

# Aurotek®

A Complete Solution from One Source



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2012

NEW COLLECTION  
Automation Products



ENGAGE YOUR ENGINEERING SYSTEM

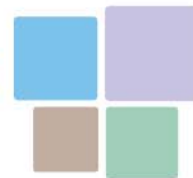


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[www.robot.com.tw](http://www.robot.com.tw)

# Axis Module Series

Best Design For Different Sorts of Projects



## Single-Axis Robots

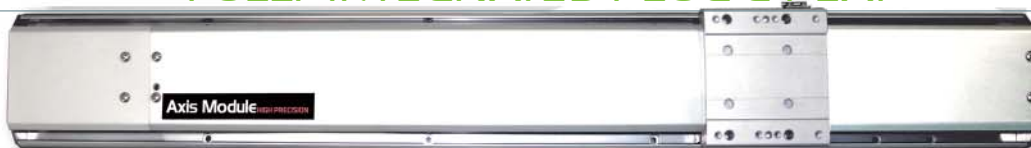
All kinds of specifications satisfied all kinds of requests



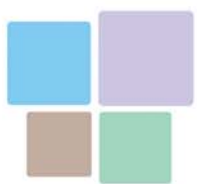
## Aurotek Single-Axis Robots

Motion Solutions for Your Automation Requirements

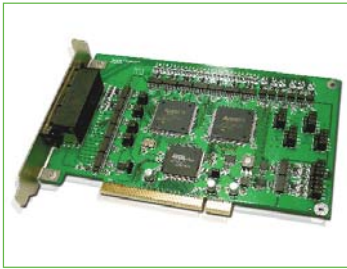
**FULLY INTEGRATED PLUG & PLAY**



Aurotek Single-Axis Robots provide the proper support for different purposes



**MC8841P/MC8881P Multi-Axis Motion Control Card**



Max. pulse output rate: 8Mpps (4Mpps when interpolation)  
Encoder feedback rate: 8Mpps under quadrature AB phase  
PULSE drive option CW/CCW, PULSE/DIR and AB phase  
T / S curve velocity profiles  
2-4 axes / 2-8 axes linear interpolation  
2 axes circular interpolation

**SHIMPO Gearbox**



Leading manufacturer/supplier of industrial drive products, including inline cycloidal style speed reducers, mechanical variable speed drives, as well as servo gear reducers in concentric planetary and spiral bevel styles.

**MCN-8032P/MCN8016P RTEX Network Motion Control Card**



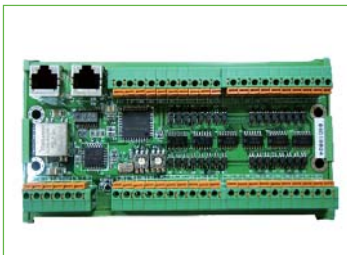
MCN8032 is based on Panasonic RTEX network motion control specification to develop Aurotek PC-based multi-axis motion control card.  
Support up to 32 servo motors or I/O modules per master  
Real-time communication based on 100Base-TX at 100Mbps  
Use shielded CAT-5/CAT-6 cable for low cost  
Motor synchronization support

**Techno 5-phase Stepping Drivers**



5-phase micro stepping drivers, with maximum 2500 divisions, enhance performance. Sizes are offered from 24mm to 86mm.

**MCN-9321RTEX Input Module**



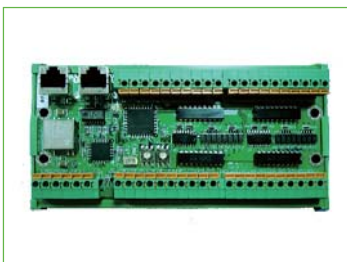
MCN-9321 RTEX network input module has total 32 points with photo coupler isolated.  
Input voltage: DC18-36V for each point  
Input current: 5-11mA for each point

**Panasonic A4 Servo Motors**



Panasonic fourth generation servo motors with lots of features, such as damping control and fast fourier transform (FFT). RS232C supported, and operations will be easier by combining the interface of Panaterm®.

