

fischertechnik



Toy catalog 2024

Understanding technology
through play



OVERVIEW

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JUNIOR 5+

The JUNIOR line enables the first contact with technology and how it works. The focus here is on learning through play and constructing with rapid success.

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GAMES 7+

Interactive fun for the whole family with fischertechnik GAMES including game instructions!

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ADVANCED 7+

The ADVANCED line enables seven-year-olds to expand their knowledge and skills. The models are realistically designed, simple to operate and particularly robust in construction - for a long-lasting play experience.

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CHAIN REACTIONS 7+

All chain reactions can be combined with each other and expanded with everyday objects. There are countless possibilities, from a single model to a combination model of all three title models.

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MARBLE RUNS 7+

The marbles whizz down the action-packed courses along the flex tracks. There is something for every taste here and all marble runs can be combined with each other.

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MARBLE RUNS 7+

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PROFI 8+

The PROFIL line offers tomorrow's technicians construction kits that are very close to reality with topics such as mechanics, statics, pneumatics, electrical engineering and renewable energies.

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ROBOTICS 5+

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PLUS +

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Symbols



Age recommendation



Listed components included



Number of pieces



Number of models

Didactic accompanying material available online





FIT FOR FUTURE

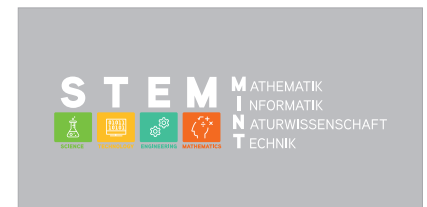
with fischertechnik

The promotion of future skills and the development of a solid basic understanding of technology in children and young people is the focus at fischertechnik. The innovative construction kits not only offer hours of fun, but also prepare young minds for the challenges of the future.

The fischertechnik building blocks enable creative development and the playful experience of construction and assembly not only develops manual dexterity, but also an understanding of the most important technology topics. This builds a bridge between fun and education.

The children are encouraged to be creative, take on challenges and find innovative solutions. At the same time, communication skills are developed through play. The joint projects make it possible to exchange ideas and learn from each other.

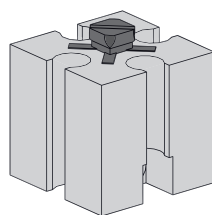
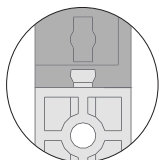
These future skills are crucial for navigating and succeeding in our constantly changing world.



The fischertechnik building block

STABILITY

The pin and groove joint creates a strong connection between the building blocks.



VERSATILITY

Allows the construction of additional building blocks on all six sides.

CREATIVITY

There are endless creative opportunities for creations.







JUNIOR

The fun of playing with fischertechnik starts at the age of five. The JUNIOR line enables the first first contact with technology and how it works. Learning through play and constructing with quick success are the focus here.

Engineer

Engineer, the larger of the two starter kits, contains twelve different vehicles, airplanes and cranes. The child-friendly building instructions make it easy to get started with the fischertechnik system. The included solar rotor and the option of spraying water with the pneumatic cylinder, combined with lots of fun, allow young explorers to gain a first insight into the world of technology. The set includes the fischertechnik play figure.



-  from 5 years
-  12  153
-  solar rotor, pneumatic cylinder, play figure

Item No.	564066
EAN	4048962458534
Dim. (mm)	320x80x230



Constructor

Six vehicles and two airplanes can be built with the Constructor from the diverse, colorful fischertechnik components. The age-appropriate building instructions enable quick building success and arouse interest in constructing your own creative models. At the same time, important skills such as hand-eye coordination and gross and fine motor skills are encouraged. Together with the included play figure, children can experience exciting adventures.



-  from 5 years
-  8  68
-  play figure

Item No.	564065
EAN	4048962458527
Dim. (mm)	280x65x180



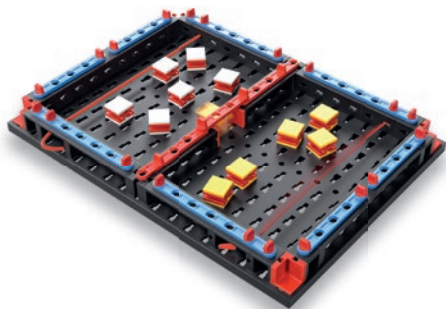


GAMES

Interactive fun for the whole family with fischertechnik GAMES including game instructions!

Slide Battle

Clear your own playing field before your opponent does - that sounds easy at first. But both players try to do it at the same time, of course! Stretch the rubber band, shoot the game pieces through the goal into the opponent's field and be as fast as possible... that doesn't sound so easy now, does it?



AGE from 7 years

1* 102

* Included as a game in the „Build your own game“ kit.

Item No.	569014
EAN	4048962492705
Dim. (mm)	280x65x180



Pinball

Insert the ball, tension the spring and off you go! The marble is shot onto the playing field. But be careful: It encounters various obstacles that influence its path across the field. In which number field will this path ultimately end and which players will collect the most points?



AGE from 7 years

1* 89

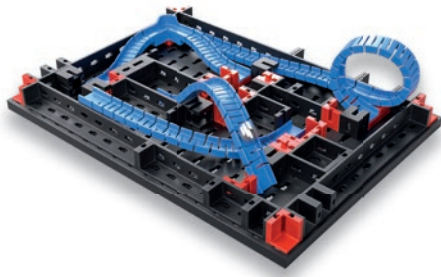
* Included as a game in the „Build your own game“ kit.

Item No.	569015
EAN	4048962492712
Dim. (mm)	280x65x180



Labyrinth

Who can prove their skill and manage to guide the marble safely through the maze? Whether alone or in a team, the aim is to balance the ball from the starting point over jumps and through the loop without it getting lost or even crashing.



AGE from 7 years



* Included as a game in the „Build your own game“ kit.

Item No.	569016
EAN	4048962492729
Dim. (mm)	280x65x180



Ping Pong Bowling

With the right combination of skill and luck, this game can be decided. First and foremost, it's all about accurate aim and a precise throw. Once the table tennis ball lands in the funnel, the ball starts on its way towards the skittles waiting to be knocked over at the end of the track.



AGE from 7 years



* Included as a game in the „Build your own game“ kit.

Item No.	569017
EAN	4048962492736
Dim. (mm)	280x65x180



Build your own game

One construction kit, eight different games - with Build your own game, there's never a dull moment! Roulette, Wheel of Fortune, Pinball & Co. can be played alone or with several people, creating lasting fun for the whole family. In addition to the assembly instructions, game instructions are also included.



AGE from 7 years



Item No.	564067
EAN	4048962458541
Dim. (mm)	320x80x230



ADVANCED

The ADVANCED line enables seven-year-olds to expand their knowledge and skills. The models are realistically designed, easy to operate and particularly robust in construction - for a long-lasting play experience.

Solar

Gain first experience with renewable energy at the age of 7. The solar rotor, a combination of solar cell and motor, is the heart of the three models and makes the propeller rotate using the power of the sun.



