

Forklift Fuel Tank

Forklift Fuel Tank - Several fuel tanks are fabricated by experienced metal craftsmen, even if nearly all tanks are built. Custom and restoration tanks can be used on automotive, tractors, motorcycles and aircraft.

There are a series of particular requirements to be followed when making fuel tanks. Typically, the craftsman sets up a mockup so as to know the correct size and shape of the tank. This is often done from foam board. Afterward, design issues are handled, consisting of where the outlets, seams, drain, baffles and fluid level indicator will go. The craftsman must know the alloy, temper and thickness of the metallic sheet he will utilize to construct the tank. Once the metal sheet is cut into the shapes needed, many pieces are bent in order to create 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 filler neck, the fluid-level sending unit, the drain and the fuel pickup. At times these holes are added as soon as the fabrication process is complete, other times they are created on the flat shell.

The baffle and the ends are next riveted in position. Frequently, the rivet heads are soldered or brazed so as to avoid tank leakage. Ends could then be hemmed in and flanged and sealed, or brazed, or soldered utilizing an epoxy kind of sealant, or the ends can also be flanged and next welded. After the soldering, brazing and welding has been completed, the fuel tank is checked for leaks.