

**Quality Assurance Supplemental Requirements:**

- 1) All documentation required by these stipulations, as noted below, must accompany the article in order for acceptance. An electronic copy of the documentation is acceptable on or before the delivery date.
- 2) A Certification of Conformance must accompany items. An authorized representative of the Seller's company must sign the Certificate. It must state that the articles meet the drawings/specifications and/or the requirements stated on the A&G Machine Purchase Order.
- 3) The Seller must maintain all quality records pertaining to this transaction for a period of not less than eleven years from the date of shipment (current calendar year plus 10 years).
- 4) All required terms and conditions contained in these stipulations, as applied, must be extended to any subcontractors of suppliers to the Seller.
- 5) Notification of Organizational Changes – Supplier shall notify A&G Machine, Inc.'s Quality Manager, within 24 hours, of changes that may impact product quality or delivery schedule, including changes in: manufacturing location; leadership (director-level or above); ownership; or quality system changes affecting products or services on A&G Machine Inc. PO's.
- 6) Any non-conformances that escapes the supplier's quality system requires notification of A&G Machine, Inc. Quality Manager and Purchasing Manager. This notification shall be completed within 24 hours of the seller becoming aware of the escape, and shall include: part number; lot information; date(s) shipped; quantity; details of discrepancy, root cause, and corrective actions.
- 7) Items must be accompanied by Test Reports or Test Data Records, which contain the chemical and/or physical test data, which was taken on the material or services. Reports shall, as a minimum, indicate the type of test performed, the results of the test, and the number and nature of any discrepancies found. This Report must be signed by an authorized representative of the company.
- 8) Raw Material Test Reports (on metals, castings, plastics, etc.) are required which cover the chemical/physical and measurement analysis necessary to assure that the materials supplied comply with the Purchase Order requirements.
- 9) Nondestructive Inspection Certs (e.g., magnetic particle, Fluorescent penetrant, radiographic, ultrasonic, etc.) are required which indicate inspection results and compliance to the specifications contained in the Purchase Order.
- 10) Special Process Certifications (plating, painting, heat treating, etc.) are required which certify that processes were conducted in conformance with the Purchase Order and referenced data. Special process suppliers are required to be NADCAP accredited unless approved in writing by A&G Machine Quality. Special process suppliers shall be selected only from customer approved providers when required.
- 11) Supplier shall not ship an article that is not manufactured to the latest engineering revision level, unless otherwise authorized by the A&G Machine, Inc. purchase order.
- 12) Suppliers of any and all related product, processes, and/or manufacturing for A&G Machine Inc., are required to ensure they are utilizing the latest revisions to the design dossier and/or specifications, unless otherwise specified within the purchase order. This includes incorporation of any applicable engineering change notices or process spec deviations.
- 13) Supplier shall notify A&G Machine Purchasing department when engineering data in supplier's possession does not agree with the latest Revision level.
- 14) Shelf life limited items must bear the date of manufacture and the anticipated shelf life or the expiration date. As a minimum, 75% of the shelf life of an item must be unused upon receipt unless otherwise approved by A&G Machine.
- 15) When material for this order is to be supplied to the seller by A&G Machine, material shall be controlled so that only the material supplied to the seller is used on this order.



- 16) First Article Inspection (FAI) per AS9102 is required for all assemblies, sub-assemblies, and detail parts including castings, forgings, and modifications to standard off-the-shelf items. FAI is required on articles that are being manufactured for the first time by this supplier, whenever a design change affects characteristics of the part, or whenever there is a change to the manufacturing process (sequence, location, program, tooling, or program) that could potentially affect fit, form, or function of the part. An FAI is also required if supplier has not manufactured the article within 2 years, or if otherwise required by the A&G Machine, Inc. purchase order. Detailed inspection results using current AS9102 form templates are required.
- 17) No changes to engineering requirements, drawings, or specifications are permitted without written contractual approval.
- 18) The supplier shall provide right of access to their facility and the facilities of all members of their supply chain, for review, verification, and analysis of their quality management system, quality control, inspection system, and maintenance process. In addition to our right of access, the Supplier agrees to grant right of access to our customers and / or regulatory bodies, to all facilities and records applicable to completion of the contracted items.
- 19) Any and all work performed to an A&G purchased order, must be done at the supplier assigned to within the purchase order. Outsourcing (work transfer) of A&G related product, processing, and/or manufacturing, is strictly prohibited without A&G's written authorized consent via the purchase order.
- 20) Any supplier performing work with an ITAR requirement, must be able to provide evidence of compliance to the U.S. Department of State regulation.
- 21) In addition to A&G requirements and PO, review customer-specific supplier quality clauses, and meet customer flow down requirements.
 - a. Boeing – <http://www.boeing.com/quality.html>
 - b. Gulfstream – <http://www.gacwebprod.com/resources/supplier-portal>
 - c. Nordam – <https://www.nordam.com/suppliers>
 - d. Kodiak Aircraft Co. – <https://questaircraft.com/wp-content/uploads/2017/07/Q35.3-Quality-Assurance-Supplemental-Requirements-R-14.pdf>
 - e. Spirit AeroSystems – <https://www.spiritaero.com/suppliers/supplier-criteria>
 - f. Triumph Group, Inc. – <https://www.triumphsupplysource.com/suppliers/index.php>
- 22) Seller is required to purchase from conflict-free mineral and conflict-free smelter sources.
- 23) The supplier shall have a procedural plan to prevent Foreign Object Damage or Debris (FOD) within all parts or assemblies shipped to A&G Machine, Inc. Note – AS9146 may be used as a guideline for establishing a FOD prevention procedure.
- 24) Supplier shall evaluate the need for action for non-conformances. Root Cause Corrective Actions shall be performed to meet the requirement of the ANAB template provided by A&G when Supplier creates non-conformances.
- 25) The seller shall have processes appropriate to the organization and the product, and meeting the requirements of AS6174, for the prevention of counterfeit or suspect counterfeit part use and their inclusion in product(s) delivered to A&G Machine.
- 26) Ensuring that persons are aware of:
 - their contribution to product or service conformity;
 - their contribution to product safety;
 - the importance of ethical behavior.
- 27) If the supplier utilizes Acceptance Authority Media (stamps, electronic signatures, etc) the supplier shall establish controls for the media in accordance with AS9100 and any customer-specific quality requirements.



