

ROBOTIC WORKSHOP PLUS

MB330

60 PROJECTS AND EXPERIMENTS IN ROBOTICS, ENGINEERING, SCIENCE (INCLUDING 10 SUPER PROJECTS)

The MB330 has the same interface unit, technical documentation and operating software as the smaller MB230 WORKSHOP but contains more robotic components and 60 sample projects and experiments.

- 60 Robotic and Scientific projects (Including 10 Super projects)
- Over 90 components
- Easy snap together Capsela® parts
- Digital Storage Oscilloscope
- Digital Voltmeter
- Infrared Transmitter and Receiver
- R.O.S. (Robotic Operating Software)
- 25 additional "BASIC" commands
- Disk (with R.O.S. and programs)
- Speed/direction control of 3 motors at once
- 3 motors included
- 10 foot remote operation cable
- Full instruction manual

Coming Soon For:
Commodore 64/128
Atari (8 BIT)
Apple 2+, 2E
Amiga
Atari ST
IBM

INTERFACE UNIT

B100

The B100 is the heart of the system. It plugs into your home or personal computer and connects to lights, motors, sensors, and other external devices. The B100 is included in both of the ROBOTIC WORKSHOPS but may be purchased separately. A 10 foot control cable with operating software and documentation are included.



Available on:	
Commodore 64/128	\$89.95
Atari (8 BIT)	\$99.95
Apple 2+, 2E	August 1986
Amiga	Fall 1986
Atari ST	Fall 1986
IBM	Fall 1986

ADD ON MODULES (MB230 WORKSHOP or MB330 WORKSHOP PLUS required)

We're designing several ADD ON MODULES to help you explore more deeply the world of programmable control, electromechanical devices and electronic instruments. Here are some of the products that are coming soon:

BE100-BATTERY ELIMINATOR MODULE

Eliminate the need for batteries in your interface unit and learn about power supplies and D.C. circuits.

M100-MULTISCOPE ENHANCEMENT MODULE

This accessory will enhance the DIGITAL STORAGE OSCILLOSCOPE that is contained in both workshops.

S100-SPEECH DIGITIZATION ENHANCEMENT MODULE

More on how to digitize speech and sound effects and how to use them in your own programs.

T100-THERMODYNAMICS MODULE

Learn about the fundamental principles of thermodynamics such as heat, temperature, pressure, and thermal energy.

SR100- SWITCHING AND RELAY MODULE

Control lights and appliances in your own home. Find a real use for your computer.

IRC 100-INFRARED REMOTE CONTROL MODULE

Activate your robotic projects by remote control and talk to your remote control TV or VCR.

R101-ROBOTICS MODULE #1

R102-ROBOTICS MODULE #2

Explore the robotics world, including robotic arms.

AND MORE

We have ADDITIONAL INFORMATION and DATA SHEETS on products that are in production. We also have a CATALOG of additional ROBOTIC PARTS and ACCESSORIES for use with your ROBOTIC WORKSHOP.

If you cannot find our products at your local dealer, you can order direct by using your VISA or MASTERCARD. Please add \$3.50 to cover postage and handling.

To order or for more information please write:

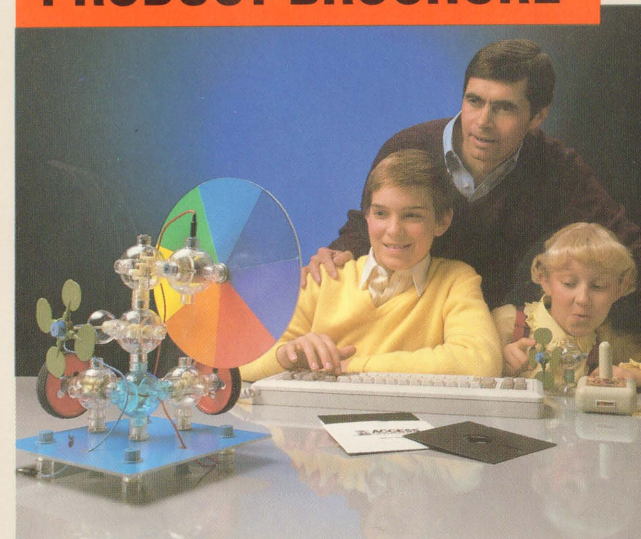
ACCESS SOFTWARE INCORPORATED
2561 South 1560 West
Suite A
Woods Cross, Utah 84087

or CALL TOLL FREE

1-800-824-2549

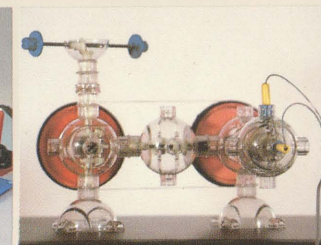
Multibotics

PRODUCT BROCHURE



Welcome to the world of MULTIBOTICS, the robotic and scientific workshop of the future.

Our products connect to your home or personal computer and include hundreds of projects and experiments that show how computers and devices in the real world interact.



Designed and manufactured by
MULTIBOTICS INC.

Distributed exclusively by
ACCESS
Software Incorporated

WHAT IS MULTIBOTICS?

