

Glenair Factory Tour

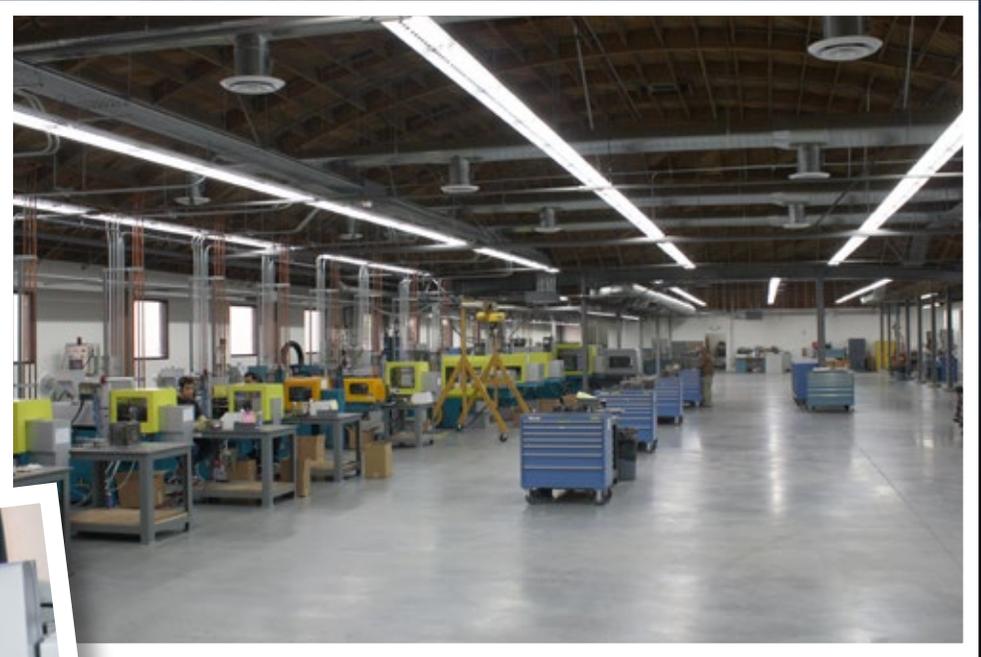
GLENDALE, CALIFORNIA

Complete vertical integration of manufacturing resources—at home in Southern California since 1956

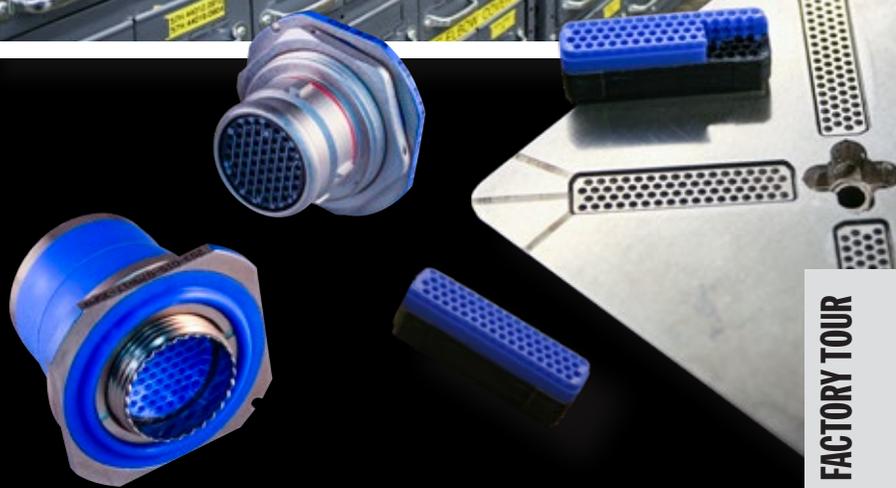


Glenair operates the largest precision machining facility in the high-performance interconnect industry, allowing us to support both small and large-volume interconnect requirements—from one piece to 100,000





