Design Considerations

Custom Systems

LINTECH has been manufacturing custom positioning systems for use in a wide variety of applications for over 30 years. See pages A-4 to A-7. Some of these custom systems have been simple modifications of carriage assemblies, special base mounting hole patterns, nonstandard travel lengths, specific motor mount brackets, or different accessories such as couplings, encoders, or waycovers.

Other more involved custom systems have been:

- * 30 x 30 x 30 foot X-Y-Z inspection stations
- * 60 foot part placement machines
- * 5,000 pound load capacity assembly stations.
- * vacuum or wash down rated
- * 9 axis special assembly machines

All of these custom systems were successful by following a simple approach.

Review, fill out, and provide all the information on the application guide on page A-45. Providing us with all, or as much detail up front, can lead to the successful completion of a custom system. Then submit this information to *LINTECH* and we will review the data, to see if it is within our capabilities to manufacture.

Some of the more important information to provide us follows:

Budget will become extremely important in our evaluation process with you. With our many years of experience building custom systems we will be able to determine if the required performance you are seeking is possible within your budget.

Accuracy or **Repeatability** will make a big difference in the cost of a custom system. The accuracy of 0.0002 inches over 48 inches of travel will cost a whole lot more than a repeatability of 0.0002 inches over the same 48 inches of travel.

Load Weight will have an impact on the linear bearing, drive assembly, and structure that we would design for the custom system. Providing a realistic estimated of load weight (along with any other potential external forces), without too much of a safety factor will help select the proper custom positioning components. We will use the proper safety factors based on your application details.

Required System Life will also affect the selection of the proper components for the system.

Systems Speeds may affect the cost of a custom system if larger, more expensive components are required to meet the application needs. Providing us with a realistic target speed helps create a successful custom system.

Application Sketch (or diagram) can help minimize the time for us to respond to your request.

Other Details such as waycovers, motor mounts, or carriage size my not seem like key items to mention. However, providing us with as much information on the application requirements will lead to the successful completion of a custom system.

Design Considerations

Application Guide

