



<b>DOCUMENT NO.</b>	<b>Supplier Quality Assurance Provisions</b>
<b>PUR-001-F4</b>	

**Common Purchase order Quality Provisions - These requirements are applicable to all purchase orders:**

Requirement Name	Requirement Details
<b>Certificate of Conformance</b>	<p>A legible "Certificate of Conformance" (C of C) statement shall be provided with each shipment submitted to DYNOMAX INC. The C of C may be in the supplier's format and may either be a separate document or may be included within the packing list. The C of C statement shall state that the items were produced in conformance with requirements as specified in the DYNOMAX INC purchase order, DYNOMAX INC Engineering drawing (including revision), and / or the supplier's part number if the applicable item is a Source controlled item. As a minimum, the C of C shall note:</p> <ol style="list-style-type: none"> <li>1) The manufacturer or distributor's name and address;</li> <li>2) The DYNOMAX INC purchase order number;</li> <li>3) The part number(s) including revision(s) when applicable;</li> <li>4) Traceability information including serial numbers, lot codes, or date codes as appropriate;</li> <li>5) Shelf-life expiration dates if applicable;</li> <li>6) Storage requirements if necessary for product preservation; and</li> <li>7) The signature of the supplier's authorized representative.</li> </ol> <p>The C of C shall contain enough additional information as necessary to facilitate traceability to supporting supplier documentation, which shall be maintained on-file by the supplier and available for retrieval if necessary unless otherwise specified.</p>
<b>Surveillance &amp; Right of Entry</b>	Representatives of DYNOMAX INC, its customers, Government, and/or regulatory agencies (if applicable) reserve the right to visit the supplier and its suppliers with the intent of performing surveillance activities including inspections, surveys, and audits with the intention of verifying conformance to 1) product requirements as invoked by DYNOMAX INC purchase order; 2) general requirements as defined in this table; and 3) specific requirements in Table 2 as invoked by DYNOMAX INC purchase order. In addition, DYNOMAX INC reserves the right to visit and view processing to resolve product quality issues.
<b>Origin of Raw Materials</b>	DYNOMAX INC is required to comply with DFARS clause 252.225-7009. Therefore, in the process of filling this order, all metallic raw materials must be melted and/or processed inside the United States or other qualifying country as defined in DFARS 225.872-1. Certification and / or test documentation must include the country of "melt" and / or the country of origin unless specified otherwise.
<b>Corrective Action</b>	When requested by DYNOMAX INC, the supplier shall investigate nonconformities to determine the root cause(s) of failures, and take effective action(s) as appropriate to correct the items and prevent future failures. Unless otherwise requested by DYNOMAX INC, such corrective action(s) may be documented in the supplier's format and submitted to DYNOMAX INC Quality Personnel for approval.
<b>Calibration</b>	The supplier shall only utilize inspection and test equipment for acceptance that has been calibrated to the requirements of ANSI/NC SL Z540 or other recognized standards. All supplier calibrations performed internally or supplier calibrations performed on Dynomax Inc equipment must be traceable to a National or International Standard such as NIST.