Glenair's massive investment in composite thermoplastic injection molding capabilities—the largest in the high-reliability interconnect industry—includes machinery, tooling, and most importantly, professional operators



FACTORY TOUR

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Glenair design, engineering, and fabrication capabilities extend to both electrical as well as optical connectors, cables, and complex integrated assemblies—all under one roof and one worldwide quality system

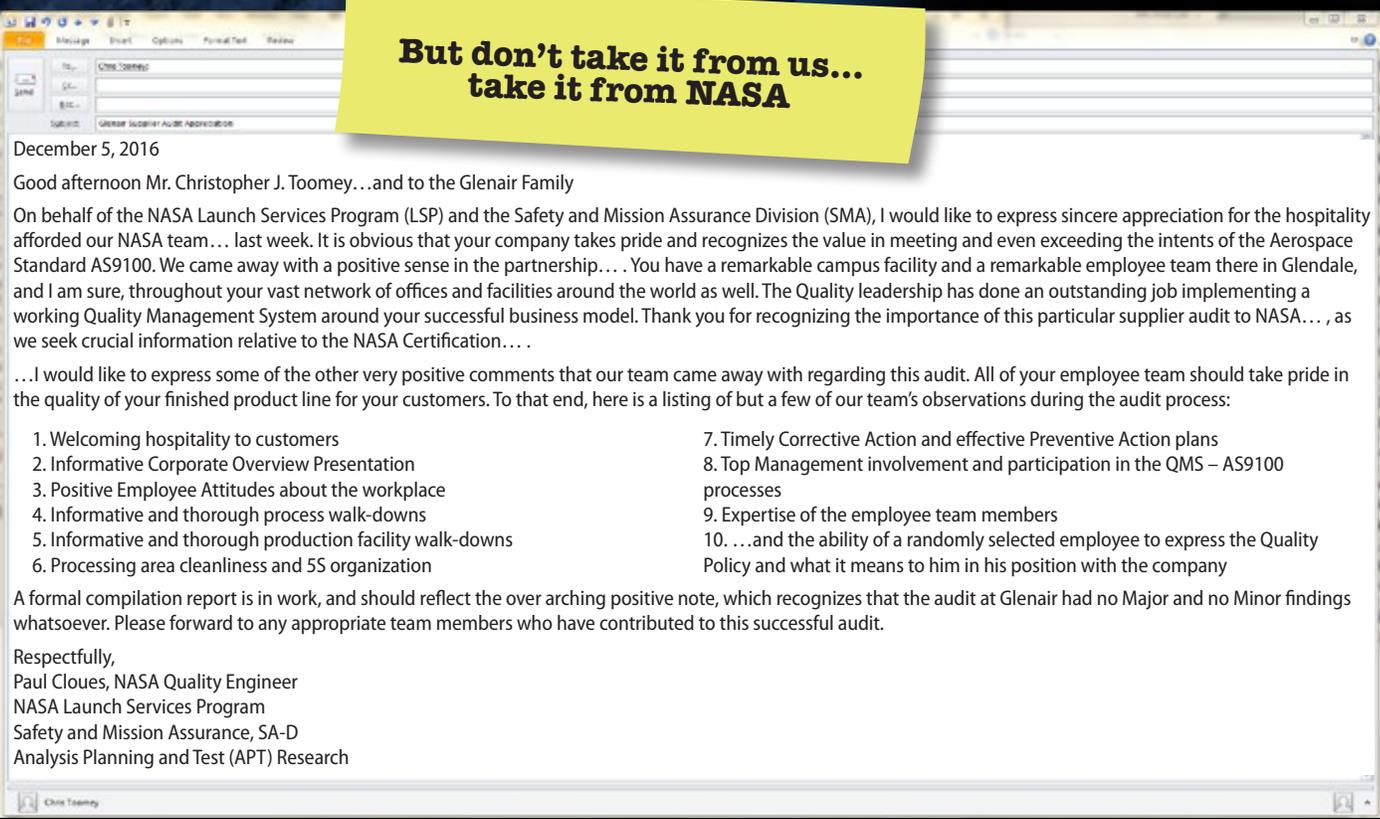




**SPACE GRADE
NASA
ESA, JAXA
SCREENED**

Glenair's family of space mechanisms are manufactured in certified cleanrooms. Full qualification test reports are available for every device type. NASA/ESA outgas processing and screening completed on-site. All operations are managed under a single certified quality system with unprecedented levels of performance.

