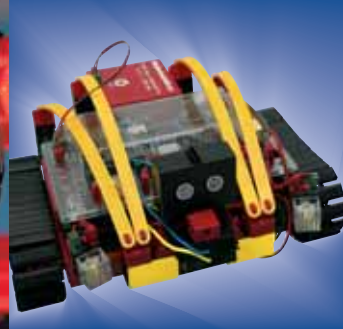




Building Blocks For Life



**fischertechnik** 

Learn about technology while playing.

2007



## JUNIOR

Starting at 5 years old  
Page 8

## BASIC + ADVANCED

Starting at 7 years old  
Page 9

## PROFI

Starting at 9 years old  
Page 14

## COMPUTING

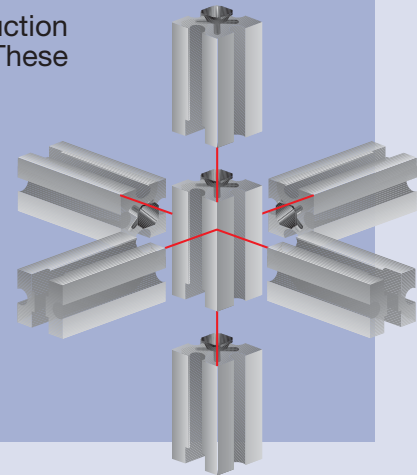
Starting at 10 years old  
Page 16

# This is the way it works: FOUR lines and ONE idea

The fischertechnik basic building block can be built onto on all six sides. This "many-sided" building block forms the basis for all fischertechnik construction sets, which are put together according to age and capabilities of the children. These sets allow you to experience the real technology and learn it by playing.

Entry into the four different product lines is possible at any time. All of this taken together forms a logical concept where one fits with the other. Building block for building block. It doesn't matter how demanding the models become because you can always return to the components from other fischertechnik sets.

To help you with the construction and discovery of the fascinating fischertechnik world, there is a comprehensive and easy to understand set of assembly instructions. For all of those who want to know more, there are the instructional activity booklets in the profi and computing construction sets with lots of background information, tasks and solutions or you can just browse through them.



### JUNIOR

The fun of playing starts at the age of five with fischertechnik. The red junior line provides the first experience with technology and the way it functions. The motto is learning by playing and building with fast success.

### BASIC + ADVANCED

Seven-year olds develop their knowledge and capabilities with the blue line. The models are not only realistic and understandable in their function, but really robust in construction and for playing.

### PROFI

The black line, which starts at nine years of age, offers the technicians of tomorrow design construction sets that are very close to reality. Subjects such as mechanics, statics, pneumatics, electrical technology or regenerative energies guarantee outstanding experiences in the world of technology.

### COMPUTING

If you love your computer, give him fischertechnik. Using graphic software, which is easy to use, children starting at 10 years old can program and control fischertechnik models and robots from the computer. It doesn't take long to get the feeling of success.



Everything that makes fischertechnik still more attractive: fischertechnik-PLUS puts light, movement and more fun into playing.

### PLUS

For optimal supplementation see page 13



For fischertechnik, the one-time construction and collection of the models is not important, on the contrary, it is the repeated searching and discovery, the independent and creative

development of the person's own ideas and imagination and the art of being able to turn these into reality.

## Construction sets and more ...

### DIDAKTIC MATERIAL

How does a gear box work? What is a planetary gear? How is the movement of a windshield wiper produced? How do you design a stable bridge? These questions are answered in the instructional activity booklets in the PROFI and COMPUTING construction sets with illustrations and easy-to-understand information.



Assembly instructions



Activity Booklet

### SYSTEMATIC STORAGE

Every fischertechnik building block has its place in the very practical and systematic storage system, which is available as a separate item.



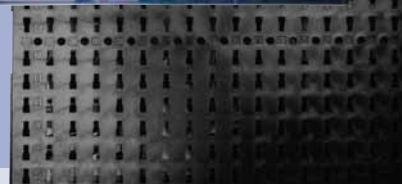
The sorting boxes in the construction sets create order.



Box 1000  
Item No.: 30 383



Box 500  
Item No.: 94 828



Base Plate  
258x186 mm  
Item No.: 32 985

On your mark, get set, go ...





