

Fuel Tanks for Forklift

Fuel Tanks for Forklift - Various fuel tanks are fabricated by trained metal craftsmen, though most tanks are built. Custom and restoration tanks can be found on motorcycles, aircraft, automotive and tractors.

There are a series of specific requirements to be followed when constructing fuel tanks. Typically, the craftsman sets up a mockup to be able to determine the accurate size and shape of the tank. This is often done using foam board. Then, design concerns are dealt with, comprising where the seams, drain, outlet, baffles and fluid level indicator would go. The craftsman has to determine the alloy, temper and thickness of the metal sheet he would utilize to construct the tank. When the metal sheet is cut into the shapes needed, numerous parts are bent in order to create the basic shell and or the baffles and ends used for the fuel tank.

In aircraft and racecars, the baffles hold "lightening" holes, which are flanged holes which provide strength to the baffles, while likewise reducing the tank's weight. Openings are added toward the ends of construction for the filler neck, the fluid-level sending unit, the drain and the fuel pickup. Every now and then these holes are added once the fabrication process is complete, other times they are made on the flat shell.

The ends and the baffles are then riveted in place. Often, the rivet heads are brazed or soldered so as to avoid tank leakage. Ends could afterward be hemmed in and flanged and soldered, or sealed, or brazed with an epoxy type of sealant, or the ends could even be flanged and after that welded. After the welding, soldering and brazing has been completed, the fuel tank is checked for leaks.