**But don't take it from us...
take it from NASA**



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Glenair's Complex Cable Group (CCG) has delivered creative engineering, high-quality workmanship, fast response, and on-time delivery to countless cable harness and ruggedized interconnect assembly customers for over 60 years—including countless space-grade and space flight applications. The operation—from cable design through fabrication, test, and delivery—is fully integrated into Glenair's Glendale campus, ISO 9001 and AS9100 quality system, and high-availability business model.



High-speed production overmolding

Commander Ed White's "Golden Umbilical," with space-grade radiation shielding



Multibranch assembly with lightweight ArmorLite™ microfilament EMI/RFI overbraid



Continuity testing standard on all cable circuits



Reliable Band-Master ATS® EMI/RFI shield termination technology used extensively throughout the shop



Glenair's engineering team in Glendale is augmented by regional teams worldwide, and we love to travel. Our place or yours? We work at our customers' convenience.



The Glenair Culture

COMMITTED TO QUALITY AND CUSTOMER SERVICE SINCE 1956

Glenair is proud of the quality and reliability we build into our broad range of mission-critical interconnect solutions—from discrete connectors to complex cable assemblies and embedded systems. Glenair is the biggest “made in the USA” interconnect supplier in the high-reliability industry, but we also operate factories in the UK, Italy, and Germany to serve the unique requirements of those markets. Glenair’s Worldwide Quality System is ISO 9001 and AS9100 certified and registered. We also hold many discrete product and operations certifications for specialty, high-performance markets including space, nuclear power, and rail. In addition to world-class quality, we are laser-focused on customer service and committed to being the easiest manufacturer in our industry to do business with. Here are just some of our key customer service principles:



Lightning-fast turnarounds on quotes and special orders

Huge same-day shipment inventory



Worldwide sales and technical support in every major market



Full-spectrum, “no gap” product lines



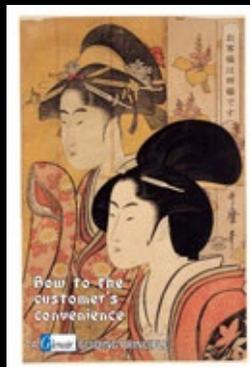
Generous NRE, RMA, and sample request policies



Abundant engineering and technical support

NO DOLLAR OR QUANTITY MINIMUMS.

No dollar or quantity minimums



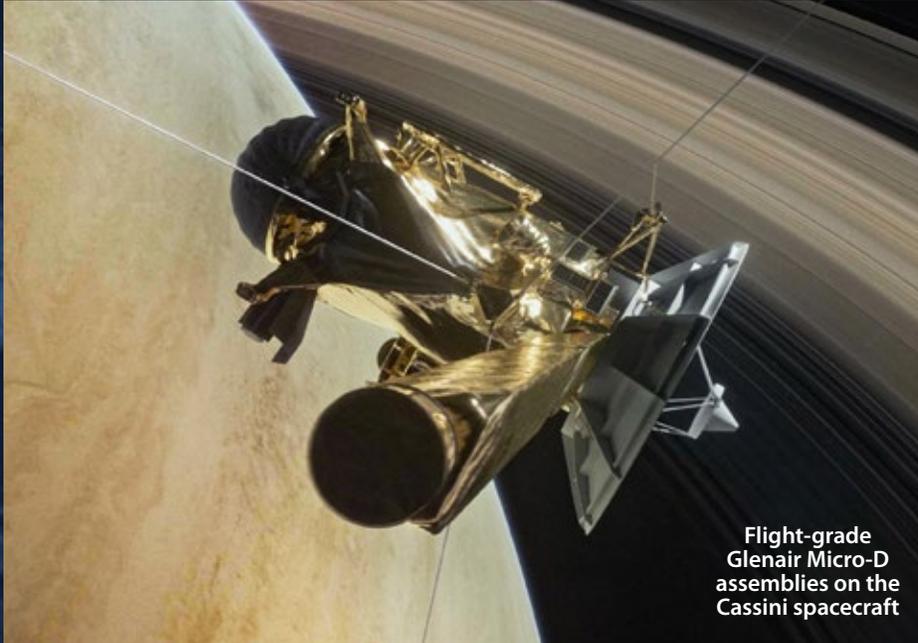
No attitudinal constraints when it comes to customer convenience and service

