



Building Blocks For Life



fischertechnik 



Learn about technology while playing.

2008

JUNIOR

Starting at 5 years old
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BASIC + ADVANCED

Starting at 7 years old
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PROFI

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COMPUTING

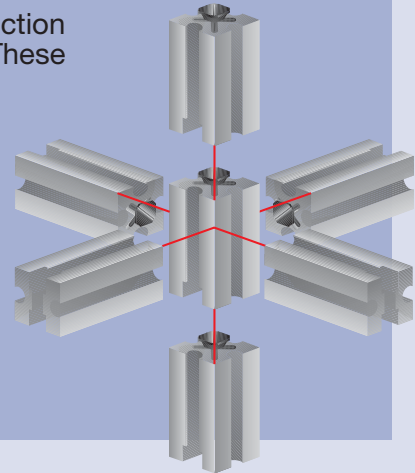
Starting at 10 years old
Page 16

This is the way it works: FOUR productlines and ONE theme

The fischertechnik basic building block can be built 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 ...

DIDACTIC 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

Rescue at the last second ...





NEW ITEMS

Your start in the new season



ADVANCED SWEEPERS

Available as of March 2008

Crumbs on the breakfast table and scraps of paper on the floor of the kid's room—no problem for the four different sweeping machines. The operational models are equipped with up to two high quality and durable foamed plastic brushes. So even dirt on the edges of the curb and in the corners doesn't have a chance. The removable catch container makes it easy to dispose of the waste. This makes cleaning really fun!

- Ideal additions: Power Motor Set, Mini Motor Set, Accu Set, Control Set, Sound+Lights
- **4 models • 310 componentes**



BASIC FIRE COMMANDER

Available as of March 2008

Get out of the way, here comes the fast reaction force from the fire department! The three fast fire trucks have everything under control in every situation—no wonder, the functional fire hose extinguishes every fire. Three models can be assembled.

- Ideal additions: Fire Trucks
- **3 models • 110 componentes**



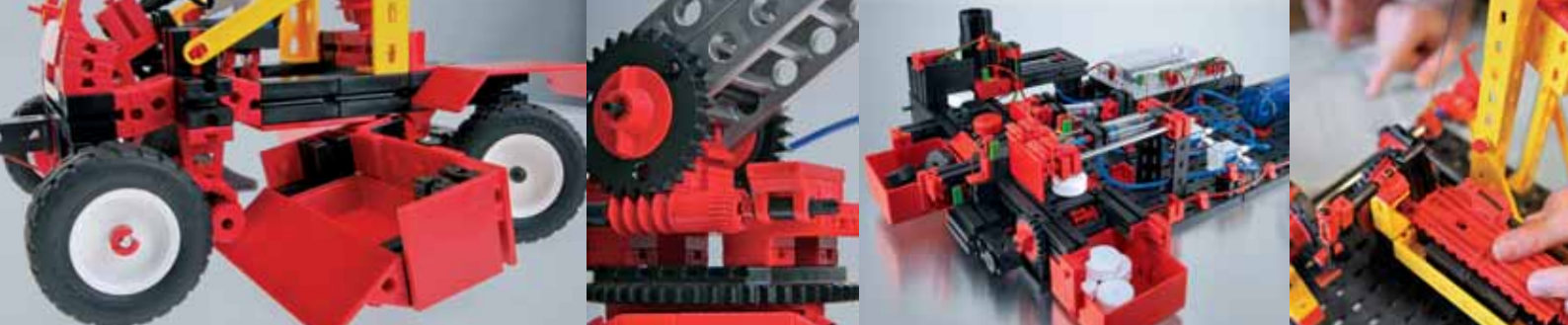
ADVANCED FIRE TRUCKS

Available as of June 2008

The six different fire trucks have operational fire extinguishing equipment. The extendable turntable ladder provides the capability to fight fires and conduct rescue at various heights. Here, fast help is guaranteed. The extendable outriggers secure the vehicle for difficult operations. Various models such as the airport fire department with a roof monitor or an implement truck can be assembled.

A radio message from the headquarters—MOVE INTO ACTION!

- Ideal additions: Fire Commander, Power Motor Set, Mini Motor Set, Accu Set, Control Set, Sound+Lights
- **6 models • 360 componentes**



PLUS CONTROL SET

Available as of June 2008

The three channel infrared remote control allows you to control fischertechnik models from a distance as well. Up to three motors and one servo can be driven proportionally. This means an infinitely variable turning angle of the steering wheel and infinitely variable speed control. Up to four receivers can be operated with the remote control; which allows numerous operational possibilities. The set contains a controller, receiver and a servo.



