Where Tomorrow's Robots Are Available Today
Welcome to the Exciting age of Robotics!

Robot World, a division of Rochester Robotics, is recognized as the leading supplier of robotics in Upstate New York. Our company has rapidly established itself as a market authority by introducing the general public to the robotic age.

The goal of Robot World is to educate the public about the latest robotic concepts and innovative products. Robot World is introducing robotics to the home, office, educational and industrial marketplace.

The field of robotics is complex, exciting, and ever changing. To keep the public informed about new developments in robotics, Robot World provides robotic seminars to schools, clubs, or any interested organizations. Please contact our office for more information on seminars and group presentations.

Robot World is the largest supplier of robotic kits, educational robots and hobby robots. We are very proud of our inventory and we try to stay in touch with your robotic needs as much as possible. If you have any suggestions or know of other products that you would like us to carry, please let us know. We appreciate your ideas and suggestions. Please take the time to let us know how we might help you.

Sincerely,

Jean DuTeau, President
The MOVIT line is a series of computerized (and logic-controlled) battery robot kits that can teach the basic principles of robotic sensing and locomotion. These kits feature pre-assembled pc boards, hardware and mechanical-drive systems that can be handled by almost anyone from ages 10 and up. Only basic hand tools are required for assembly. These fascinating robots allow you to experience and learn any one of the following features: sound sensor, remote control, infrared sensor, wired control and/or programmable memory. They are affordable robots that can entertain as well as educate. Now meet the family!

**Difficulty Levels:** To facilitate kit building, Robot World kits are rated from difficulty level 1 (easiest - first time kit builders) to difficulty level 5 (hardest). These levels are only a gauge to assist robot enthusiasts in their selection.

**AVOIDER**

*Infrared Sensor*

An intelligent robot which knows how to avoid hitting walls. This robot emits an infrared beam which detects an obstacle in front and then automatically turns left, and continues on.

- **Movement:** 3 legs on each side by crank motion
- **Control:** Infrared sensor including infrared diode/photo diode/IC
- **Power source:** 4 ea. AA batteries and 1 ea. 9V battery (not included)
- **Color:** blue
- **Difficulty level:** 3

**LINE TRACER**

*Infrared Sensor*

Guided by an infrared light sensor this robot will automatically follow any black line drawn on white paper.

- **Movement:** 3 wheels driven by 2 DC motors
- **Control:** infrared sensor including infrared diode/photo diode/IC
- **Power source:** 2 ea. AA batteries and 1 ea. 9V battery (not included)
- **Color:** yellow
- **Difficulty level:** 2

**RW MV-912**

$59.95

**RW MV-913**

$59.95
PIPER-MOUSE
Sound Sensor

Controlled by a supersonic sound sensor and an electronic circuit (one channel), use the whistle included with this kit and PIPER-MOUSE will follow your commands to turn to the left, right, advance, or stop.

Movement: 3 wheels driven by 2 DC motors
Control: Supersonic sound sensor including condenser microphone & PC board
Power Source: 2 ea. AA batteries and 1 ea. 9V battery (not included)
Color: blue
Difficulty level: 1

RW MV-915 $59.95

PEPPY
Sound/Touch Sensor

When the sound sensor located in front comes into contact with a wall or other obstacle or hears a loud noise, such as a hand clap, it will automatically reverse itself for a pre-set time and then resume its new course.

Power source: 2 ea. AA batteries (not included)
Color: pink
Difficulty level: 1

RW MV-916 $34.95

MR. BOOTSMAN
Wired Control

Has 6 insect-like legs, 2 speed movement, and includes a control box. The unique MR. BOOTSMAN can walk or run, forwards or backwards, turn left or right, and can execute 360 degree turns. You can use this robot for thrilling games of soccer or pushing matches, and you can even program your own games.

Power source: 2 ea. AA batteries (not included)
Color: blue
Difficulty level: 2

RW MV-931 $47.95
ROBOT WORLD

RABBOT
Sound Sensor

Another in a long line of educational kits designed for both kids and adults. You’ll learn the basic principles of robotic sensing and locomotion while having hours of fun assembling and then operating the completed kit. The RABBOT moves straight ahead until commanded to change course. Through the dual sound sensors mounted on each of its sides, the RABBOT will veer to the right or left according to the sound source.

