



build a fan

The fan model will introduce you to the main programming notions and the innovative MINI 2.0 controller. It can also help you test different variables and programs created through the KEIRO™ software.

- What inputs and outputs are.
- How to manually program a robot.



build a robo

Build the Robo model and make use of its dual capability! By using programmable sensors, the robot can distinguish between black and white colours to follow a line or detect objects in its path.

- How infrared sensors work.
- What logic gates and WHILE statements are.



build a hexapod

Experiment with leg-type movement instead of wheels using this exciting hexapod model! Set the infrared sensors on either side to trigger when an obstacle is near, so that the robot can avoid it, by making use of its legs.

- How to work with leg-type motion.
- What an IF statement is.



build a twister

This amazing twister robot imitates real-life robotic arms, which are often used in industrial settings. Program the model to work with precision and move objects around using infrared sensing technology.

- How to work with stationary robots.
- What REPEAT UNTIL statement is.

DISCOVERING STEM

Science • Technology • Engineering • Mathematics

ROBOTICS

DEVELOPED FOR TEACHING ROBOTICS PROGRAMMING AT PRIMARY AND SECONDARY EDUCATION

MINI
ERP 2.0
Bluetooth

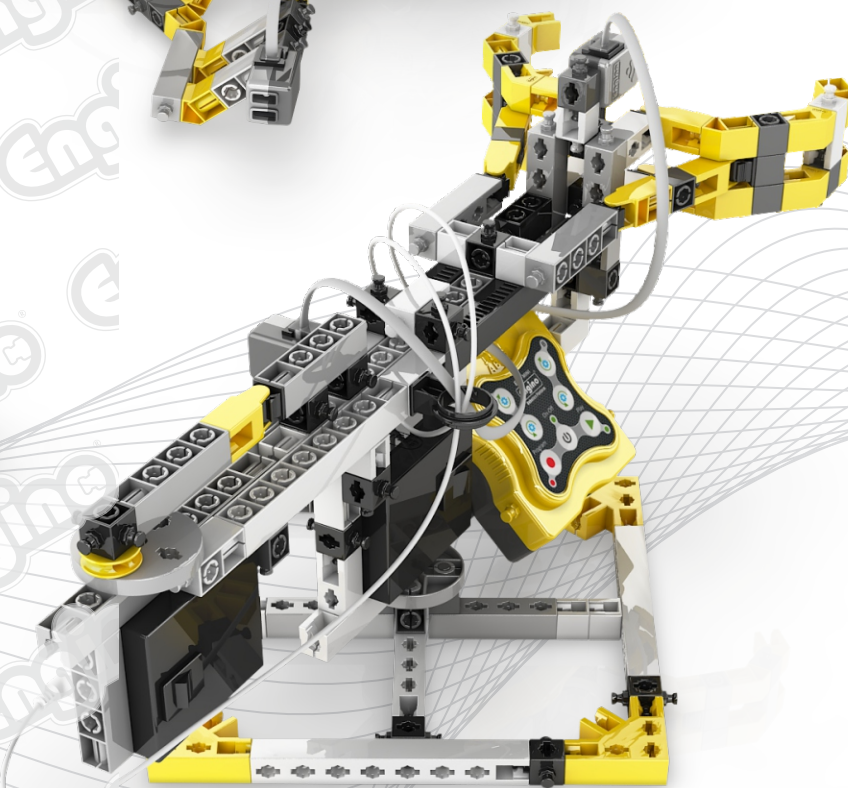
The Engino® Robotics Platform (ERP) is specially designed for Primary and Secondary school children and even for robotic hobbyists! It takes into account the latest technological trends and the most modern pedagogical principles of learning. The set consists of all the necessary parts for building and programming 8 robots. These include the ERP mini 2.0 controller (Bluetooth) with RJ cables, two InfraRed sensors, two motors and a mini USB cable! You can find easy-to-follow printed instructions for one of these robots. The booklet provides detailed explanations of the different scientific principles applied and incorporates innovative activities for hands-on learning, along with a user manual with programming examples to get you started!

8 pages of theory and amazing facts!

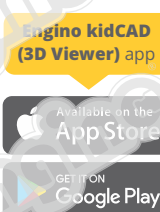
22 pages of user manual!

4 pages of experimental activities!

3 pages of step by step instructions!



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Product Code: **STEM60**
Edition 3.0



8 models to build

9+

master engineers

7 online instructions

1 printed instructions

Discovering **STEM**

The purpose of STEM education - Science, Technology, Engineering and Mathematics - is to provide students with the necessary skills, knowledge and experience in order to cope with the technological challenges of the future. Modern pedagogical theories suggest that the study of engineering should be incorporated in all other subjects, starting from elementary level. DISCOVERING STEM series, offers a practical solution for facing all these educational issues, aiding the teacher to engage students in STEM disciplines in a fun, exciting and interesting way! The educational packages are also ideal as a home learning tool! The series covers a broad area of subjects: Mechanics and Simple machines, Structures, Newton's Laws, Renewable Energy and even Programmable Robotics.

Brand **AWARDS:**



More models online

- A** Use your PC or tablet and go to the following link for more models:

www.engineo.com/instructions/stem60

- B** Download the app to discover step-by-step instructions in 3D view!

Engineo kidCAD (3D Viewer) app:



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