



MACHINE VISION & CONTROL AUTOMATION

**Control Easy Technology Sdn. Bhd.** (924757-A)

**Industry Machine Vision, Motion, PLC & PC Control Automation Systems.**

**Education Control Training Systems.**

No 28G &1, The Atmosphere, Jalan Atmosphere 5, Bandar Putra Permai,  
43300 Seri Kembangan, Selangor, Malaysia.

Tel: +603-9545 2009

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E-mail: [sales@controlez.com](mailto:sales@controlez.com) [www.control-easy.com](http://www.control-easy.com)

No	Product Description	Product Code
01	Rotary Disc Training Kit	EZ-MC01
02	Single Axis Indexer Kit	EZ-MC02
03	XY Training Kit	EZ-MC03
04	XYZ Training Kit	EZ-MC04
05	RV-500 Training Robot	EZ-MC05





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## Single Axis Indexer Kit

Model : EZ-MC002



- Control Easy Single Axis Indexer Training Kit housed a MNC100PN Motion Controller, a PEE533A, 5 Phase Stepper Motor and a 5 Phase Micro-stepping Driver. The controller has 15 programmable positions where the speed and position (absolute or incremental) can be individually programmed. The motor can be run using the membrane buttons on the indexer or triggered by external buttons provided. The stepper driver provides micro-stepping up to 50,000 steps per revolution.

## XY Training Kit

Model : EZ-MC003



3. Control Easy's XY training kit is suitable for **Institutional training in Motion Control.**

**The 2 axes training kit comprises of :**

- Control Easy's 2 axes Motion Controller with MPG1030 LSI pulse chip
- Simple G-code programming
- Stepper motor control
- an XY table ( travel 50mm x 100mm )



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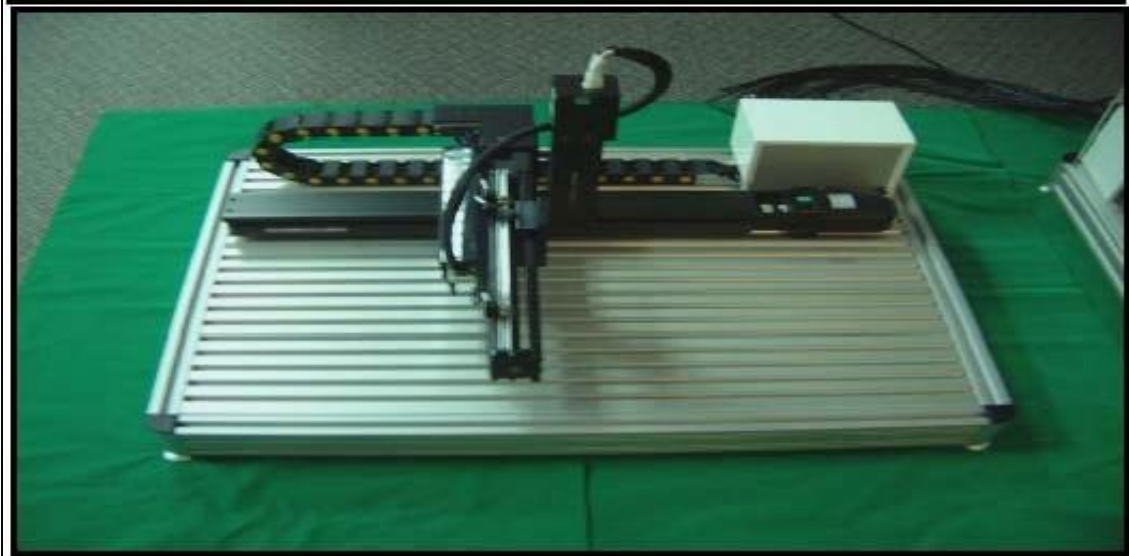
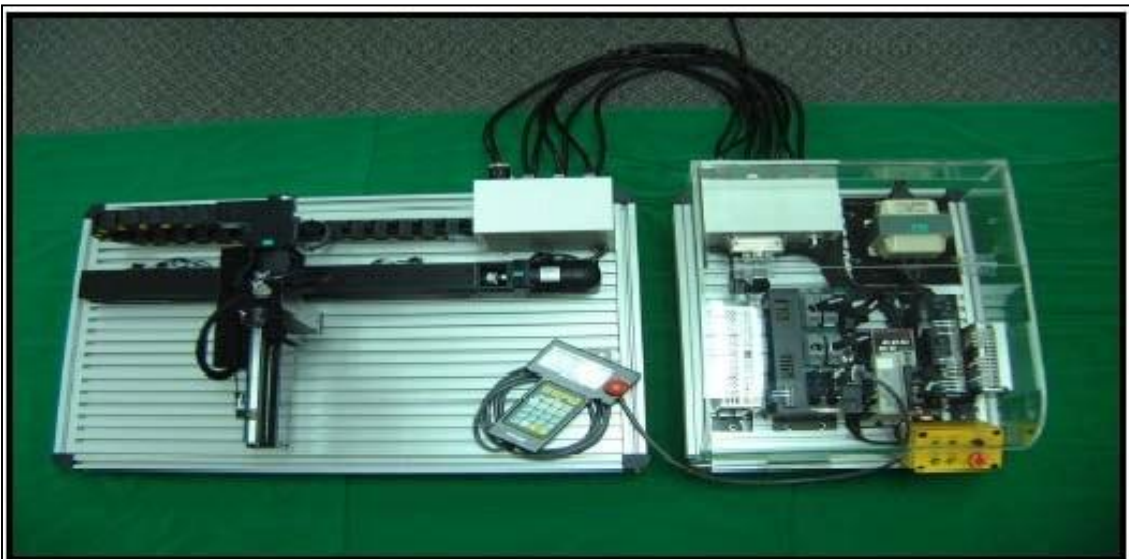
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## XYZ Training Kit

