

Fuel Tanks

The majority of fuel tanks are fabricated; nonetheless various fuel tanks are made by expert craftspeople. Custom tanks or restored tanks could be used on motorcycles, aircraft, automotive and tractors.

When constructing fuel tanks, there are a series of requirements that should be followed. Initially, the tanks craftsman would create a mockup to determine the measurements of the tank. This is often performed from foam board. After that, design problems are dealt with, including where the outlets, seams, drain, baffles and fluid level indicator will go. The craftsman should know the alloy, thickness and temper of the metallic sheet he will utilize so as to make the tank. As soon as the metal sheet is cut into the shapes needed, numerous parts are bent to be able to make the basic shell and or the baffles and ends used for the fuel tank.

In racecars and aircraft, 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 fuel pickup, the filler neck, the fluid-level sending unit and the drain. Sometimes these holes are added as soon as the fabrication process is finish, other times they are made on the flat shell.

Then, the ends and baffles could be riveted into place. The rivet heads are frequently brazed or soldered to be able to stop tank leaks. Ends could after that be hemmed in and flanged and sealed, or brazed, or soldered utilizing an epoxy type of sealant, or the ends can also be flanged and afterward welded. After the welding, soldering and brazing has been completed, the fuel tank is tested for leaks.