AGE from 7 years

3 80

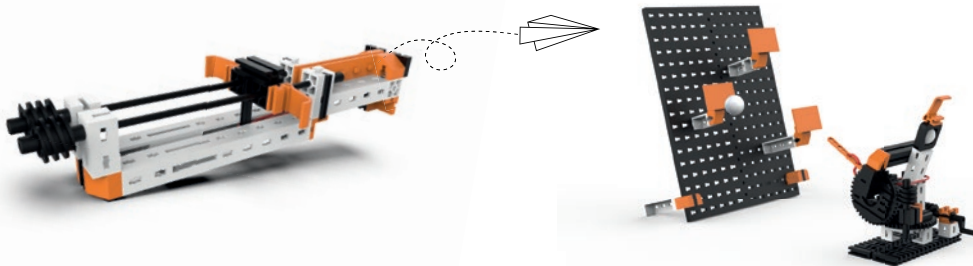
solar rotor

Item No.	544616
EAN	4048962316223
Dim. (mm)	280x65x180



Universal Pro

Fun gadgets such as the launching device for paper airplanes or the egg-painting machine teach the first basic technical principles. The variety of building blocks in **new colors** and innovative molded parts open up new design possibilities.



AGE from 7 years

10*

150*

NEW
from July

Item No.	571903
EAN	4048962516647
Dim. (mm)	320x80x230

Universal Max

The universal models of the Universal Max also shine with **new colors** and parts. Even more parts bring the realistic models such as racing cars, helicopters and forestry grapples to life in the children's room.



AGE from 7 years

10*

330*

NEW
from July

Item No.	571904
EAN	4048962516654
Dim. (mm)	465x80x320

* Illustrations and information on the number of parts and models not yet final at the time of catalog printing

Cable Car

They travel through imposing mountain ranges, connect districts and entire cities, transport people and loads: cable cars. The three realistic fischertechnik models can be attached with vacuum pads and thus bridge distances and heights in the children's room.



AGE from 7 years

3 269

2x 6m rope, vacuum pad, play figure

Item No.	564068
EAN	4048962458558
Dim. (mm)	320x80x230



Crazy Rides

Free Fall Tower, Rollover - the four models are attractions as you would expect from a funfair. Thrills and adrenaline are guaranteed for the figures included.



AGE from 8 years

4 360

braided rubber cords, gears & axles, 2x play figure

Item No.	569019
EAN	4048962492750
Dim. (mm)	465x80x320



Firefighter

Fire engines with extinguishing function! A conventional PET bottle is installed in the model and used as a water tank. An air pump is used to generate pressure in the water-filled bottle. When the valve is opened, water sprays from up to three nozzles from the connected fire hose. PET bottle not included.



AGE from 7 years

4 322

pneumatic cylinder, valves, adapter for PET bottle, play figure

Item No.	564069
EAN	4048962458565
Dim. (mm)	465x80x320



CHAIN REACTIONS

The models in the three construction kits on the topic of „chain reaction“ can each be individually expanded with everyday objects and can be combined with each other. There are countless possibilities, from the individual model to the combination model of all three title models. Creative combinations are also possible with all construction sets from the Dynamic marble run line as well as lighting the courses with the LED set (see p. 25). Users can find didactic materials on the topic of „chain reaction“ online, as well as tutorials on construction.



Funny Machines



AGE from 7 years

3

385

Gauss cannon, ball catapult

Item No.	551588
EAN	4048962354225
Dim. (mm)	465x80x320

Crazy Reactions



AGE from 8 years

3

428

ropes for cable pulls, Adapter for PET bottle (bottle not included)

Item No.	569018
EAN	4048962492743
Dim. (mm)	465x80x320

Funny Reactions



AGE from 8 years

3

682

ropes for cable car effects, ball cannon, play figure

Item No.	559890
EAN	4048962424713
Dim. (mm)	465x80x320

MARBLE RUNS

The marbles whizz down the action-packed courses on the flex-rails - sometimes through funnels and tubes, over seesaws, sometimes through sound tubes and LED lights. There is something for every taste and all Dynamic marble runs can be combined with each other.



Dynamic S

In the title model, the marble whizzes through several 90° curves, over a seesaw and then touches the sound tube - „BING“! The marbles are collected at the end of the track and then placed back at the top.

28cm



AGE from 7 years

3

141

sound tube, seesaw

Item No.	536620
EAN	4048962250275
Dim. (mm)	230x80x320

Dynamic XM

The marbles are catapulted onto the trampoline via a mechanical tensioing device, bounce off and land in the rotary funnel. To ensure that the marble lands safely in the collection container, the trampoline can be adjusted around three axes. Ideal additions: Motor Set XS, LED Set



AGE from 8 years

3

280

trampoline, rotary funnel

Item No.	544618
EAN	4048962316247
Dim. (mm)	320x80x230

Dynamic M

On their rapid way down, the marbles make the sound tubes ring. Once at the bottom, they are transported back up again by the manually operated chain elevator - motorization possible! Ideal additions: Motor Set XS, LED Set

44 cm



AGE from 7 years

4

557

rotary funnel, sound tubes, changeover switch

Item No.	533872
EAN	4048962229707
Dim. (mm)	465x80x320

Dynamic L2

With a track length of up to 4.5 m, the three different courses in this complete set offer unlimited marble run fun. The four high-speed flex tracks with raised side edges allow the marbles to travel at maximum speed around the curve. They race over the mechanical switch into different track circuits. They shoot through the changeover switch towards the rotary funnel or over a seesaw that releases a marble at the stop point. It returns to the pick-up point of the elevator via a loop and further chicanes. Once there, the marbles are transported back to the top via the motor-driven elevator. Ideal additions: LED Set, Accu Set or Power Set



AGE from 9 years



7



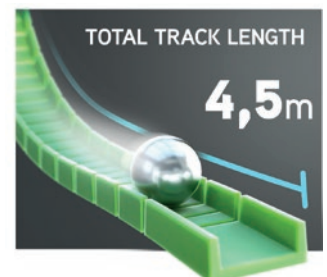
778



XS motor, high-speed flex-rails, changeover switch, rotary funnel, battery holder for 9V-block (battery not included)

Item No.	536621
EAN	4048962250282
Dim. (mm)	465x80x390

+ eLearning



Dynamic XXL

Even higher, even faster and even more action: almost one meter high, with a track length of up to 5.6 m, with numerous functions and switches. After the start, the marbles race down through the loop, over the quarter pipe, through the jump loop and through further chicanes. Completely new track layouts are possible with the flexible hoses. The track layout can be determined using turnouts with turnout levers. In addition, the marbles can be stopped at a stop point and then released again. Once at the bottom, they are transported back to the top using the chain elevator operated by the included motor. Ideal additions: Bluetooth Control Set, LED Set, Accu Set or Power Set

AGE from 9 years



3



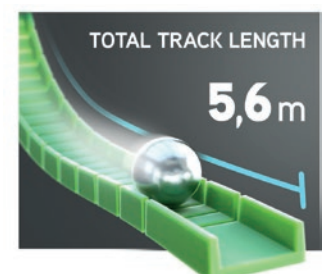
1.365



XS motor, rainbow LEDs, flex hoses, high-speed flex tracks, interchangeable points, rotary funnel, battery holder for 9V block (battery not included)

Item No.	544619
EAN	4048962316254
Dim. (mm)	465x80x390

+ eLearning



86 cm





Marble Competition

Whether as a single player or in a team of up to four people: Marble Competition offers three exciting racing models for interactive and long-lasting fun! All participants choose a marble color and start daring overtaking maneuvers over high-speed flex profiles and wide 180-degree curves. Adjustable obstacles slow down or stop the marbles and keep the race exciting right to the end. The three Add Ons below can add further features to the courses!