# NEW ITEMS

## SPRING/SUMMER



### SERVICE STATION

The "Service Station" is the ideal supplement for all previous vehicle construction sets from fischertechnik. The service station attendant, the service station with two gas pumps, the information board and the compressed air center provide children, who are crazy about cars, with reality-based opportunities to play. All models can be built at the same time.

- Ideal addition: Car Tuning Center, RC Car Set and Racing.
- 3 models • 60 parts



### BOATS

Three different ship types can be mounted on the hull, which floats. Be it a fish cutter or yacht, fischertechnik offers young captains various opportunities and many functions to put out to sea.

- 3 models • 110 parts



### CAR TUNING CENTER

fischertechnik has created the new Car Tuning Center for young vehicle mechanics. The fully functional lifting platform with double worm drive, the repair shop crane with adjustable height, the rim shelf with replacement rims, tool and creeper meet every wish. Of course, the mechanic and the smart race car must be there. All models can be built at the same time. The playing backdrop, which is true to the original, is contained in the construction set. So, the next pit stop will be a guaranteed success!

- Ideal additions: Service Station, RC Car Set and Racing.
- 6 models • 280 parts



### RC CAR SET

With the RC Car Set, you can build four different vehicle models on one fischertechnik chassis and steer them with the radio remote control. In addition, the construction set contains accessories for the building of an individual track and a driver for the particular cockpit and an observation post.

- Ideal additions: Car Tuning Center and Service Station
- 6 models • 160 parts



# FALL



## SHIPS+MORE

Two ship's hulls, which float, and lots of fischertechnik building blocks form the ideal basis for a "shipping line" in the kids' room. You have the choice, you can connect the two hulls to make a big research ship with crane and submarine onboard or construct various smaller boats. Additional components such as a gangplank, buoys and lots more round out the world of a port. Functions, which are true to detail, such as the anchor winch or crane allow play situations, which are close to reality. Of course, the captain isn't missing either. Several models can be built at the same time.

- Ideal additions: Boats, Cranes and Super Cranes
- **8 models • 380 parts**



## ROBO EXPLORER

Something new from the world of fischertechnik driving robots. Explore unknown areas, measure distances, follow tracks, show driving directions by means of blinking signals, recognize colors, measure temperatures, avoid obstacles without touching them, recognize day and night, turn headlights on and off automatically and trigger an alarm etc. The ROBO explorer sensors can do all of this and lots more: The NTC resistor, the photoresistor, the new ultrasonic distance sensor, the infrared and color sensor and the specially developed track sensor. Thanks to two power motors and the crawler drive even almost impassable terrain can be explored and traveled on. With the Rescue Robot, which is contained as a model, the construction set provides the ideal basis for participation in the Robocup. Includes 2x power motors, 2 sensors, 3 lights, buzzer, NTC resistor, photoresistor, ultrasonic distance sensor, color sensor and track sensor.

- Also required additionally: ROBO interface, ROBO Pro software and rechargeable battery set.
- Ideal addition: RF data link
- **6 models • 360 parts**

# JUNIOR

from age 5

Kids can celebrate their first building success with the junior construction sets. Even the youngest can construct models quickly as they play. Using the easy-to-understand assembly instructions and just a few turns

of your hands, you can build trucks, transports and cranes and so forth. So playing is not neglected. Concentration and motor skills are playfully promoted with the handy components and the many possible variations.

## A System from the very start



### STARTER

Item No. 30 323

EAN 4006209303238

The entry construction set

- 50 components and 4 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
280x65x180	0,0033	400 g



### JUMBO PACK

Item No. 16 551

EAN 4006209165515

14 models and of these four can be built at the same time. For play groups or friends!

- 135 components and 14 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1250 g



# BASIC

from age 7

The basic building sets create a lot of fun for building and playing for little money. Bulldozers, helicopters or tractors: the broad diversity of the everyday technology is amazingly simple, but so realistic.