PLUS SOUND+LIGHTS

Available as of September 2008

If you want to breathe more "life" into the fischertechnik models using sounds and lights then the "Sound+Lights" set is the ideal solution! Up to three different sounds, which can be activated with push buttons or automatically with digital inputs, are available on the sound module. Depending on the requirement, the sounds can be replaced very simply per USB. The blink connection, which is also included, allows the operation of up to six lights as blinking lights. The set contains a sound module with blink electronics, a USB cable, two lights with various colored luminous caps and a battery tray for a 9V block (battery not included).



PROFI DA VINCI MACHINES

Available as of September 2008

This construction set combines several mechanical models, whose origin goes back to designs from Leonardo da Vinci: printing press, file cutting machine, pivoting bridge, odometer and chariot. An activity booklet with numerous illustrations and descriptions for the original designs from Leonardo da Vinci provides information, which is worth learning. History you can touch!

- Includes the didactic activity booklet "Machines from Leonardo da Vinci"
- 10 models • 280 componentes



COMPUTING ROBO PNEUVAC

Available as of September 2008

The themes, pneumatics and vacuum technology, are illustrated with the aid of four models. The electromagnetic valves, which are included, allow the control of the models with a PC. A special vacuum suction apparatus, three pneumatic cylinders, a complete compressor unit, two lights, two phototransistors, an optical color sensor and a conveyor belt round out the construction set.

- Includes the didactic activity booklet, "Pneumatics and Vacuum Technology"
- Additionally required is ROBO Interface, Software ROBO Pro, Accu Set or Energy Set
- Ideal additions:
ROBO I/O-Extension, ROBO RF Data Link
- 4 models • 350 componentes

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 ³)	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 ³)	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



FIRE COMMANDER

Item No. 500 877
Available as of March 2008
EAN 4048962003239

• 110 components, 3 models

Dimension (mm)	Vol (m ³)	Weight
330x80x235	0,0066	600 g

Get out of the way, here comes the fast reaction force from the fire department! The three fast fire trucks have everything under control in every situation—no wonder, the functional fire hose extinguishes every fire. Three models can be assembled.



SERVICE STATION

Item No. 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 ³)	Weight
280x65x180	0,0033	350 g



BOATS

Item No. 46 230
EAN 4006209462300

• 110 components, 3 models

Dimension (mm)	Vol (m ³)	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.



TRACTORS

Item No. 96 779
EAN 4006209967799

• 75 components and 3 models

Dimension (mm)	Vol (m ³)	Weight
280x65x180	0,0033	350 g



CABLE CARS

Item No. 41 859
EAN 4006209418598

• 120 components, 3 models

Dimension (mm)	Vol (m ³)	Weight
330x80x235	0,0066	650 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.



FUN CARS

Item No. 96 777
EAN 4006209967775

• 85 components and 3 models

Dimension (mm)	Vol (m ³)	Weight
280x65x180	0,0033	350 g



CRANES

Item No. 96 778
EAN 4006209967782

• 100 components and 3 models

Dimension (mm)	Vol (m ³)	Weight
280x65x180	0,0033	350 g



BULLDOZER

Item No. 41 858
EAN 4006209418581

• 240 components, 4 models

Dimension (mm)	Vol (m ³)	Weight
330x80x235	0,0066	600 g

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



AIRCRAFT

Item No. 96 776
EAN 4006209967768

• 100 components and 3 models

Dimension (mm)	Vol (m ³)	Weight
280x65x180	0,0033	350 g

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.

fischertechnik in operational use



SWEEPERS

Item No. 500 878 • Available as of March 2008
EAN 4048962003246

Crumbs on the breakfast table and scraps of paper on the floor of the kid's room—no problem for the four different sweeping machines. The operational models are equipped with up to two high quality and durable foamed plastic brushes. So even dirt on the edges of the curb and in the corners doesn't have a chance. The removable catch container makes it easy to dispose of the waste. This makes cleaning really fun!

- **310 components and 4 models**
- Ideal additions: Mini Motor Set · Power Motor Set · Accu Set · Control Set · Sound+Lights on page 13

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1450 g



FIRE TRUCKS

Item No. 500 879 • Available as of June 2008
EAN 4048962003253

The six different fire trucks have operational fire extinguishing equipment. The extendable turntable ladder provides the capability to fight fires and conduct rescue at various heights. Here, fast help is guaranteed. The extendable outriggers secure the vehicle for difficult operations. Various models such as the airport fire department with a roof monitor or an implement truck can be assembled. A radio message from the headquarters—MOVE INTO ACTION!