NEW
Add Ons
from March

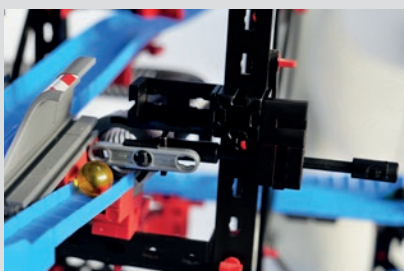
- AGE from 8 years
- 3 697
- colorful marbles for multi-player mode

Item No.	564070
EAN	4048962458572
Dim. (mm)	465x80x320



Marble Competition Battle

Four additional, adjustable chicanes make the competition even more exciting. Up to four players can actively take part in the racing action.

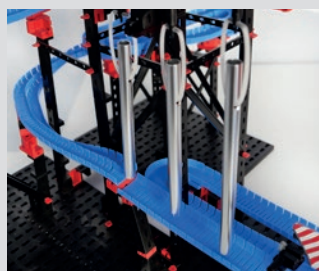


- 1*
- 75*

Item No.	571898
EAN	4048962516593
Dim. (mm)	225x65x150

Marble Competition Sound

The three sound tubes not only add great sound effects to the models but also serve as adjustable obstacles on the course.



- 1*
- 40*

Item No.	571899
EAN	4048962516609
Dim. (mm)	225x65x150

Marble Competition Booster

The marble must be shot upwards into the funnel - it can be built into the large model or played as a stand-alone model.



- 2*
- 150*

Item No.	571897
EAN	4048962516586
Dim. (mm)	320x80x230

* Illustrations and information on the number of parts and models not yet final at the time of catalog printing

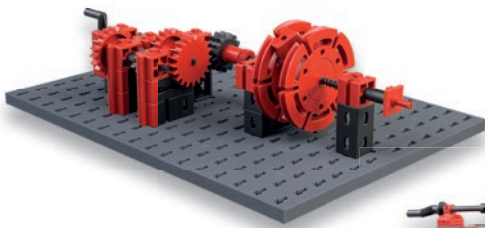


PROFI

The PROFIL line offers the technicians of tomorrow construction kits very close to reality with topics such as mechanics, statics, pneumatics, electrical engineering or renewable energies. Informative didactic information on the topics is available online.

Mechanics

How does a hammer drill work, how do you build a clock gearbox and what do you need a planetary gearbox for? These and other elementary questions from the world of mechanics are answered by the Mechanics construction kit with 12 different models. Ideal addition: Motor Set XS



AGE from 8 years

12

243

spur gears, bevel gears, ring gears, worms, axles

Item No.	569020
EAN	4048962492767
Dim. (mm)	320x80x230



+ eLearning

Statics

Why are buildings, bridges and other structures built the way we know them? How do they become stable and how can the stability gained be improved? Eleven impressive models in Statics provide these and other answers. From explanatory functional models to various bridges, towers and a crane, well-known structures such as the Eiffel Tower and Tower Bridge are also included.



AGE from 8 years

11

364

struts, angle brackets

Item No.	564071
EAN	4048962458589
Dim. (mm)	320x80x230



+ eLearning

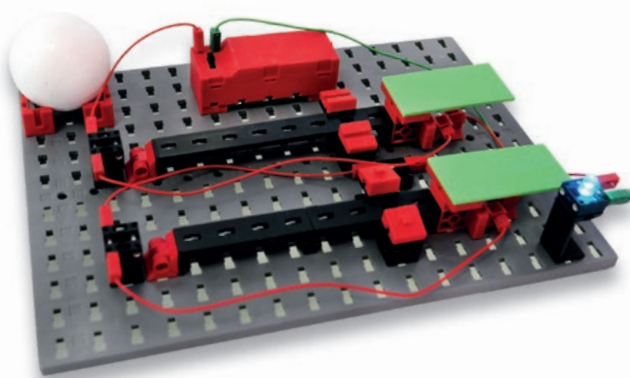
Mechanic + Static 2

Mechanics and statics combined in one construction kit, for all future mechanical engineers, technicians or engineers. How does a cardan drive or a manual gearbox work? What is a planetary gearbox? How do you construct a stable bridge? Ideal addition: Accu Set



E-Tec

From simple circuits with pole-reversing switches to series and parallel circuits, a continuity tester and either-or circuits - this construction kit teaches the most important concepts of electrics in an entertaining way. In addition, the technical aspects are illustrated by fun games of skill such as the „hot wire“ to encourage curiosity and creativity.



* Illustration and information on the number of parts and models not yet final at the time of catalog printing

E-Tronic

Simple electric circuit, series and parallel connection, electronic circuits with transistors, capacitors, resistors and LEDs. Step by step, this construction kit teaches the basics of electronics. The E-Tronics module, a controller with 16 fixed programs, has two motor outputs, three analog inputs for sensors and a potentiometer to control the speed of a motor.



AGE from 9 years

30

500

XS motor, battery holder for 9V block (battery not included)

Item No.	536622
EAN	4048962250299
Dim. (mm)	465x80x320



+ eLearning

AGE from 8 years

11*

113*

Rainbow LED, buzzer, aluminum wire

NEW
from July

Item No.	571905
EAN	4048962516661
Dim. (mm)	320x80x230

+ eLearning

AGE from 9 years

16

340

E-Tronics module, push-button, reed contact, XS motor, transistors, resistors, capacitor, LEDs, battery holder for 9V block (battery not included)

Item No.	559883
EAN	4048962424645
Dim. (mm)	465x80x320



+ eLearning



Green Energy

Climate and environmental protection have become an integral part of everyday life - renewable energies are an absolute highlight topic, even in the children's room! 14 exciting models are built around the topics of generating, storing and using electricity from natural energy sources, which move through wind, water or sun and convey the applied technology in a playful way. The ideal addition is the H2 Fuel Cell Car construction kit (see next page), with which two additional models can be built and operated with a fuel cell.

AGE from 9 years

14

339

solar modules (1V),
Solar motor, Goldcap,
LED

Item No.	559879
EAN	4048962424607
Dim. (mm)	465x80x320



+eLearning



H₂ Fuel Cell Car

How does a fuel cell work and how can it be used to produce hydrogen? And how can it be used as a drive? The H₂ Fuel Cell Car construction kit brings this future technology directly into the children's room and provides the answers to these and other questions! The young explorers can bring the car to life and explore the world with the hydrogen they produce themselves. Ideal addition: Green Energy (see previous page), for building two additional models.



AGE from 9 years



1



117



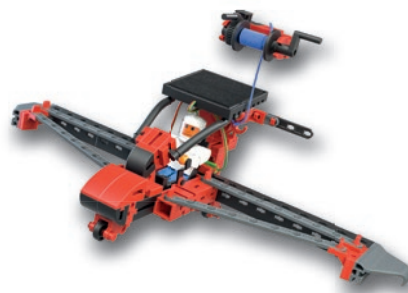
fuel cell with power supply unit 3V-.../1A, fuel cell motor

Item No.	559880
EAN	4048962424614
Dim. (mm)	320x80x230



Solar Power

By generating electricity from solar energy with the help of a solar module, the helicopter, airplane, wind turbine and carousel really get going. Whether in the air or on land - the construction kit is ideal for discovering solar energy through play.