**MCN-9322RTEX Output Module**



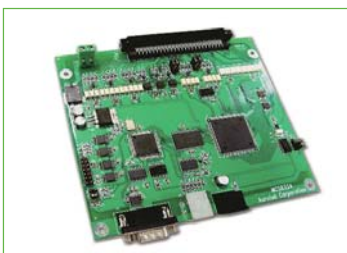
MCN-9322 RTEX network output module has total 32 points with photo coupler isolated.  
Input voltage: DC18-36V for each point  
Input current: 5-11mA for each point  
Size: 158x86x43mm

**Panasonic A5 Servo Motors**



This is the latest Panasonic servo motor series. 20-bit encoder with higher precision than before, 2000Hz response frequency higher than others, and smarter automatic gain tuning with better damping control, Panasonic A5 servo motor is the best choice for equipment of high speed and high accuracy.

**MCS-8324 Stand Alone Controller**



Max. pulse speed up to 6 Mpps (3Mpps when interpolation)  
Connect to HMI via RS232  
One program storage is up to 999 commands.  
Pulse drive option CW/CCW, PULSE/DIR and AB phase  
T / S curve velocity profiles  
2/3/4 axes linear interpolation  
2 axes circular interpolation

**MCN9040 RTEX Pulse Module**



Convert network signals into pulse signals. Control 4 axes stepping motors, liner motors, and motors which are able to receive pulses.  
Max. Pulse output rate: 8Mpps, Pulse drives option: CW/CCW, PULSE/DIR, and AB Phase.



**YOKOGAWA DDR Linear Motors**



Without mechanical gears, the FA direct drive servo motor, DYNASERV, is capable of precise revolution control in more than four million steps per revolution. DYNASERV has been widely used in FA devices and equipments, especially in equipments of LED manufacturing & inspection, Solar Cell production & inspection, semiconductor manufacturing etc.

**Kollmorgen Direct Drive Rotary (DDR) Motors**



- Highest resolution feedback (up to 27-bit)
- Absolute accuracy of 26 arc-seconds, and a repeatability of 0.7 arc-seconds
- By eliminating parts that wear or change overtime, DDR motors deliver greater system reliability.

**Nabtesco Cycloidal Gearbox**



Nabtesco is the largest precision Cycloidal gearbox manufacturer in the world and leads the precision gear industry by providing High Performance Reduction Gears and Hollow Shaft Gear Heads. This product is used broadly in variable fields of industry, and it provides large torque, high ratio, and significant shock-load capabilities with extreme precision which is the best choice of gearbox.

**Kollmorgen Direct Drive Linear (DDL) Motors**



Kollmorgen linear motors feature a low-profile design and low attractive force. Trust force from 170N to 15600N, and there are five different length of track can be chose for each motor which makes easier for customers in different industrial applications.

**Advantech WebOP Industrial Operator Panels**



Supports ARM9-based CPUs with 200MHz, Supports communication interface, including USB, Ethernet, RS232, RS485, and SD card. Supports over 300 kinds of PLC industrial communication protocols, The Advantech WebOP-2070T provides easier operational interface, faster communication between machines, and much more variety of application to improve efficiency of automated control and monitoring.

**Kollmorgen MEI Controllers (XMP/ZMP)**



Kollmorgen offers a complete selection of controller hardware for any machine architecture. Controller options include standalone units and PC Card controllers. Data is connected to each node via SyngNet, including ZMP-SyngNet, XMP-SyngNet, and XMP-Analog. Advanced time-adjusting technology is used on each receiving node which minimizes operational instability and maximizes performance.

**NISSEI Gear Motors**



The NISSEI Gear Motors, provide up to 140,000 kinds of model, is the leading company of gear motor in Japan. With features of low noise, high efficiency, and small flanged mounted design, the NISSEI gear motors can be used in assembly lines, automatic storages, elevators, and parking structures.

**PBA Linear Motors**



Provide over 60 different specifications coil with trust force from 3.2N to 906N. They are suitable for most of automatic applications. The smallest size is only 22mm which is ideal for small size equipments.

