

6-AXIS ROBOT | INDUSTRY AND HIGHER EDUCATION

6-AXIS ROBOT

Discover the world of industrial robotics

The 6-axis robot from fischertechnik enables learners to get to grips with industrial robotics and prepare themselves practically for the demands of the modern working world. The realistic six-axis robot is supplied fully assembled. It can be equipped with both a vacuum suction gripper and a gripper and can be converted quickly and easily. Both end effectors are supplied. Three of the six axes are controlled by encoder motors, three others by digital servos. Programming is carried out using either Python or ROBO Pro Coding. A teach-in interface in ROBO Pro Coding also makes it easy to train different positions. The TXT 4.0 Controller serves as the robot controller. This hands-on experience makes it possible not only to acquire theoretical knowledge, but also to develop practical skills. Through the accompanying didactic material and interaction with our models, learners develop not only technical know-how but also analytical thinking, problem-solving skills and practical teamwork. A 9V power supply (power supply unit 505287) is also required.

LEARNING OBJECTIVES

- Automation
- Coding of a multi-axis robot
- Positioning via 6-axes
- Use of servomotors
- Factory simulation

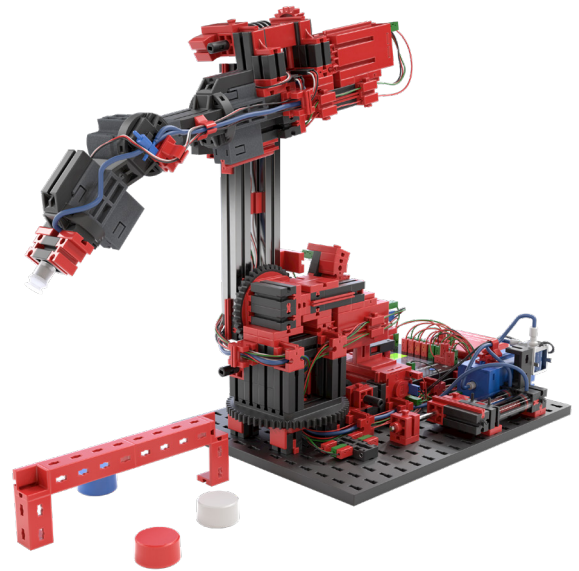
6-Axis Robot Facts

Specifications

- TXT 4.0 Controller
- 3x Encoder motor
- 3x Digital servo
- 2x End effector (gripper / vacuum suction pad)
 - 1x compressor
 - 1x solenoid valve
 - 4x pneumatic cylinders (2x cylinder 60 with spring, 2x cylinder 45)
- 9V Power supply (additionally required)

Software

- Python
- ROBO Pro Coding
- Teach-in interface in ROBO Pro Coding



Item No.	571894
EAN	4048962516548
Model dim. (WxHxD)	258x320x186 mm
Model weight on wooden panel	approx. 2.300 g

About fischertechnik

Simulation models for industry and universities

The production of tomorrow is the subject of research, industry and academia. It describes the transformation to agility, customer orientation, artificial intelligence and Industry 4.0. This creates a multitude of challenges that are influenced by technological developments, social changes and global trends. Overcoming these challenges requires a holistic and proactive approach from companies that invest in innovation and employee training in order to successfully shape the production of tomorrow and be globally competitive.

Our approach is to understand on a small scale before implementing on a large scale. With fischertechnik simulation models, you prepare yourself for the future. They create sustainable learning experiences in vocational training and studies, overcome the hurdles of seemingly complex transformations and conduct research into future topics.

fischertechnik simulation models offer the opportunity to realistically represent complex, technical production systems and are the perfect basis for sustainable learning experiences in a safe and action-oriented environment. Further information at www.fischertechnik.de/en/industry-and-universities.

