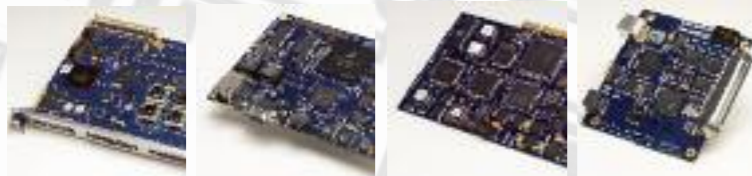


## OMS Product Lines:



MAXv  
motion  
controller  
(1-8 axes)

MAXnet  
motion  
controller  
(Ethernet)

PCIx –  
4 axis motion  
controller

UMX –  
4 axis (USB)

## Markets and Applications Served:

### *Medical & Instrumentation*

Diagnostic Imaging  
Telescope Positioning  
Microscope Optical Equipment  
Instrumentation  
Tissue Analyzers  
Laboratory Equipment  
Micropositioning

### *Integrators, Communications*

Automated Assembly  
Antenna Control  
Automated Roll Feed  
Photo Processing  
Textile Equipment

### *Semiconductor Manufacturing*

Robotics—Positioning  
Semiconductor Handling  
Packaging  
Government Research Facilities  
Automated Inspection/ Measurement  
Synchrotron Radiation  
Archive Storage Systems  
Document Handling Equipment

## Distributors:

### North America

**Northwest**  
Olympus Controls  
[www.olympus-controls.com](http://www.olympus-controls.com)

**New Jersey, New York**  
Faber Industrial Technologies  
[www.faberinc.com](http://www.faberinc.com)

**Minnesota, Illinois, Wisconsin**  
Tek-Matic  
[www.tekmatic.com](http://www.tekmatic.com)

**Canada**  
Tracan Electronics Corporation  
[www.tracan.com](http://www.tracan.com)

### International

**France**  
Rosier & Cie  
[www.rosier.fr](http://www.rosier.fr)

**Germany**  
Meilhaus Electronic GMBH  
[www.meilhaus.de](http://www.meilhaus.de)

**Italy, Malta**  
Rometec Srl  
[www.rometec.it](http://www.rometec.it)

**United Kingdom**  
Micromech  
[www.micromech.co.uk](http://www.micromech.co.uk)

**South Africa**  
Eagle Technology  
[www.eagle.co.za](http://www.eagle.co.za)

**Australia**  
Macromatix Pty, Ltd.  
[www.macromatix.com.au](http://www.macromatix.com.au)

**Singapore, Malaysia, Indonesia**  
Servo Dynamics Pte. Ltd.  
[www.servo.com.sg](http://www.servo.com.sg)

**South Korea**  
Korea Image Technology  
[www.kornet.net](http://www.kornet.net)

**China**  
Glink Development Company

## Helping Your Ideas Take Flight

### *About Pro-Dex, Inc.*

Headquartered in California, USA, with operations in Oregon and Nevada, Pro-Dex delivers products that are often customized to fit the demanding applications of our customers. [www.Pro-Dex.com](http://www.Pro-Dex.com).

## Our four focus areas include:

### *Multi-Axis Motion Control*

Known for performance and reliability, our products are used in the most demanding of applications as outlined.

#### Pro-Dex OMS

15201 N.W. Greenbrier, B-1, Beaverton, OR 97006  
(800) 707-8111 • (503) 629-0688 Fax • [www.Pro-DexOMS.com](http://www.Pro-DexOMS.com)

### *Custom Motors for Harsh Environments*

Fractional-horsepower DC motors that are custom designed and built for the harshest environments of aerospace, medical, industrial, and military applications. Pro-Dex Astromec is ISO 9001:2008-certified.

#### Pro-Dex Custom Motors

2950 Arrowhead Dr., Carson City, NV 89706-0488  
(775) 883-9226 • (775) 883-9228 Fax • [www.Astromec.com](http://www.Astromec.com)

### *Powered Surgical Devices*

Powered surgical devices that must withstand excessive autoclave temperatures, high pH cleaning, and exposure to saline require specialized design to protect electronics, motors, and push buttons. Pro-Dex specializes in the design, development and manufacture of these devices for private label OEM's. Products include arthroscopic shavers, cranial perforators, small bone screwdrivers, and multi-function hand-pieces.

