

Robot Kits for Experimentation

The biologically inspired robots **varikabi**, **varikabo** and **variAnt** behave like little living creatures. With a patented combination of light sensors, they can identify markings on the floor, objects, obstacles or shadows by means of the slightest contrast in brightness.

varikabi's and varikabo's simple analog control circuits function without a micro-controller and programming.

From the soldering or plug-in process to the initial start-up, all of the necessary steps are included in the assembly instructions and are accompanied by numerous illustrations.

The experiment manual shows the configuration of the various functions and explains the functional principle of the electric circuits and the programs.

The kits offer long-lasting fun and variation!

Kits, videos, and further information at
www.variobot.com



Have Fun Discovering and Comprehending

Making the world of electronics easy to understand and fun to explore: That's the **VARIOBOT** mission.

VARIOBOT-Robot Kits

- offer students a simple and exciting gateway to electronics and robotics.
- enhance the practical part of technical lessons and promote haptic workmanship skills.
- amaze kids and teens as well as adults.
- make it easier to grasp complex operations intuitively as well as to effectively and easily implement them.
- align functionality and aesthetics through much attention to detail.

Have fun tinkering and experimenting!

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VARIOBOT®

DISCOVER MECHATRONICS



Bionic Robot Kits with Amazing Abilities

- › for beginners and experts
- › plug-in, solder or program
- › patented sensor system

varikabi — Plug-in Kit

Building an autonomous robot was never easier! varikabi's "eyes" are two light sensors and his "brain cells" two transistors. They control the speed of his leg motors in regard to his surroundings. Just plug the electronic parts and cables into varikabi's head and your mini-robot comes to life! The variable control circuits enable 12 amazing behaviors.



Using cable ties and the color of your choice, build one of seven cute robot animals.

AGE

8+

ASSEMBLY

1h

PARTS

30

varikabi and varikabo can do many things

- skillfully avoid objects
- follow dark or light lines
- follow or push objects
- search for, chase or circle around light
- follow or circle around the shadow of your hand
- avoid light or dark areas



varikabo — Soldering Kit

varikabo also has 12 adjustable functions that are literally at your fingertips when holding it: easy-to-access selector switch and swivel sensors! With the switch you choose the speed or brake mode. And by exchanging the left and right sensors, you decide whether it will follow light or shadows.

varikabo's eye-LEDs show you how he feels: If he's in a hurry or on the run, they're red. If he feels comfortable and sits still (for example, under your hand), then they're blue.

AGE

10+

ASSEMBLY

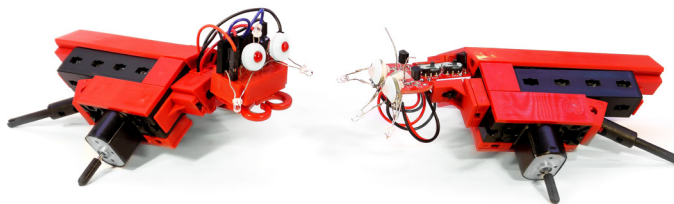
2-4h

PARTS

36

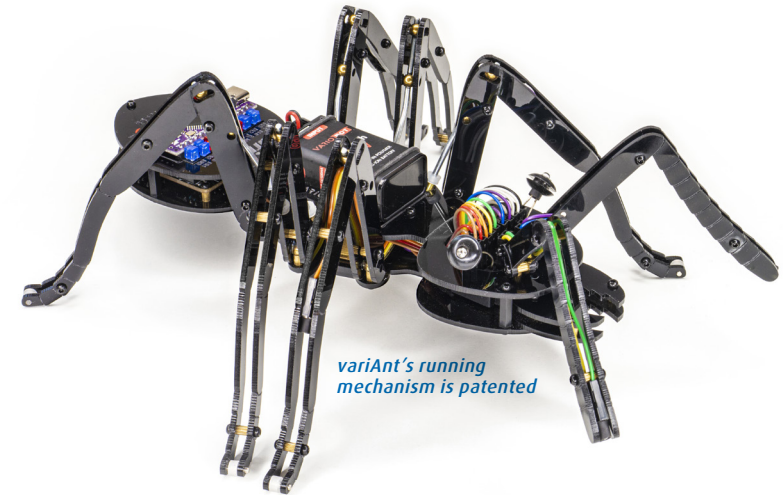
varikabi^{FT} and varikabo^{FT}

As a special edition, we offer varikabi and varikabo as high-quality Fischertechnik models. These are built with original Fischertechnik bricks instead of cable ties.



variAnt — Programmable Kit

variAnt walks and acts much like its natural exemplar. With its innovative running mechanism and 12 analog sensors, this robot ant investigates its surroundings. The control unit is equipped with a Nano Board, offering a wide range of connectivity and expansion options.



variAnt's running mechanism is patented

Once variAnt is built, the pre-assembled and upgradable Code Modules enable quick and easy access to the Arduino Programming.

AGE

14+

ASSEMBLY

6-8h

PARTS

345

Features of variAnt

- 24 high-quality acrylic parts
- 12 variable environmental sensors
- 2 reed switches to count the steps
- 2 programmable push buttons
- 8 freely utilizable digital I/Os
- 15 pluggable status LEDs

