

Robotic Cell Readiness Checklist

Revision 1 - questions to resolve before defining a welding automation cell.

Part and process

A representative part family and clear acceptance criteria are required before cycle-time or cell-layout commitments.

- Drawings, weld symbols and material specifications are controlled
- Part variation and incoming fit-up are measured
- Required weld sequence, access and inspection method are known

Fixture and handling

Fixtures must control repeatability while allowing safe loading, unloading and maintenance access.

- Datum strategy and clamp sequence are agreed
- Distortion and heat-management risks are reviewed
- Positioner capacity and cable routing are included

Facility and safety

The proposed location must support the cell without creating unmanaged utility, traffic or extraction risks.

- Power, gas, compressed air and network requirements are available
- Fume extraction and fire controls are defined
- Guarding, interlocks, access doors and recovery procedures are reviewed

Handover

Define how the cell will be accepted, supported and sustained after commissioning.

- Cycle-time and weld-quality acceptance criteria
- Operator, programmer and maintenance training
- Critical spares, preventive maintenance and escalation contacts

Machine selection, parameter ranges and site preparation must be confirmed against the final application and approved quotation.