- **360 components and 6 models**
- Ideal additions: Fire Commander on page 9 · Mini Motor Set · Power Motor Set · Accu Set · Control Set · Sound+Lights on page 13

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1600 g



SHIPS+MORE

Item No. 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.

- **400 components and 8 models**
- Ideal additions: Boats · Cranes on page 9 · Super Cranes on page 12

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1250 g



RC CAR SET

Item No. 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 8 models**
- Ideal additions: Service Station on page 9 · Car Tuning Center on page 11

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1200 g



CAR TUNING CENTER

Item No. 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.

- **340 components and 6 models**
- Ideal additions: Service Station on page 9 · RC Car Set on page 11

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1450 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 ³)	Weight
465x80x320	0,0119	1750 g



ADVANCED

from age 7

This line is a real challenge for real hobby inventors. With up to 950 parts and diverse functions, these constructions sets such as Super Trucks, Super Cranes and Fun Park do justice to their names.

Gigantic



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 · Control Set · Sound+Lights · Energy Set on page 13

Dimension (mm)	Vol (m ³)	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 unhookable trailer and powerful semi-trailer tractor. For small freight forwarders.

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

Dimension (mm)	Vol (m ³)	Weight
465x100x390	0,0181	2950 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.

- 950 components and 3 models
- Ideal additions are: Power Motor Set · Sound+Lights · Control Set · Energy Set 13.

Dimension (mm)	Vol (m ³)	Weight
465x100x390	0,0181	2600 g

PLUS Supplemental Items

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



SOUND+LIGHTS

Item No. 500 880
Available as of September 2008
EAN 4048962003260

- 30 components

Dimension (mm)	Vol (m ³)	Weight
225x65x150	0,0022	250 g

If you want to breathe more "life" into the fischertechnik models using sounds and lights then the "Sound+Lights" set is the ideal solution! Up to three different sounds, which can be activated with push buttons or automatically with digital inputs, are available on the sound module. Depending on the requirement, the sounds can be replaced very simply per USB. The blink connection, which is also included, allows the operation of up to six lights as blinking lights. The set contains a sound module with blink electronics, a USB cable, two lights with various colored luminous caps and a battery tray for a 9V block (battery not included).



CONTROL SET

Item No. 500 881
Available as of June 2008
EAN 4048962003277

- Controller, receiver, servo

Dimension (mm)	Vol (m ³)	Weight
225x65x150	0,0022	350 g

The three channel infrared remote control allows you to control fischertechnik models from a distance as well. Up to three motors and one servo can be driven proportionally. This means an infinitely variable turning angle of the steering wheel and infinitely variable speed control. Up to four receivers can be operated with the remote control; which allows numerous operational possibilities. The set contains a controller, receiver and a servo.



MINI MOTOR SET

Item No. 30 342
EAN 4006209303429

- 50 components

Dimension (mm)	Vol (m ³)	Weight
225x65x150	0,0022	250 g

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 \dots , Max. output 1.1 W at 5000 RPM



POWER MOTOR SET

Item No. 34 965
EAN 4006209349656

- 35 components
- Additionally required is Energy Set or Accu Set

Dimension (mm)	Vol (m ³)	Weight
225x65x150	0,0022	300 g

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

- Performance data: Voltage 9V \dots , max. output 2.4 W at 340 RPM, gear reduction 8:1.



ACCU SET

Item No. 34 969
EAN 4006209349694

- Charger + battery pack in one

Dimension (mm)	Vol (m ³)	Weight
225x65x150	0,0022	800 g

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.



