

## Rough Terrain Forklift

Used Rough Terrain Forklift BC - 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. 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 tire type is one of the key differences between rough terrain and industrial forklift units. Common road tires, cushion tires are the main kind found on industrial forklifts. 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 kinds of Class 7 Rough Terrain Forklift Trucks. The rotating telehandler forklift, straight mast forklifts and rotating forklifts are in this category. Rough terrain forklifts function well in treacherous locations that are often found in construction sites and military settings. The rough terrain models travel and perform well in difficult locations. Safety considerations are taken into account for rough terrain locations with raising loads in difficult environments to keep the operator safe from tipping over. The machine needs to remain in a stable position prior to lowering, lifting or moving any items. Rough terrain forklift operators must practice correct lifting techniques to remain stable on the ground.

**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. These allow the forklift truck to easily travel over rough terrain on the worksite. Most straight mast forklift units have 2WD or 4WD configurations. Most straight mast forklifts are powered by diesel or propane fuel, allowing them to be used indoors for short periods but are more suited to outdoor applications. Both standard and straight mast forklifts offer similar lifting capacities weighing from 5000 to 36,000 pounds, depending on the model.

**Telehandler or Telescopic Handler Forklifts** The distinct telescoping boom on telehandlers and telescopic handler forklifts contribute to the unit's name. This telescoping boom allows the forklift truck to pick up and place loads at various distances and lift heights in front of the machine. 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. Mounted at the back of the forklift, the telescopic boom is on a pivot that is located many feet above the forklift frame. The left side of the machine houses the cab and the hydraulic fluid tank and the fuel tank are found opposite to the cab. Within the frame itself, the transmission and engine are located along the center-line of the forklift. This common configuration allows for a balanced forklift which is necessary for the basic stability of the machine while lifting, transporting and lowering loads. Telehandler forklifts provide much greater lift heights when compared to a standard forklift. Otherwise known as high-reach telehandlers or compact telehandlers, these models perform. Compact telehandlers can extend their full load capacity from eight-teen feet and the high-reach models to fifty-six feet. The load capacities of these machines range from five thousand pounds to twelve thousand pounds. All-terrain forklifts rely on all-wheel steering to deliver better maneuverability and stability. This, along with power shift transmission and other steering features, means that the operator can move the lift in as close proximity to the work area as possible. The latest telehandler models feature ergonomic upgrades for ultimate operator comfort. Operator comfort is enhanced via larger cabs and tilted steering. These ergonomic upgrades have been shown to lessen repetitive stress injuries and lessen operator fatigue. The majority of telehandler forklifts are operated by a single joystick. The joystick is responsible for

the hydraulic system and the boom operations. These machines can use non-marking tires to allow them to be suitable for maintenance in stadiums and on buildings or billboards and sign operations. Rotating Telehandler or Roto Telescopic Handler Forklifts Rotating telehandler or roto telescopic handler forklifts have many features in common with the standard telehandler forklift. The rotating telehandler can lift excessive loads to extreme heights safely and efficiently. However, these forklifts have the added ability to rotate the forklift on a turntable. 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. Any machine with rotation capabilities will have additional safety measures to consider. Because of this, rotating telehandler rough terrain forklifts come with stabilizers to increase the safety when rotating loads from one side of the forklift to the other. Certain rotating telehandlers operate without stabilizers; minimizing the time it takes to reposition the machine and move to other workplace locations. 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. Standard and rotator telehandlers can double as a crane when outfitted with specific winch accessories. These units can enable job sites that require a crane to get the job done without having to rent and transport a separate machine. Advancements for Rough Terrain Forklifts Many attachments are currently available for rough terrain forklifts, such as booms, winches, rotating fork carriages and articulating booms. More rough terrain forklift attachments will be unleashed onto the market in future years thanks to their ability to make the forklift more multi-purpose than ever before. 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.