**NISSEI IPM Gear Motors**



- Magnetic flux is generated by internal permanent magnets
- Since electricity does not flow through the rotor, there is no secondary copper loss.
- Maximum efficiency is up to 88% (0.75kw)
- No signal cable is required which makes wiring easier
- It is synchronous motors with torque limiting function that is able to generate 150% torque.
- By changing internal parameters, you can switch between position control and speed control.

**PBA Coil Motors**



High speed and fast response DC motors are widely used for system of fast focusing, pick-and-place systems, and packaging. Sizes of the motors are provided from size 16mm to 94mm, trust force from 1.1N to 119.9N.

### Syco Tec High Frequency Spindles



Syco Tec HF Spindles are a new generation motor, with smaller sizes and higher speed which is up to 60000rpm. Diameters of the spindles are from 33mm, 42mm, 45mm, 60mm, to 62mm, and power output are from 140w to 1200w. Customized sizes are available.

### OILES Self-Lube Bearings



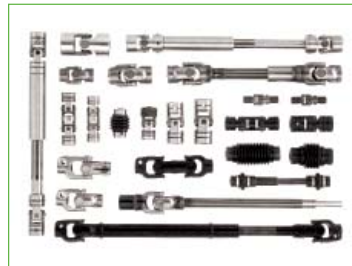
OILES offers tons of categories of high performance bearings, including oil-less and oil-free, metallic and non-metallic. Bearings are available in large variety of shapes, sizes, and functions in response to different application requirements.

### Syco Tec Stators / Rotors



Syco Tec is the leading manufacturer of innovative components, drive, and device for industrial applications. The stators and rotors are designed with the properties of high precision, high dynamic, high speed capacity, and high efficiency, they are both ideal for servo motor assembling. Customized sizes and specifications are available.

### KYOWA Universal Joints



- The materials of high precision stable pivot torque and angular play at a little level.
- Flexible in design due to little swing diameter.
- High rigidity and light in weight.
- Completed products are able to weld.

### NB Linear Bearings



Our slide bush provides low friction slide motion, a simple mechanism, has been obtained within various applications throughout all fields in the industrial world. The NB linear bearings have approved from customers with excellent performance. Both slide and rotary motion with stroke bush gives abundant variations that meet all kinds of special needs to customers.

### Aurotek Flexible Couplings



Low noise, high stiffness, low inertia, special designed for servo motor applications. Aurotek couplings are widely used in diverse fields of industry, such as LCD, LED, semiconductor, precision measuring instruments, and office automation.

### Axis Module Series



Axis Module is a Plug-and-Play Module designed actuator. Users can easily assemble it into a machine in very short time. The width of actuator is from 65mm to 168mm, and the stroke is from 30mm to 1500mm which can be used on most of the automatic applications.

### Aurotek Spring-Type Couplings



Stainless steel spring flexible couplings, with high torque capacity and excellent response, have strong anti-tiredness ability. These products are widely used in medium to large servo motor applications for transferring and positioning.

### Cubii Desktop Robot



- High-end components, ball screws and linear guide, perform accurate positioning.
- Dialog based operation software makes programming easier.
- Download / upload program are available through computer operations.
- Module designed makes maintenance easier.
- Support up to 4-Axis linear motion.

