

# ASR Dynamics

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**Automation with purpose. Make every minute count.**

## Who we are

ASR Dynamics provides automation, robotics, and precision engineering solutions designed for demanding industrial environments. Our focus is practical delivery: systems that improve uptime, enhance safety, and create measurable productivity gains.



## Our story

We began with a vision to elevate operational performance through intelligent automation and robotics that businesses can rely on. Over the years, ASR Dynamics has grown into a team of skilled specialists, backed by cutting-edge technology, supporting clients across diverse industries and regions.

What drives us isn't just delivering automation systems, but creating real value, ensuring every solution we design and integrate contributes to our client's performance and growth.

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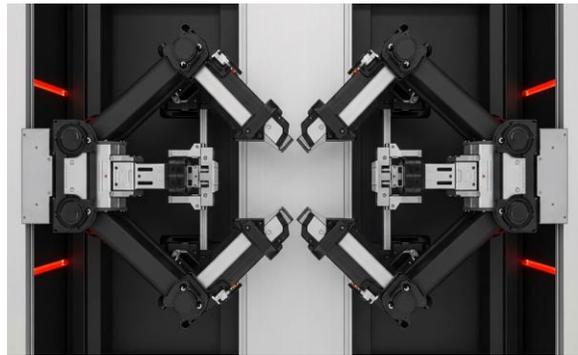
## Services

We deliver end-to-end capability, from concept and design through fabrication, assembly, integration, commissioning, and site support, with disciplined milestones and clear documentation.

### Automation Systems & Robotics

End-to-end automation and robotics integration, from concept and design to build, commissioning, and site support.

- Robotic cells, end-of-arm tooling, and custom fixtures
- PLC/HMI/SCADA engineering and programming; instrumentation, I/O, and network integration
- Safety circuits, interlocks, and functional safety support
- Data integration to dashboards, reporting, and KPI visibility
- Structured FAT/SAT and handover with documentation and training



### Fabrication solutions

Practical fabrication support for automation builds, including frames, mounts, guarding, brackets, and fit-for-purpose assemblies.

- Laser cutting up to 250mm thickness; precision press brake forming
- TIG/MIG and spot welding for strong, durable joints
- Powder coating, painting, anodizing and surface treatment
- Prototype to small production runs with repeatability and documentation



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## CNC machining services

Precision CNC machining with 5-axis technology for complex, high-accuracy parts.

- $\pm 0.002\text{mm}$  tolerance capability (where applicable)
- Multi-axis machining centers (3/4/5-axis)
- Materials support: metals, plastics, and composites
- Prototype to production volumes with quality checks



## Product Assembly

Assembly and integration support to take systems from parts to install-ready builds.

- Mechanical assembly and fit-up to drawings/specs; torque practices and alignment checks
- Electrical integration, routing, labelling, and loom preparation (I/O ready)
- Subsystem integration with functional checks and punch-list closeout
- Documentation pack for smoother commissioning and handover



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## Industries we support

Automation solutions built for real-world constraints, across multiple sectors:

### Industrial Automation

Controls and integration for real production environments designed for uptime, maintainability, and safe operation.

- Instrumentation, I/O, and panel integration
- PLC to database/cloud integration
- Critical safety component expertise

### Resource Mining

Automation and robotics solutions engineered for harsh environments, improving safety and reliability across mine sites.

- PLC/SCADA upgrades for critical assets
- Robotic-assisted tasks for safer operations
- Ruggedised control panels & instrumentation

### Warehousing & Logistics

Automation that speeds up dispatch and reduces labour strain, built for reliability and scalability.

- Conveyors, sortation and palletising
- Robotics cells and safety integration
- WMS/SCADA data and performance reporting

### Energy & Power

Innovative energy systems delivering reliable, efficient, and sustainable performance.

- Reliable energy supply
- Efficiency optimization
- Sustainability focused

### Industrial equipment

High-performance industrial machinery designed for productivity, durability, and efficient operations.

- Enhanced productivity
- Durable and reliable
- Versatile applications

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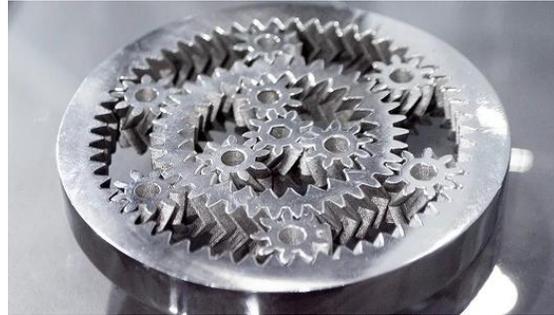
## Products

A selection of what we build. Custom order enquiries welcome.

### Aluminum gear housing

Precision CNC machined aluminum housings for gear systems and machinery.

<b>Material</b>	Aluminum 6061 / 7075
<b>Capability</b>	CNC Machining
<b>Size range</b>	Custom dimensions up to 500mm



### Robotic End of Arm Tooling

Custom end of arm tooling for pick and place, handling, and process automation.

<b>Material</b>	ABS, Aluminium, Stainless steel, Engineering polymers, Nylon
<b>Capability</b>	Grippers (electric/pneumatic), Vacuum tooling, Quick-change plates
<b>Size range</b>	Custom to payload & application (modular builds available)



### Electrical control panels

Weather-resistant control panels for industrial automation systems.

<b>Material</b>	Mild Steel, Stainless Steel
<b>Capability</b>	Sheet Metal Fabrication & Assembly
<b>Size range</b>	Small to full-scale cabinets



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### Precision Shaft Assemblies

High-precision steel shafts for automotive and industrial equipment.

<b>Material</b>	Alloy Steel, Stainless Steel
<b>Capability</b>	Turning & Grinding
<b>Size range</b>	Up to 1200mm



### Power distribution boards

Reliable panels for safe and efficient power distribution with customizable pre-wired sections.

<b>Material</b>	Mild Steel, Stainless Steel
<b>Capability</b>	Sheet Metal Fabrication & Assembly
<b>Size range</b>	Small to large-scale units



### Copper busbar panels

High-conductivity panels for industrial and commercial power distribution.

<b>Material</b>	Copper / Aluminum Busbars
<b>Capability</b>	Metal Fabrication & Assembly
<b>Size range</b>	Medium to large



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### Stainless steel junction boxes

Corrosion-resistant boxes for industrial and chemical environments.

<b>Material</b>	Stainless Steel 304 / 316
<b>Capability</b>	Laser Cutting & Welding
<b>Size range</b>	Small to medium



### Titanium sensor housing

Lightweight, strong housings for high-precision sensors.

<b>Material</b>	Titanium Alloy
<b>Capability</b>	Precision CNC Machining
<b>Size range</b>	Small



## Our proven workflow

### Step 1 — Planning & Assembly Readiness

Confirm requirements, site constraints, and success criteria. Produce an initial plan, integration approach, and documentation expectations.

### Step 2 — Build, Integrate & Verify

Fabricate/assemble components, integrate controls and wiring, and verify interfaces with structured checks.

### Step 3 — FAT/SAT, Commissioning & Handover

Execute test plans, close punch-list items, commission on site as required, and deliver handover pack and training.

## Contact

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