AGE from 8 years



4



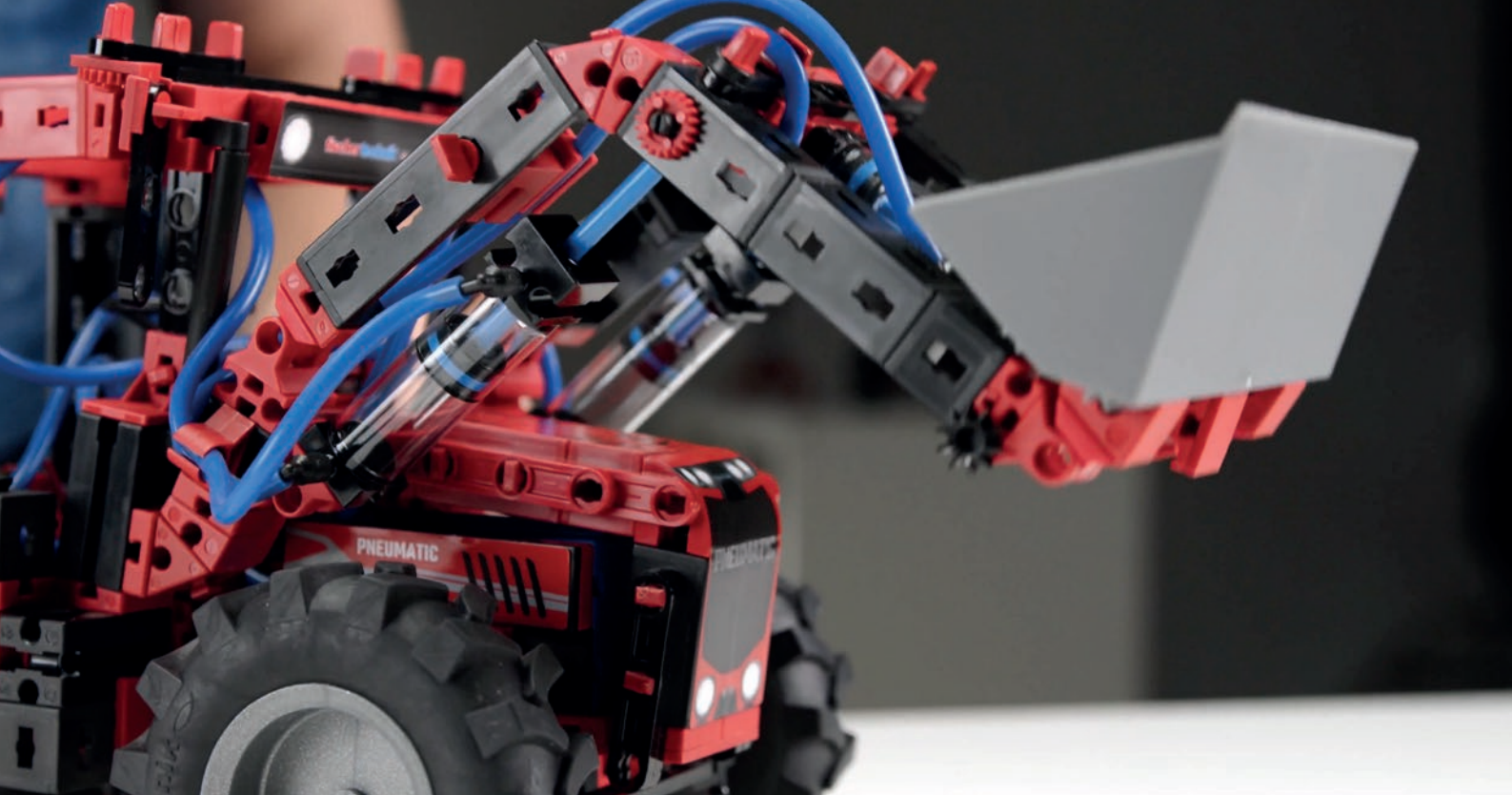
167



solar module (1V), solar motor

Item No.	559882
EAN	4048962424638
Dim. (mm)	320x80x230





Pneumatic Power

The „little brother“ of the Strong Pneumatics (see below) is the Pneumatic Power. The air is pumped manually into an air reservoir. By actuating the manual valves, the compressed air reaches the pneumatic cylinders via the hoses. The included exhaust air throttle enables precise control of the cylinders.



- AGE from 8 years
- 🔧 5 📦 210
- ⚙️+ Pneumatic- and pump cylinders, manual and non-return valves, air accumulator, exhaust air throttle

Item No.	533874
EAN	4048962229721
Dim. (mm)	320x80x230



Strong Pneumatics

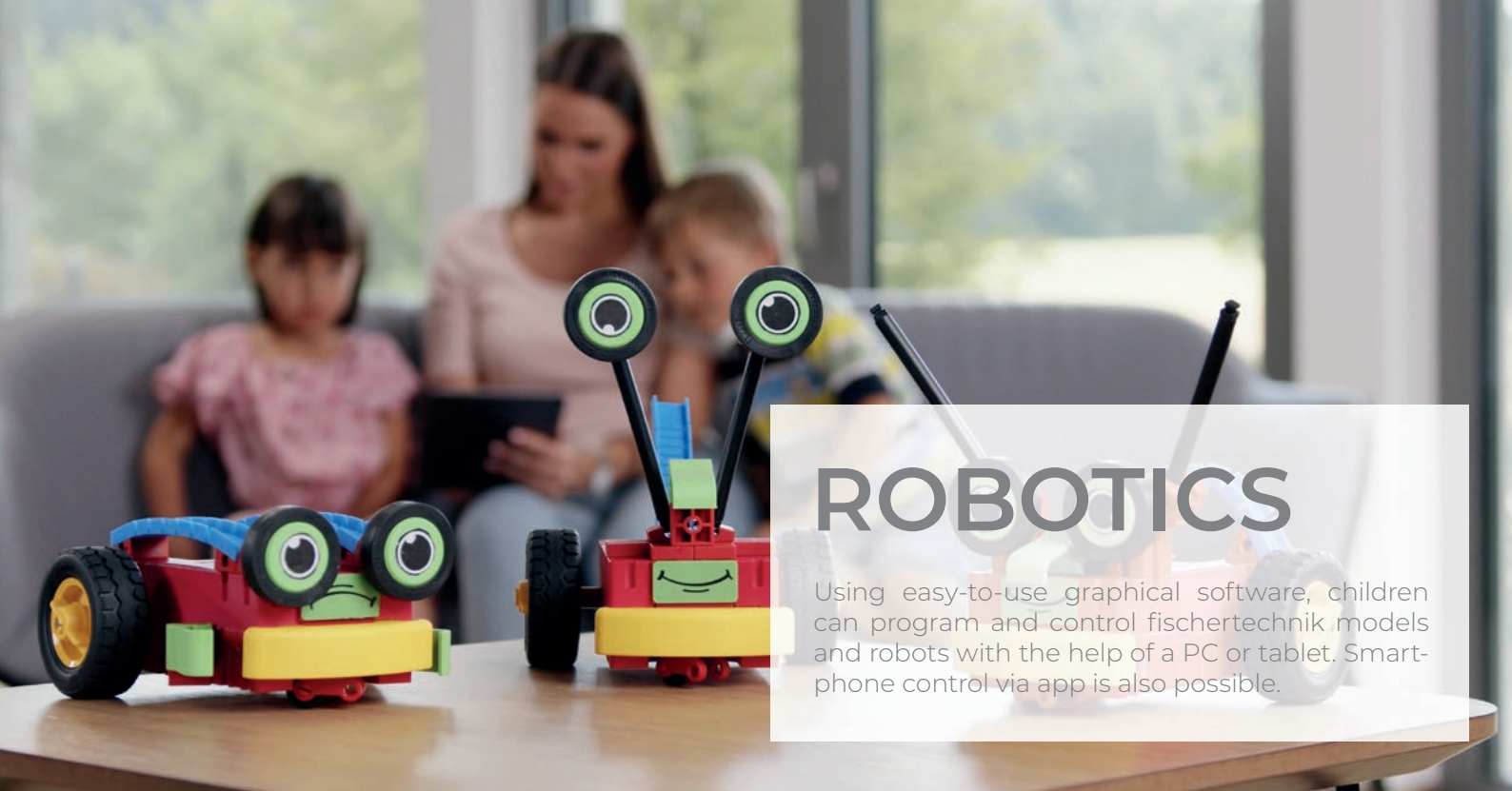
Discover the basics of pneumatics using six realistic models such as log grapples, front loaders and rotary rakes. The modes of operation are illustrated by the included technical components such as compressor, pneumatic valves and cylinders and exhaust air throttle valve. Ideal addition: Accu Set



