

## **Rough Terrain Forklift**

Used Rough Terrain Forklift Nova Scotia - Forklifts rely on two forks to unload, load and transport items. The rough terrain forklift and the industrial forklift are the two main types of forklift trucks. Industrial forklifts are mainly used in loading docks and warehouse applications with smooth and level surfaces. 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 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. Every rough terrain forklift truck is designed to operate on disturbed ground and difficult locations commonly found in military and construction atmospheres. The rough terrain models travel and perform well in difficult locations. 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. Better accessibility and maneuverability are offered by these units thanks to their pneumatic cushion tires. These allow the forklift truck to easily travel over rough terrain on the worksite. The majority of straight mast forklifts come in both two wheel and four wheel drive capabilities. 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 specially designed boom allows the forklift truck to pick up loads and place them at differing heights in front of the unit. The reachability of the forklift provides the operator with greater flexibility when placing a load. 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 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. 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 which 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-wheel steering is popular for all-terrain forklifts and provides increased maneuverability. The power-shift transmission and steering features allow the operator to move the forklift into a safe and successful working proximity. Recent telehandler units showcase top-of-the-line ergonomic design to generate increased comfort and operator satisfaction. 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. Most telehandler forklifts rely on a single joystick. The joystick is essential for controlling the boom functions and the hydraulics responsible for forward operation. 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. With rotating telehandlers, one joystick handles the lift capacity and a second joystick is responsible for the rotation factor. 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. With the added rotating ability of these forklifts, comes additional safety considerations. 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. 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. Therefore, rotator telehandler units can access smaller loads when compared to standard telehandler units. 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** Many attachments are currently available for rough terrain forklifts, such as booms, winches, rotating fork carriages and articulating booms. 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. Most of the proposed advancements will consist of included safety features within the rough terrain forklifts. Some new safety features have already been developed such as automatic load restriction devices. These systems automatically weigh a load and then calculate the safe reach distance of that load, taking into consideration the angle and extension of the boom. 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.