Power source: 2 ea. C batteries and 1 ea. 9V batteries (not included)
Color: White.
Difficulty Level: 1

$69.95

CIRCULAR
Remote Control

2 large wheels move this super robot left and right, forward, or around and around. All the movements can be perfectly controlled by a hand-held remote control box. The CIRCULAR slips quickly and smoothly along.

Power source (main body): 3 ea. AA batteries and 1 ea. 9V battery (not included)
Color: green
Difficulty level: 5

$99.95

NAVIUS
Sensor/control pc board ready assembled, Infrared Sensor

As the white disk rotates, the NAVIUS infrared sensor reads the program (black markings) that you design. Program NAVIUS to turn left, right, pause or go forward.

Movement: Wheels, 2 motors
Control Method: Sensor/control circuit sensor, infrared sensor control, Photo interlamp control circuit, 1C Transistors
Power source: 2 ea. AA batteries and 1 ea. 9V battery (not included)
Color: smoke gray
Difficulty level: 4

$79.95
**MEDUSA**

*Sound Sensor*

A walking robot with an electronic brain. Registering your command, this robot starts to hobble on its 4 legs and stops automatically after a pre-set time.

*Movement*: 2 legs on each side by crank shaft

*Control*: Sound sensor including condenser microphone/transistor

*Power source*: 2 ea. 1.5V batteries N size (not included)

*Color*: clear

*Difficulty level*: 1

**RW MV-939**

$39.95

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**WAO**

*Programmable One chip computer controlled robot*

The pen mechanism included with the robot enables it to draw. In addition to drawing straight lines, it can also accurately draw circles, and even draw out words and short phrases. WAO comes with 128 x 4 bits RAM and 2 K ROM, and is programmed directly via the keypad attached to it. With its built-in connector port, WAO is ready to communicate with your computer's printer port. We offer a separate and optional software communications package for the Apple II and +, Commodore 64 & 128, and IBM PC computers.

*Power source*: 3 ea. AA batteries and 1 ea. 9V battery (not included)

*Difficulty level*: 4

**RW MV-9511**

$139.95

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**S-CARGO**

*Sound Sensor*

By the use of a hand-held sound activator, or your own hand clap, you can control S-CARGO to rotate left, proceed forward, or stop.

*Power source*: 2 ea. AA batteries and 1 ea. 9V battery (not included)

*Difficulty level*: 1

**RW MV-933**

$59.95

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**WAO Software, Instructions, & Connector Cable**

Compatible with Apple, IBM, and Commodore.

- **RW W-AP** Apple Software $54.95
- **RW W-IBM** IBM Software $54.95
- **RW W-COM** Commodore Software $54.95
ROBOT WORLD

ROBOTIC ARM
Wired Control

Robots were once confined to science fiction movies. Today, whether they're performing dangerous tasks or putting together complex products, robotics are finding their way into more and more industries. Now they can be found in your own home. The MOVIT ROBOTIC ARM is an educational kit that teaches the fundamentals of a basic robotic arm as well as testing your own motor skills. Control it to perform simple tasks.

Movement: Grabs & releases, lifts & lowers, pivots from side to side.

Power source: 2 ea. C batteries (not included)

Color: Smoke gray
Difficulty level: 3
RW Y-01 $59.95

CAPSELA
The Construction Set of Tomorrow

Capsela sets are unique motorized and computerized construction systems of the technological future. They consist of interchangeable see-thru capsules, each with a different function and various moving accessory parts including: wheels, chains, propellers, lights, motors, and more. All components simply snap together so you can build action models and robots in minutes. Children of all ages love them. They are spectacular to look at, easy to build and provide almost unlimited challenges. All Capsela parts are interchangeable and are easy to snap together.

STARTER 200
Basic introduction set allows children to build ten motorized models and projects as they learn about electric and mechanical energy. Our “see how it works” science booklet covers six science concepts. It is a fun way to learn about the world we live in.

36 Interlocking Parts 10 Action Projects Ages: 7-Adult
RW 200 $29.95

CAPSELA MOTORIZED ROBOT
Build your own motor driven robot with this fun Capsela project kit.

Ages: 7-Adult
RW 204 $26.95

CAPSELA 450
The Science Discovery System

This exciting adventure kit can build up to 30 action models and entertaining projects. CAPSELA 450 is a wonderful set for anyone interested in science and physics. Learn interesting and important science concepts from a science booklet written by Dr. Clifford Swartz. The CAPSELA 450, called the invention set due to its hands on approach, is a fun kit for everyone.

