

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-092
Item to be Scouted	Heavy-Duty Metal Frame Fabrication
Days to be scouted	27
Description	<p>The frames require precise fabrication, including laser cutting, welding with a Bluco Weld System, and CNC machining. Specifications include overall dimensions of 30.748" x 112.343" x 252.953", with high-definition plasma/laser requirements and specific bending capabilities.</p> <p>Any companies who fit the bill and are interested and are willing to sign an NDA to view the prints, please reach out to me in real time.</p>
State item to be used in	Illinois

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	Re-shore
Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>Machining - Need approximate 7 Meter X Axis X 4 Meter Y Axis and 1M Z Axis.</p> <p>Cutting: The frame components would be cut to size using high definition plasma or laser cutting techniques to achieve precise dimensions.</p> <p>Welding: The fabrication process would utilize a Bluco Weld System, incorporating various features such as Bluco hole locations for sub-assembly and assembly purposes. Custom fixtures may be manufactured to aid in the welding process.</p> <p>Assembly: The frame would be assembled by welding together the individual components, including side panels. Side walls may be constructed separately on one fixture and then located on a second fixture standing upright, ensuring precision alignment through precision holes or slots to join all components.</p> <p>Finishing: Once assembled, the frame may undergo finishing processes as necessary, such as grinding or polishing, to achieve the desired surface quality.</p> <p>Bending Capability (in House or Sourced) Radius all Bent Parts 0.355 Material Thickness all Bent Parts 0.25 Bend Length (1) Part 104.13 Long</p>
Provide dimensions / size / tolerances / performance specifications for the item	<p>Frame Size Overall Dimensions = 30.748" X 112.343" X 252.953" High Definition Plasma / Laser Requirements: MAX Side Panel Length = .50 X 23.93 X 250.354 - sizes reduce thereafter = .50 X 23.93 X 250.354 Fabrication = Bluco Weld System (desired) - various features of parts incorporate Bluco hole location for sub-assembly & assembly purposes Custom Fixture can be manufactured. Side Walls are constructed separately on one fixture Side walls located on 2nd fixture standing upright & located on precision holes/slot to adjoin all components</p> <p>Top Rail Requirements (Helical Gear Racks & Linear Guide Rails) Machined Surface Finish 62 Machining length of top rails are over approx. 254" long for applied tolerances in below screen shots</p>

List required materials needed to make the product, including materials of product components	Bending Capability (in House or Sourced) Radius all Bent Parts 0.355 Material Thickness all Bent Parts 0.25 Bend Length (1) Part 104.13 Long. Type of metal is to be used is 1018 / 1026 / A36 Low Carbon Steel
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	A company who owns Bystronic equipment.
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	30 units annually, needing approximately 2 - 3 per month for a minimum of 3 years
Estimated target price / unit cost information (if unavailable explain)	approximately \$18k
When is it needed by?	April 30th, 2024
Describe packaging requirements	Preferred transportation method is open, flatbed (1-2) unites per load fit. Wrapped in plastic
Where will this item be shipped?	Illinois

Additional Comments

Is there other information you would like to include?	
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