Forklift Fuel Tanks

Forklift Fuel Tanks - Some fuel tanks are fabricated by skilled metal craftsmen, though nearly all tanks are built. Custom and restoration tanks could be seen 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 in order to know the correct size and shape of the tank. This is often performed out of foam board. Next, design problems are addressed, including where the seams, drain, outlet, baffles and fluid level indicator would go. The craftsman must know the alloy, thickness and temper of the metal sheet he will use to be able to construct the tank. Once the metal sheet is cut into the shapes needed, numerous pieces are bent to be able to make the basic shell and or the baffles and ends for the fuel tank.

In aircraft and racecars, the baffles have "lightening" holes, which are flanged holes that provide strength to the baffles, while likewise reducing the tank's weight. Openings are added toward the ends of construction for the fluid-level sending unit, the drain, the fuel pickup and the filler neck. At times these holes are added as soon as the fabrication method is finish, other times they are made on the flat shell.

The baffle and the ends are next riveted in position. Normally, the rivet heads are soldered or brazed to be able to prevent tank leakage. Ends can next be hemmed in and flanged and soldered, or sealed, or brazed utilizing an epoxy type of sealant, or the ends could even be flanged and afterward welded. After the brazing, welding and soldering has been completed, the fuel tank is tested for leaks.