

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: 100kg & 250kg Stackable Cylinder Weight

State item to be used in: Michigan

Describe the Item:

Please describe the item application/the end use of item. 1ea 100kg Stackable Cylinder Weight to OIML R 111-1 Class F1 specification 1ea 250kg Stackable Cylinder Weight to OIML R 111-1 Class F1 specification

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

Other (please specify) Buy America (New Product Startup)

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible). Machine Austenitic stainless steel to shape and mass specified in the drawing Fabricate a Hardwood shipping and storage case for each weight

Provide dimensions / size / tolerances / performance specifications of the item. The 100kg Stackable Cylinder Weight shall be 100kg +/- 500 mg The 250kg Stackable Cylinder Weight shall be 100kg +/- 1250 mg

List required materials needed to make the product, including materials of product components, if applicable. Austenitic stainless steel for the Stackable Cylinder Weigh with the following specifications: 1. Density between 7.39 to 8.73 kg per cubic meter 2. Maximum Magnetic susceptibility less than 0.2 3. Magnetization, M, expressed in terms of the polarization should not exceed 25 uT 4. Surface roughness of Rz less than 1um Hardwood and wood fasteners/glue for the shipping and storage case

Are there applicable certification requirements?

Yes

No

Please Explain:

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain:

Are there any other standards, requirements?

Yes

No

Please Explain: Needs to comply with OIML R 111-1 Class F1 **definition is findable via search engine** Each weight needs a calibration from an DIN EN ISO/IEC 17025 accredited laboratory, NIST, or PTB with measurement uncertainty, U for k = 2 is < 1/3 of max. permissible error

Additional Comments:

Additional technical comments:

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 1 unit at 100kg and 1 unit at 250kg

Estimated Target Price / Unit Cost Information: \$11000 for the 100kg Stackable Cylinder Weight \$16000 for the 250kg Stackable Cylinder Weight

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) 90 days after receipt of order

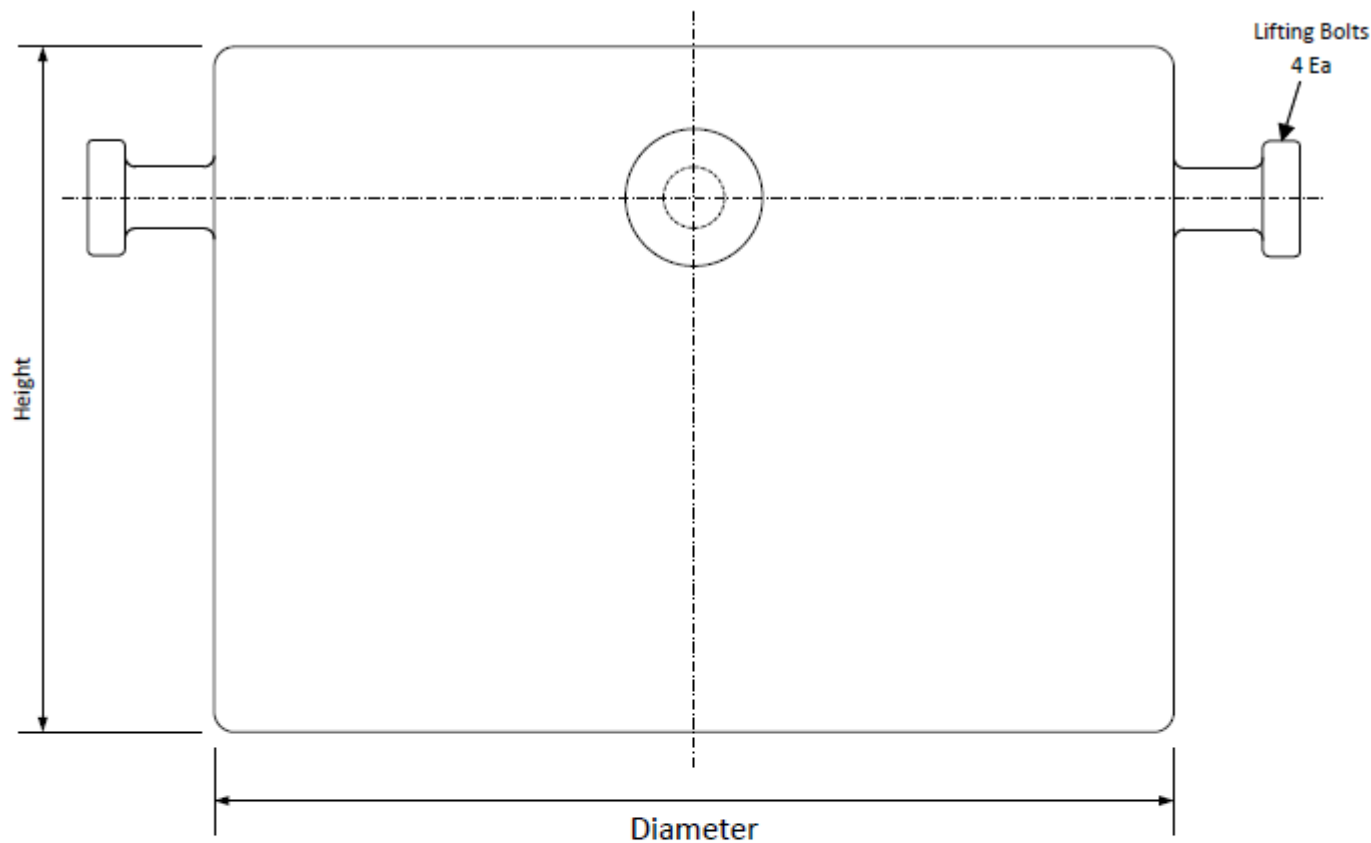
Describe packaging requirements (i.e., individually/ group packaging). Hardwood transport and storage case, with forklift capability

Where will this item be shipped? Ann Arbor, MI

Additional Comments:

Is there other information you would like to include? Specifications are in accordance with the Mass Drawing.pdf

Stackable Cylinder Weight
(Not to scale)



Nominal value	max. permissible error	Diameter	Height
100 kg	+/- 500 mg	270 mm	240 mm
250 kg	+/- 1250 mg	450 mm	Not Specified

Specifications:	OIML R 111-1 Class F1
Design:	Solid cylindrical weight with 4 lifting bolts on the side, stackable, with adjusting cavity, lifting is possible by crane
Material:	Austenitic stainless steel
Magnetic susceptibility:	Maximum susceptibility less than 0.2
Surface roughness:	R _z < 1 µm
Storage and transport:	Hardwood transport and storage case, with forklift capability
Calibration:	From an DIN EN ISO/IEC 17025 accredited laboratory, NIST, or PTB with measurement uncertainty, U for k = 2 is < 1/3 of max. permissible error