



*Dedicated to the
Science of Motion*

WORLD HEADQUARTERS

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Teradiaon Industrial Zone
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Quotation Number: B33745-06

Date: 24-Jun-2009
Expiration Date: 25-Jul-2009

Contact: Kfir Ben-Yehuda
Title: President
Phone: +972-4-9990151 Ext 102
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Email: kfir@lahat.co.il

Project Name:
Technion 7-axis

Dear Mr. Kfir Ben-Yehuda

Aerotech is pleased to provide the following quotation for motion control equipment for your application.

QUOTE REVISION HISTORY:

-00	24-Sep-08	Original Quotation
-01	24-Sep-08	Changed ATS36240 ballscrew to 50B; Deleted ADRS-100 option; changed ART310 table top to RB310MA; added ENSEMBLE control system option.
-02	3-Oct-08	Reduced quantity ANT-25LXV; priced ATS36240 for 50P; added option for ATS36230; deleted A3200 and ENSEMBLE control options; added EPAQ controller; changed cable part numbers & quantity for reduced number of axes and as needed for EPAQ control system. Added equipment list for Future Expansion to Seven Axes.
-03	11-May-09	Expanded system to seven axes.
-04	30-May-09	Replaced ENSEMBLECPs with ENSEMBLEMPs; TM5s with PS-MPs. Added HW-MPAUX-30 and cable; 19 INCH RACK MOUNT option.
-05	10-Jun-09	Deleted ANT-25LV, AGR-50, ATS36230, and ENSEMBLEMP control system; added ALS36230 and EPAQ control system.
-06	24-Jun-09	Corrected line 1 part number (was erroneously ALS36230...); Delete HALAR and update stage accuracy spec above accordingly; deleted EPAQ and cables; added ENSEMBLECP10 and cables; deleted HW500 and C20932-5; added HWA32-26HD-30. Corrected Software Maintenance prices on line 12 (erroneously calculated on wrong base price).

PRODUCT INFORMATION:

General Information: <http://www.aerotech.com>
Software Downloads: <http://www.aerotech.com/download.html>
Manual Downloads: <http://www.aerotech.com/download.html>
2D/3D Drawings: <http://www.aerotech.com/products/drawings/caddl.cfm>
FAQ: <http://www.aerotech.com/FAQ.html>

SYSTEM SPECIFICATIONS:

All specifications are per axis only:

ALS36230

Resolution: 20nm

Accuracy: **+/-12µm**

Repeatability: **+/-1µm**

Load on Stages:

Load CG:

Min / Max Velocity:

Acceleration:

Move Profile: point to point

Other: none

UNKNOWN - must be disclosed prior to purchase.

SYSTEM COMPONENTS:

ITEM	QTY	PART NUMBER/DESCRIPTION	PRICE	AMOUNT
Mechanical Components				
1	1	ALS36230-5-2LT30AS-NC-ES The ALS3620 is a dual-axis, large aperture, open-frame stage which addresses the unique needs of scanning microscopy, wafer and printed circuit board inspection, and automated assembly. The ALS3600 utilizes high-precision linear motion guide (LMG) bearings, with a total of four trucks per axis, making it ideal for fast, repetitive operations. The LMG bearings also exhibit exceptional stiffness, high load 230: 300 mm x 300 mm (12 in x 12 in) travel stage with linear motors and limit -5: Brushless linear motor (BLMFI-142-A) -2LT30AS: Linear encoder set for model ATS36230. Amplified Sine Output -NC: Normally closed end of travel limit switch -ES: 1/4-20 Mounting holes in table top, and limit switches & hard stops (removable/adjustable) for +/-50mm travel.	\$23,300	\$23,300
Controls, Amplifiers, and Cables				
2	2	ENSEMBLECP10-MXU Ensemble CP Series multi-axis PWM digital controller with USB and Ethernet interface. 5A continuous, 10A peak, 28-240 VAC supply input, and 85-240VAC control supply input for logic. Drives brushless, brush and stepper motor. Includes: - 4 digital inputs, - 2 high speed digital inputs, - 4 digital outputs, - one 16 bit analog differential input; +/-10 VDC - one 16 bit analog single ended output; +/-10 VDC , - one 24VDC, 1 amp brake relay - Single axis PSO capability - 2 quadrature encoder input channels (primary & auxiliary) - Estop sense input - Dedicated Home and Limit Inputs -MXU: Programmable encoder software multiplier up to x256 (x1024 after quadrature). No real-time output	\$1,990	\$3,980