FACTORY TOUR

Glenair UK Factory Tour

MANSFIELD, ENGLAND

Mission-critical interconnect technologies for the UK and European markets with a special focus on micro and nanominiature flex assemblies



Flight-grade Glenair Micro-D assemblies on the Cassini spacecraft



ESCC series Micro connectors for ESA space and other UK and EU markets

GLENAIR UK QUALITY STANDARDS AND APPROVALS

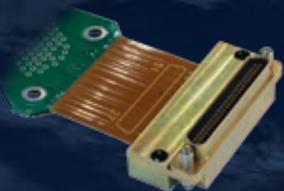
- ISO Class 8 Clean Room IAW FED STD 209E class 100,000
- Quality Management System certified according to AS9100 and ISO 9001
- Independent Test Laboratory Certified to ISO/IEC 17025 IECQ 01 and IECQ 03-6

Glenair UK is Glenair's Centre of Excellence for the design, build and qualification of its extensive Micro-D and Nano connector product portfolio for the European and global space market. Glenair UK have more than 30 years of experience in the manufacture of MIL-DTL-83513 Micro-D and MIL-DTL-32139 Nano compliant connectors.

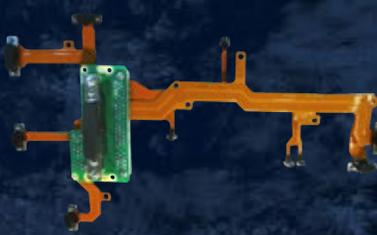
From standard flying-lead and PCB mount connectors to complex screened cable assemblies, Glenair production staff are trained and qualified to the exacting standards of IPC WHMA-A-620 and ESA soldering and crimping process standards: ECSS-Q-ST-70-08 & ECSS-Q-ST-70-26.

Certified to ISO/IEC 17025, Glenair's in-house independent test laboratory is capable of running all industry standard qualification programs for its space flight customers—from outgassing to full qualification programs (ESA and NASA).

MICRO AND NANOMINIATURE HARNESS AND FLEX ASSEMBLIES



Terminated and tested flexi and rigid flexi point-to-point assemblies with Glenair Micro and Nano interconnects



Complex multibranch flexi and rigid flexi assembly with Glenair Micro and Nano interconnects



Micro and Nano wired harnesses and pigtails



The Glenair Mansfield machine shop houses a full complement of CNC milling, turning, measurement, and mechanical inspection equipment

Micro-D and Nanominiature harnessing is completed in our AS9100 / ISO 9001 certified facility



The Glenair Mansfield clean room assembly area is used for fabrication of laser, space, and satellite assemblies IAW ISO Class 8 -100,000 PPM



Glenair UK operates an independently accredited BS9000:CECC:IECQ test lab for both internal as well as third-party product development / design verification and connector qualification



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BOLOGNA, ITALY

Glenair Italia serves harsh-environment military, nuclear, rail, and industrial markets with power, high-speed Ethernet, hazardous-zone interconnects and more.