Ages: 7 to adult
RW-450 $49.95
**CAPSELA 2000**

The CAPSELA 2000 has all the properties of the 450 set and more. This set features a selection computer which allows for the construction of programmable computerized models. This kit can store up to 94 commands. It has 17 functions including sound, lights, and more. The instructions come complete with a program in which the model pivots, turns and moves in all directions.

*Ages: 9 to adult*

**ROBO DUCK**

ROBO DUCK is the ideal first programmable robot. Enter up to 18 commands randomly and watch ROBO DUCK go! A terrific learning robot for ages 3 - 10.

*Power source: 4 ea. AA batteries and 1 ea. 9V battery (not included)*

*Comes completely assembled*

**GEORGE**

Meet GEORGE the Compurobot I. This robot provides a firsthand introduction to programming. An on-board computer controls all functions including: directions, speed, sound, and light. Up to 48 program steps can be memorized.

*Features a 25 key keyboard with international symbols.
Synthesized sound with lighting effects.*

*Ages: 5 - adult*
COMPURobot II
200A

COMPURobot II is an infrared remote control programming robot that is educational and fun. This intelligent robot draws, writes, dances, and makes music. This robot can pick up a command anywhere in a room (up to forty feet away). COMPURobot II’s mechanical arms can carry its own tray. This technically sophisticated robot has a 64 command memory. He loves to sleep when not in use, but wakes up with a slight touch on his shoulders.

Features a 25 key infrared remote control with editing functions.

Ages: 6 - adult

RW CR-200A $69.95

COMPURobot II
200R

The CR-200R has all the features of the CR-200A, plus the ability to interface with a personal computer (Apple or IBM). Create a robot program on your computer, just store on a floppy disk. Send stored program thru RS232 interface. A demo program is built into the software.

Ages: 8 to adult
Power source: 4 C batteries

RW CR-200R $99.95

COMPURobot III

COMPURobot III provides first hand robot programming experience. It memorizes up to 48 program steps lasting from 1 second to 1 hour. The robot runs in three speed mode. COMPURobot III can grip a card and hold a pen by its two manually movable and extendable arms.

Features a 25 key keyboard with international symbols.

Ages: 8 to adult

RW CR-300 $39.95
Fischertechnik is a leading trademark for creative and innovative product ideas. Ranging from technical construction kits to computer controlled robots which you can design and program yourself. These models provide a realistic simulation of todays automated industries. All Fischertechnik kits provide everyone with an interesting technical challenge.

PLOTTER/SCANNER

Your computer really should be able to read and write. The PLOTTER/SCANNER from Fischertechnik will soon show it how. This professional Fischertechnik computing kit combines the possibilities of two graphics units in one model, and the results are truly impressive. The plotter commits graphics to paper, right up to A4 format. Two bipolar stepping motors give it positioning accuracy of better than 0.5 mm. The scanner is for digital scanning of graphics copy. With the software you get on the accompanying diskette even false-color presentation is possible.

The technical accessories:
2 bipolar stepping motors with stepping increment of 7.5 degree, 6.8 Vdc.
Electromagnetic writing head with fiber refill
Reading head with lamp and photocell
2 push buttons for detecting the home position

<table>
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<td>RW 30511 (kit only)</td>
<td>$389.95</td>
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<tr>
<td>RW 30567B (kit with IBM Interface, Software, &amp; 2 power packs)</td>
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<tr>
<td>RW 30569B (kit with APPLE Interface, Software, &amp; 2 power packs)</td>
<td>$499.95</td>
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ROBOT WORLD

FISCHERTECHNIK TRAINING ROBOT
3 AXIS

Put your computer to work! The FISCHERTECHNIK TRAINING ROBOT with its three axis of movement can reach any point within its work envelope. The near professional kit with a three axis arm will handle any payload up to 100g. Its positioning system works with three infrared photo interrupter and achieves repeatability of 1 mm. The kit contains detailed building instruction and professional software on a diskette.

The components of the FISCHERTECHNIK TRAINING ROBOT can be combined with all other Fischertechnik components and expanded with them. A Fischertechnik interface provides the link with the computer.