### *13485-Certified Contract Manufacturing*

For both the Powered Surgical Devices that we design, and any other medical device requiring fully ISO 13485-certified manufacturing, Pro-Dex offers turn-key manufacturing solutions to simplify your supply chain. No dropped balls or finger-pointing, we enable Medical Device providers to get to market faster and more reliably.

#### Corporate Headquarters:

Powered Surgical Devices and 13485-Certified  
Contract Manufacturing  
2361 McGaw Avenue, Irvine, CA 92614 USA  
(800) 562.6204 • (949) 769-3281 Fax • [www.Pro-Dex.com](http://www.Pro-Dex.com)



L-OMS-001

# Multi-Axis Motion Control

When there are no second chances and nothing can be compromised, engineers turn to Pro-Dex OMS





### *Mission Critical*

High-profile customers around the world use Pro-Dex OMS for their most critical motion control requirements. In nuclear fusion, vital medical analysis, radioactive testing and radar guidance systems, designers count on the proven reliability and accuracy of Pro-Dex OMS products. With 30 years of experience, Pro-Dex OMS provides rock-solid motion control solutions in applications where failure is not an option.



### *Nothing Sacrificed*

You don't have to give up other design criteria in return for impeccable performance. Pro-Dex OMS products connect with many industry-standard interfaces, are extremely flexible due to their modular design, offer a rich feature set for comprehensive movements, fit even the tightest design envelopes, and are surprisingly affordable. And when "off-the-shelf" won't work for you, Pro-Dex OMS will customize product platforms to ensure that you get exactly what your application requires. When was the last time you could have it all?

### *Broad Spectrum of Products*

Pro-Dex OMS products control 1 to 10 axes on a single controller for servo and/or stepper motor control. Controllers for PCI, PC/104, and VME bus as well as Ethernet, RS232, USB are available. Some of the markets we serve include; semiconductor equipment, medical diagnostics, factory automation, as well as government research laboratories around the world. In addition to multi-axis motion controllers, Pro-Dex OMS offers motors, drives and accessories which are often custom configured to support specific applications.

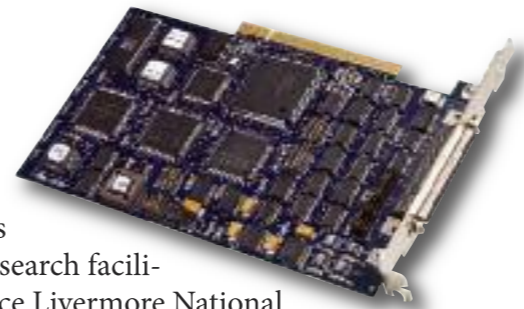
### *It's No Secret*

Currently, there are over 500,000 axes of Pro-Dex OMS motion control being used to support mission critical applications around the world. Find out why so many design engineers turn to Pro-Dex OMS for reliability, accuracy, connectivity, compatibility, flexibility, advanced features, compactness, and affordability.

## Applications

### *Fusion Created by National Ignition Facility (NIF)*

The U.S. government selects Pro-Dex OMS at its large research facilities. For example, at Lawrence Livermore National Laboratories, Pro-Dex OMS systems are used in the National Ignition Facility (NIF) to control mirrors to within 100 microns (less than the diameter of a human hair). These mirrors direct the convergence of hundreds of laser beams to control the fusion of hydrogen atoms. The uncompromised reliability and accuracy of thousands of axes of Pro-Dex OMS motion control are used here, and in other U.S. facilities including Argonne National Labs, Brookhaven National Labs., and other international research facilities.



### *Mission Critical Applications Include Testing for Cancer and Experiments on the Space Shuttle*

When testing for cancer on highly volatile tissue samples, a failed test could result in a faulty diagnosis or in the destruction of hundreds of patient biopsy samples. In testing biopsies for cancer, there truly are no second chances and the manufacturers of leading tissue analyses equipment choose Pro-Dex OMS multi-axis motion controls to deliver consistent and accurate results. In addition to uncompromised performance, Pro-Dex OMS was

able to eliminate redundant costs in these systems by customizing the controllers to specific user requirements.

Pro-Dex OMS products also have been used in experimental astrophysics analysis of the earth's atmosphere employed on the Space Shuttle.

## Benefits

- Highly accurate (+/- 0 steps)
- Highly reliable
- 1 to 10 axes per controller
- Easy-to-use
- Ethernet, USB, RS232
- VME, PCI, PC104 bus
- Extensive command set
- 122µs update rate
- User definable I/O
- Complex move profiles
- Compact size
- Incremental and absolute encoder feedback
- Custom solutions
- Affordable