Can be expanded as desired



## SERVICE STATION

Art.Nr. 46 229  
EAN 4006209462294

Service station with pumps, information board and compressed air center can be built at the same time. The ideal addition to all vehicle construction sets. Ideal additions: Car Tuning Center, RC Car Set and Racing  
• 60 components, 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
280x65x180	0,0033	300 g



## TRACTORS

Item No. 96 779  
EAN 4006209967799

• 75 components and 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
280x65x180	0,0033	350 g



## FUN CARS

Item No. 96 777  
EAN 4006209967775

• 85 components and 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
280x65x180	0,0033	300 g



## CRANES

Item No. 96 778  
EAN 4006209967782

• 100 components and 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
280x65x180	0,0033	350 g



## AIRCRAFT

Item No. 96 776  
EAN 4006209967768

• 100 components and 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
280x65x180	0,0033	350 g



## BOATS

Art.Nr. 46 230  
EAN 4006209462300

• 110 components, 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
330x80x235	0,0066	500 g

Ship's hull, which floats and on which three different ships can be built ranging from a fish cutter to a yacht.



## CABLE CARS

Art.Nr. 41 859  
EAN 4006209418598

• 120 components, 3 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
330x80x235	0,0066	600 g

Glide down the slope on a 6-meter long cable with the gondola clear up at the top and then with the freight elevator clear down to the bottom. Have fun.



## RACING

Art.Nr. 96 780  
EAN 4006209967805

• 125 components, 5 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
330x80x235	0,0066	600 g

Blaze through the room. Pit stop, put on new tires, fill up and off you go. Four Formula 1 racers and one can build the gas station and car jack at the same time.



## BULLDOZER

Art.Nr. 41 858  
EAN 4006209418581

• 240 components, 4 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
330x80x235	0,0066	600 g

Crawler crane, bulldozer, tracked recovery vehicle and a snowcats, four different tracked vehicles provide play and fun.

# ADVANCED

from age 7

Now you can get started. For the advanced in the fischertechnik group of technicians! The function is understandable with lots of details such as four-wheel steering and track chains that crawl over the terrain. Cranes that lift heavy loads. Merry-go-rounds that make the figures fly and really robust in construction

and for playing. With genuine functions and lots of attachment and expansion possibilities. Detailed assembly instructions lead to the finished models in logical steps.

## Unbelievable flexible



### RC CAR SET

Art.Nr. 46 231  
EAN 4006209462317

Four different vehicles can be built on the fischertechnik chassis and steered with the RC remote control. Complete set including racing course and skill course.

- **160 components and 6 models**
- Ideal additions: Service Station and Car Tuning Center

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1250 g



### CAR TUNING CENTER

Art.Nr. 46 232  
EAN 4006209462324

A complete world of play from fischertechnik with backdrop, which is true to detail. The fully functional lifting platform with double worm drive, the repair shop crane with adjustable height, the rim shelf with replacement rims, tool and creeper meet every wish. The car is also contained in the set and all models can be built at the same time.

- **280 components and 6 models**
- Ideal additions: Service Station, RC Car Set and Racing

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1350 g



### SHIPS+MORE

Art.Nr. 46 233  
EAN 4006209462331

Two ship's hulls, which float, and many components are the basis for exciting fun while playing the world of a harbor. Both hulls can be put together to form a big research ship with a crane and additional functions, which are true to detail, or they can form the basis for two individual ship models. A gangplank, buoys and lots more complete the port world of fischertechnik. Several models can be built at the same time and this guarantees fun while playing on sea and on land.

- **380 components and 8 models**
- Ideal additions: Boats, Cranes and Super Cranes

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1300 g



## UNIVERSAL II

Item No. 93 290  
EAN 4006209932902

The universal genius with vice, lifting platform with car, sewing machine and an entire amusement park. Several models can be built at the same time. Here, the everyday technology is understood and experienced.

- 400 components and 48 models
- Ideal additions are: Mini Motor Set, Power Motor Set and Energy Set on page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1800 g



## AUTOMOBILE

Item No.: 41 860  
EAN 4006209418604

Three trucks with dump function, lowerable container or tow truck with car platform. In addition, a hot roadster, a robust off-roader and a cool buggy.

- 350 components and 8 models
- Ideal additions are: Mini Motor Set, Power Motor Set and Accu Set on page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1600 g



## POWER TRACTORS

Item No. 91 079  
EAN 4006209910795

Get started on the tractor models or the big MB trac with the strong sculptured tires: Double axle trailer, big hay wagon or trailer with steering. Now, at harvest time, you can choose from potato harvester, hay turner and grappler or a plow.