- AGE from 9 years
- 🔧 6 📦 660
- ⚙️+ Compressor, double-acting double-acting cylinders, exhaust air throttles, manual valves, battery holder for 9V block (battery not included)

Item No.	559876
EAN	4048962424577
Dim. (mm)	465x80x320









ROBOTICS

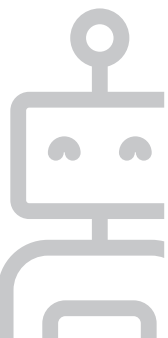
Using easy-to-use graphical software, children can program and control fishertechnik models and robots with the help of a PC or tablet. Smartphone control via app is also possible.

Early Coding

Writing your own program and bringing a robot to life is incredibly exciting and thrilling! The ready-made components in Early Coding make it easy to enter the world of computer science and robotics with lots of fun and enthusiasm. The two motors and sensors are already integrated in one block. This means: switch on, connect to the mobile device and get started! The simple graphical programming environment with ready-made examples is designed to be age-appropriate. There is also a teach-in function and the option to control the models manually.

-  AGE from 5 years
-  3  55
-  Fully assembled robot chassis (see below), course, battery compartment for 3x AAA batteries (battery not included)

Item No.	559889
EAN	4048962424706
Dim. (mm)	320x80x230



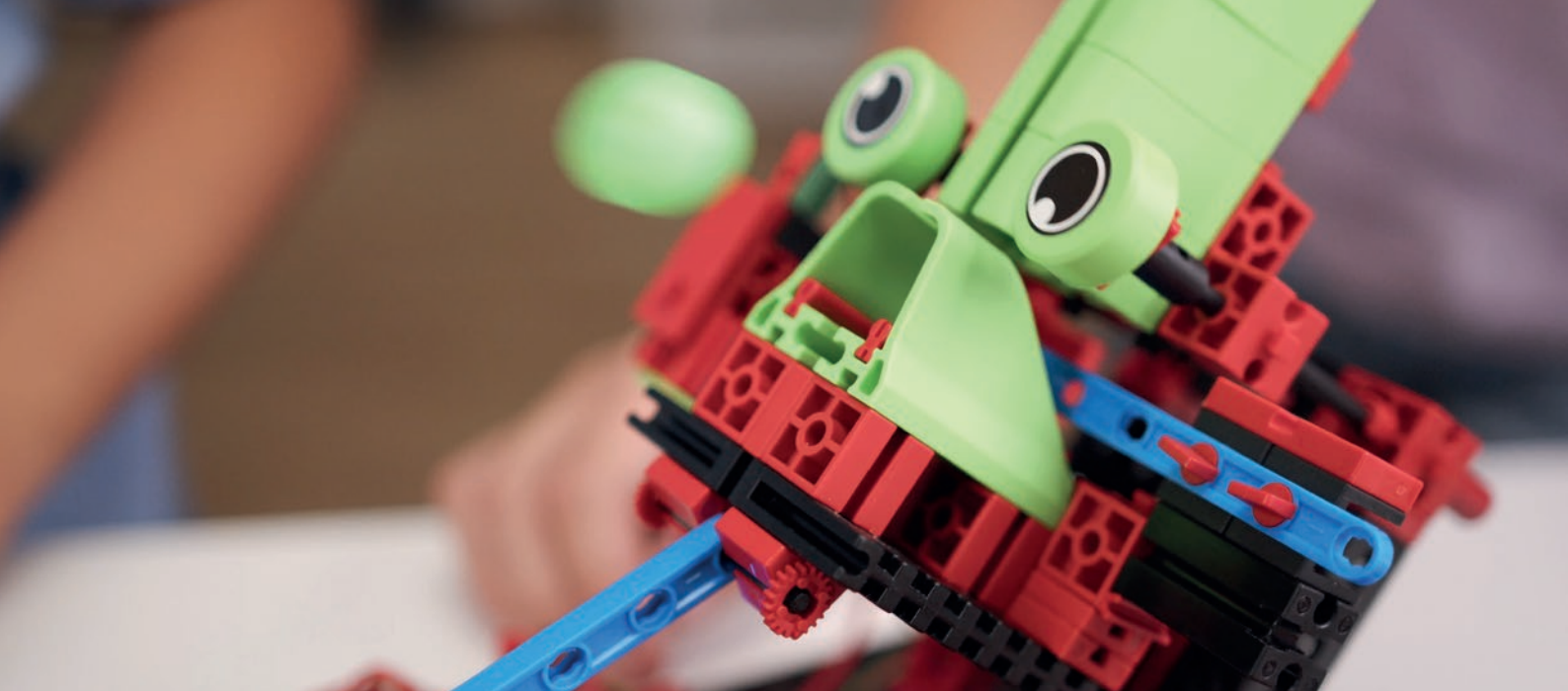
Roboter chassis

- Fully assembled with integrated control unit, 2 motors, track sensor, 2 buttons, battery compartment
- Bluetooth 5.2 interface
- Attachment option for wheels and fishertechnik building blocks

First Coding App

- Child-friendly, simple programming of the models via tablet/ smart phone
- For iOS and Android available free of charge









Smart Robots Pro

The complete beginner's package for children aged eight and over. Whether with the driving robot with obstacle detection, the carousel with flashing lights, the temperature control with fan or the alarm system: the entry into the world of programming is guaranteed to succeed. The control via the BT Smart Controller with four inputs for digital and analog sensors and two outputs for motors or lamps has a USB and Bluetooth 4.1 LE interface. The ROBO Pro Coding software enables fast, clear and easy-to-understand programming of the models.

