

## **Rough Terrain Forklift**

Used Rough Terrain Forklift Hayward - Forklift trucks utilize two forks to transport pallets and load and unload cargo. The rough terrain forklift and the industrial forklift are the two main types of forklift trucks. 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. Due to size, tires, and weight capacity, a rough terrain lift is primarily used outdoors, often at construction sites. 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. Rough terrain forklifts, on the other hand, are fitted with pneumatic tires, a type of tractor tire allowing for better traction and flotation properties. 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. Every rough terrain forklift truck is designed to operate on disturbed ground and difficult locations commonly found in military and construction atmospheres. A rough terrain forklift also offers increased maneuverability and performance. 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. The majority of straight mast forklifts come in both two wheel and four wheel drive capabilities. The majority of straight mast forklifts rely on propane or diesel fuel to equip them for interior short-term jobs. However, these machines are best suited for outside jobs. Straight mast forklifts have a similar lift capacity compared to standard forklift models; ranging from 5K to 36K lbs. Telehandler or Telescopic Handler Forklifts The distinct telescoping boom on telehandlers and telescopic handler forklifts contribute to the unit's name. Telescoping booms are handy for allowing the machine to load and place items at different lift heights and distances in front of the forklift. The operator can achieve enhanced flexibility with better reach during load placement. Standard telehandler forklift units are long and low. They are designed with two wheels located at the front of the forklift with a different pair of wheels found close to the end of the unit. 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 left side of the machine houses the cab and the hydraulic fluid tank and the fuel tank are found opposite to the cab. 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 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-wheel steering is popular for all-terrain forklifts and provides increased maneuverability. Thanks to steering features including power-shift transmission, the operator can maneuver the machine in excellent proximity to the work location. More recently, Telehandler forklift models have included additional features that incorporate the latest in ergonomics. 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. 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 Roto telescopic handler forklifts or rotating telehandlers have numerous items in common with the standard telehandler model. These include the rotating telehandler's ability to lift heavy weight to great heights. 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. Of course, a machine that can rotate has extra safety considerations to understand. 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. 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 telehandler units are typically smaller than standard telehandlers with their fixed-cab design. 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. Standard and rotator telehandlers can double as a crane when outfitted with specific winch accessories. 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. 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. 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. 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.