- 550 components and 12 models
- Ideal additions are: Mini Motor Set, Power Motor Set and Accu Set on page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1850 g



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Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1850 g

# ADVANCED

from age 7

This line is a real challenge for real hobby inventors. With up to 900 parts and diverse functions, these constructions sets such as Super Trucks, Super Cranes and Fun Park do justice to their names.

## And it never loses its fascination



### SUPER CRANES

Item No.: 41 862  
EAN 4006209418628

Caution: Giants at work! More than one meter high and the boom is over a meter long, turns at the top or bottom and is built for really big loads!

With traveling carriage and lifting tackle, mobile or stationary

- 780 components and 3 models
- Ideal additions are: Mini Motor Set · Lights · Energy Set, page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x100x390	0,0181	2800 g



### SUPER TRUCKS

Item No. 77 790  
EAN 4006209777909

Six different heavy duty trucks hit the road! The low-bed trailer for really heavy equipment such as the big "bulldozer," long-timber truck with steerable trailer, the heavy-duty crane with double-axle steering and extendable supports or the tractor truck with unhoo-kable trailer and powerful semi-trailer tractor. For small freight forwarders.

- 800 components and 6 models
- Ideal additions are: Power Motor Set · Mini Motor Set · Accu Set on page 13

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x100x390	0,0181	2850 g



### FUN PARK

Item No. 57 484  
EAN 4006209574843

The ferris wheel has a grand height of 70 cm. The chain merry-go-round has a diameter of almost 50 cm. The ingenious functions of the octopus with two counter-rotating eccentric rotational movements for rotation and up and down create a real carnival atmosphere.

- 900 components and 3 models
- Ideal additions are: Power Motor Set · Lights · Energy Set, page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x100x390	0,0181	2650 g

# PLUS

Everything that makes fischertechnik more attractive. The fischertechnik supplemental sets create light, movement and additional fun for every model.

## Supplemental Items



### POWER MOTOR SET

Item No. 34 965  
EAN 4006209349656

The powerful gear unit motor with toothed wheels, worm gear, differential, pole-reversing switch, cable and plug.

- Performance data: Voltage 9V  $\approx$ , max. output 2.4 W at 340 RPM, gear reduction 8:1.
- **35 components**
- Additionally required is the Energy Set or a Accu Set

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	300 g



### MINI MOTOR SET

Item No. 30 342  
EAN 4006209303429

The universal motor set with Mini Motor, 9V battery holder and many gear unit parts: gear wheels, angular gear, differential and universal joint etc.

- Performance data: Voltage 9V  $\approx$ , Max. output 1.1 W at 5000 RPM
- **50 components**

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	250 g



### LIGHTS

Item No. 34 970  
EAN 4006209349700

The light set consists of four light bulbs, colored luminous caps, cable, plug and blink electronics for up to eight bulbs. Short-circuit and overload proof. For blinking or continuous light. With 9V battery holder

- **35 components**

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	250 g



### ENERGY SET

Item No. 30 182  
EAN 4006209301821

The power supply from the electrical socket for all fischertechnik models

- Output: 9V  $\approx$ , 1000 mA
- **Power unit + control unit in one**

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	750 g



### ACCU SET

Item No. 34 969  
EAN 4006209349694

Charger, which is controlled by a microcontroller and provides reliable protection against overcharging. Very short charging time, max. two hours, powerful NiMH rechargeable battery pack with fuse for protection against a short circuit, 8.4V, 1500mAh.

- **Charger + battery pack in one**

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	850 g



### CREATIVE BOX 1000

Item No. 91 082  
EAN 4006209910825

More than 700 components from the current fischertechnik assortment. Packed in BOX 1000 with building board, 390 x 270 mm, as cover.

- **700 components and 8 sorting boxes**

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
395x100x275	0,0109	2700 g



### BOX 1000

Item No. 30 383  
EAN 4006209303832

Practical storage box with eight sorting boxes and 32 sorting partitions The cover also serves as the big building board, 390 x 270 mm.