The concept of MULTIBOTICS was developed by Steven Witzel, electronic engineer and now president of Multibotics, Inc. and Bruce Carver, mechanical engineer, programmer, and president of Access Software, Inc. Their goal was to create an environment where people could play with and learn about computers and how computers are used all around us everyday to control devices or equipment or to provide us with valuable information. When your car's digital speedometer says you're going too fast or your microwave shuts off automatically when the turkey's done, there is a computer at work. Multibotic projects explain and demonstrate how the computer performs such tasks.

The Multibotics product line is designed around this creative environment which we call the **ROBOTIC WORKSHOP**. Not all projects or experiments are robotic in nature, but **ROBOTICS** best describes the connection of the computer to mechanical and electrical devices in the real world.

There are two basic workshops, the **MB230 WORKSHOP** and the **MB330 WORKSHOP PLUS**. Each provides everything you'll need (except your computer) to build hundreds of projects using motors, gears, sensors, and other components.

FOR THE BEGINNER:

You'll start by building sample projects that we've designed for you. A knowledge of programming is **not** required to perform these projects. We've included full instructions and operating software. Each is explained in clear, easy to understand language and demonstrates basic scientific and engineering principles that we see around us everyday.

FOR THE BASIC PROGRAMMER:

When you're ready to design and build your own projects we show you how. We've added **25 new commands** to the "BASIC" programming language. With a **very minimal** understanding of "BASIC" programming, you'll soon be building and modifying on your own, and that's when the real creative fun begins.

As you let your imagination soar, you'll find that we've just scratched the surface with the 50 or 100 sample projects. If you need more parts such as sensors, relays, motors, or construction components, we have them or can get them for you. We're also designing several **"ADD ON MODULES"** which will provide a complete introduction into more complex areas such as switching relays, instrumentation, thermodynamics, digital electronics or advanced robotics and robotic arms.

FOR THE ADVANCED PROGRAMMER AND HOBBYIST:

For the serious user we have included technical specs, schematics, machine language routines and advanced commands and techniques.

We believe the **MULTIBOTICS** concept is simple, yet very flexible and powerful. It is so easy to use that most 10 year old children can perform the sample projects without assistance. It is fun, entertaining, educational and creative, and is perfect for children, parents, educators, hobbyists, inventors, scientists, or engineers.

Multibotics is the **ROBOTIC and SCIENTIFIC WORKSHOP** of the future.

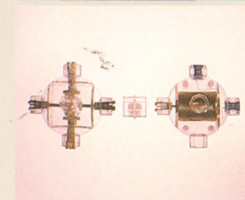
ROBOTIC WORKSHOP

MB230

50 PROJECTS AND EXPERIMENTS IN ROBOTICS, ENGINEERING, SCIENCE

The MB230 is a complete Robotic and Scientific Workshop which contains interface unit, motors, sensors, construction components, software and instructions for 50 projects and experiments, including:

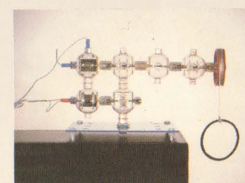
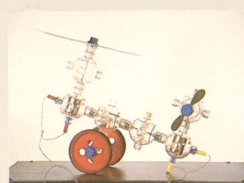
- MOTORS, Gears and Generators
- Velocity and Motion
- Motorized Mechanical ROBOTICS
- INFRARED SENSORS
- Digital Storage OSCILLOSCOPE
- Digital VOLT METER
- SPEECH Digitation and Playback
- Electronic Counting and Timing
- Computer Controlled Models
- CARS, Cranes, ROBOTS
- R.O.S. Operating Software



Parts just snap together



Over 50 components



50 example projects

50 PROJECTS AND EXPERIMENTS HERE ARE SOME EXAMPLES

MOTORIZED MECHANICAL ROBOTICS

Build a simple plotter. Learn how computers are used in industry to help in design and manufacturing.

MOTORS AND GEARS

Learn how gears affect torque. Actually **measure** increases in torque. Learn how motor speed can be varied and precisely controlled.

INFRARED SENSORS

Build a sophisticated counting device. Find out how you can control the "Invisible Beam" and how to detect, measure, count, and track objects.

LIGHT AND COLOR

Construct the amazing "BENHAM DISK" and watch black and white lines produce color.

SOUND

Actually record and playback digitized audio signals. See how analog signals can be changed to digital information. Save digitized recordings to your disk.

FEEDBACK SYSTEMS

Feedback is one of the most important electronic and mechanical principles. Build projects which will demonstrate this important principle.

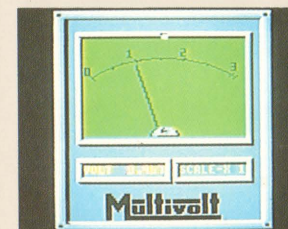
GENERATORS

Motors can be used to generate electricity. How much can they produce? Find out with our fascinating generator experiments.

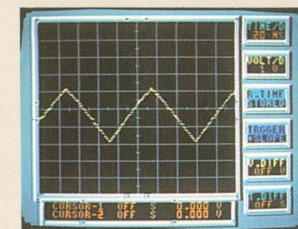
TEST EQUIPMENT

Learn how to use a **D.C. Voltmeter** and **Oscilloscope**. These computerized "Lab" instruments can actually "troubleshoot" electronic circuits.

AND MUCH MORE



Voltmeter



Oscilloscope

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Atari (8 BIT)	\$159.95
Apple 2+, 2E	August 1986
Amiga	Fall 1986
Atari ST	Fall 1986
IBM	Fall 1986