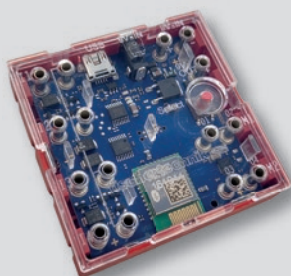


-  AGE from 8 years
-  12  362
-  BT Smart Controller, XS motors with gearboxes, LEDs, buttons, temperature sensor (NTC resistor), light barrier (photo-transistor), reed contact, magnet, battery holder for 9V block (battery not included)

Item No.	569021
EAN	4048962492774
Dim. (mm)	465x80x320



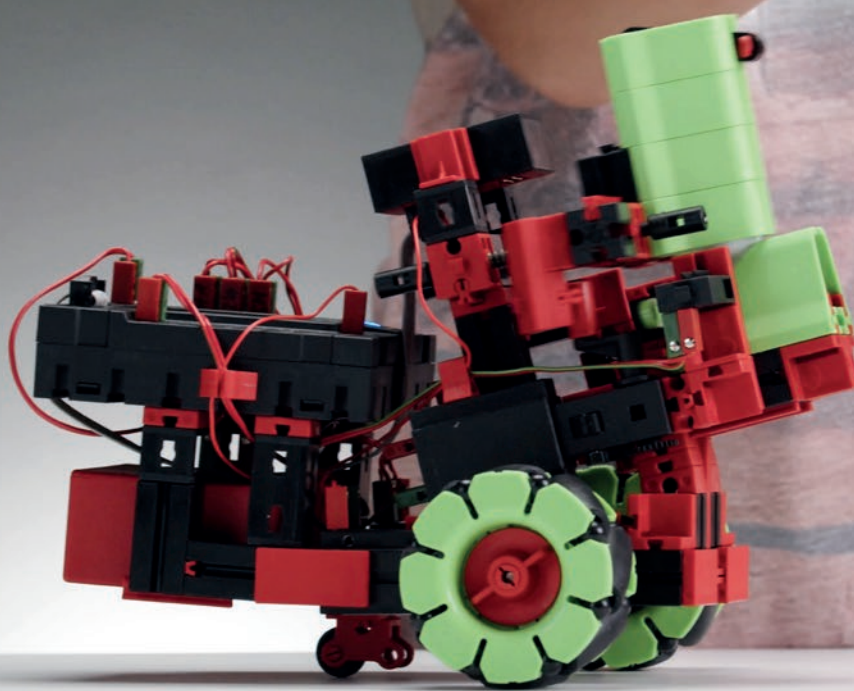
BT Smart Controller



- Processor - 32-bit Cortex M0
- Control unit that connects PC/tablet and model
- 2 outputs for actuators
- 4 inputs for sensors
- USB and Bluetooth 4.0 interface



Information on programming with ROBO Pro Coding on page 23



Smart Robots Max

The RX Controller and the ROBO Pro Coding software bring nine exciting models to life. The graphical programming software is operating system-independent and can also be used on mobile devices. From simple entry-level models to driving robots and a fun dancing robot, there is something for everyone. A highlight in this construction kit are the Omniwheels, which are driven by four motors and thus enable movement in any direction! Other highlight components include the track sensor and the RGB gesture sensor.



AGE from 10 years

9 530

RX Controller, Omniwheels, Mini Motor, IR track sensor, RGB gesture sensor, button, USB connection cable and 6-pin extension cable, battery holder for 6 AA cells (batteries not included)

Item No.	564111
EAN	4048962458954
Dim. (mm)	465x80x320



+ eLearning



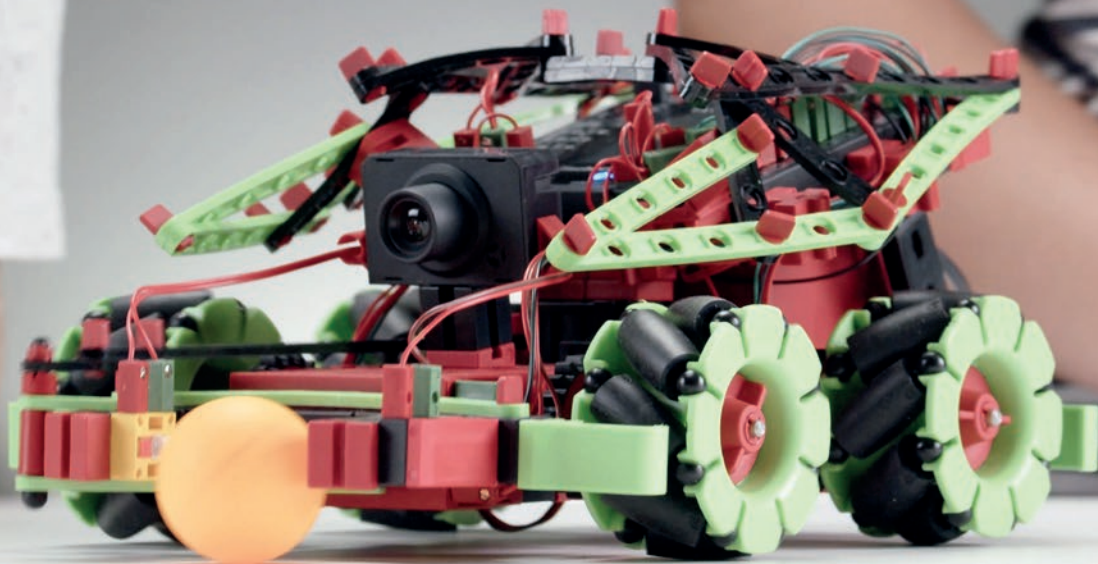
RX Controller



- Flat design, Dimensions: 90x90x17.5mm
- 8 universal inputs
- 4 motor outputs, infinitely variable speed, short-circuit-proof, alternatively 8 individual outputs, e.g. for LEDs
- USB 2.0 client: Mini USB socket for connection to the PC
- Bluetooth 4.0 LE interface





- 2x 6-pin header: I²C interface for sensors
- Power supply: 9V DC socket 3.45 mm or fischertechnik sockets 2.5 mm

Information on programming with ROBO Pro Coding on page 23



Robotics Hightech

Program like the pros with the complete Robotics Hightech set! Nine exciting models are waiting to be brought to life. The entry-level models offer an easy-to-understand insight into the world of robotics and programming. More advanced users can start directly with the high-end models, such as the painting or ball robot. One of the many highlights in this construction set are the omniwheels, which are driven by four encoder motors and thus enable movement in any direction. Also included is the fischertechnik camera with image processing, with which, for example, the soccer robot can recognize a ball - shot and goal! The fischertechnik TXT 4.0 Controller, together with the ROBO Pro Coding programming software, offers many features (see next page). The kit also includes a servo motor, an infrared track sensor and an ultrasonic distance sensor as additional actuators and sensors.

-  AGE from 10 years
-  9  580
-  TXT 4.0 Controller, USB camera (1 MP), encoder motors, servo motor, ultrasonic sensor, button, LEDs, IR track sensor, USB connection cable, battery and charger

Item No.	559895
EAN	4048962424768
Dim. (mm)	465x80x320



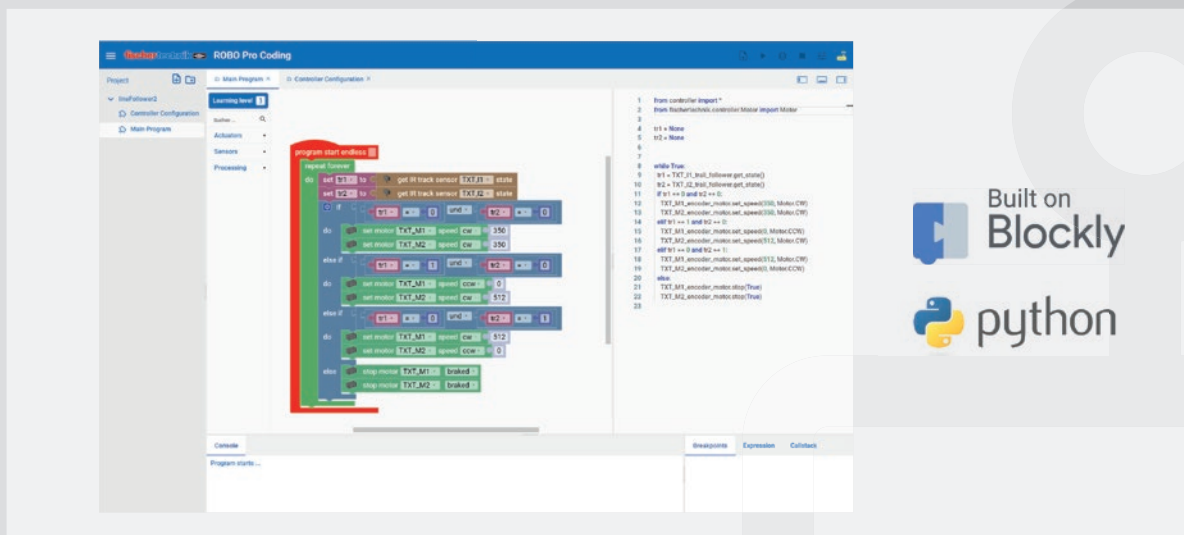
Information about
TXT 4.0 Controller
& Software
ROBO Pro Coding
on the following page



