



# LINEAR INDUSTRIES LTD.

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September 21, 2007

Tim Nelson  
Stanford Linear Accelerator Center  
2575 Sandhill Rd  
Mail stop 69  
Menlo Park, CA 94025  
Phone # 650-926-2274  
Fax #

Quote # **9721755**

Dear Tim,

We have revised your quotation to coincide with the specification you sent me today. The Y axis (line item 1 on quote 9721737) needs to be increased in length 6 inches because with your design you lose 6" of travel with the Y mounted to the X so we quoted an 18" travel for the Y axis (not 12" as before) and we added line item 14 to provide for an "outrigger rail" to the end of the Y axis - without it the deflection will be  $>.008$ ". Overall orthogonality spec. needs to be increased to 300 microradians.

<u>Item</u>	<u>Qty</u>	<u>Part #</u>	<u>Description</u>	<u>Price Each</u>	<u>Extended Price</u>
1	1	174618 - CP0 - 1 - S114 - M02 - C130 - L01 - E99 - B00	Lintech 170 Series 174618 Table Series: 17 Number of Bearings: 4 per carriage Carriage Length: 6 inches Travel Length: 18 (455) inches (mm) - CP0 Cover Plate Option: no cover plates - 1 Carriage Inserts: English mount - S114 Screw Option: precision ball .625 x .200 NPL - M02 Motor Mount: NEMA 23 mount (English interface) - C130 Coupling Option: H100-375-250 - L01 Switch Option: mechanical EOT & home switches - E99 Encoder Option: 0.5 micron linear encoder - B00 Brake Option: none	\$4,463	\$4,463

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2	1	174618 - CP0 - 1 - S114 - M02 - C130 - L01 - E99 - B00	<p>Lintech 170 Series 174618            Table Series: 17            Number of Bearings: 4 per carriage            Carriage Length: 6 inches            Travel Length: 18 (400) inches (mm)            - CP0 Cover Plate Option: no cover plates            - 1 Carriage Inserts: English mount            - S114 Screw Option: precision ball .625 x .200 NPL            - M02 Motor Mount: NEMA 23 mount (English interface)            - C130 Coupling Option: H100-375-250            - L01 Switch Option: mechanical EOT &amp; home switches            - E99 Encoder Option: 0.5 micron linear encoder            - B00 Brake Option: none</p>	\$4,463	\$4,463
3	1	203192	Lintech XY Mounting Option: Carriage Plate Adapter (T-Slot X-Y plate)	\$95	\$95
4	1	203294	Lintech XY Mounting Option: T-nuts (Package of 5 T-Nuts)	\$35	\$35
5	1	X-Y	Lintech XY Mounting Option: mounting charge X-Y	\$125	\$125
6	1	QCI-SKB-D2-IG	<p>This kit features our SilverDust IG controller/driver (included). QCI's Basic Breakout Module provides access to the servo's I/O, connection to a PC serial port and a user provided power supply. For more details see:            SilverDust D2 Datasheet QCI-DS003.            Start-Up Kit Setup Instructions QCI-TD040.            This kit includes:            SilverDust (QCI-D2-IG)            QuickControl Software CD (QCI-QC)            User Manual &amp; Command Reference (QCI-SLM)            Basic Breakout (QCI-BO-B)            Communication Cable (QCI-C-D9M9F-6)            4' DB15HD Motor I/F Cable (QCI-C-D15P-D15S-4)</p>	\$655	\$655

<u>Item</u>	<u>Qty</u>	<u>Part #</u>	<u>Description</u>	<u>Price Each</u>	<u>Extended Price</u>
7	2	QCI-D2-IG	QuickSilver Controls SilverDust Servo Controller  IG- Includes the following RS-232 or RS-485 8 bit ASCII, 9 bit binary or Modbus protocols 32 Kilobyte non-volatile memory 1023 Program Buffer Encoder Output Voltage Clamp And Resister 7 Inputs or Outputs 4 Inputs Double as Analog Inputs 0-3.3V Motor Memory Support: Reads motor type and encoder information from non-volatile memory on motor. SilverLode Multi-Function Interface (SMI) Port DB15HD (socket): Motor I/F including motor power&encoder See Datasheet (QCI-DS003) Standard o With L-Bracket for heat sinking. o DIN compatible	\$495	\$990
8	2	QCI-A23H-5-A-01	QuickSilver Controls Servo I-Grade 23H-5 Motor w/ 8000CPR Encoder	\$295	\$590
9	2	QCI-C-D15P-D15S-10	QuickSilver Controls Motor Cable, DB15HD Motor I/F Cable, Connects to I-Grade motor/encoder.	\$95	\$190
10	1	SP-500-48	QuickSilver Controls Power Supply, 500 Watts +48 VDC, 10 Amps, Single output switching power supply Enclosed with std terminal block	\$175	\$175
11	1	LRS2-1-A25	Deltron Z, Mini-Posidrive linear positioning table, travel 1 inch, crossed roller bearing structure, motor mount and coupling for QuickSilver Controls QCI-A17H-3 servo motor	\$835	\$835
12	1	TBD	Custom Z bracket to mount Deltron LSR2 to the Lintech XY	\$450	\$450
13	1	QCI-A17H-3	QuickSilver Controls, size 17 I-Grade Servo Motor w/8000 CPR enc. for Z axis	\$250	\$250
14	1	TBD	"outrigger rail" to the end of the Y axis - without it the deflection will be >.008" (includes spacer to attach to the end of the Y axis.	\$495	\$495
				<b>Total :</b>	<b>\$13,811</b>

If you have any questions about these changes, please call Tony Angelica ext 110 or me at ext. 234.

Quote Valid for 30 Days

Delivery: Most items 2 to 3 Weeks (((LONG lead item- 0.5 micron linear encoders, 5-4 weeks)); Delivery based on the availability of components at the time of this quote.

Terms: Net 30 Days

FOB: Monrovia, CA

Thank You,

Tim McKay

Automation Specialist

cc: Tony Angelica

Gary Wester

Steve Gonzales