- 28) Prevention of Counterfeit Parts: The organization shall plan, implement, and control processes, appropriate to the organization and the product, for the prevention of counterfeit or suspect counterfeit part use and their inclusion in product(s) delivered to the customer.
- 29) Per Boeing D6-82479; Clause 3.2: "The Seller must immediately notify the A&G Machine Procurement Agent that supports your facility, in writing, of any changes that may affect the capability of the Quality Management System (QMS) to continue to fulfill A&G requirements or the requirements of the QMS standard. This includes all changes referenced within ISO/IEC 17021-1:2015 clause 8.5.3."
- According to ISO/IEC 17021-1 clause 8.5.3, these changes may include:
- a) the legal, commercial, organizational status or ownership;
 - b) organization and management (e.g. key managerial, decision-making or technical staff
 - c) contact address and sites;
 - d) scope of operations under the certified management system;
 - e) Major changes to the management system and processes.
- 30) Control of "Boeing PC7000 Use Only" Items-PC700 Usage Identification: If procurement activates support Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 quality system supplier control program. Unless explicit contractual direction is given to the contrary, no articles (or constituent parts thereof) ordered on Boeing's behalf shall contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA) markings and the accompanying paperwork (e.g., packages, shippers, etc.) shall not contain any FAA-PMA markings.
- 31) Seller shall place the following statement on the shipping documentation of all shipments to A&G Machine on Boeing's behalf:
- 32) "Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700 and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., packages, shippers, etc.) contain any Federal Aviation Administration-Parts Manufacturer Approval (FAA-PMA) markings."
- 33) Application Note for Seller: The preferred location for the above statement is on the shipping document next to, or following the Certificate of Conformance (CoC). The statement may be printed, stamped, or attached as a label or sticker to the shipping documentation. It is allowable to replace "Seller" with the Company Name or "We".
- 34) A&G Machine/Boeing requires that the provisions/requirements set forth above, as determined by the Seller to be applicable, be included in Seller's direct supply contracts as well as the obligation that they be flowed to the sub-tier supply chain. For purposes of this clause, Supply Chain shall mean Seller's complete network of material, equipment, information, and services integrated into products and services. It focuses on direct and all lower-tier suppliers.

Activities that may affect the capability of the QMS to fulfill A&G requirements include significant changes to product verification plans, delegation of inspection authority, and the implementation of reduced inspection per AS9138 "Aerospace Series – Quality Management Systems Statistical Product Acceptance Requirements" are directly related to the capability of a Supplier's QMS and therefore are considered changes. These type of changes must be communicated to A&G Machine in writing.



QMS FORM:

F-841-001 REV G

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35) For Calibration Services: The supplier shall maintain a Quality Management system in accordance with, and certified to, ISO-17025 "Testing & Calibration Laboratories", unless otherwise authorized by A&G's Quality Manager prior to the activity being performed. All measurement & test equipment (M&TE) calibration, verification (or both) activities must be performed using measurement standards traceable to international or national measurement standards. The certification document(s) for each item in which service was performed must include at a minimum:

- a. Purchase order number provided by A&G
- b. The equipment's unique ID assigned by A&G
- c. Item description
- d. Date of service activity
- e. Condition of the item "as found" (*or equivalent terminology*)
- f. Condition of the item "as returned" (*or equivalent terminology*)
- g. Traceability to national or international standards used.