- **8 sorting boxes • Big building board**

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
395x100x275	0,0109	1850 g

# PROFI

from age 9

Jump into the car, put it in gear and get going. But how does the technology work that allows us to use a low gear to go, slowly, but easily up a mountain or to fly down the mountain in a high gear? How does a kitchen appliance or a planetary

gear work? Why don't bridges collapse and why does a wobbly table become stable with four cross struts. These and other questions are answered in detail in the Profi line.

## Very close to reality



### PROFI MECHANIC+STATIC

Item No. 93 291  
EAN 4006209932919

The ultimate technology construction set for all future mechanical engineers, technicians and engineers: How does a gear box work? What is a planetary gear? How is the movement of a windshield wiper produced? How do you design a stable bridge? The answers to these and other elementary questions from the subject areas of mechanics and statics are found in this construction set with 30 different models.

- Includes the instructional activity booklet, »Mechanics+Statics«
- Includes Mini Motor, switch and battery holder
- 500 components and 30 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	2100 g



## Technology and knowledge



### PROFI ECO POWER

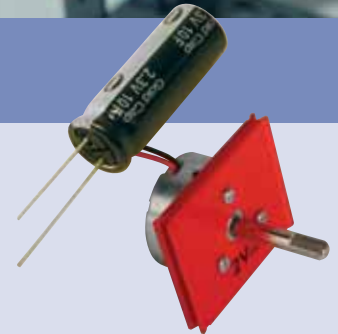
Item No. 57 485

EAN 4006209574850

"Renewable energies" will become our most important suppliers of energy in the future. The production, storage and use of energy from natural energy sources such as water, wind and the sun are illustrated using eight models and numerous experiments. This is the way to create an understanding of the future energy forms.

- Includes the instructional activity booklet, »Renewable Energies.«
- Includes solar motor, 2 solar cells and »Gold Cap« energy storage unit.
- 190 components and 8 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1400 g



### PROFI PNEUMATIC II

Item No. 77 791

EAN 4006209777916

The Profi Pneumatics II provides playful learning of the basics of this "airy" technology and shows, using numerous application examples, the way that pneumatic valves and cylinders work in connection with a compressor and an air cell. It contains four double-acting pneumatic cylinders, three 4/3 way hand valves and one electrically operated compressor with air cell.

- Includes the instructional activity booklet, "Pneumatics: Create Movement with Compressed Air."
- Includes compressor with Mini Motor, switch and battery holder.
- 400 components and 8 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1900 g



### PROFI E-TEC

Item No. 91 083

EAN 4006209910832

Electrical circuits, electromechanics and electronic controls.

Using functional models, for example, the principle of series and parallel connections and the control of a traffic light are explained step by step. For this purpose, the e-tec module (see above) with eight set programs that control, for example, a burglar alarm with a buzzer, a hand dryer with a light barrier or a garage door with a magnetic sensor and these devices are controlled through three inputs for digital sensors such as a probe, phototransistor and reed contact and an output for a motor or two indicator lights.

- Includes the instructional activity booklet, »Electrical Technology.«
- Includes Mini Motor, e-tec module, sensor, light barrier, magnetic sensor and buzzer.
- 260 components and 12 models

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1750 g





# COMPUTING

from age 10

Design machines and robot models, program the control software on the PC and put the entire thing in motion. What sounds so complicated and technical becomes a fascinating and creative game with computing and this doesn't apply only to technically enthusiastic kids. You need a commercially

available PC with a Windows operating system, Win 98 or later, the easy-to-use graphic fischertechnik software, ROBO Pro, to program the commands that the robot is to carry out. In addition, the "ROBO interface," which converts the computer commands into control signals for the motors.

## Program the robot yourself



8 models +  
»ROBO I/O Extension«  
as interface +  
software

### ROBO STARTER SET

Item No.: 41 863  
EAN 4006209418635

The complete beginner package: 150 components for eight simple-to-build models such as a traffic light, barrier, heating control or hand dryer. The ROBO I/O Extension as a passive interface to the PC, the software, ROBO Pro, and in addition the detailed programming book, which explains the graphic software in a simple and understandable manner.

