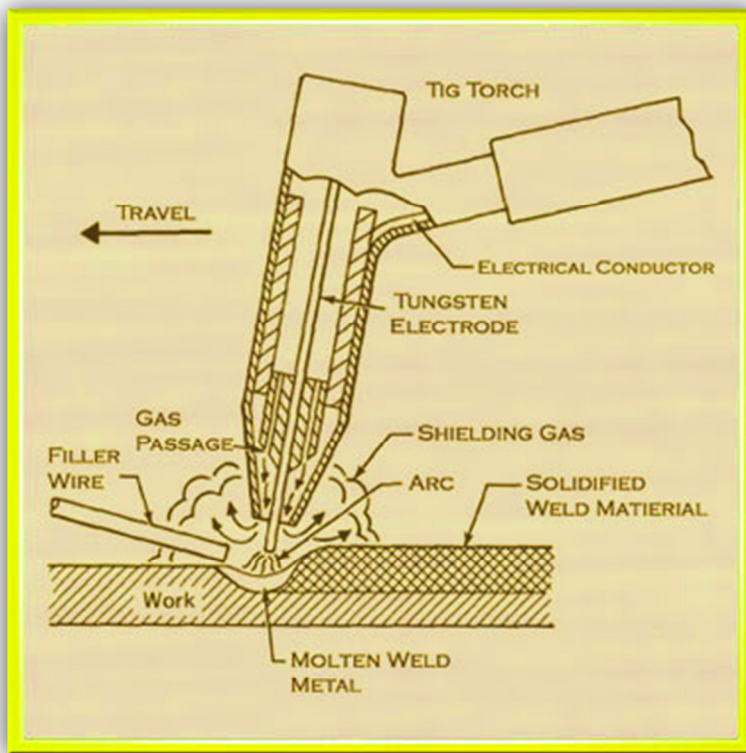




Tig Welding

SJTI specializes in the welding process commonly referred to as tig, still known by some as heliarc. But, the proper title for the process is gas tungsten arc welding (GTAW). The American



Welding Society defines GTAW as an arc welding process wherein coalescence is produced by heating with an arc between a tungsten electrode and the work. Sometimes a filler metal may be introduced to the weld puddle if more material is needed, or if the welder is building up material in an area (usually for tool and die repair). Shielding is obtained with an inert gas or gas mixture.

Tig welding is known to be a very clean process, and can be used to make small, precise welds where mig welding cannot. However, the process is also versatile enough to make large welds

on large parts. Tig welding can be performed on all varieties of stainless steel, tool steel, aluminum, high-temperature alloys, titanium and other reactive metals.