### KURODA Ball Screws

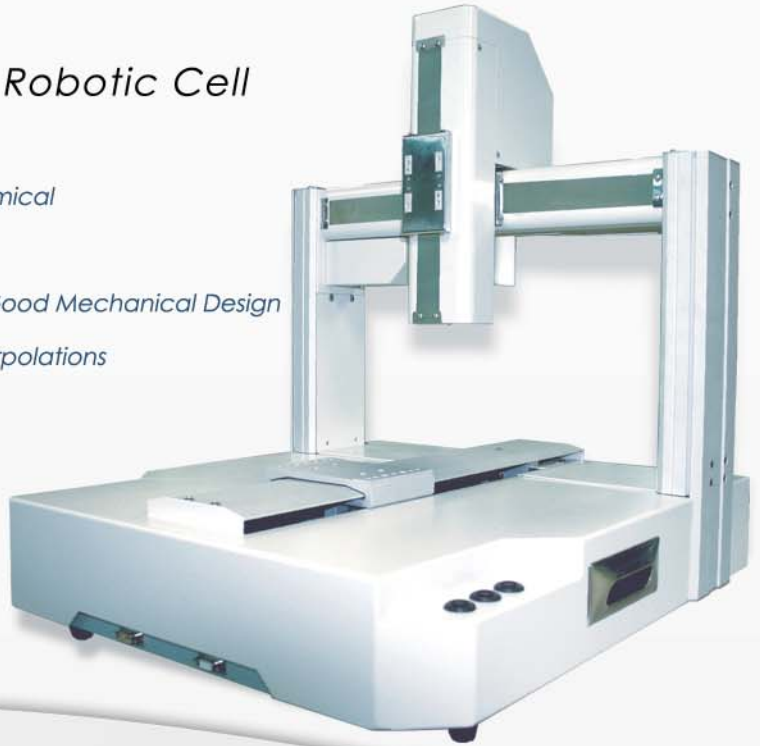


The KURODA ball screws provide wide variety of accurate high speed linear transmission, and these products are widely used in automation industry.  
Standard Ground Ball Screws: Accuracy Grade C3-C7/JIS  
Standard Rolled Ball Screws: Accuracy Grade C7&C10/JIS

# Cubii Multi-Axis Robotic Cell

## Cubii Features

- Full Functions, Strong, Reliable yet Economical
- PC and Teaching Pad Programmable
- Easy Check and Maintenance through Good Mechanical Design
- An Optional 4<sup>th</sup> Axis Adoptable with Interpolations
- In-line Linkable



**T**RANSMISSION ▪ **P**OWER TRANSMISSION PARTS ▪ **C**ONTROLLER

## **Aurotek**<sup>®</sup>

*A Complete Solution from One Source*

### **Taiwan**

#### **Aurotek Corporation**

1st Fl., No. 60, Zhouzih St., Neihu District, Taipei 114, Taiwan

Tel : +886-2-8752-3311 (rep.)

Fax : +886-2-8752-3347

E-mail : info@robot.com.tw

E-mail : sales@robot.com.tw

Website : <http://www.robot.com.tw>

#### **Taoyuan Plant**

No. 61, Lioufu Rd., Lujhu Township, Taoyuan County 338, Taiwan

Tel : +886-3-322-3788

Fax : +886-3-322-0866

#### **Taichung Office**

7th Fl.-8, No. 262, Sec. 2, He-Nan Rd., Si-Tun District, Taichung 407, Taiwan

Tel : +886-4-2452-2822

Fax : +886-4-2451-0073

#### **Tainan Office**

7th Fl., No. 573, Cing-Ping Rd., An-Ping District, Tainan 708, Taiwan.

Tel : +886-06-293-4853

Fax : +886-06-293-4973

### **China**

#### **Aurotek (Shanghai) Inc.**

No. 936, Ji Min Tang Nan Rd., Huaqiao Economic Development Zone Kunshan, Jiangsu, 215332 China.

Tel : +86-512-5013-9099, +86-512-5013-9091 ~ 7

Fax : +86-512-5013-9098, +86-512-5013-9089

Email : sales@aurotek.com.cn

Website : <http://www.aurotek.com.cn>

#### **Aurotek (Kunshan) Inc.**

No. 936, Ji Min Tang Nan Rd., Huaqiao Economic Development Zone Kunshan, Jiangsu, 215332 China.

Tel : +86 512 5797-1581

Fax : +86 512 5797-1583

Email : sales@aurotek.com.cn

Website : <http://www.aurotek.com.cn>

### **Japan**

#### **Aurotek (Japan) Inc.**

2nd Fl., Akihabara-Seishin Bldg., 1-7-8 Kandasuda-cyo, Chiyoda-ku Tokyo 101-0041 Japan.

Tel : +81-3-5297-7028

Fax : +81-3-5297-7029

E-mail : sales@aurotek.co.jp

### **Thailand**

#### **Plenty Island (Thai) Co., Ltd.**

3 Soi Charoenrat 10, Charoenrat Rd., Bangkok, Bangkoklaem Bangkok Thailand.

Tel : +66 2 291-9933 (rep.)

Fax : +66 2 291-2065

Website : <http://www.plenty.co.th>

E-mail : jackson@plenty.co.th



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