

Rough Terrain Forklift

Used Rough Terrain Forklift Louisiana - Broadly defined, a forklift truck uses two forks to load, transport and unload material. The two main categories of forklifts are industrial forklift and rough terrain forklift. Ideal for working on surfaces that are level and smooth, industrial forklifts are mostly utilized for warehouse applications and loading dock situations. Ideal for uneven terrain and rocky locations, rough terrain forklifts travel well in difficult environments. Commonly found at exterior construction sites, rough terrain forklifts have the tires, size and weight capacity to handle heavy loads. The main difference between industrial and rough terrain forklifts is that industrial forklifts are fitted with cushion tires, a common, over-the-road type tire. Pneumatic tires are utilized by rough terrain models. They are similar to tractor tires that offer more traction and flotation. Industrial forklifts are commonly powered by internal combustion engines although a fuel cell or battery electrical source may be used. Internal combustion engines are mainly used by rough terrain units.

Types of Class 7 Rough Terrain Forklift Trucks

The three types of Class 7 Rough Terrain Forklift Trucks include the rotating telehandler forklifts, telehandler forklifts and straight mast forklifts. Rough terrain forklifts function well in treacherous locations that are often found in construction sites and military settings. A rough terrain forklift also offers increased maneuverability and performance. In the case of rough terrain forklift operations, extra consideration must be given while raising loads in these rough, variable conditions to prevent tip-over. The machine needs to remain in a stable position prior to lowering, lifting or moving any items. Stability of ground and knowledge of proper lifting technique is essential for safe operation of rough terrain forklifts.

Straight Mast Forklifts

Straight mast forklifts are designed to transport building materials around a range of rough terrain sites such as demolition and construction sites. Pneumatic cushion tires allow this forklift better maneuverability and accessibility around difficult terrain. Pneumatic tires allow the machine to successfully traverse difficult terrain. Most straight mast forklift units have 2WD or 4WD configurations. Even though these machines are better utilized in exterior locations, many straight mast forklifts operate with propane or diesel, enabling them to be used indoors for short timeframes. The lift capacities of straight mast forklifts are similar to most standard forklifts with a range of approximately 5,000 to 36,000 pounds.

Telehandler or Telescopic Handler Forklifts

The distinct telescoping boom on telehandlers and telescopic handler forklifts contribute to the unit's name. This specially designed boom allows the forklift truck to pick up loads and place them at differing heights in front of the unit. Better reachability delivers greater flexibility to the forklift operator while placing loads. A standard telehandler forklift is long and low, with two wheels at the very front of the forklift and another pair of wheels toward the rear of the machine. The telescopic boom can be found at the back of the forklift, mounted on a pivot that is attached many feet higher than the frame of the unit. The hydraulic fluid tank and fuel tank are mounted on the opposite side of the cab which is usually situated on the left side of the forklift. The forklift engine and transmission are situated along the center of the machine. This common configuration allows for a balanced forklift which is necessary for the basic stability of the machine which lifting, transporting and lowering loads. Telehandler forklifts provide much greater lift heights when compared to a standard forklift. High-reach telehandlers can extend their full load capacity to 56 feet. The compact telehandlers can extend their full load capacity from 18 feet. Their load capacities usually range between 5,500 and 12,000 pounds. All-terrain forklifts often include all-wheel steering which allows for greater maneuverability. The power-shift transmission and steering features allow the operator to move the forklift into a safe and successful working proximity. More recently, Telehandler forklift models have included additional features that incorporate the latest in ergonomics. These features include tilted steering options and roomier cabs to increase operator comfort. Increasingly, these types of ergonomic features are in demand at worksites as they have been shown to improve productivity by decreasing operator repetitive stress injuries and operator fatigue. A single joystick is a common design for most telehandlers. The joystick controls all the forklift's boom functions as

well as the hydraulic system which allows for straightforward and efficient operation. Non-marking tires are a feature that telehandler forklifts can benefit from by allowing these units to be utilized for maintenance on billboards and signs and on stadiums and buildings.

Rotating Telehandler or Roto Telescopic Handler Forklifts

The basic telehandler forklift has much in common with rotating telehandlers and roto telescopic handler forklifts. The rotating telehandler can lift excessive loads to extreme heights safely and efficiently. This unit's added turntable and rotation flexibility increases the types of jobs it can complete. The rotating function allows the forklift to swivel a full 360 degrees around, enabling access a much larger work area without having to reposition the forklift. Because of this additional feature, rotating telehandlers often have a second joystick to allow operation of the rotation function apart from the lift function. Power-assist steering minimized slip differential on the rear axle for additional traction and four-wheel drive are some of the extra features offered on rotating telehandlers and standard telehandler models. Of course, a machine that can rotate has extra safety considerations to understand. Stabilizers are a rough terrain forklift feature that rotating telehandler models rely on to increase safety while handling rotating loads that are swinging back and forth from each side of the machine. There are some rotating telehandlers that are designed to move heavy weights without stabilizers to reduce the time it takes to reposition the forklift for work in other areas of the jobsite. The standard telehandler offers fixed cab components and rotator telehandlers are generally smaller in comparison. Because of this, their load capacities are also smaller than the standard telehandler. Ranging between four thousand and ten thousand pounds, rotating telehandlers can reach lift heights from 15 to 80 feet. Both telehandlers and rotator telehandlers can be used as a crane when fitted with a winch attachment. These forklift attachments can save time and money by preventing a separate crane rental to be required.

Advancements for Rough Terrain Forklifts

Numerous attachments can be found for rough terrain forklifts including articulating booms, rotating fork carriages, booms, winches and similar items. Forklift attachments are vital for diversifying the machine. They will continue to be developed for years to come. The majority of advancements will be delivered as safety features built to enhance the rough terrain models. Automatic load restriction units and certain safety features have started being implemented. This system weighs a load automatically and then calculates the safe reach distance of the load while considering the extension and boom angle. If the safe reach distance is reached, an alarm will sound, warning the operator to make the proper adjustments to either the boom angle, the reach distance or load weight.