Forklift Fuel Tank

Forklift Fuel Tank - Various fuel tanks are made by skilled metal craftsmen, even though the majority of tanks are manufactured. Custom and restoration tanks could be found on automotive, tractors, motorcycles and aircraft.

There are a series of specific requirements to be followed when making fuel tanks. Usually, the craftsman sets up a mockup to be able to determine the correct shape and size of the tank. This is normally performed out of foam board. Afterward, design issues are addressed, comprising where the drain, outlet, seams, baffles and fluid level indicator would go. The craftsman must find out the alloy, temper and thickness of the metal sheet he would utilize to construct the tank. As soon as the metal sheet is cut into the shapes needed, lots of pieces are bent to be able to make the basic shell and or the ends and baffles utilized for the fuel tank.

In racecars and aircraft, the baffles contain "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. Every so often these holes are added once the fabrication process is complete, other times they are made on the flat shell.

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