<b>Preservation &amp; Packaging</b>	Unless otherwise specified, the supplier shall use good commercial practices for preservation and packaging of items supplied to DYNOMAX INC.
<b>Return of Nonconforming Material from DYNOMAX INC</b>	Nonconforming items returned from DYNOMAX INC which are subsequently resubmitted by the supplier following material review disposition activities shall bear a particular indication of such resubmission on the accompanying paperwork and shipping documents. Reference shall be made to the DYNOMAX INC rejection documentation and evidence presented to demonstrate that the causes for rejection have been corrected.
<b>First Article Inspection</b>	<p>DYNOMAX INC may perform First Article Inspection per SAE AS9102 under the following conditions: 1) new supplier; 2) new part number to this supplier; 3) revision change; 4) same manufacturer but lapse between production runs of 12 months or greater; 5) verification of implementation of corrective &amp; preventive actions; 6) new facility; or 7) change of ownership.</p> <p>DYNOMAX INC may require First Article Inspection from the Supplier if the appropriate clause(s) is specified on the Purchase Order or other Engineering or Quality document. If there is a question about applicability, please verify with DYNOMAX INC Quality Manager through your DYNOMAX INC contact.</p>
<b>DYNOMAX INC Furnished Tooling</b>	Tooling (fixtures, jigs, molds, etc.) and test equipment fabricated by the supplier at DYNOMAX INC expense, or furnished by DYNOMAX INC, shall be considered property of DYNOMAX INC. Routine and periodic maintenance and calibration of such items is the responsibility of DYNOMAX INC. Suppliers are responsible for insuring appropriate protection during transport, storage, and use. Some amount of wear and tear is expected through usage.
<b>Use of Conflict Minerals (Conflict Metals)</b>	DYNOMAX INC is committed to implementing programs and practices that promote environmental sustainability and social responsibility, while continually improving product quality and reliability. To that end, it is Dynomax's policy to prevent the sourcing of certain "Conflict Metals," eventually incorporated into its products, from contributing to armed conflict. Conflict Metals are defined as: gold (Au), tantalum (Ta), tin (Sn) and tungsten (W) derived from ores which have been mined in the Democratic Republic of the Congo or adjoining countries.
<b>Personnel Awareness</b>	<p>Top management procedure shall ensure that personnel are aware of:</p> <ul style="list-style-type: none"> <li>- their contribution to product or service conformity;</li> <li>- their contribution to product safety;</li> <li>- the importance of ethical behavior.</li> </ul>
<b>Supplier Performance</b>	<p>Suppliers are expected to produce products and services ON TIME with ZERO defects.</p> <p>Dynomax will monitor supplier performance metrics and may require Corrective Action from the supplier when warranted. Supplier Quality and Delivery performance will be communicated to the supplier when necessary. Some suppliers may receive monthly, quarterly or yearly performance data.</p>



