

Automotive Robot Applications

Common applications in automotive manufacturing

Spot Welding

Robot: 6-axis, heavy payload

Weld quality, cycle time

Arc Welding

Robot: 6-axis

Seam tracking, penetration

Painting

Robot: 6-axis, hollow wrist

Coverage, film thickness

Assembly

Robot: 6-axis or SCARA

Precision, flexibility

Material Handling

Robot: 6-axis or gantry

Throughput, reliability

Inspection

Robot: 6-axis with vision

Detection rate, false positive