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 Federal I.D. 94-0849175

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 09/17/2012
 Quotation 1062617

Newport®

Experience | Solutions

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Quotation: 1062617

Customer No: 1005923
Customer Reference No:
Currency: USD
Validity End Date: 11/16/2012
Quotation Date: 09/17/2012
Terms of Payment: NET 30 DAYS
Terms of Delivery: PPA FOB ORIGIN
 Prepaid & Add

Thank you for your inquiry. We are pleased to supply the following quotation.

Line	Item /Description	Unit Base Price (USD)	Unit Net Price (USD)	Quantity	Total Amount (USD)
100	11SI71243 5 axis motion system	75,460.00	75,460.00	1	75,460.00

5 axis motion system

Standard Items:

- (1) MTM200PE1V6 -- [aka X] Long-travel steel linear stage; Ball bearing guideway; Full-step motor; 10:1 Gear Reducer; Backlash-compensated lead screw drive; Shaft-mounted 2000 pts/rev. optical rotary encoder with index; 200mm travel; 1µm resolution; 1.5µm guar. uni-directional repeatability; 1.5µm guar. reversal value, 5.0µm guar. on-axis accuracy, 40µrad pitch, 55µrad yaw, 1mm/sec max speed, 4mm/sec² max acceleration
- (1) MTM100PE1V6 -- [aka Y] Long-travel steel linear stage; Ball bearing guideway; Full-step motor; 10:1 Gear Reducer; Backlash-compensated lead screw drive; Shaft-mounted 2000 pts/rev. optical rotary encoder with index; 100mm travel; 1µm resolution; 1.5µm guar. uni-directional repeatability; 1.5µm guar. reversal value, 5.0µm guar. on-axis accuracy, 40µrad pitch, 35µrad yaw, 1mm/sec max speed, 4mm/sec² max acceleration
- (1) URS75BPPV6 -- [aka rZ] Precision rotation stage, Vacuum version, Hardened steel with aluminum body, Large diameter ball bearing movement, Ground worm gear with self-compensating leadscrew, 1:90 worm gear ratio, Step motor drive, 0.0002° resolution (1/100 full step), 0.004° uni-directional repeatability, 0.014° bi-directional repeatability, 0.03° absolute accuracy, 50µrad wobble, 3µm eccentricity, 20°/sec max speed, 80°/sec² max acceleration, travel range 360° continuous, 150N centered load capacity, 3m interconnect cable, 1.7kg stage weight
- (1) XPS-C6 -- 6-axis motion controller, Ethernet communication, rack mount, internal interpolation of analog encoder signals
- (5) XPS-DRV01 -- Drive module for DC brush and stepper motors; 3A/48V max.

Special Items:

- (1) Custom BGS80PP-V6 -- [aka rX] [11SI12870] Custom BGS80PP-V6 goniometric cradle, compatible with 10e-6 torr vacuum, ±45° travel, 0.0001° resolution, 0.001° uni-directional repeatability, 0.0002° minimum incremental motion, 0.06° accuracy, 200µrad wobble, 2.5°/s maximum speed, includes 3m interconnect cable (for atmospheric use only)
- (1) Custom URS150BPP-V6 -- [aka rY] [08SI20434] Custom URS150BPP-V6 rotation stage, Large diameter ball bearing movement, Ground worm gear with self-compensating lead screw, 1:90 worm gear ratio, Step motor drive, 0.0005° resolution, 0.002° uni-directional repeatability, 0.03° absolute accuracy, 50µrad wobble, 3µm eccentricity, 20°/sec max speed, travel range ±170° (360° with limits disabled), 100N centered load capacity, 3m interconnect cable (for atmospheric use only)
- (1) EQ160-LV6 -- Right angle bracket for MTM100 stage, vacuum compatible
- (1) Custom Angle Bracket -- Custom angle bracket to support rotation stages on vertical stage, vacuum compatible
- (1) Custom Adapter Plate -- Custom adapter plate to mount URS75 to BGM120; vacuum compatible
- (1) Custom Adapter Angle Bracket - Custom bracket to support URS50 on URS75 stage, vacuum compatible

Application Notes:

- Payload: Crystal (mounted on a 50mm diameter wheel in the center of the system)
- Travel Ranges: X(150mm), Z(25mm), rX(10°), rZ(10°), rY(±170°)
- English hardware convention
- Horizontal base orientation
- For use in laboratory environment/vacuum chamber
- The stages that comprise the system as well as other components are calibrated in an air controlled environment of 20±2.5°C.
- The stages and components are manufactured with a useable operating range of +10 to +35°C.

System Notes:

- [X] as base stage; [Y] mounted on [X] via EQ160-LV6; [rX] mounted on [Y] via custom angle bracket; [rY] mounted on [rX] via custom adapter plate; [rZ] mounted on [rY] via custom adapter angle bracket
- <100 µrad XY orthogonality



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Testing Notes:

All measurements will be done using certified measuring instruments. These instruments are used for the 5 axis assembly and for the acceptance procedures.

The Newport acceptance of the complete system will be done during factory acceptance.

Factory acceptance will take place in Newport-Irvine assembly factory and consists of:

- Demonstration and operation of each axis over specified travel range using XPS controller
- Verification of dynamic capability: velocity and acceleration

Summary of Deliverables:

- (1) 5 axis mechanical system
- (1) Motion Controller model: XPS configured for use with 5 axis mechanical assembly

Proposed Schedule:

- Reception of order by Newport: T0
- Design sent to customer for approval: T1 = T0 + 2 weeks
- Date customer approval received: T2
- Shipment from Irvine: T2+ 12 weeks
- Minimum Total Leadtime: 14 weeks
- Maximum Total Leadtime: Customer approval time + 14 weeks

LEADTIME: 14 WEEKS ARO.

Item Total					USD 75,460.00
Gross Value					75,460.00
Net Value					75,460.00
Total amount:					USD 75,460.00

The purchase and sale of the products reflected in this quotation shall be governed by the terms and conditions contained on the face of this quotation and in the Newport Corporation Terms and Conditions of Sale attached hereto and incorporated herein by reference.

Unless otherwise stated herein, shipping and handling charges are not included in the price. Any quoted shipping and handling charges are estimates only. Upon request, Newport can provide experienced references for these services.

Prices quoted are domestic prices for shipments within the U.S.A. only. Products destined for export are subject to international pricing. If customer intends to export products, customer must notify Newport and obtain a revised quotation. All product warranties may be voided at Newport's discretion if products are re-exported outside of the U.S.A without Newport's express written approval.

The terms of payment stated above are subject to credit approval. Availability of product included in this quote is subject to prior sale.

Please reference the quotation number above when placing your order.

For technical questions, please contact:

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