3	1	ENSEMBLE-SOFTWARE-IDE-LAB- 1 YEAR MOTION COMPOSER STANDARD: Includes the Integrated Development Environment, Scope, System Diagnostics, and System Maintenance. Full installation of selected Ensemble software components on a new system. Full part number includes software options listed below. Pricing is summation of selected software products. Maintenance (software update) included in price for one year from date of purchase. - Ensemble Motion Composer is intended for deployment on desktop or industrial PC's with a minimum Intel Pentium 4 processor, 512 MB RAM, Windows® XP or Windows® Vista Business (without SP1 installed). A full list of PC requirements and recommendations is available at www.aerotech.com . Includes the following software options: -MACHINE: Provides the ability to: - Write, compile, execute, debug programs in Aerobasic - Full access to .NET 2.0 and C Library - Access full diagnostics, fault, and status information - Access and set I/O, registers, and variables - Collect, analyze and save data - View files from machine for analysis and record keeping - Connect PC to machine through Ethernet TCP/IP or USB - Upgrades can be installed (firmware or controller) using Loader INCLUDES ENSEMBLE-MC STANDARD -LABVIEW: Includes LABVIEW 8.2 VI samples -1 YEAR: 1 year of software updates	\$200	\$200
4	1	ENET-XOVER-30 3m (9.8 ft) Ethernet cross over cable	\$35	\$35
5	1	ENET-CAT6-3 0.3m (1ft) Shielded Ethernet cable for drive to drive connection	\$30	\$30
6	1	HWA32-26HD-30 Handwheel assembly with 3 meter cable with 26 pin D-Shell connector. NOTE: This connects to J104 connector (Secondary Encoder Channel) on one ENSEMBLECP10-MXU.	\$565	\$565
7	2	C16501-50 Feedback cable, 5.0 meters long -Motor type: Brushless -Motor/stage connector: 25 pin D -Controller/drive rack end: 25 pin D -Maximum cable length: 12 meters -Not rated for continuous flex	\$215	\$430

8	2	C19363-50 Motor power cable, low power, 5.0 meters long -5A continuous current rating, to be used with 10A peak drives -Motor type: Brushless -Motor/stage connector: 4 pin high power D -Amplifier connector: flying leads (with ferrite beads) -Maximum cable length: 45 meters -Not rated for continuous flex	\$215	\$430
9	2	INTEGRATION - TEST AS SYSTEM Document, configure, and test components as a system. Intended for testing of components that are going to be used together in a complete and specific system configuration.	\$200	\$400

ENSEMBLE SYSTEM TOTAL - List Price: \$29,370.00

CE REQUIREMENTS:

While the majority of Aerotech's electronic components are individually rated as "CE Compliant", the following options may be required in order to achieve a system level compliance to European CE standards. Contact your Aerotech Sales Engineer for more information.

10	Optional	-AC LINE FILTER: AC line filter for reducing conducted emissions. Required for CE OPTIONAL CONFIGURABLE FOR NPAQ	\$130
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11	Optional	UFM-ST AC Line Filter Module with screw terminals (required for A3200, Ensemble, Soloist amplifiers CE compliance). Includes MOV's for surge protection. 30A peak/10A RMS. 240VAC input voltage.	\$335
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OPTIONAL SERVICES:

12	Optional	SOFTWARE MAINTENANCE: Extends the period of time a Licensee can receive upgrades (new features and patches). Price is percentage of current list price of the configured License.
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Maintenance purchased while IN warranty or IN maintenance period - use schedule below:

Maintenance for 1 Additional Year	17%	\$169
Maintenance for 2 Additional Year	32%	\$318
Maintenance for 3 Additional Year	47%	\$468
Maintenance for 4 Additional Year	62%	\$617
Maintenance for 5 Additional Year	77%	\$766
Maintenance for 6 Additional Year	92%	\$915

Maintenance purchased while OUT OF warranty or OUT OF maintenance period - use schedule below:

Maintenance for 1 Additional Year	50%	\$498
Maintenance for 2 Additional Year	100%	\$995

13	Optional	SYSTEM DOCUMENTATION - PAPER COPY Printed system interconnect cable drawings	\$120
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14	Optional	SYSTEM STARTUP ASSISTANCE System Start Up Assistance at customer site billed at \$90 per hour travel, \$195 per hour on site plus travel and subsistence.	
15	Optional	TRAINING System and software training is available at Aerotech's facility in Pittsburgh, PA. This is billed on a per person per day basis. Training also available at customer site or online. For more details and pricing, please contact Aerotech's Service Department. http://www.aerotech.com/train.html	
16	Optional	AEROCARE ONE YEAR EXTENDED WARRANTY Extended warranty, adds one year to Aerotech's standard warranty http://www.aerotech.com/warranty.html	\$1,167

Credit terms are established upon placement of order after credit review and approval. A minimum 25% deposit due on first order with new customers. The warranty is in accordance with the terms stated in the Aerotech Warranty and Field Service Policy.

Shipping is FOB Aerotech's plant in Pittsburgh, PA, with freight charges prepaid and added to the invoice unless otherwise negotiated. All prices are in U.S. dollar.

