



Quotation No.: 53327 - 1

Date: December 14, 2011
Inquiry: MBARI 6k Hemispheres

To: MARK GREISE

From: MICHAEL WILCOX
SENIOR TECHNICAL INSIDE SALES, CASTINGS

MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

WAH CHANG ALBANY LOCATION
1600 OLD SALEM RD
ALBANY 97321

Phone: 805 886-4412
Fax:
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Phone: 541-812-7241
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email: mike.wilcox@atimetals.com

1. Ti64 Top Hemisphere 6K Seperical Housing			
Drawing Number: 1001102DWG			
Quantity	Est. Weight	Price	Total Price
1.00 EACH	54.00 LBS	\$5,825.00 / EACH	\$5,825.00
2. New Pattern Construction for Line # 1			
Quantity	Est. Weight	Price	Total Price
1.00 EACH	0.00 LBS	\$8,410.00 / EACH	\$8,410.00
3. Ti64 Bottom Hemisphere 6K Seperical Housing			
Drawing Number: 1001101DWG			
Quantity	Est. Weight	Price	Total Price
1.00 EACH	57.00 LBS	\$5,925.00 / EACH	\$5,925.00
4. New Pattern Construction for Line # 3			
Quantity	Est. Weight	Price	Total Price
1.00 EACH	0.00 LBS	\$8,420.00 / EACH	\$8,420.00
Grand Total:			\$28,580.00

Terms and Conditions

Quote Valid Until: January 13, 2012
Freight Terms: FOB-COLLECT
Delivery Point: ALBANY, OR
Freight Carrier:
Payment Terms: NET 30 DAYS

Letter of Credit Comments:

ATI Wah Chang terms and conditions apply, unless otherwise agreed upon. ATI Wah Chang quotation number must appear on all purchase orders and correspondence. All transactions are conducted in USD.

The terms stated in this proposal are firm for the period indicated and are intended to facilitate negotiations. The proposal is not a memorandum of agreement or an offer to enter into an agreement. Such an offer can only be made after review of and mutual agreement on all product specifications and commercial terms and conditions. No mutual obligation or liability will be incurred until ATI Wah Chang issues a written order acknowledgment.

These commodities are subject to control by the U.S. Government. They may not be exported from the United States without U.S. Government authorization. **A signed end-user statement on company letterhead or on purchase order is required at the time of order placement. The end-user statement may be faxed to expedite production of order, but original statement must be received prior to shipment.

Pricing is based on all items purchased, unless otherwise noted. All items are subject to prior sale. Lead-times will be confirmed at order approval.

1) Drawings & Dimensions:

Class III: ATI Wah Chang will provide the pattern equipment and insure that the resulting castings will meet the dimensional tolerances of the applicable casting drawing providing the casting tolerances of the customer supplied casting drawing fall within the dimensional control criteria of OMC 105 Para. 4. A first article dimensional casting layout will be performed on castings produced from this equipment. Upon request, the dimensional report will be available for customer review.

Subsequent to 1st Article castings. All casting dimensions will be the product of the pattern supplied. No dimensional inspection of pattern or castings is included. Customer supplied patterns may require mounting or repair prior to use for rammed graphite mold production. If so, ATI Wah Chang will provide a quotation and lead-time upon receipt of the patterns.

ATI Wah Chang's quotation is based on the OMC 105 Class as stated above. It is your responsibility to review these guidelines and order according to your requirements. Changes to requirements will result in an amended quotation.

2) Specifications:

OMC 105 REV L Grade C5 Titanium - Class III Pattern - Inspection per Para. 9.1



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ASTM B367-09 Grade C5 Titanium

Parts to also receive 100% Liquid Penetrant and Radiographic Examination per an approved ATI Wah Chang procedure.

Weight discrepancies in excess of 5% of the customer given or estimated weight will be charged to the customer at the actual weight plus shipping weight cost. ATI Wah Chang cannot enter any purchase order until all applicable process specifications have been approved. All applicable specifications and drawings are required to be sent with all new purchase orders. If a revised Purchase Order involves changes to any specifications or drawings, new pertaining documents are required with the revised Purchase Order.

3) Shipping:

Ownership of FOB-Collect orders transfers to the buyer upon pick up by the shipping carrier. Shipments will not be insured unless ordered in the Purchase Order. Without insurance, buyer will be responsible for filing the claim with the shipping carrier and for full payment of the ATI Wah Chang invoice if the carrier loses the shipment.

4) Cancellations:

If the order is cancelled after the casting(s) are poured, the cancellation charge will be the full value of the quoted casting cost. If an order is cancelled prior to the casting(s) being poured, the cancellation cost will be calculated to the point that the order is cancelled.

5) Warranty:

ATI Wah Chang's Warranty and Liability and Indemnity Clauses are attached and will be incorporated into any resulting order taking precedent over any other warranty or indemnity clauses. Note: ATI Wah Chang's receipt of order and subsequent acknowledgment does not constitute acceptance of Purchase Order Terms and Conditions. ATI Wah Chang's Terms and Conditions Dated January 12, 2010, shall apply to any subsequent order.

6) Acknowledgement:

A quotation acknowledgement form has been attached. Review, sign and return the form with purchase order.

IF THE PURCHASE ORDER REFERENCES THE QUOTATION NUMBER, THIS WILL SERVE AS THE QUOTE ACKNOWLEDGEMENT AND THE RETURN OF THE QUOTATION ACKNOWLEDGEMENT FORM IS NOT REQUIRED.

7) Lead-Times:

Lead-times will be confirmed after order placement. Lead-time is subject to adjustment based on work in process at the time of order receipt. Titanium casting shipments may vary from the quoted shipment lead time, depending on the availability of titanium parts to make complete pours.

8) Estimated lead-time(s):

Pattern(s): 4-5 weeks after receipt of order and all necessary data and drawings.

Casting(s):

Shipping 11-12 weeks from receipt of:

- 1) Purchase Order
- 2) End-Use Statement
- 3) Quotation Acknowledgment Form OR Quote referenced on purchase order.
- 4) Usable Pattern
- 5) Current Drawings, Casting & Machining Drawings
- 6) Procedure Approvals
- 7) Acceptance of specification requirements.
- 8) Acceptance of Terms and Conditions by both buyer and ATI Wah Chang.

Best Regards,

Michael Wilcox
Senior Technical Inside Sales, Castings