Model : EZ-MC004







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## System Configuration

### **Items Included In The Supply :**

1. Complete Training Module as per below proposal:
  - i. Training will be provided at end-user premises. ii. Delivery approx. 4-8 weeks
2. (Hardware & Programming & Testing)  
Engineering, drawing PLC programming  
Wiring to and from PLC with motion functions  
Control system engineering, control system design drawing.
3. Programming of the PLC in ladder diagram
  - Parameter & Sequence automatic control functions
  - FAT - Factory Acceptance Tests
  - FAT - Factory Acceptance Tests
  - Preparation of FAT documents
  - Set up and staging for FAT
  - Testing and acceptance
  - Documentation - Operating and Maintenance manual
  - Documentation for PLC Control System
  - Teaching Materials in example application and exercise and theory of stepper & servo motor
4. Site - Start up & Commissioning
5. PLC Based Software
  - Monitoring and Simulation, Parameter entry and changing, Programming of - the PLCContent of Proposal
  1. Training Objectives
  2. Parts and Components supply
  3. Mechanical Simulation Modules
  4. Physical Structural Modules
6. Technical & Training Manual - 1 set, Teaching material in examples application and exercises, Theory of servo motor.
7. Computer Dell Dimension 3100, Intel Pentium 4 Processor 524 with HT Technology, (1 MB L2 Cache, 3.06GHz, 533 MHz FSB), Genuine Windows XP Home Edition, 256 MB DDR-2 SDRAM, 80GB SATA Hard Drive 3.0Gb with NCQ, 17" Flat Panel Monitor(1 Year Limited Warranty)



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## Technical Specification Summary