ROBO Pro Coding

In its multilingual programming environment, the ROBO Pro Coding software offers the option of graphical programming as well as text-based programming via Python. The software runs on computers with Windows, Linux or MacOS as well as on mobile devices with Android or iOS. Users can choose from the different learning levels „Beginner“, „Advanced“ and „Expert“ in order to work at the appropriate level of difficulty. Program examples are available. Self-created programs can be saved locally on the device or online in the cloud. This enables versioning and the exchange of created programs in the cloud storage between users. Actuators and sensors can be tested quickly using the interface test.

Available free of charge for mobile devices (Android/ iOS) and PC (Windows/ macOS/ Linux).



TXT 4.0 Controller

The TXT 4.0 controller offers plenty of features with its 512 MB RAM and 4 GB eMMC memory, three servo outputs and a capacitive touch display that supports swipe gestures. The improved WLAN and Bluetooth module offers the right wireless interface for numerous applications. Another interface is the USB host port, which can be used to connect the fischertechnik USB camera or USB sticks, for example. Up to eight additional controllers can be connected to one controller as extensions. Thanks to the slim housing, the controller can be perfectly integrated into the models. Firmware updates are automatically downloaded via the cloud so that you are always up to date, while your own programs are retained.



- Processor: Arm® dual Cortex®-A7 650 MHz + Cortex®-M4
- Memory capacity: 512 MB DDR3 RAM, 4 GB eMMC
- Memory expansion: Micro SD card slot
- Color touch display: 2.4", 320x240 pixels, capacitive, allows swipe gestures
- Flat design - dimensions: 90x90x17.5mm
- 8 universal inputs: digital/analog 0-9VDC, analog 0-5 kΩ
- 4 fast counting inputs: digital, frequency up to 1kHz
- 4 motor outputs 9V/250mA (max. 1 A): Speed infinitely variable
- 3 servo outputs 5V (max. 2A), short-circuit proof
- Control also via voice recognition app (Android/ iOS) possible

Creative Box Mechanics

Filled to the brim with cogwheels, gear racks, axles, worms and other drive elements, the Creative Box Mechanics is ideal for setting almost any mechanism in motion. For organized storage, the set is supplied in two stackable plastic trays with flexible with flexible sorting bars. The basic building board serves as the lid, on which the desired models can be creatively assembled without building instructions.



290

Item No.	554196
EAN	4048962390506
Dim. (mm)	269x79x193

Creative Box Basic

Equipped with numerous round building blocks, angle blocks, building plates, structural elements and other „basics“, completely new models can be created or existing ones can be extended according to individual wishes. To help you get started, the included instructions explain the basic functions of the existing building blocks. Another highlight is the storage box with eight sorting inserts, which provide flexible subdivision. The large fischertechnik base plate serves as a lid on which you can build your own model.



630

Item No.	554195
EAN	4048962390490
Dim. (mm)	393x103,5x273

Box 1000

Practical storage box with eight sorting trays and 32 sorting bars. The lid is also the large 390 x 270 mm construction panel.



Item No.	30383
EAN	4006209303832
Dim. (mm)	390x95x270

LED Set

When it comes to adding even more lights, the LED set is just the right solution! The construction kits can be upgraded even further with a new glow and additional lighting effects. The set includes two rainbow LEDs that flash in different colors and frequencies, two white LEDs and a battery holder (batteries not included).



40

Item No.	533877
EAN	4048962229752
Dim. (mm)	225x65x150

Ideal addition: Accu Set or Power Set

Motor Set XS

Thanks to its compact dimensions, this motor can be installed almost anywhere. In addition to building blocks, gear parts and gears, the set also includes a safety battery holder with integrated pole reversing switch for 9V block batteries (battery not included). Performance data: Voltage 9V-..., max. power 1.0 W at 6000 rpm



45

Item No.	505281
EAN	4048962069426
Dim. (mm)	225x65x150

Accu Set

Microcontroller-controlled charger that reliably protects against overcharging. Very short charging time, max. 2 hours. Powerful NiMH battery pack with short-circuit protection, 8.4V/1800 mAh.



charger & battery pack in one

Item No.	34969
EAN	4006209349694
Dim. (mm)	225x65x150

Power Set

Power supply unit and stepless power controller. The power supply from the socket for all fischertechnik models. Power supply unit performance data: Voltage 9V-..., 2.5A Power controller performance data: Adjustable output 1A max., additional output with 9V-..., 1A max. (not adjustable), both outputs short-circuit-proof with overload protection



power supply & control unit in one

Item No.	505283
EAN	4048962069440
Dim. (mm)	225x65x150

Control Set

The Control Set enables fischertechnik models to be controlled remotely via the Bluetooth Control App using a smartphone or tablet with a long range of up to 10m. The receiver has three motor outputs as well as a servo output for a stepless steering angle and stepless speed control. One servo is already included in the set. Up to two receivers can be operated with the app, which allows a wide range of applications. Thanks to Bluetooth technology, it is possible to use several control sets in one room without them interfering with each other.



receiver, servo

Item No.	563931
EAN	4048962457438
Dim. (mm)	225x65x150

Required: Bluetooth Control App, Accu Set or Power Set or 9V battery holder

News for kidults - fischertechnikMaker



From March 2024, the three fischertechnik Maker construction kits are the ideal basis for sophisticated and innovative projects in the maker scene. Each kit contains a basic chassis for mobile robots. These chassis are used to realize creative overall structures in makerspaces, FabLabs & Co. In addition, 3D print data for brackets for common controllers is provided so that these can be individually attached to the chassis.

Further information on fischertechnik & Maker from March at www.fischertechnik.de/maker.

Maker Kit Car

This basic structure for a steerable vehicle contains a vehicle chassis. Various attachments can be made on the resulting surface. An encoder motor with differential gear and a steering knuckle with servo motor are also included.



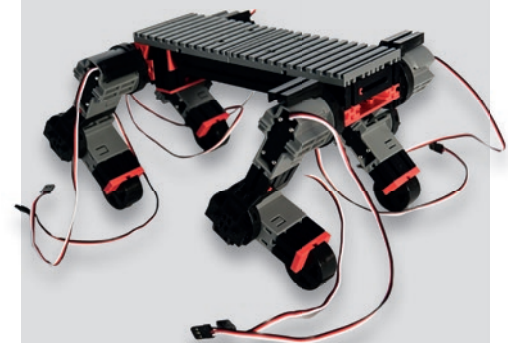
Maker Kit Omniwheels

The basic model of this driving robot moves in any direction thanks to the Mecanum Wheels. The wheels are driven by four powerful encoder motors. The flat surface of the vehicle chassis offers a wide range of possibilities for individual extensions.