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<b>Nonconforming Material</b>	<p>Supplier shall have a system which positively controls and identifies non-conforming material including procedures for segregation, and disposition. Positive identification to prevent use, co-mingling, and shipment with compliant material is required.</p> <p>Non-conforming materials are those which are not in conformance with the requirements of the Purchase Order, DYNOMAX INC drawings, specifications, and industry standards referenced therein, or that cannot be corrected through continuation of the original manufacturing process. Non-conforming material shall not be submitted to DYNOMAX INC without prior written approval from DYNOMAX INC Quality Representatives. Submittals shall include supplier-recommended disposition(s) with sufficient technical justification.</p> <p>Any escapes of non-conforming material are to be reported to DYNOMAX INC within 24 hours of discovery of the occurrence. Such notification shall include description of the non-conformance, part numbers affected, quantity, and date of shipment.</p>
<b>Specifications / Changes</b>	<p>The supplier shall have a system that provides the applicable (the latest, unless otherwise specified) drawings, specifications, instructions, procedures, and authorized changes or deviations required to process the contract or purchase order at the point of use for fabrication, inspection, and testing.</p> <p>Copies of DYNOMAX INC'S documents and Customer documents may not be reproduced except for processing of this order for internal use. Such proprietary items shall also be controlled so they are only used for work with DYNOMAX INC products.</p>
<b>Design and/or Process and/or Material Changes</b>	The supplier shall not implement any changes to products, processes, or materials which will affect or are controlled by DYNOMAX INC drawings and/or specifications without written approval from DYNOMAX INC. Approval must be from the DYNOMAX INC Quality Manager or their designated representative and such approval shall be in writing.
<b>Record Retention</b>	The supplier shall maintain all records supporting items shipped against this PO for a period of no less than (10) years from date of shipment to DYNOMAX INC. Examples of the appropriate records are as follows but are not limited to, inspection documentation, Process documentation, operator, equipment, material traceability, training records, etc. NOTE: Dynomax customers may have longer record retention requirements. This will be called out in the Purchase Order document.
<b>Flow Down Requirements</b>	The supplier shall insure that requirements specified for this order are flowed down to sub-tier suppliers, including key characteristics where required.
<b>Traceability</b>	The supplier shall maintain internal traceability from final assembly or product down to the raw material lot or heat information. If serialization is required in the Purchase Order, serialization shall be applied and or maintained as traceable in every step of the process. The supplier shall be able to provide such traceability within a reasonable time frame if requested by DYNOMAX INC.
<b>Training / Certifications</b>	Supplier is responsible for training all personnel whose job function may affect product quality. Training records shall be maintained as quality records and shall include appropriate education and work experience, and shall also include certifications for personnel performing "special processes" such as heat treating, plating, welding, soldering, and NDT testing.
<b>Inspection</b>	<p>Supplier shall maintain receiving inspection function to verify that incoming material is not damaged from transit and is correct regarding dimensional form, is identified properly, and is compliant to purchase order and engineering specification requirements. Material shall be properly segregated from items not inspected, and is identified with regards to acceptance / rejection status.</p> <p>Inspections shall be documented as variable data whenever possible and shall include the number of parts inspected, quantity accepted and rejected. Deficiencies and rejections shall be identified with the number and nature of occurrences found in the batch along with their disposition.</p>
<b>Change of Facility or Ownership</b>	The supplier shall notify DYNOMAX INC when manufacturing operations being performed in support of this purchase order are moved to another facility with a separate street and/or city address. Supplier shall also notify DYNOMAX INC if ownership of the supplier has changed.
<b>CONFLICT MINERALS and DODD – FRANK COMPLIANCE</b>	<p>a) The Seller certifies that there are no "Conflict Minerals" present in the product being provided and;</p> <p>b) The Seller shall submit with each shipment made against this purchase order a separate certification that includes (1) a statement that Seller has taken responsible steps to ensure that the product being provided does not contain "Conflict Minerals" and (2) the name of the country of origin from which the minerals were mined and (3) a statement that the materials furnished to Glenair are in conformance with DODD-FRANK FINANCIAL REFORM BILL ACT (SECTION 1502); US LAW 111-203. TITLE XV</p>
<b>Prevention of Counterfeit Parts</b>	<p>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</p> <p>Counterfeit part prevention processes should consider:</p> <ul style="list-style-type: none"> <li>➤ training of appropriate persons in the awareness and prevention of counterfeit parts;</li> <li>➤ application of a parts obsolescence monitoring program;</li> <li>➤ controls for acquiring externally provided product from original or authorized manufacturers, authorized distributors, or other approved sources;</li> <li>➤ requirements for assuring traceability of parts and components to their original or authorized manufacturers;</li> <li>➤ verification and test methodologies to detect counterfeit parts;</li> <li>➤ monitoring of counterfeit parts reporting from external sources;</li> <li>➤ quarantine and reporting of suspect or detected counterfeit parts.</li> </ul>