- PLC Based Servo Controller (Siemens) - 1 set
- Servo Motor- 2 set
- Servo Driver - 2 set
- Pneumatic Cylinder c/w Gripper - 1 set
- Mechanical Actuator/Simulation modules - 2 set
- PVC Based with handle - 1 set
- Power Supply - 1 set
- Switches Box and terminal block & cable - 1 set
- Original PLC Software Siemens Step-7 MicroWin(licen)- 1 set
- Robotic Control Software
- Mechanical Simulation Modules
  - \*X-Axis - leadscrew actuator driven by Servo motor, stroke approx. 300mm.
  - \*Y-Axis - leadscrew actuator driven by Servo motor, stroke approx. 200mm.
  - \* Z-Axis - Pneumatic actuator c/w Gripper approx. 200 mm
- Physical Structural Modules
  - Proposal would include structural modules using PVC Base. Two Actuator Modules will be provided; A module for mechanical actuators and the controller, drivers, power supply and transformer.
- Mechanical Gripper (Gripper Mechanism)
- DC Power Supply & Electrical wiring for the system
- Electrical components ELCB, MCB & OTHERS

**NOTE:** Complete Technical Specification and detailed information available

### Required Services

-Electrical supply : 220-240V/50-60Hz

### Dimension & Weight

Dimensions approx:  
1000(L)\*500(W)\*400(H)  
Weight approx. : 60Kg

*\*Specification subject to change without previous notice, due to continuous improvements of the product*



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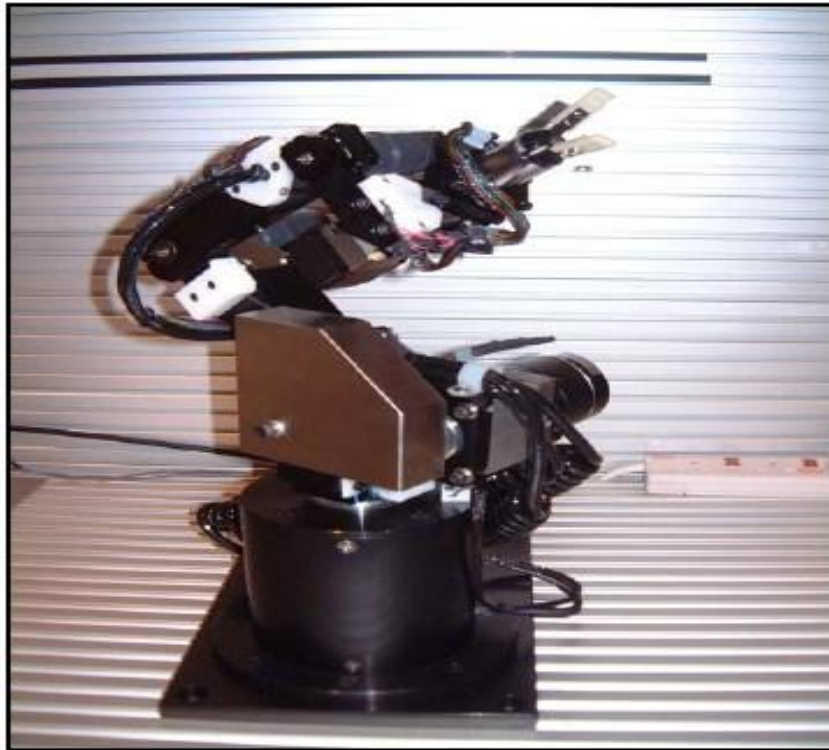
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## **RV-500 Training Robot**

**Model : EZ-MC005**



5. The RV-500 is a 5+ axes robot, fully stepper motor control. Using CONTROLEZ PPC 2310, PC BASED controller cards and a user-friendly robot program, it provides easy manipulation, edition and monitoring of the robot. The 5 axes comprising the waist, shoulder, elbow, wrist and wrist roll together with the electric driven gripper provides an intricate movement within the working envelope.





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Items		Contents Items	Contents	
Axes of Freedom		5+	Arm Length	150 + 125mm
Drive Method		Stepper Motor	Max Speed	120 mm/sec
Working Envelope	Waist	300o	Allowable Wt	300 g (125 g)
Shoulder		60o	Resolution	±0.1 mm
Elbow		180o	Home Search	Contact sw.
Wrist		230o	Place Method	Flat/Level Base
Wrist Roll		300o	Env. Temp.	5 – 40o C
Gripper		35 mm	Weight	13 kg