SUPER ITS™ HIGH-PERFORMANCE REVERSE BAYONET



Higher temperature and ampacity rating with rigid insert and mechanical contact retention

HIGH VOLTAGE SOLUTIONS



15kV high-voltage connector series

HERMETIC CONNECTORS



UMBILICAL CONNECTORS



Umbilical interconnects, go-betweens, tilting buffers, and more

RUGGEDIZED ETHERNET CONNECTORS



Tested for compliance according to EN50173-1 standards for CAT5E and CAT7

MULTIPOLE POWER CONNECTORS



Ethernet Cat7A contacts



Ethernet Cat5 contacts



Coax contacts



Ethernet MVB - WBT contacts

Pulse Width Modulation 3kV connector for AIRBUS

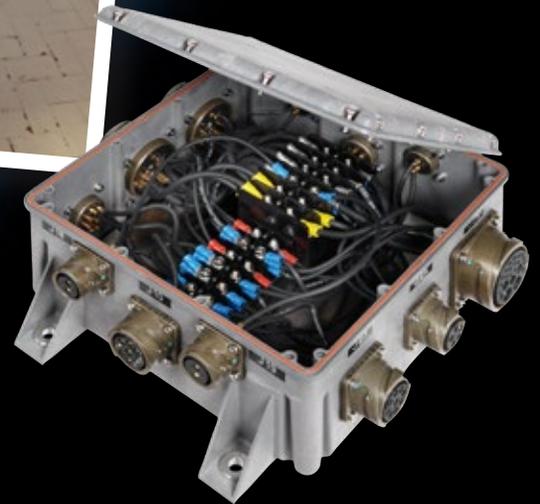
Total vertical integration includes in-house contact fabrication



In-house injection molding (far left) and resilient insert processing (left) provides Glenair Italia with all the resources required to fabricate interconnect technologies from scratch without dependence on outside suppliers



In-house test lab with capabilities for both high voltage as well as high speed signal product qualification



Glenair Italia hosts the most modern and comprehensive interconnect plating facility in Europe



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SALEM, GERMANY

Space-grade interconnect harnesses and ESGE test rack systems for satellite applications—ESA certified



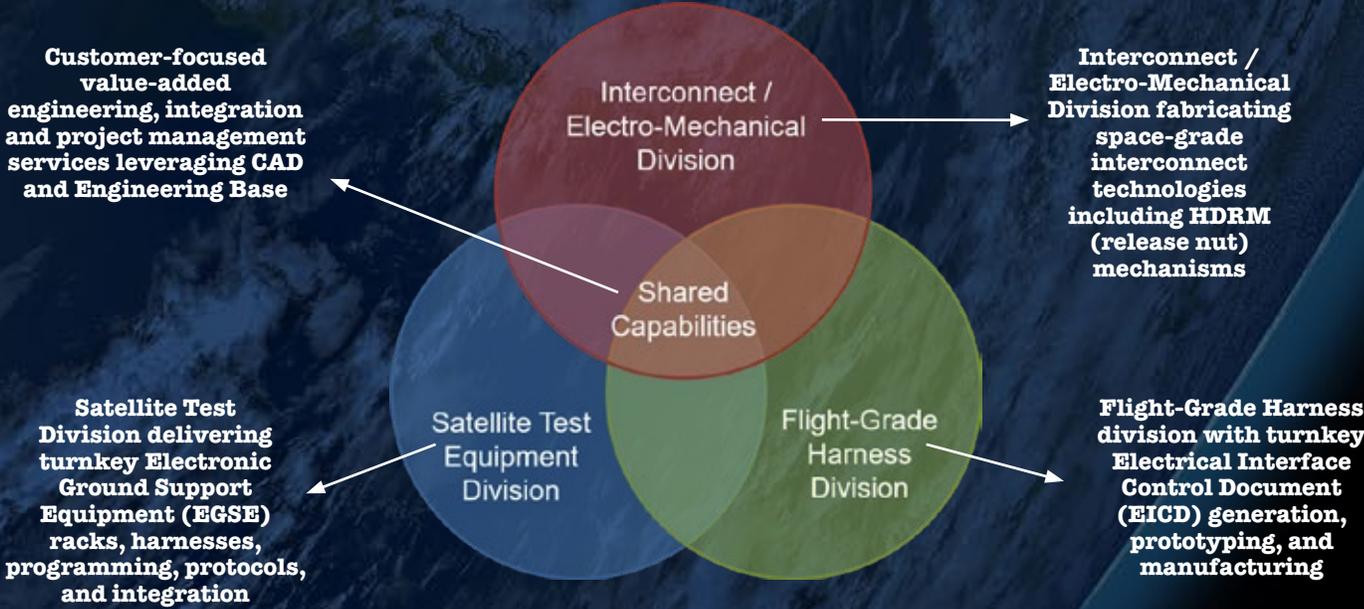
Glenair Space Systems: a mission-critical space-grade harness, test, production, and integration operation. ESA-certified assembly staff plus value-added Engineering Base and 3D SolidWorks design, prototyping, and clean-room facilities.

