

## Rough Terrain Forklift

Used Rough Terrain Forklift Kent - Forklifts rely on two forks to unload, load and transport items. Forklifts fall into two main categories, industrial forklifts and rough terrain forklifts. 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 rough terrain and industrial forklifts is the cushion tires that are on industrial forklift models. Pneumatic tires are utilized by rough terrain models. They are similar to tractor tires that offer more traction and flotation. Internal combustion engines can power industrial forklifts; however, more often they rely on an electrical source such as a fuel cell or better. Rough terrain models typically rely on 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. For safety reasons, it is vital the forklift maintains stability before moving, lifting or lowering. 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. These forklift trucks provide increased maneuverability and accessibility because it is fitted with big, heavy-duty pneumatic cushion tires. Pneumatic tires allow the machine to successfully traverse difficult terrain. 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** Telehandler or telescopic handler forklift trucks are equipped with a telescoping boom, giving them their 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. Featuring two wheels found at the front and two wheels at the rear, the standard telehandler is a long and low 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 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 popular design showcases a balanced forklift which is ideal for the machine's stability with lifting, moving and lowering items. Telehandler forklifts provide much greater lift heights when compared to a standard forklift. 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. Load capacities are between 5K to 12K 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. 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 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 Roto telescopic handler forklifts or rotating telehandlers have numerous items in common with the standard telehandler model. Telehandlers are capable of rotating heavy-lift weights to tremendous 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. 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. Any machine with rotation capabilities will have additional safety measures to consider. 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 Popular rough terrain forklift attachments include rotating fork carriages, booms, articulating booms and winches. Forklift attachments are vital for diversifying the machine. They will continue to be developed for years to come. However, the bulk of advancements are expected to be in the form of safety features, built-in to manufactured rough terrain forklifts. The latest safety upgrades include automatic load restriction and other features. 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.