

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