

Forklift Fuel Tank

Forklift Fuel Tank - Various fuel tanks are fabricated by trained metal craftspeople, though most tanks are manufactured. Custom and restoration tanks can be used on aircraft, automotive, tractors and motorcycles.

When constructing fuel tanks, there are a series of requirements which must be adopted. First, the tanks craftsman will create a mockup to determine the measurements of the tank. This is usually performed from foam board. After that, design issues are dealt with, including where the outlets, seams, drain, baffles and fluid level indicator would go. The craftsman needs to determine the alloy, temper and thickness of the metallic sheet he will use so as to make the tank. Once the metal sheet is cut into the shapes needed, many pieces are bent to be able to make the basic shell and or the ends and baffles for the fuel tank.

Several baffles in racecars and aircraft have "lightening" holes. These flanged holes have two purposes. They reduce the weight of the tank while adding weight to the baffles. Openings are added toward the ends of construction for the fuel pickup, the filler neck, the fluid-level sending unit and the drain. Every now and then these holes are added when the fabrication method is complete, other times they are created on the flat shell.

The ends and the baffles are next riveted in place. Often, the rivet heads are brazed or soldered in order to stop tank leakage. Ends could next be hemmed in and flanged and brazed, or soldered, or sealed with an epoxy type of sealant, or the ends could also be flanged and next welded. After the brazing, welding and soldering has been finished, the fuel tank is tested for leaks.