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<b>PUR-001-F4</b>	

**The following are Purchase Order CLAUSE CODES that can be applied to specific Purchase Orders. When applied to an order the specific requirement must be met for that order:**

Code No.	PO Clause Code Name	PO Clause Code Requirement Details
01	Product Verification System	For product verification the supplier shall have implemented as a minimum, an inspection system meeting the requirements of MIL-I-45208 or equivalent. When required, the supplier shall be prepared to demonstrate the system through 1) submission of quality manual and supporting documentation; 2) responding to questionnaires; and 3) on-site surveys and audits by DYNOMAX INC representatives, etc. • <b>Note:</b> Suppliers are encouraged to utilize <u>Statistical Process Controls (SPC)</u> and other proactive and preventative control methods wherever possible.
02	Quality Management System	The Supplier shall have implemented a Quality Management system that is acceptable to DYNOMAX INC. A recognized industry standard would be considered a preferred guideline such as AS9100, ISO9001, MIL-I-45208, MIL-Q-9858, etc. If no system exists, the Supplier may be subjected to periodic audit surveillance to verify conformance to DYNOMAX INC requirements and standards. Once approved, the system must be maintained to assure future compliance to product and process specification related to DYNOMAX INC products and requirements. Changes in the Quality System shall be brought to the attention of DYNOMAX INC and approved in writing by the designated Quality Representative.
03	First Article Inspection	The Supplier shall perform a First Article Inspection (FAI) on the first piece from the production run for DYNOMAX INC acceptance. The FAI shall be performed and documented per the requirements of SAE AS9102, latest revision in effect at time of order placement. A copy of the FAI report shall be submitted to DYNOMAX INC with the shipment. If discrepancies are noted during the FAI, the supplier shall promptly notify the DYNOMAX INC Buyer/Planner for directions.
04	Raw Material Test Reports or Certifications (Basic cert requirement)	For raw materials utilized to fabricate DYNOMAX INC parts, the supplier shall provide <u>either</u> 1) raw material test reports containing detailed physical and chemical analysis and data; <u>or</u> 2) evidence of conformance (raw material Certificate of Conformance) to <u>recognized specifications</u> (ASTM, Mil-Spec, etc.). The country of "Melt" and / or the country of "Origin" must be identified in the supplied documentation for all metallic raw materials.
05	Raw Material Test Reports or Certifications (Mill Certs and additional requirements)	Raw material test reports containing test results of mechanical properties and chemical analysis are required with each shipment. Documentation supplied must also include a copy of the Mill / Manufacturer certification and test report with each shipment. The documentation shall include heat number, batch number, material type and specifications followed (ASTM, Mil-Spec, etc.). The report must also contain a signature and title of the authorized representative for the facility performing the testing. For all Metallic raw materials, the country of "Melt" and / or the country of "Origin" must be identified in the supplied documentation.
06	Use of Special Processors	The supplier shall ensure that special processes (including finishing, plating, passivation, heat treating, welding, NDT, etc.) as defined by NADCAP and AS 9100 were performed in accordance with military or industry specifications as listed in the fabrication drawing or purchase order. Suppliers are encouraged to utilize NADCAP approved special processors and shall ensure that the quality system documentation defines the following considerations for special processes: definition of criteria for the review and approval of the processes; determination of conditions to maintain the approval; approval of facilities and equipment; qualification of persons; use of specific methods and procedures for implementation and monitoring the processes and requirements for documented information to be retained.
07	Test Data	The supplier shall provide test data with the subject item(s). Such test data shall include individual or summary parameter measurements as appropriate.
08	Inspection Sampling	All characteristics shall be verified 100%. If a sampling plan is employed, the plan shall be approved in writing by DYNOMAX INC prior to processing this order.
09	Material Review	The Supplier is not given authority to perform material review. Non-conforming material discovered in-process prior to shipment to DYNOMAX INC shall not be re-worked without written approval from DYNOMAX INC Quality representatives.
11	Government Source Inspection	Government inspection is required prior to shipment from supplier's facility. Upon receipt of purchase order, the supplier shall notify the government representative(s) who normally service the supplier's facility, for coordination and scheduling of inspection(s)
12	DYNOMAX INC Source Inspection	DYNOMAX INC inspection is required prior to shipment from supplier's facility. DYNOMAX INC shall be notified a minimum of 7 Days prior to intended shipment when items are ready for DYNOMAX INC source inspection. To schedule, FAX request to (847) 680-8838 or call (847) 680-8833. In either case, please provide 1) the DYNOMAX INC purchase order number; 2) the DYNOMAX INC part number(s); 3) the quantity of each part number; and 4) the date(s) source inspection is being requested for.
13	Soldering Workmanship	Soldering workmanship shall be in accordance with the requirements of IPC/EIA J-STD-001, Class 3.
14	Solderability	Component leads, terminations, lugs, terminals, and wires shall be capable of meeting the Solderability requirements of IPC/EIA J-STD-002. Printed wiring boards shall be capable of meeting the Solderability requirements of IPC/EIA J-STD-003.
15	Limited-Life Materials	Limited-Life materials shall be identified by both 1) the date at which the useful life has begun [date of manufacture]; and 2) the date the useful life will be expended [expiration date]. In addition, appropriate environmental conditions for storage and usage shall be clearly labeled on the item(s) as applicable. Material(s) with less than 75% of the useful life remaining shall not be accepted upon receipt at DYNOMAX INC without written approval from DYNOMAX INC in the form of a Supplier Deviation Request.
16	Plating / Finishing Certifications and Data	The supplier shall furnish a certification of plating / finish thickness measurements for all layers of plating / finishes supplied. All plating / finishing certifications shall reference the applicable plating / finish specification followed to process DYNOMAX INC product.



