



Welding Robot Automation Buyer's Guide

What's Inside:

- What is Robotic Welding?
- Key Benefits of Automation
- Is My Business Ready?
- System Types: MIG, TIG, Spot
- Robot vs Manual: Cost Comparison
- Space, Safety, and Support Needs
- Buyer Checklist
- What to Expect from a Turnkey Integrator

What is Robotic Welding?

Robotic welding uses programmable industrial robots to automate the welding process. It's ideal for repetitive, high-precision tasks and improves quality, speed, and safety in production environments.

Benefits of Robotic Welding

- Consistent weld quality
- Faster cycle times
- Lower operating costs
- Improved workplace safety
- Reduces reliance on skilled labour

Are You a Good Fit?

Your business is likely ready if:

- You produce **medium to high volumes**
- Weld quality and **traceability** matter
- There's a need to **reduce rework**
- You have repeatable part geometries

Types of Robotic Welding Systems

Process	Best For	Example Use
MIG/MAG	General fabrication	Frames, brackets
TIG	Precision / thin materials	Stainless, aluminium
Spot	Automotive / sheet metal	Vehicle panels



Investment Overview

- Refurbished cell: **£35,000–£60,000**
 - New turnkey cell: **£60,000–£110,000**
 - Typical ROI: **12–24 months** depending on use
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Site Readiness

- 3–6 m² cell footprint
 - 400V 3-phase power
 - Fume extraction
 - Operator training area
 - Safety zoning / guarding
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Buyer's Checklist

- ✓ Clear part drawings or samples
 - ✓ Known weld process (MIG/TIG/Spot)
 - ✓ Target production volumes
 - ✓ Budget for integration
 - ✓ Timeline for deployment
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Choosing the Right Partner

Look for:

- Experience with **your industry**
 - In-house **robot and welding expertise**
 - Training and post-sale **technical support**
 - CE / UKCA **compliance and documentation**
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Get Started

Let's help you build the right system:

- [✓] Free consultation
- [✓] Site assessment
- [✓] CAD layout and costed proposal