<table>
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<td>RW 305 69C (Kit with APPLE Interface, Software, &amp; 2 Power Packs)</td>
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The technical accessories:
3 S motors 6.8 Vdc for moving the robot axes
1 mini-motor 6.8 Vdc for driving the gripper
3 infrared photo interrupter for positioning the three robot axes
4 push buttons for defining the home position
4 lamps for optical display of operating status
1 emergency-off button

FISCHERTECHNIK COMPUTING KIT
2 AXIS

The FISCHERTECHNIK COMPUTING KIT adds life to your computer. In it are components for constructing ten different working models. A rotator antenna. A machine tool. A sorting system. Or a dual-axis teach-in robot.

Computing Kit:
If you want to get into robotics and automation, it's best to proceed step by step. From simple traffic lights through to a dual-axis robot, this program will systematically familiarize you with control engineering.

1. Machine tool: Two different movements of a motor have to be synchronized with one another.
2. Materials lift: The program controls the lift as it climbs to the required level.
3. Sorting system: The computer is able to make decisions because it knows the results of measurements that have been made.
4. Tower of Hanoi: This robot can be controlled in the rotation of the body and the vertical movement of the effector.
5. Teach-in robot: A dual-axis robot controlled by a general-purpose programming system.
6. Graphics panel: Diagrams and pictures can be transferred into the image memory of the computer.

Fischertechnik Interface:
Matching interfaces provide you with the link to the Apple, Commodore, ATARI ST, and IBM personal computers. With the programs on the accompanying diskette, you can control any model and create new programs of your own. You can convert, expand, and modify. Give your computer this building kit and you and your computer will soon be on the way to many new, interesting, and creative ideas.

<table>
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<td>RW 30569 Apple Interface</td>
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<tr>
<td>RW 30173A Power Supply</td>
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FISCHERTECHNIK EXPERIMENTAL KIT

The new computing construction kit from Fischertechnik. Measuring, Controlling, Adjusting. Just like it's done in industry with real machines and robots. Experimenting. Simulating, Understanding. Understand and apply computers and robotics by means of experiments. Experiments include robotics, motion and route planning, with graphic sensors for light and obstacles. Put the basic concept of a mobile robot in effect. Using the Fischertechnik Experimental Kit, explore new methods of artificial intelligence. Only minimum skills in computing and BASIC are required. Sample experiments are included. Light barrier radar, exposure meter, computer eye, temperature sensor, welding robot, turtle with sensor head, plus many more experiments available when used with other Fischertechnik Kits.

RW 30573 Computing Experimental Kit (With Interface, Power Pack) Specify Interface (APPLE-IBM) $389.95

Fischertechnik Building Kit
RW 30140 Start Motors & Gears $ 74.95
RW 30141 Start 100 kit $ 69.95
RW 30142 Start 200 kit $ 99.95
RW 30226 Start Electromechanical $149.95
RW 30658 Pneumatics $159.95

Service sets
RW 30185 Motor Service Set $34.95
RW 30187 Mini Motor Service Set $34.95
RW 30291 Hydraulic Cylinders $19.95
RW 30293 Power Block: Rechargeable $35.95

Robot World carries the complete line of Fischertechnik products. Please call us for technical assistance or pricing information for kits not listed.

Robot World Highly Recommends
Three Special Learning Manuals for the Classroom
Available from Fischertechnik

PHYSICS
Physics applications of the Fischertechnik robotics kit

I. Introductory Activities
1. Structural design
2. The light bulb
3. The switch
4. The potentiometer
5. Motor operation
6. The gear box
7. Worm gear and bearing
8. The rack and pinion
9. The electromagnet
10. Light sensors
11. Temperature sensor

II. Physics activities
1. The computerized astrolab
2. Modelling an intersection with traffic lights
3. The graphic panel
4. Extension to the aerial rotor
5. The tower of Hanoi
6. Model of automatic focusing
7. Robotics

ELECTRONICS
Electronics applications of the Fischertechnik robotics kit

I. Introduction to the Fischertechnik robotics kit
1. Computer interfacing
2. Direct control of output devices
3. Program control of input/output devices

II. Digital input
4. Switches as sensing devices

III. Analog input
5. Fixed resistance
6. Variable resistance

Teacher's Guide $30.00

7. Light transducers
8. Temperature transducers

IV. Circuit logic gates
9. Introduction to logic gates
10. Logic gates

V. Electronic applications
11. Using potentiometers to control rotatory antennas
12. Sensing electromagnetic waves
13. Measuring weather conditions

