

## Forklift Attachment

Forklift Attachments Rhode Island - Forklift attachments make a variety of jobs possible. Forklift attachments make many jobs safer, easier and quicker to complete. Forklift operators require training for each attachment they will be using as well as their general forklift training. 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. Further safety factors must also be taken into consideration, which will be discussed in greater detail below.

**Forklift Rating and Re-Rating** Manufacturers give forklifts a lift capacity rating that needs to be considered and adjusted when adding or changing forklift attachments. There are calculators available online from forklift attachment manufacturers to estimate each attachment's particular lifting capacity. However, only the forklift manufacturer can provide accurate lifting capacities. Prior to installing any attachment, it is important to contact the local authorized dealer of the forklift brand being used and request that they re-rate the forklift in accordance with the attachment being considered for use. 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** Forklift attachments rely on the machine's hydraulic function and are made up of a forklift valve that has a lever situated close to the operator. This creates two passages of pressurized hydraulic oil for powering the attachment features. Note that not every attachment is hydraulic; however, the hydraulic attachments provide more features compared to the number of valves the forklift offers. In these instances, one or more valves need to be added. There are several methods of adding a valve. The manufacturers of forklifts create accessories to simplify hose and valve 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. The main issue is that the cable reels and hose may block the view of the operator and these items can be damaged. Kits are available that rely on a solenoid valve and certain hoses to transform the reinforced braid to additionally function 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** Before using any type of forklift attachment, adequate training must be fulfilled. 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. First, any attachment on a forklift will reduce its nominal load rating, as mentioned above. The nominal load rating is determined with forks and a stock fork carriage. It is important to note that the real load rating may be significantly lower. Secondly, the forklift's center of gravity will be affected when any forklift attachment is added. The forklift's stability will be reduced and this needs to be computed for safety. Because the weight of the attachment will be placed in front of the forklift's fulcrum point, it is necessary to drive the forklift as though it is partially loaded, even prior to picking up a load. Operators need to travel gently and slowly every time they use an attachment and take extra care while turning. Check the forklift's capacity to ensure that every attachment is listed on the data plate. 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 many more attachments available than are listed here but this will cover the most widely-used. Forklift attachments are designed to increase job efficiency for many applications.

**SIDESHIFTER:** Allows the operator to move the forks laterally, allowing for easier placement of a load without the need to reposition the entire forklift. **FORK POSITIONERS:** Moves the forks together or apart in relation to one another to adjust for various load types. **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:** Rotators help to right tilted skids and are useful for fast unloading and tackling custom load requirements. 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:** Allows for grasping a load with a more squared shape, often with pressure settings. Products like cartons, boxes and bales can be moved with this type of attachment. **POLE ATTACHMENTS:** Pole attachments are long metal poles in place of the forks. They are useful for picking up linoleum and rolled up carpet or similar items. **SLIP SHEETER OR PUSH-PULL:** The slip sheeter or push-pull allows the operator to move sheets by clamping onto slip sheets. This is an option instead of relying on pallets. The slip sheet can be moved onto thin and wide metal forks to simplify loading or unloading by pushing the slip sheet. The "Save" variation allows the slip sheet to be taken off for reuse later. The "Standard," attachment variation is another option. **DRUM HANDLER:** The drum handler is specifically designed to transport drums. It might feature arms to hold the drum or be a spring-loaded model to grip the top lid. **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:** The telescopic forks are used in locations with a two pallet stacking design where one shelf is placed right behind another with no aisle between them. **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:** Allows safe and speedy removal of waste to the appropriate skip or waste compactor. Skips are available in a roll-forward type and a bottom-emptying type. **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.