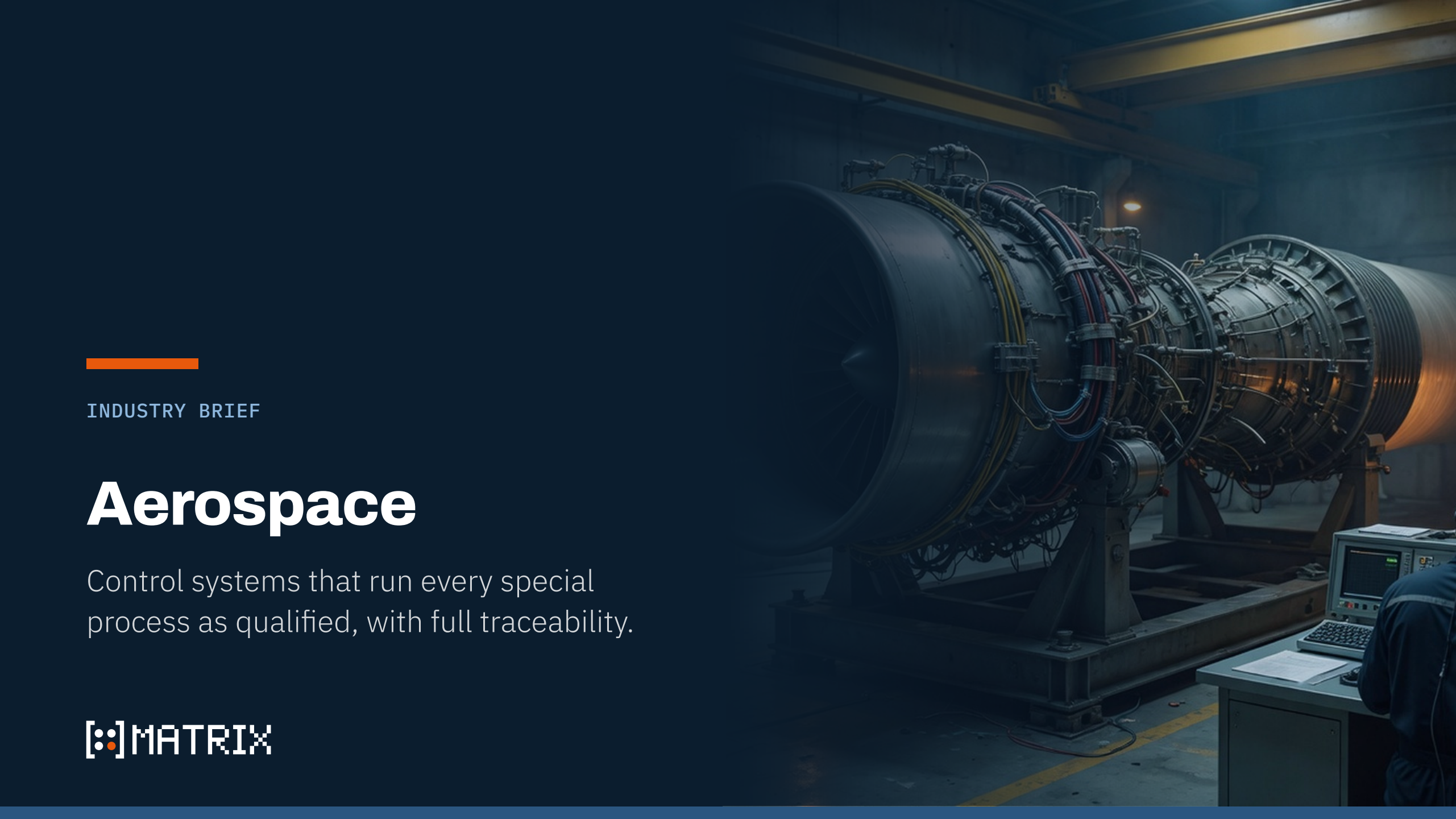




INDUSTRY BRIEF

Aerospace

Control systems that run every special process as qualified, with full traceability.

 MATRIX

What matters most

Special processes, right every time

Cleaning, heat treatment and testing must run exactly to the approved specification on every run, because the result often cannot be fully verified by inspecting the part afterwards.

Traceability for every part

Every part and every process run must be traceable to the equipment, settings and people involved, with records that satisfy your customers, your AS9100 system and your Nadcap auditors.

Data you can trust

Process records must be complete, time-stamped and protected from change, so that a deviation is caught and explained at the time, not discovered at audit.

Controlled change

Once a process is qualified, any change to software, recipes or equipment must be assessed, approved and recorded before it reaches production, however small it looks.

The standards that shape your project

Standard	What it covers
AS9100 (EN 9100)	Quality management for aviation, space and defence organisations, built on ISO 9001.
Nadcap	Industry accreditation of special processes such as heat treating, chemical processing and non-destructive testing.
AMS2750 pyrometry	Temperature sensors, instruments, calibration and furnace uniformity and accuracy testing for thermal processing.
AS9145 (APQP and PPAP)	Advanced product quality planning and production part approval for aviation, space and defence.
BS EN ISO 13849-1	Safety-related parts of machine control systems, rated by performance level (PL).
IEC 62443	Security for industrial automation and control systems.

The standards listed are those most often relevant to control-system work in this sector. Which apply to your project, and how, is agreed with you at specification stage.

From specification to long-term support



Qualified processes are changed with care. We agree requirements, acceptance criteria and change control with your quality team up front, prove logic against a simulation before site, and test against the process specification. You receive traceable test records, version-controlled code and documentation ready for your customer and Nadcap audits.

Systems we engineer

- Component and blade cleaning lines
- Chemical processing and surface treatment
- Furnace and heat treatment control
- Test rigs and data acquisition
- Process recording and part traceability
- Maintenance reporting and diagnostics

PROJECT EXPERIENCE

Blade cleaning facility

Matrix delivered the control system for a blade cleaning facility. Every project we deliver follows the same approach: requirements and acceptance criteria agreed up front, logic tested against a simulation before site, and full documentation and test records at handover.

The evidence you receive at handover

✓ Functional design specification

✓ I/O list and cause-and-effect

✓ Alarm list and HMI interface

✓ FAT and SAT records

✓ As-built drawings and source code

✓ Method statements for common faults

Why customers choose us

Standards first

An ISO 9001 certified quality system, designing to the standards your sector demands, plus any you specify.

You own the system

Clear structure, open interfaces and complete documentation, so you can support it yourself or with any vendor.

Tested before site

Control code is version-controlled and tested against a simulated plant before factory and site acceptance.

Multi-vendor

Siemens, Rockwell, ABB, Schneider, Mitsubishi, Beckhoff, Emerson, Honeywell and GE platforms.

In it for the long term

For us a project is not finished until the control system is decommissioned. 24/7 support is available under a support agreement.

OUR PROMISE

Standards-led, fully documented control systems that you own and can support.

GET IN TOUCH

Talk to us about your project

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0121 240 7454

www.matrixsystems.co.uk

ISO 9001 certified • Cyber Essentials • CHAS • Constructionline • SafeContractor

