



## Forklift Attachment

Forklift Attachments Nebraska - Forklift attachments make a variety of jobs possible. The wide range of forklift attachments make most jobs not only possible but also safer and quicker. Forklift operators require training for each attachment they will be using as well as their general forklift training. Forklift attachments come in a wide variety of hydraulic and non-hydraulic attachments. The benefits of utilizing a forklift attachment include decreasing: 1. Employee accidents; 2. Damage to stock; 3. Manpower; 4. Time; and 5. Fuel consumption. Equipment Considerations Forklift attachments can be switched out to replace existing attachments or may be used on machines that don't currently have one. There are many equipment factors to consider prior to adding or replacing any forklift attachments. Considerations include the carriage type, the forklift model, the capacity of the forklift and the number of hydraulic functions used to power the features of the attachment. Failing to take these aforementioned factors into consideration can create extra safety hazards and risks for the operator, the forklift, its' attachments and the stock. There are further safety issues to take into consideration which can be discussed in more detail below. Forklift Rating and Re-Rating These machines are provided with lift capacity ratings from the manufacturer that need adjusting when changing or adding any forklift attachments. There are calculators available online from forklift attachment manufacturers to estimate each attachments particular lifting capacity. However, 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. Once the forklift manufacturer has re-rated the machine, it will ideally have a new specification plate that is factory authorized. 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. While not all forklift attachments are hydraulic, hydraulic attachments often include more features than the forklift has valves. When this happens, the forklift needs to have one or more valves added. There are numerous ways a valve can be added. The manufacturers of forklifts create accessories to simplify hose and valve routing. However, the parts and labor to install these can be so expensive as to make this option impractical. 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. 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. The operator needs to be able to remove, fit and operate the attachment. Before using any forklift attachment, two safety issues need consideration. Firstly, it is important to note that any kind of forklift attachment will reduce the machine's nominal load rating. The nominal load rating is computed with a stock fork carriage and forks. However, the actual load rating may be substantially lower. Second, the center of gravity will be affected by the use of any forklift attachment. 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. Operators need to travel gently and slowly every time they use an attachment and take extra care while turning. Every attachment should be listed on the forklift capacity data plate. Certain safety checks need to be done before using any kind of attachment. The forklift attachment must be permitted on the forklift's data plate, locked properly, correctly attached, appropriate for the particular load and appropriate for the type of forklift being used. List of Common Forklift Attachments Discover a list of common forklift attachments and how they are utilized below. There are many more attachments available than are listed here but this will

cover the most widely-used. As you will see, the large variety of attachments available have the capacity to greatly increase the efficiency of many jobs.

**SIDESHIFTER:** The sideshifter enables the forklift to move laterally for easier load placement without having to reposition the entire machine.

**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 allows the forklift to grasp rounded loads including barrels. It is outfitted with different pressure settings to facilitate fragile options and often has a rotate function to simplify horizontal and vertical positioning.

**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:** Allows operator to transport slip sheets by clamping onto slip sheets, as opposed to pallets, and either pulling the slip sheet onto wide and thin metal forks for loading or pushing the slip sheet to unload. Some variations of the attachment are Save, where the slip sheet is removed for reuse, or Standard.

**DRUM HANDLER:** Allows for grasping drums, either with a spring-loaded jaw to grip the top lip of a drum, or with arms that encircle the drum, for transport.

**DRUM AND STORAGE BIN TIPPER:** Allows for quick transfer of loose or liquid contents in large containers.

**MAN BASKET:** The man basket is a lift platform to allow workers to complete jobs with brackets and railings and 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:** Enables operators to simultaneously weigh and transport pallets, eliminating the need to interrupt transport to travel to scales, and can be obtained in legal-for-trade weights for operations that bill by weight.

**SINGLE-DOUBLE FORKS:** Allow movement of a single pallet or platform or two pallets side by side. With the correct attachment/s a single forklift can be used for multiple specialist materials handling tasks alongside normal lifting tasks, thus reducing the need for owning a specialist unit alongside a normal unit and the larger running and maintenance costs associated with multiple units.

**SNOW PLOW:** Designed for snow removal and distribution but can also be used to move other types of loose 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.