GENERAL SCIENCE
General Science application computer literacy of the Fischertechnik robotics kit

I. Using the Fischertechnik robotics kit
1. Direct control of output devices
2. Program control of input/output devices

Student Workbooks $19.95

II. Physical science applications
3. Electromagnetism

III. Computer science applications
4. Applications of FOR/NEXT statements
5. Applications of IF/THEN statements
6. Flowcharts & Conditional statements
7. Reprogramming the lift

IV. Problem solving applications
8. Remotely controlled robots
9. Tower of Hanoi

V. Robotics applications
10. What can people do better than robots (and vice versa)
RB5X

RB5X: The Intelligent Robot is the world's first mass-produced, programmable robot. With its on-board microprocessor, the RB5X may be programmed with any computer using RS-232 serial interface compatible with such computers as the Tandy, IBM, Apple IIe and Commodore 64. Extra card slots are built-in to hold additional electronic option, and body cut-outs allow you to add future hardware options, which you develop yourself or buy from Robot World.

The RB5X has a complete modular system for introductory and advanced robotic education. A powerful general purpose teaching and learning tool. The RB5X Robot with Savy is a revolutionary new instructional aid that can be used effectively in most subject areas with students of all ability levels.

The RB5X comes ready to perform many tasks, but must learn how these jobs are to be done. The robot must be taught to speak, to move, to sense objects in its environment and how to be a well behaved member of the school community.

<table>
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<th>Option</th>
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<td>RW 1000-RB Basic Unit</td>
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<tr>
<td>RW 1000A-RB With Voice Synthesis</td>
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</table>

RB5X Options

Call Robot World for Pricing of Options
(716) 427-0650

RB Arm: Can carry an object weighing up to 16 ounces. The arm can be programmed using a controller and arm training software.

Voice/Sound Synthesis Package: Enables the Robot to make music and a variety of sound effects.

Environmental Sensor Kit: Contains light, temperature, and sound sensor.

Extended Memory Card: Adds 16K of memory to RB5X.

Power Pack: Allows RB to run up to 10 hours.

RB5X Specifications

Dimensions: 13" in diameter 23" high

Weight: 24 lbs.

Speed: Approximately 4" per second

Sensor Inputs: 8 bumper panels around perimeter

1 photodiode under carriage

1 sonar transducer
ROBOT LAB

A complete RB5X mounted on a horizontal board allows for teaching robotic systems. ROBOT LAB is a complete RB5X Robot in a lab format.

RW 1500 Complete Robot Lab with Voice Synthesis $1,975.00

EPROM MODULE SOCKETS AND SWITCH

The RB5X interface panel contains a socket for pre-programmed modules. The following modules are available:

- Spin the Robot $21.95
- Arm trainer $27.95
- Pattern Programmer $21.95
- Bumper Music $21.95
- Daycare Intruder Alarm $27.95
- Voice/Sound Demo $27.95
- Carnival Demo $27.95
- Nursery Rhymes $27.95
- Hop To It $27.95
- Math Wiz $27.95
- Record Time $27.95
- Simon Robot $27.95
- Utility Program $27.95
- Drive It $27.95
- RB5X Curriculum
- RW 2008 Teachers Guide - Lower Level $54.95
- RW 20010 Instructors Guide - Upper Level $49.95

RTX ROBOT ARM

The personal Robot Arm goes to work. RTX is a low-cost, high performance robot arm which opens up new robotics applications in: Light Industrial, Laboratory, Health Care, Education, Machine Vision, and Voice Systems.

The RTX is an enhanced SCARA arm (Selective Compliance Assembly Robot Arm) with seven degrees of freedom and a large working envelope of 33 cu. ft.

The 24V DC motors, with incremental optical encoder feedback, are controlled by a P.I.D. Control algorithm and trapezoidal velocity profiling, controlled by two INTEL 8031 microcontrollers.

The RTX is controlled from an IBM PC via a RS-232C serial link running at 9600 baud (variable). The RTX can handle payloads up to 10 pounds. The RTX can be programmed in BASIC, PASCAL, FORTH and other languages.