THE POWER OF GSS VALUE-ADDED ENGINEERING AND MANUFACTURING

A turnkey design and fabrication operation: from documentation (1), to prototype (2), to production (3), to integration (4).

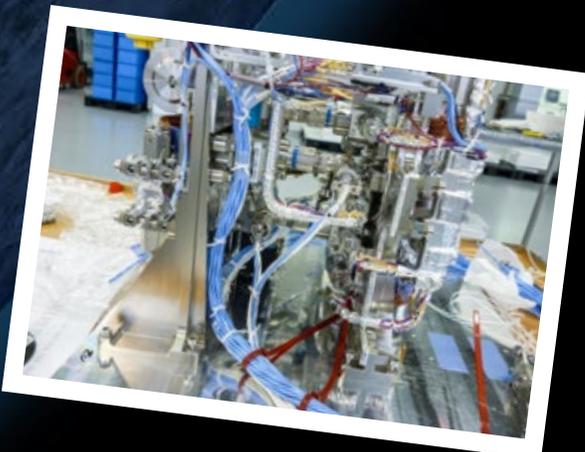


GLENAIR SPACE SYSTEMS CORE CAPABILITIES AND TECHNICAL TEAMS



GLENAIR SPACE SYSTEMS IN-HOUSE PRODUCTION AND ASSEMBLY CAPABILITIES

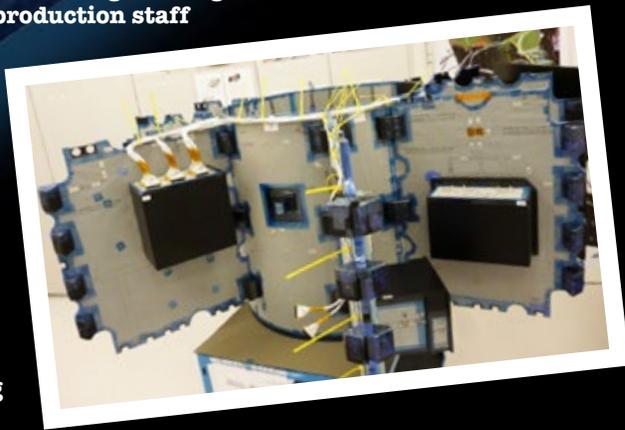
Glenair Space Systems is a growing operation with an over 600 m² production floor. The facility also features 300 m² ISO 8 and ISO 6 clean rooms, ISO 5 flow chamber (certified to ESD Standard 61340-5-1), a large precision machining center, and ample clean room accommodation for large mock-up and integration projects.



Integration of production harnesses— in-house or at customer facility



ESA-certified engineering and production staff



3D mockup design, fabrication, and harness integration including in-house generation of all engineering and production files using Engineering Base



Turnkey satellite test harnesses and Electronic Ground Support Equipment racks

FACTORY TOUR