

Forklift Fuel Tank

Forklift Fuel Tank - Most fuel tanks are fabricated; nevertheless various fuel tanks are made by experienced craftsmen. Restored tanks or custom tanks can be seen on motorcycles, aircraft, automotive and tractors.

There are a series of particular requirements to be followed when constructing fuel tanks. Commonly, the craftsman sets up a mockup in order to find out the accurate size and shape of the tank. This is usually done using foam board. Next, design problems are dealt with, including where the drain, outlet, seams, baffles and fluid level indicator will go. The craftsman needs to find out the alloy, temper and thickness of the metallic sheet he would use 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 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 also 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 method is complete, other times they are made on the flat shell.

Next, the baffles and ends can be riveted into place. The rivet heads are often brazed or soldered to be able to avoid tank leaks. Ends can next 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 afterward welded. After the welding, soldering and brazing has been finished, the fuel tank is tested for leaks.