PLEASE CALL ROBOT WORLD
FOR MORE INFORMATION ON THE RTX ROBOT ARM.
GEMINI is the most sophisticated personal robot today for the school robot lab, hobbies, robotic research and more. Gemini features an advanced 65 C02 based control system. Altogether there are three microprocessors. One is the main control computer, a second is used to control the sound functions (voice I/O, sound generation, etc.), and the third is the navigation controlled computer.

GEMINI navigation system includes nine ultrasonic sensors and an infrared detector for beacon location. Gemini will seek out its charging base when its batteries run low. In addition there is an LCD read out and a wireless keyboard for programming. Gemini can be programmed to respond to voice commands, the on-board life menu software allows Gemini to be a completely autonomous robot which can interact with people and its environment. Gemini will make a welcome addition to the family. Gemini is available in kit form or completely assembled.

CALL ROBOT WORLD FOR AVAILABILITY AND PRICE INFORMATION (716) 427-8050
SAM
The Robot Dog: A Robot World Design

This friendly robot dog understands 10 English commands including: walk, bark, sit, follow, dance, and others. The dog comes complete with facial animation. Sam is a sophisticated watch dog when left in the security mode. Available Winter 1990. Call for more information and availability.

ROBOT ARM II
MODEL 90

The ROBOT ARM II Model 90 is a 5 axis robot arm that motivates students to think, plan and experiment. The Robot Arm II comes ready to operate with two quickshot joysticks.

RW RA90 $99.95

ROBOT ARM II
MODEL 90 with Computer Interface

Ease of installation and operation makes this robot arm a favorite of educators. Works with the Apple II+, Ile, and II gs. Comes complete with software, interface board and robot arm. Using the interface, a student will program simple robot sequences from a user friendly software package and a menu driven program. The program allows both manual operation from the keyboard and automatic operation sequences which may be saved to disk. Grades 3-12.

RW RA90C IBM Interface For Robot Arm II $349.95
Available Spring 1990
ROBOT PHONE

A durable and functional telephone for the robot enthusiast. This FCC approved telephone with a built in buzzer is made with a durable plastic construction. The robot's eyes flash when dialling.

Features: Tone or pulse switchable and convex sensor dial key pad with auto redial.

Ages: 10 to Adult

RW SR-006 PB (black)
RW SR-006 PR (red) $54.95

SONICA SENSORBEAM KEYFINDER
(The Intelligent Keyfinder)

Never lose your keys again! The SONICA SENSORBEAM KEYFINDER has a range of up to 50 feet. If you misplace your key chain, simply press on the transmitter button and hold. The key chain will respond with a series of beeps and pauses to enable you to locate your key chain. Batteries included.

RW-Sonica $24.95

TECHFORCE
Computerized Strategy: Action Robot Set

Maximum power - Ultimate control. Battle your computerized robot(s) against your opponents robot(s). Maneuver into position and fire invazer light cannons to stun the enemy. Techforce basic sets include two computer command consoles which can each control up to 8 robots at a time. Techforce is the computerized robot game of the future. Through exercise of navigation, strategy and programming, the techforce controller will develop skills in robotic programming and artificial intelligence.

RW TECH $274.95
SPACE WINGS KIT

Featured in Popular Science's "Best of What's New 1988". The SPACE WINGS KIT demonstrates the amazing properties of Shape Memory Alloys. Sleek silver wings move continuously using 5 cm of BioMetal Shape Memory Alloy wire. BioMetal actually contracts in length when electronically activated.

Space Wings assembles in under an hour. Includes circuit board, parts, and complete instructions. Requires a soldering iron, solder, Phillips screwdriver, wire cutters and adapter (like Radio Shack 273-1435).

RW SW $24.00

GAMMA DOTS

Hi-tech jewelry for the hi-tech person. Touch sensitive pins and earrings which light up randomly for 30 seconds. They run on two watch batteries, which can be replaced. GAMMA DOTS can be worn on all clothing. It's a great gift for people of all ages.

Pins RW GAMM $14.95
Earring RW GAMMA $24.95/Pair
# ORDER FORM

1225 Jefferson Road
Rochester, NY 14625

**Ordered by:** (Please print)

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<td>Address</td>
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<tr>
<td>City</td>
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**Nobody Home During The Day?** Have your order shipped direct to you at your work address. Use "Ship to" space below.

