Plasma Arc Welding

PAW

Sometimes referred to as Needle Arc and Micro Plasma, is an electric arc welding process that produces coalescence of metals by heating with a constricted arc between a tungsten electorde and the work (transferred arc) or the electrode and the constricting nozzle (non-transferred arc). Shielding is obtained from the hot ioinzed gas issuing from the orifice. An auxiliary inert shielding gas or mixture of inert gases may supplement the system. The process is commonly applied manually, but may be automatic to increase welding speeds. It can be used to weld almost all metals and can be all position at lower currents. Normally used on thinner metals, the process requires a slightly lesser degree of welder skill than Gas Tungsten Arc Welding, but a greater knowledge of equipment set-up.