- Includes the instructional activity booklet, »Programming and Control of fischertechnik Models with the PC.«
- Includes ROBO I/O Extension as an interface for USB.
- Includes control software, ROBO Pro.
- Includes Mini Motor, three sensing devices, one phototransistor and one NTC resistance for measuring temperatures and three light bulbs.
- 150 components and 8 models
- Requires Energy Set or Accu Set on page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	2050 g



8 mobile robots +  
»ROBO Interface« +  
software

### ROBO MOBILE SET

Item No. 93 292  
EAN 4006209932926

The complete Profi package, which consists of 450 components for the building of eight mobile robot models, the programmable ROBO Interface and the ROBO Pro Software. The instructions explain the construction of the seven mobile robots with all-round edge recognition or obstacle recognition and the mobile robot with six legs. The robot with light detector continually follows a moving light source and the model, "trail searcher," follows a black line. In addition, the light detector can be combined with obstacle recognition. The mobile robot moves like an insect and can move forwards, backwards and right and left.

- Includes the instructional activity booklet, "Programming and Control of fischertechnik Robots with the PC."
- Includes the ROBO Interface.
- Includes control software, ROBO Pro.
- Includes 2x Power Motor, 4 sensors, 2 phototransistors, 1 lens light bulb.
- 480 components and 8 models
- Requires Accu Set on page 13.
- Ideal addition is ROBO RF Data Link on page 17.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	3000 g



### INDUSTRY ROBOTS II

Item No. 96 782  
EAN 4006209967829

Three reality-based and fully functional industry robots with precise details: triple-axis industry robot and two welding robots.

- Includes the instructional activity booklet, »Programming and Control of fischertechnik Robots with the PC.«
- Includes Power Motor, 3x Mini Motor, 8 sensors and ball plug-in light.
- 360 components and 3 models
- Additionally required is ROBO Interface + ROBO Pro Software on page 17.
- Energy Set or Accu Set on page 13

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	2050 g



## ROBO EXPLORER

Item No. 46 234  
EAN 4006209462348

Explore unknown areas, measure distances, follow tracks, show driving directions by means of blinking signals, recognize colors, measure temperatures, avoid obstacles without touching them, recognize day and night, turn headlights on and off automatically and trigger an alarm etc. The ROBO explorer sensors can do all of this and lots more: The NTC resistor, the photoresistor, the new ultrasonic distance sensor, the infrared and color sensor and the specially developed track sensor. Thanks to two power motors and the crawler drive even almost impassable terrain can be explored and traveled on. With the rescue robot, which is contained as a model, the construction set provides the ideal basis for participation in the Robocup.

- Includes 2x power motors, 2 sensors, 3 lights, buzzer, NTC resistor, photoresistor, ultrasonic distance sensor, color sensor and track sensor.
- 360 components and 6 models
- Additionally required is ROBO Interface, ROBO Pro Software and Accu Set.
- Ideal addition: RF Data Link.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
465x80x320	0,0119	1300 g



## ROBO INTERFACE

Item No. 93 293  
EAN 4006209932933

With 16 bit microcontroller, USB and serial interface, 128kB flash storage unit for downloading 2 programs

- 4 adjustable motor outputs 9V/250mA
  - 8 digital inputs
  - 2 analog inputs for resistors 0 to 5 kΩ
  - 2 analog inputs for voltage 0 to 10V
  - 2 analog inputs for gap sensors
  - one connection each for "ROBO I/O Extension" module and radio interface
- "ROBO RF Data Link" interface for "IR Control Set"
- Programmable with "ROBO Pro" or C-Compiler (not contained in scope of delivery).
  - Requires Energy Set or Accu Set on page 13

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	350 g



## ROBO PRO SOFTWARE

Item No. 93 296 (Windows 98, ME, NT, 2000, XP)  
EAN 4006209932964

Simple entry for beginners through programming of flow charts consisting of various software building blocks. The exchange of the data between the software building blocks and the subprograms can be done through variables and graphical connections as well. This allows the program functions to be shown in an understandable manner. There are no problems with the preparation of teach-in programs or data exchange with other Windows software. In an online mode, several ROBO Interfaces can be controlled parallel for big models.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
210x25x150	0,0008	550 g



## ROBO I/O-EXTENSION

Item No. 93 294  
EAN 4006209932940

Expansion module for ROBO Interface. Connection using a 10-pin ribbon cable. USB interface for online operation directly on the PC. Connection for additional ROBO I/O Extension with up to 3 in a series.

