

## Rough Terrain Forklift

Used Rough Terrain Forklift Georgia - Forklifts rely on two forks to unload, load and transport items. 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. By contrast, the second category of forklifts, rough terrain forklifts, are commonly used to run on uneven and rocky surfaces. 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 can be powered by internal combustion engines but are more frequently powered by an electrical source, such as battery or fuel cell whereas rough terrain forklifts are almost always powered by an internal combustion engine.

### Types of Class 7 Rough Terrain Forklift Trucks

There are three main types of Class 7 Rough Terrain Forklift Trucks: 1. Straight mast forklifts; 2. Telehandler forklifts; and 3. Rotating telehandler forklifts. Regardless of its type, all rough terrain forklift trucks are designed to handle, as their name suggests, natural rough terrain and disturbed rough terrain typical of construction and military sites. Rough terrain forklift units have better performance and maneuvering options. Additional consideration needs to be given for rough terrain forklift options while raising loads in difficult conditions in order to stay safe from tipping 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

Designed to facilitate safe transport along difficult terrain such as demolition sites and construction locations, straight mast forklifts can complete the job safely and efficiently. Pneumatic cushion tires allow this forklift better maneuverability and accessibility around difficult terrain. Uneven ground and rough surfaces are no match for pneumatic tires. The majority of straight mast forklifts come in both two wheel and four wheel drive capabilities. 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. Featuring two wheels found at the front and two wheels at the rear, the standard telehandler is a long and low machine. A telescopic boom is mounted at the rear of the forklift on a pivot that is fixed several feet higher than the forklift frame. The fuel tank and hydraulic fluid tank are found opposite to the forklifts' cab that is typically mounted on the left side. Along the center of the machine, the engine and transmission can be found inside the frame. 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 units offer significantly higher lifting heights compared to standard units. Also called compact telehandlers or high-reach telehandlers, these forklift trucks can lift their full load capacities from 18 feet, for the compact telehandlers, to 56 feet, for the high-reach telehandlers, into the air. The load capacities of these machines range from five thousand pounds to twelve thousand pounds. All-terrain forklifts often include all-wheel steering which allows for greater maneuverability. Thanks to steering features including power-shift transmission, the operator can maneuver the machine in excellent proximity to the work location. Recent telehandler units showcase top-of-the-line ergonomic design to generate increased comfort and operator satisfaction. Spacious cabs and tilted steering are some of the items redesigned for the ultimate comfort and productive features. 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 is responsible for the hydraulic system and the boom operations. Telehandler forklifts can also be equipped with non-marking tires which allow them to be used in other applications such as the installation of signs and billboards as well as maintenance on buildings and stadiums. Rotating Telehandler or Roto Telescopic Handler Forklifts Roto telescopic handler forklifts or rotating telehandlers have numerous items in common with the standard telehandler model. 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. Commonly, rotating telehandlers have another joystick to handle the rotation portion separately from the lift function. As with the standard telehandler forklift, rotating telehandlers are available with added features including power assist steering, four-wheel drive and minimized slip differential on the rear axle to boost traction and for additional safety. Of course, a machine that can rotate has extra safety considerations to understand. Rotating telehandler rough terrain models come with standard stabilizers to establish more safety while rotating loads back and forth. 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. Rotator telehandlers are usually smaller than their fixed cab counterparts, the standard telehandler. Understandably, rotator telehandler machines can handle smaller load capacities compared to their standard telehandler counterparts. Rotating telehandlers offer load capacities ranging from 4000 to 10,000 lbs. and lift heights between fifteen to eighty feet. Winch attachments can transform rotator telehandlers and standard models into a crane. This means that these forklifts can sometimes allow a project to forego the need for a crane at the jobsite, saving time, expense and workspace. Advancements for Rough Terrain Forklifts Popular rough terrain forklift attachments include rotating fork carriages, booms, articulating booms and winches. Because of the importance of forklift attachments in their ability to adapt forklifts to many different types of specific jobs, it is expected that the creation and availability of new rough terrain forklift attachments will continue to increase. The majority of advancements will be delivered as safety features built to enhance the rough terrain models. Some new safety features have already been developed such as automatic load restriction devices. By automatically weighing a load, these systems calculate the loads' safe reach distance while taking the boom angle and its' extension into account. An alarm will go off once the safe distance is reached. This alerts the operator that immediate adjustments need to be made to the boom angle, reach distance or load weight.