Fuel Tanks

Nearly all fuel tanks are built; however various fuel tanks are made by trained craftspeople. Custom tanks or restored tanks can be used on tractors, motorcycles, aircraft and automotive.

When constructing fuel tanks, there are a series of requirements that ought to be adopted. Initially, the tanks craftsman would make a mockup to know the measurements of the tank. This is usually done out of foam board. Next, design problems are addressed, comprising where the outlets, seams, drain, baffles and fluid level indicator will go. The craftsman needs to know the alloy, thickness and temper of the metal sheet he will use to construct the tank. As soon as the metal sheet is cut into the shapes required, a lot of pieces are bent so as to create the basic shell and or the ends and baffles for the fuel tank.

In racecars and aircraft, the baffles contain "lightening" holes, which are flanged holes which 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. Every now and then these holes are added as soon as the fabrication method is finish, other times they are made on the flat shell.

The ends and the baffles are after that riveted in position. Frequently, the rivet heads are brazed or soldered so as to stop tank leakage. Ends can then 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 then welded. After the soldering, brazing and welding has been completed, the fuel tank is checked for leaks.