- 4 adjustable motor outputs, 9 V, 250 mA
- 8 digital inputs
- 1 analog input for resistances of 0 to 5 kΩ
- Requires Energy set or Accu set on page 13.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	350 g



## ROBO RF DATA LINK

Item No. 93 295  
EAN 4006209932957

Radio interface for ROBO Interface. Connection to the PC at the USB interface. Connection to the interface as an additional printed circuit board, which is plugged into the interface printed circuit board. Range is about 10 m. 79 adjustable frequencies for simultaneous operation of 8 devices in one room. Direct communications between 8 ROBO Interfaces with the same frequency is possible.

- Frequency: 2.4 GHz
- No additional power supply is needed.

Dimension (mm)	Vol (m <sup>3</sup> )	Weight
225x65x150	0,0022	350 g

# ASSORTMENT RECOMMENDATION

Perfectly developed component mounting diagrams, finely tuned to the sales performers and the important additions support sales.

## Then it fits

Assortment B: 1.25 m x 2.0 m

This basic assortment contains the top selling fischertechnik construction sets for placement on a shelf space with a width of 1.25 meters and a height of 2.0 meters.

Assortment A: 2.5 m x 2.0 m

This competence assortment contains the relevant fischer-technik construction sets for specialized retail for placement on a shelf space with a width of 2.5 meters and a height of 2.0 meters.



# MARKETING

Don't talk just act is our motto. Using a number of campaigns, we are promoting the high name recognition of fischertechnik, creating new wishes for children and parents and supporting your sales.

## PRINT ADVERTISEMENT

In addition to providing prizes and editorial articles, we also advertise in well-known family and children's magazines.



## TV

We are increasing the recognition of the brand with our presence on TV.

**fischertechnik** 

5+

7+

9+

10+



## Microsoft®

We are an official cooperation partner of Microsoft Robotics Studio. The software from Microsoft and the hardware from fischertechnik open up almost unlimited possibilities for the construction and programming of robotic models.



## SCHOOL AND INDUSTRY

fischertechnik is successfully employed in teaching at schools, vocational schools, in training and in-service training and at universities. The easy-to-understand instructions and the instructional activity booklets support the learning of students at schools and universities.



## BIG POSTERS

Using gigantic posters, we draw attention to fischertechnik and give you the opportunity to advertise for yourself.



## FAN-CLUB

More than 30,000 fans are members at no cost in the fischertechnik Fan Club. Every fan regularly receives current information and has his personal member identification. In this way, we guarantee that the important information such as information about new items reaches our target group quickly.



## DEALER-EVENTS

We organize various events directly on-site for you and your customers. This gives you the opportunity to provide more intensive customer support and achieve more intensive customer loyalty. Of course, the events are coordinated individually and seasonally with you.



## TRADE FAIR EXHIBITIONS&EVENTS

You can profit from our participation in the biggest and most important trade fairs, exhibitions and events. Here, the end consumers have the opportunity to experience fischertechnik up close and to understand the technology while playing. This increases brand recognition and strengthens retail sales.



## ROBO-CUP & YOUTH RESEARCH

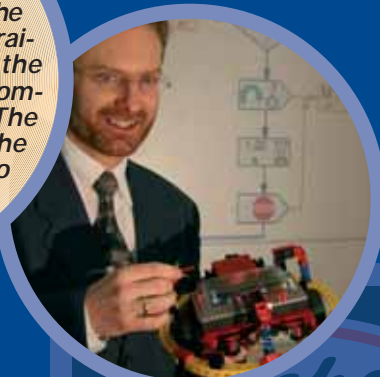
Participants in RoboCup and research by young people employ fischertechnik successfully in the most varied of areas. The high quality of workmanship and variability are highly valued. With fischertechnik, you can find the optimal solution for every application.

jugend  forscht



## DEALER TRAINING

When you register for the fischertechnik dealer training, you are laying the foundation stone for competent consultation. The best knowledge of the products allows you to conduct successful sales talks.



# SCHOOL

The instructional construction sets from fischertechnik are specially designed for use in technical instruction and in technical facilities for the basic and secondary level. Here, there are the following topics: Mechanics, statics, electrical technology, regenerative energies and measuring, controlling and regulating

(information science, mechatronics and computing). This is supported by books, instructional activity booklets and worksheets. For this purpose, there are intelligent storage systems that provide order and reliability for the everyday things at school.