Daytime telephone number
(in case we have a question about your order): __________

**Ship to:** (Please print)

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<td>Up to $30.00</td>
</tr>
<tr>
<td>$30.00 - $75.00</td>
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<tr>
<td>$75.00 - $150.00</td>
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<tr>
<td>$150.00 - $300.00</td>
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<tr>
<td>$300.00 - $500.00</td>
</tr>
<tr>
<td>$500.00 and above</td>
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**EXCEPTIONS:** RBX, GEMINI, RTX — SHIPPED BY WEIGHT — CALL FOR SHIPPING CHARGES

**Total for Merchandise**

<table>
<thead>
<tr>
<th>Shipping &amp; Handling (see chart at left)</th>
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</thead>
<tbody>
<tr>
<td>New York State residents add 7% sales tax</td>
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</table>

**TOTAL AMOUNT**

**Method of Payment:**

☐ Check/Money Order ☐ VISA ☐ MasterCard

Account No. (all digits) __________ Expiration date __________

Signature (Required if using credit card) __________

**SAVE TIME — PHONE 716-427-8050**

**CREDIT CARD ORDERS SHIPPED THE SAME DAY**

* Tax exempt organizations please enclose exempt form
Robot World Presents
A Personal Robot for Everyday Tasks
The GENESIS I by Droid Systems Inc.

GENESIS I combines a distinct personality with the intelligence and strength to perform a wide range of tasks in the home or business environment. Standing nearly four feet tall, the GENESIS I includes a built-in IBM PC. The robot is easy to program and learns by example.

The Droid Systems GENESIS I is the first general purpose mobile robot to have both the electronic and physical capability to be used in the real world. The Genesis is manufactured in durable aluminum alloy with an outer shell of rugged vacuum formed plastic. GENESIS I can reach from the ground to a height of 2 meters with a maximum lift capability of 7 kilograms (12 lbs.). The electronic systems of the robot include a distributed multiprocessing system for motion control and sensors. All of the electronics on the GENESIS are networked using the DROID bus to an IBM PC compatible computer used as the host system.

AN OPEN ARCHITECTURE PHILOSOPHY

The philosophy of the Genesis is that open architecture will play a key role in the expansion of the robot’s capabilities. All systems on the robot are accessible to the developer. The accessibility of the robot systems allows the addition of specialized accessories such as speech synthesis, speech recognition, custom mechanical devices and additional sensors. Robot World will be introducing more options for the robot.

GENESIS I SPECIFICATIONS

- **TOTAL WEIGHT**: 70 kg
- **TOTAL HEIGHT**: 1.3 m
- **ARM LENGTH**: 90 cm
- **ARM LOAD**: 7 kg
- **POWER SUPPLY**: 2.12V batt, 40-100 amp-hours
- **RUN TIME**: 4-12 hours

<table>
<thead>
<tr>
<th>Axis</th>
<th>Resolution</th>
<th>Speed</th>
<th>Capacity</th>
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</thead>
<tbody>
<tr>
<td>WHEELS</td>
<td>0.1 mm</td>
<td>0.7 m/s</td>
<td>20 Degree Slope</td>
</tr>
<tr>
<td>CHEST Rot</td>
<td>1/2 Degree</td>
<td>45 Deg/s</td>
<td>2 Arms w/loads</td>
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<tr>
<td>HEAD Rot</td>
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<td>45 Deg/s</td>
<td>Head w/sensors</td>
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<tr>
<td>SHOULDER</td>
<td>1/4 Degree</td>
<td>35 Deg/s</td>
<td>Arm w/load</td>
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<tr>
<td>ELBOW</td>
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<td>40 Deg/s</td>
<td>Hand w/load</td>
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<tr>
<td>WRIST BEND</td>
<td>1/4 Degree</td>
<td>40 Deg/s</td>
<td>Hand w/load</td>
</tr>
<tr>
<td>WRIST Rot</td>
<td>1/4 Degree</td>
<td>70 Deg/s</td>
<td>Grip w/load</td>
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<tr>
<td>GRIP</td>
<td>0.1 mm</td>
<td>2.5 s/0-11 cm</td>
<td>7 kg load</td>
</tr>
</tbody>
</table>

(A11 cm Opening)

AVAILABLE FEBRUARY 1990
CALL ROBOT WORLD
716-427-8050
FOR PRICES AND AVAILABILITY

Robot World
Cohoe’s Commons
1225 Jefferson Road
Rochester, NY 14623