and employee accidents. Equipment Considerations Forklift attachments can be switched out to replace existing attachments or may be used on machines that don't currently have one. Several equipment-related factors must be considered before any forklift attachment is replaced or added. These considerations include: 1. The forklift type; 2. The forklift's capacity; 3. The carriage type; and 4. The number of hydraulic functions. Failure to properly consider these factors will increase the safety risk associated with operation of a forklift and its attachments and increase the risk for damage to the forklift, the attachment and surrounding area, including stock. There are further safety issues to take into consideration which can be discussed in more detail below. Forklift Rating and Re-Rating Forklifts are given lift capacity ratings by the manufacturer which will need to be adjusted if adding or changing a forklift attachment. Manufacturers of forklift attachments usually offer calculators available online to estimate the safe lifting capacity when using a particular attachment. It is important to note that only the forklift manufacturer can provide accurate lifting capacities. The first step before installing any attachment is to get in touch with the authorized local forklift dealer to request that that forklift brand is re-rated accordingly with the attachment. There will be a new specification plate that is factory authorized once the forklift manufacturer has re-rated the machine. The newly upgraded specification plate will replace the original plate and needs to be installed showing the new forklift rating. Equipment Upgrades When dealing with forklift attachments it is important to note that a forklift's hydraulic function is made up of a valve on the forklift with a lever located close to the operator which provides two passages of pressurized hydraulic oil to power the attachment features. Hydraulic forklift attachments typically offer numerous features compared to the number of valves on the forklift. Not ever forklift attachment is hydraulic. In this circumstance, it is common to add one or more valves as needed. There are numerous ways a valve can be added. Forklift manufacturers make accessories for valve and hose routing. There are plenty of labor and parts involved which can be costly enough to make this an impractical solution. Another possibility is to install a cable reel, solenoid valve and hose to divert oil from an alternate location. However, the operators' view may be compromised due to the cable reels and hose installation. These parts also may be easily damaged by their location. There are kits available that use a solenoid valve and specialty hoses that allow for the reinforced braid to double as an electrical conduit. These hoses are designed to replace existing ones and stay free from being damaged. The operator can enjoy a clear view with this option. Safety Considerations Proper training must be obtained prior to fitting any forklift attachment. An operator must be competent in the fitting, operating and removal of the attachment. Two important safety factors must be considered before the use of any forklift attachment. The nominal load rating will be reduced on the forklift once any attachment is applied. Forks and a stock fork carriage compute the nominal load rating; although, the precise load rating may be much lower. Secondly, the forklift's center of gravity will be affected when any forklift attachment is added. This will reduce the forklift's stability. Since the attachment's weight is prominent in front of the fulcrum point on the forklift, the operator needs to drive the machine as though it is partially loaded even before it is carrying a load. Thus, when using any attachment, an operator should travel at a slow speed and make turns slowly and gently. As noted above, each attachment should be listed on the data plate of the forklift's capacity. Specific safety checks must be made prior to using each forklift attachment. The attachment must be: 1. Appropriate for the specific forklift being used; 2. Appropriate for the specific load; 3. Attached correctly; 4. Properly locked; and 5. Permitted

on the forklift's data plate. List of Common Forklift Attachments Below is a list of popular forklift attachments and their general uses. There are numerous forklift attachments and this list will cover the most popular. The variety of attachments can drastically increase efficiency for many jobs. **SIDESHIFTER:** The operator can manipulate the forks laterally with a sideshifter. This allows for easier load placement without having to move the entire forklift. **FORK POSITIONERS:** Fork positioners allow the forks to travel apart or together with each other to adjust for different load sizes. **DIMENSIONING DEVICES:** Provide dimensions for the cargo allowing for more efficient use of warehouse and truck trailer space and often used in conjunction with billing systems based on volume. **ROTATOR:** A rotator helps to straighten tilted skids and handle custom load requirements and fast unloading. There is a rotator feature on numerous attachments. **ROLL AND BARREL CLAMP:** The roll and barrel clamp simplifies grasping rounded loads such as barrels. It has numerous pressure settings for handling fragile items with less damage potential. This attachment often has a rotate function to change the load from a vertical to a horizontal position. **CARTON AND MULTIPURPOSE CLAMP:** The carton and multipurpose clamp is for grasping loads with a squared shape. It also features pressure settings to handle bales, boxes and cartons. **POLE ATTACHMENTS:** Pole attachments are placed where the forks would normally be and are used for transporting carpet and rolled up linoleum. **SLIP SHEETER OR PUSH-PULL:** Slip sheeter or push-pull attachment lets the operator move slip sheets with a clamping option instead of pallets. It can pull the slip sheet onto thin and wide metal forks to facilitate pushing or loading. The attachment variations include "Save," where the slip sheet is removed to be used again or "Standard." **DRUM HANDLER:** The drum handler is built for holding drums. It may have arms that encompass the drum for transporting or it may feature a spring-loaded jaw to grip the drum's top lip. **DRUM AND STORAGE BIN TIPPER:** Allows for quick transfer of loose or liquid contents in large containers. **MAN BASKET:** Lift platform meant for lifting workers and complete with railings and brackets for safety harnesses. **TELESCOPIC FORKS:** Telescopic forks are used in warehouses that rely on stacking two pallets in the event one shelf is located behind another shelf with no aisle in between. **SCALES:** Scales are helpful for allowing operators to transport pallets while weighing them. This stops the need for interrupting work with regular travel to the scales. It can be used in legal-for-trade weights for operations that bill by how much items weigh. **SINGLE-DOUBLE FORKS:** Single-double forks facilitate movement of a single platform or pallet or two side-by-side pallets. This is useful for transporting specialty items with the right attachments employed. It can be used with normal lifting tasks and stops the need for owning two separate machines. This greatly reduces the cost of maintenance and operation that is used with multiple forklifts. **SNOW PLOW:** Snow plows are used to remove snow and redistribute it; however, this attachment can be used with other loose kinds of material. **SKIPS:** Skips enable quick and safe waste removal to a skip or waste compactor. They may feature a bottom-emptying design or be a roll-forward model. **BOOMS AND JIBS:** Jibs and boom offer extended forklift reach for transporting loads that are stacked deep or high or that are suspended. There are reach-over, low profile, precision lifting and extendable length options.