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<b>PUR-001-F4</b>	

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17	Mercury Exclusion	Products furnished under this purchase order shall contain no metallic mercury or mercury compounds and shall be free of mercury contamination. The supplier shall furnish a signed statement of conformance to this requirement. The statement can be included within the supplier's standard Certification of Conformance (C of C) submitted.
18	Spare and Replacement Parts	For items not fabricated to DYNOMAX INC drawings and specifications (for example, off-the-shelf and/or supplier part number), the supplier shall document spare and replacement parts or assemblies and supply sufficient data and /or information for ordering spares and replacements.
19	Dock-to-Stock, Certified Supplier	Parts received from the supplier shall be routed directly to DYNOMAX INC's inventory or work in process area without DYNOMAX INC incoming or source inspection. Dock-to-stock status must be attained prior to being granted this inspection waiver. Certified status granted to suppliers will be based on having an exceptional quality and delivery performance record according to criteria specified in the DYNOMAX INC Certified Supplier Program.
20	Raw Material Test Reports, Maintain on-File	For raw materials utilized to fabricate DYNOMAX INC parts, the supplier shall maintain on file, raw material test reports containing detailed physical and chemical analysis and data. Such reports shall be available to DYNOMAX INC if requested.
21	Use of NADCAP-Approved Special Processors	The supplier must utilize NADCAP approved special processors as listed in the Purchase Order documentation, applicable Engineering Drawings and referenced specifications or on the most current revision of the DYNOMAX INC Approved Supplier List (ASL) to perform special processes (heat treatment, plating, and finishing being the most common). Suppliers are encouraged to recommend additional NADCAP-approved special processors to DYNOMAX INC for possible addition to the DYNOMAX INC Approved Supplier List (ASL) due to cost, quality, or delivery reasons. In such instances, please contact DYNOMAX INC Purchasing in advance so DYNOMAX INC can contact the special processor candidate and perform a simple qualification process.
22	Statement of Work applies to the fulfillment of this order	DYNOMAX INC has submitted supplementary documents(s) including but not limited to: "Statement of Work" (SOW) and/or Process Drawings, with this purchase order / contract. This document indicates special processes, test requirements, and / or Key Characteristics not included in other documentation in the purchase process. Adherence to this document is required. This document should be treated as any Engineering document / specification would be controlled in the Supplier's document control and order review Processes.
23	Special DYNOMAX Customer Requirements Apply	The Supplier is required to meet the requirements defined in DYNOMAX INC's customer supplied document. The subject document should be included with the purchase order and / or engineering drawings. If it is not, notify purchasing immediately and prior to any processing of material for the subject purchase order.
24	Packaging Requirements	The Supplier is requested to package product for return shipment to DYNOMAX INC after processing, in like methods and materials as used when product was shipped from DYNOMAX INC to the Supplier.