Lead-Time: Estimated shipment is 7 to 8 weeks after approval of system drawings if applicable. For new Engineering Special (ES) systems, production does not begin until customer approval of system drawings has been received. A forecast delivery date will be provided on the order acknowledgement once the system has been scheduled.

Lead-Time Note: The estimated delivery dates listed above are based on Aerotech's existing business conditions at the time of quotation. Changing business conditions, component availability, and timing of order may impact the final delivery date. Please consult your Aerotech representative at time of order for confirmation of estimated lead times.

If you have any questions, please feel free to contact me.

Best regards,



Steve Malone

Applications Engineer
Positioning Systems Division
Aerotech, Inc.

412-968-2823 (phone)
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CC:

Kfir Ben-Yehuda
Lahat Technologies Ltd.

CONDITIONS OF SALE

1. As used here in, the term "order" means the purchase order or other document placing an order for goods, to which the quotation or acknowledgment relates. The term "goods" means the products, materials, or services which are the subject hereof. The terms hereof are a part of the contract for the goods and shall prevail in the event of any conflict between these terms and the terms of the order.
2. All shipment are made FOB / Ex Works carrier at the point shown herein or in accompanying documents. Title and all risks of loss or damage to the goods will pass to the Purchaser upon delivery to carrier.
3. Credit terms are established upon placement of order after credit review. A minimum 25% deposit due on first order with new customers. The warranty is in accordance with the terms stated in the Aerotech Warranty and Field Service Policy. All orders are subject to the approval of Aerotech's credit department.
4. Unless otherwise agreed, we reserve the right to make deliveries of all or part of the goods in advance of the times specified. We agree to use our best efforts to meet the delivery schedule but we shall not be held liable in the event of delays in delivery or failure to deliver when due to conditions beyond our control. In such event our time for performance shall be extended for a period equivalent to the time consumed in eliminating such cause for delay.
5. Aerotech, Inc warrants its products to be free from harmful defects caused by faulty materials or poor workmanship for a minimum of one year from date of shipment from Aerotech. Aerotech's liability is limited to replacing, repairing or issuing credit, at its option, for any products, which are returned by the original purchaser during the warranty period. Aerotech makes no warranty that its products are fit for the use or purpose to which they may be put by the buyer, whether or not Aerotech's products are specifically designed and/or manufactured for buyer's use or purpose. Aerotech's liability on any claim for loss or damage arising out of the sale, resale or use of any of its products shall in no event exceed the selling price of the unit.

THE EXPRESS WARRANTY SET FORTH HEREIN IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE. IN NO EVENT SHALL AEROTECH BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES.

Aerotech's Warranty and Field Service Policy is incorporated herein by reference.

6. To the best of our knowledge and belief, the prices and other terms hereof conform to all applicable government regulations. We reserve the right to modify or withdraw any quotation if any term or provision thereof conflicts with or violates such regulations.
7. Except where otherwise expressly agreed, all patterns, tools, jigs and fixtures required in the performance of the order, notwithstanding any charges, therefore, shall be and remain our property and in our possession and control.
8. All materials or equipment owned or furnished by the Purchaser while in our possession will be carefully handled and stored by us, but we shall not be responsible for accidental loss thereof or damage thereto.
9. Cancellation in whole or in part of the order, or changes therein, can be made only with our consent and upon terms that will indemnify us against loss, and afford us an equitable profit.
10. The Purchaser agrees to pay, or to reimburse us for, any taxes (except Income Tax) levied by any taxing authority upon the goods, or in respect to the production, manufacture, transportation or sale thereof.
11. If the Purchaser becomes insolvent or is in default under the terms of this or any other agreement between the Purchaser and ourselves, we shall be entitled at our option to discontinue further performance of all or part of the order in addition to any and all other rights and remedies provided by law or equity and available to us in such event.
12. Unless otherwise specified all quotations are for immediate acceptance and are subject to prior sale of the goods and to withdrawal without notice. All orders are subject to acceptance by us in writing at our office at Pittsburgh, PA and no order shall be binding upon us unless so accepted.
13. We warrant that any goods comprising one of our regular line of products are delivered free from patent infringement when used for normal purposes. When otherwise used or when goods are manufactured by us to the Purchaser's designs or specifications, we assume no liability for actual or alleged patent infringement and the Purchaser in such event shall hold us harmless from any and all claims, suits, damages or expenses by reason thereof.
14. In the event that the order is a subcontract under a prime Department of Defense contract of the United States Government, the foregoing conditions are hereby modified to include such portions of the Armed Services Procurement Regulations (as amended at the time of acceptance of the order) as are applicable hereto.
15. The foregoing constitutes full statement of all terms and conditions of the order. No additions to our modifications of such terms and conditions shall be binding upon us unless approved in writing by an officer of this company. The acceptance by us of any order shall not constitute our acceptance of any terms of the order which conflict with these Conditions of Sale. The construction of any order or agreement relating hereto shall be governed by the laws of the Commonwealth of Pennsylvania.

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