Additional information is available at: »<http://www.fischertechnik.de>«

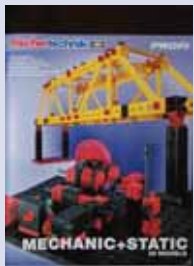
## fischertechnik for Teaching



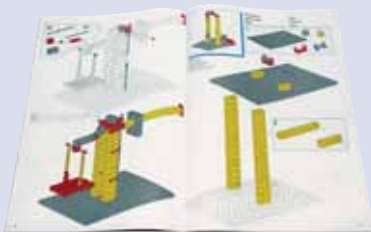
### DIDACTIC MATERIAL

How does a gear box work? What is a planetary gear? How is the movement of a windshield wiper produced? These are questions, which our instructional activity booklets illustrate and are explained in a way that is easy to understand. This starts with elementary subjects such as mechanics, statics, electronics and information science etc. and progresses to the practical implementation, which can be understood quickly, of everyday technical devices such as traffic lights, fans and a lifting tackle and then moves on to the technically refined and demanding solutions for robotics and computing.

Additional worksheets can be downloaded from the fischertechnik Web site and with the thematically developed questions and answers, these are an additional instrument to provide understanding of the corresponding instruction in a simple and precise manner and to test the learning success.



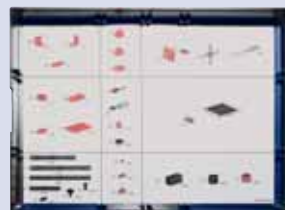
**Assembly instructions**



In addition, there is the very practical and systematically constructed storage system where each part has its place and is quickly found and helps with the daily didactic work (available separately).



**Activity booklet**



**Sorting box**  
Item. No.: 94 828

**Base Plate**  
258x186 mm  
Item. No.: 32 985



**Worksheets**

# TRAINING MODELS

Compact function models, which are already assembled, provide ideal training and demonstration models for training and in-service training and industrial automation. Available in the 9V standard voltage and in the worldwide 24V industrial standard.

Additional information is available at: »<http://www.fischertechnik.de>«

## For training and in-service training



### 3-D-ROBOT

3-axis robot with grappler, 4 direct current motors  
4 limit switches  
4 pulse sensing devices for measuring distances.  
All probes are potential-free.



# PLAN+SIMULATION

The function models from fischertechnik, plan + simulation, are a proven and inexpensive means to plan and to develop industrial controls with the associated software

and to test processes. They are employed worldwide in the areas of training, development and presentation.

Additional information is available at: »<http://www.fischertechnik.de>«

The flexibility and the modularity of the fischertechnik system in connection with the industrially adapted sensors and actors as well as the controls from leading manufacturers open up almost unlimited possibilities for hardware simulation. Complicated technical systems are presented realistically and thus perfectly simulated so that they are understandable for everyone. This makes investment decisions easier and reduces the costs for the correction of planning mistakes.



**The step  
into reality**

# In good hands



## WHAT DO YOU GET FROM THIS AS A TOY DEALER?

A uniform system with design construction sets at the highest level and the best quality as well the strong fischertechnik brand as a reference for your pedagogical and valuable range of toy products. Over 30,000 fan club members, optimal support and a well-founded assortment system and diverse additional products serve to promote your sales throughout the year.

## WHAT DO PARENTS GET FROM THIS?

The certainty that their child can playfully enter the world of technology and understand and learn about it. The independent construction of continually new fischertechnik models promotes logical thinking and creativity. Thus, you are supporting the natural talent of your children to grasp technology in the truest sense of the word. The fischertechnik world of your children is boundless because all construction sets fit ideally together and supplement each other.

## WHAT DO CHILDREN GET FROM THIS?

Only the best and they can play and play and play. Creative and concentrated when building models and then fun with role playing with each other.

- A quality product made in Germany.
- High degree of acceptance by parents, teachers and engineers.
- All construction sets can be ideally combined with one another.

Awarded with:



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**fischertechnik** 

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[www.fischertechnik.de](http://www.fischertechnik.de)