Maker Kit Bionic

This construction set offers a special challenge, with which a four-legged walking robot can be built, which moves independently when programmed accordingly. Included are 8 servo motors with fischertechnik brackets.



Illustrations not yet final at the time of catalog printing

For young and old

FAN CLUB

More than 30,000 fans worldwide are members of the free fischertechnik Fan Club. Every fan receives regular updates, the Fan Club News twice a year and a personal membership card upon registration.

Once a year, fischertechnik opens its doors on Fan Club Day. Fans are given the exclusive opportunity to take a look behind the scenes.



Teaching & Learning

Discovering, understanding, constructing, building, learning: this is what drives us - throughout our lives. We at fischertechnik also call it „understanding technology through play“. For over 55 years, we have been creating components, construction kits and building systems for children, schoolchildren and students that are suitable for every age group and type of school, arouse different interests, promote talent and encourage sustainable learning. Many teachers at schools, colleges and universities around the world are aware of the motivating and explorative effect that fischertechnik has on children, schoolchildren and students. Our construction kits found their way into state and non-state classrooms early on via the toy market. The fischertechnik education systems continue to build on this success story. With growing success through ever new curriculum-relevant topics and ideas. Particularly important for the future: fischertechnik systems combine the world of conventional technology with the digital world. This is easy to see with mechanics and robotics, one is no longer possible without the other.



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Simulate

fischertechnik and simulation - an ideal combination that many engineers and experts already rely on today! With fischertechnik, complex processes can be simulated realistically. In industry, fischertechnik can be used in a variety of ways with compact training models that have already been created. The focus here is on reproducing and simulating real events. fischertechnik training models are ideal for training, simulation and demonstration purposes. With fischertechnik, much of what is important in a Smart Factory can already be simulated and tried out today - and above all demonstrated in a comprehensible way. The fischertechnik learning factory and all other training models are supplied ready-built and can be operated in 24V industrial standard. The focus is on simulation and demonstration and the comprehensible presentation of digitally networked applications in a real production environment.



The fischertechnik learning factory and all other training models are supplied ready-built and can be operated in 24V industrial standard. The focus is on simulation and demonstration and the comprehensible presentation of digitally networked applications in a real production environment.

fischertechnik 

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www.fischertechnik.de

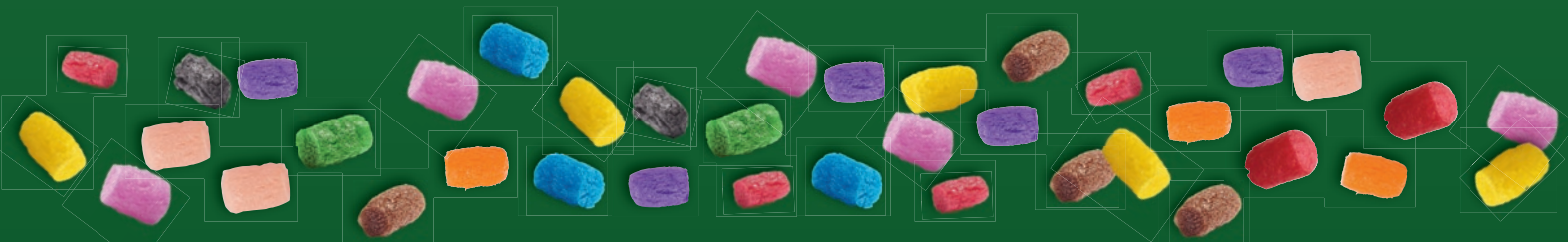
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fischerTIP



2024
English &
Italiano





TiP 100

Art. 508773
EAN 4048964000250

Contents: multicolored TiPs, sponge, instructions

Contenuto: TiP colorati, spugna, manuale fai-da-te

14x13x13cm

80g

Vol. 1,0l



TiP 300

Art. 533781
EAN 4048964000823

Contents: multicolored TiPs, sponge, cutting tool, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te

19x17x15,5cm

140g

Vol. 2,5l



TiP 600

Art. 533782
EAN 4048964000830

Contents: multicolored TiPs, sponge, cutting tool, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te

24,5x22,5x19,5cm

240g

5,0l Vol



TiP 1200

Art. 533784
EAN 4048964000847

Contents: multicolored TiPs, sponge, cutting tool, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te

28,5x27x26,5cm

450g

10,0l Vol.



TiP Unicorn 600

Art. 540824
EAN 4048962281569

Contents: multicolored TiPs, sponge, cutting tool, crafting instructions unicorn

Contenuto: TiP colorati, spugna, utensile da taglio, istruzioni per l'artigianato unicorno

21x20x20,5cm

240g

6,0l Vol.



TiP Alpaca 600

Art. 548968
EAN 4048962353532

Contents: multicolored TiPs, sponge, cutting tool, crafting instructions alpaca

Contenuto: TiP colorati, spugna, utensile da taglio, istruzioni per l'artigianato alpaca

21x20x20,5cm

256g

6,0l Vol.



TiP Box XL

Art. 49114
EAN 4037354491143

Contents: multicolored TiPs, 8x sponge, 8x cutting tool, 4x paint and glue cap, 4x building block mold, 10 sticks, 4x instructions, cardboard base

Contenuto: TiP colorati, 8x spugna, 8x utensile da taglio, 4x contenitore per dipingere e incollare, 4x modellatore per mattoncini, 10 stick, 4x manuale fai-da-te, profili in cartone



58x38,5x28,5cm 1.300g 63,6l Vol.



TiP Refill Box XL

Art. 49115
EAN 4037354491150

Contents: multicolored TiPs, instructions, cardboard base

Contenuto: TiP colorati, manuale fai-da-te, profili in cartone



58x38,5x28,5cm 1.200g 63,6l Vol.

TiP Creative Box XXL

Art. 571890
EAN 4048962516500

Contents: multicolored TiPs, 8x sponge, 8x cutting tool, 4x paint and glue cap, 4x building block mold, 10 sticks, 4x instructions, cardboard base

Contenuto: TiP colorati, 8x spugna, 8x utensile da taglio, 4x contenitore per dipingere e incollare, 4x modellatore per mattoncini, 10 stick, 4x manuale fai-da-te, profili in cartone



61x46x44,5cm 3.560g 85,0l Vol.



Sales promotion/ Promozione delle vendite



Give Away Polybag
Sacchetto di TiP in omaggio
Art. 523802



Brochure
Opuscolo
Art. 40992



Shopping bag
Borsa della spesa
Art.. 43355

Learning through play/ Apprendere attraverso il gioco



fischer TiPs are made of potato starch colored with food dyes.

The advantages of potato starch are clear:

- Sticks without glue, therefore safe and harmless
- Outstanding adhesive characteristics
- Brilliant, powerful, lustrous colors
- Renewable raw material and therefore environmentally friendly and sustainable
- 100% bio-degradable!
- Neutral odour
- High quality "Made in Germany"

fischer TiP consiste in fecola di patate e contiene coloranti alimentari.

I vantaggi della fecola di patate sono evidenti:

- Incolla senza colla, basta solo l'acqua
- Quindi è sicura e non problematica
- Eccellente potere aderente
- Colori brillanti e molto luminosi
- Materia prima rinnovabile e quindi ecologica e sostenibile
- Biodegradabile al 100%!
- Inodore
- Qualità "Made in Germany"



Strumenti in
bioplastica

Tools made from
bioplastics

fischerTiP 

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Fax +49 74 43/12-45 91
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