

Robot Specification:

Model : KUKA KR 16 HW

Rated Payload : 16 Kg

Maximum Reach : 1636 mm

Repeatability : ±0.05 mm

Controller : C4

Welding Gun Specification

Make : Fronius

Model : TPS 4000 CMT

Supply : 3-Phase

Wire dia : 0.8~1.6mm

Duty Cycle (ArCO2) : 200A Duty Cycle (CO2) : 50A

Wire Feed Speed : 22m/min (850ipm)



Robotic CMT welding process allows users to achieve optimum results when joining different materials, for example steel and aluminum by using extremely low heat input and an exceptionally stable arc set CMT apart from conventional MIG/MAG welding. This technology uses state of art digital inverter based intelligent power source and highly dynamic wire feeder mounted directly on the welding torch coupled with an industrial robot. Robotic CMT welding is ideal for joining steel and aluminum, as the galvanized steel plate is wetted by this brazewelded joint, while the aluminum melts. This Process is also suited to the virtually spatter-free brazing of hot-galvanized and electrolytic galvanized sheets with a welding wire made from a copper-silicon alloy.