

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2026-493
Item to be Scouted	EM7 Housing
Days to be scouted	25
Response Due By	10/05/2026
Description	Hamilton Medical is seeking a U.S.-based supplier for the EM7 Housing, a visible aluminium enclosure used in a medical ventilator. The component is manufactured from a complex hollow extrusion profile in EN AW-6060 T6.

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	Day 1 Scouting and protective packaging. The preferred supplier should perform aluminium extrusion and CNC machining in its own U.S. facilities; qualified subcontractors may be used for special finishing processes. Expected annual demand ranges from approximately 500 to 5,000 units. ISO 9001 certification, full traceability and experience with medical or similarly regulated products are preferred. Production of a complex hollow aluminium extrusion profile from EN AW-6060 T6.
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Needs: 1. Cutting of the extrusion profile to the required length, including heat treatment, straightening and dimensional stabilization as required. 2. Precision CNC machining of large openings, mounting features, holes, threads and defined contact surfaces. The supplier must apply an appropriate clamping and machining concept to control distortion of the thin-walled profile. 3. Complete deburring and removal of sharp edges without damaging the cosmetic surfaces. 4. Mechanical surface preparation to achieve a uniform matte/brushed E6 appearance. 5. Decorative grey anodizing, approximately C34–C35 / space-grey appearance, with a specified coating thickness of $20 \pm 3 \mu\text{m}$. 6. Selective laser removal of the anodized layer in defined grounding and electrical contact areas. 7. Final dimensional and cosmetic inspection, cleaning, preservation and protective packaging. Aluminium extrusion and CNC machining should preferably be performed in the supplier's own U.S. facilities. Qualified subcontractors may be used for anodizing, mechanical surface preparation or laser processing, provided that the complete supply chain is disclosed and controlled by the prime supplier.
Provide dimensions / size / tolerances / performance specifications for the item	Approximate overall dimensions: $245.4 \times 115 \times 108\text{--}115 \text{ mm}$ Approximate finished weight: 0.576 kg Approximate required circumscribed extrusion circle: 160 mm / 6.2 inches Construction: complex, thin-walled hollow extrusion with large CNC-machined openings Surface finish: uniform matte/brushed E6 appearance Colour: decorative grey / space-grey, approximately C34–C35 Anodized coating thickness: $20 \pm 3 \mu\text{m}$ Selected machined surfaces require $Ra 1.6 \mu\text{m}$ where specified Defined grounding and contact areas must be free of the anodized layer High cosmetic requirements apply because the component is externally visible Scratches, dents, stains, colour variations, machining marks and handling damage are not acceptable outside the defined acceptance criteria All detailed dimensions, GD&T requirements, threads, surface specifications and inspection characteristics are defined in the applicable technical drawings and specifications, which can be provided to suitable suppliers under the appropriate confidentiality arrangements.

List required materials needed to make the product, including materials of product components	Base material: aluminium alloy EN AW-6060 T6 Material substitutions are not permitted without prior written technical approval Decorative grey anodized surface layer with a nominal thickness of $20 \pm 3 \mu\text{m}$ Suitable anodizing dyes, sealing chemicals and process materials must comply with the applicable material and substance requirements No additional assembled product components are currently included; the housing is supplied as a finished, machined and surface-treated component Packaging materials must be clean, non-abrasive and suitable for protecting cosmetic aluminium surfaces
Are there applicable certification requirements?	Yes
Certification(s) required	ISO 13485 ,ISO 9001
Are there applicable regulations?	Yes
Details	The component will be used in a regulated medical device. The supplier must support Hamilton Medical's applicable medical-device quality and regulatory obligations. This includes documented traceability, change notification, nonconformance management, CAPA support and control of subcontracted processes. Applicable substance and environmental compliance requirements include RoHS and REACH, where relevant. The supplier must provide the required material declarations and compliance documentation. Product-level FDA clearance or registration is not required from the component supplier.
Are there any other standards, requirements, etc.?	Yes
Details	Full material and batch traceability from aluminium billet through extrusion, heat treatment, CNC machining, surface treatment and final delivery Certificate of Conformity and applicable material certificates First Article Inspection and dimensional inspection report Documented control plan and inspection concept for critical and cosmetic characteristics Defined change-notification and approval process before changes to materials, production sites, equipment, tooling, processes or subcontractors Documented nonconformance, corrective-action and CAPA processes Process control for decorative colour, gloss, surface texture and anodized coating thickness Verification of selective laser removal and electrical contact areas Controlled handling, cleaning and packaging of cosmetic surfaces Disclosure of all manufacturing locations and subcontractors Business-continuity and capacity planning for the required annual volumes

Additional Technical Comments	Hamilton Medical is primarily seeking a U.S.-based prime supplier capable of managing the complete component. Aluminium extrusion and CNC machining are considered the core manufacturing processes and should be performed in the supplier's own U.S. facilities. External partners may be used for qualified special processes such as anodizing or laser treatment. The sourcing process will follow a staged approach. Potential suppliers will first be assessed through a non-binding Request for Information (RFI), covering technical capability, manufacturing locations, quality systems, capacity and commercial interest. Suppliers meeting the key requirements may subsequently be invited to a formal Request for Quotation (RFQ). Remark on certifications: ISO 9001:2015 certification is expected as the minimum quality-management basis ISO 13485 certification is preferred but is not mandatory for the initial supplier search The project is intended to establish a qualified local U.S. supply chain for the EM7 Housing. The selected supplier will be expected to assume responsibility for the complete finished component and for the control of any approved subcontractors. This supplier search is currently a non-binding prequalification activity. Participation does not guarantee nomination or business award. Suitable suppliers will receive further technical documentation and may be invited to complete an RFI. Suppliers successfully passing the technical, quality, capacity and commercial assessment may subsequently participate in the RFQ phase. Attached are the component profile for the EM7 Housing and the RFI questionnaire.
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Section 4: Business Information

Estimated potential business volume	The estimated annual demand ranges from approximately 500 to 5,000 finished housings per year. Volume scenarios will be evaluated in increments of approximately 500 units. The corresponding annual monetary business volume will depend on the supplier's quotation and has not yet been determined.
Estimated target price / unit cost information (if unavailable explain)	A validated target price is not currently available. One purpose of the market assessment and subsequent RFQ is to establish competitive U.S. market pricing for the complete manufacturing scope. Selected suppliers will be requested to provide transparent pricing, including tooling, extrusion, CNC machining, surface treatment, laser processing, inspection, packaging and any applicable minimum-order or batch-related costs.
When is it needed by?	Initial supplier identification and capability assessment are required during September and early October. The detailed timing for quotation, prototypes, qualification and serial production will be communicated to selected suppliers following the RFI. The final implementation schedule has not yet been defined.

Describe packaging requirements	Each housing must be protected against scratches, dents, abrasion, contamination, moisture and contact damage during storage and transportation. Cosmetic surfaces must not come into direct contact with each other. Packaging should include: Individual protective wrapping or suitable non-abrasive separators Clean and dry packaging materials that do not leave particles or residues Protection of machined, anodized and laser-treated surfaces Secure positioning of the components within the shipping container Packaging suitable for the agreed shipment quantities and transportation method Identification of part number, revision, quantity, production batch/lot and supplier Final packaging concept to be agreed with Hamilton Medical before serial supply
Where will this item be shipped?	Hamilton Medical, Inc., Reno, Nevada, USA. The exact ship-to address, Incoterms and delivery conditions will be communicated during the RFQ or contracting phase.

Additional Comments

Is there other information you would like to include?	
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