ENERGY SET

Item No. 30 182
EAN 4006209301821

- Power unit + control unit in one

Dimension (mm)	Vol (m ³)	Weight
225x65x150	0,0022	650 g

The power supply from the electrical socket for all fischertechnik models

- Output: 9V \dots , 1000 mA



CREATIVE BOX 1000

Item No. 91 082
EAN 4006209910825

- 700 components + 8 sorting boxes

Dimension (mm)	Vol (m ³)	Weight
395x100x275	0,0109	2900 g

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



BOX 1000

Item No. 30 383
EAN 4006209303832

- 8 sorting boxes • Big building board

Dimension (mm)	Vol (m ³)	Weight
395x100x275	0,0109	1850 g

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

PROFI

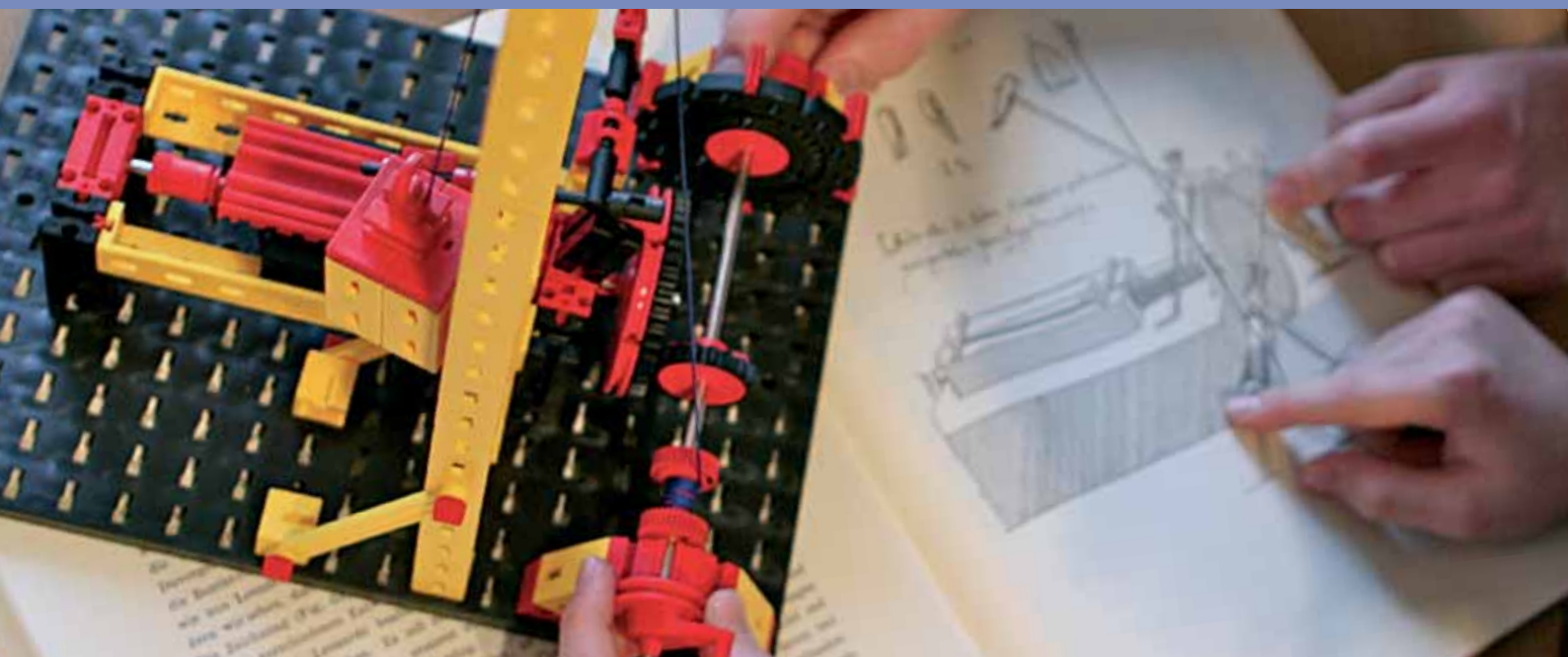
from age 9

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



DA VINCI MACHINES

Item No. 500 882 • Available as of September 2008

EAN 4048962003284

This construction set combines several mechanical models, whose origin goes back to designs from Leonardo da Vinci: printing press, file cutting machine, pivoting bridge, odometer and chariot. An activity booklet with numerous illustrations and descriptions for the original designs from Leonardo da Vinci provides information, which is worth learning. History you can touch!

- Includes the didactic activity booklet "Machines from Leonardo da Vinci"
- 280 components and 10 models

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1800 g



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 ³)	Weight
465x80x320	0,0119	2100 g



Technology and knowledge



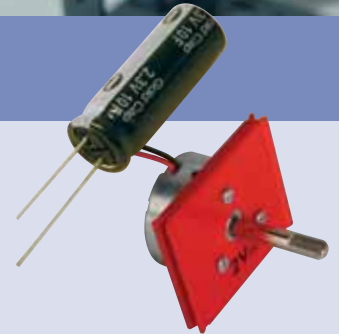
OEEO POWER

Item No. 57 485
EAN 4006209574850

"Renewable energies" will become our most important source 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 ³)	Weight
465x80x320	0,0119	1400 g



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 ³)	Weight
465x80x320	0,0119	2000 g



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 ³)	Weight
465x80x320	0,0119	1700 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 ³)	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 480 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 ³)	Weight
465x80x320	0,0119	2850 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 ³)	Weight
465x80x320	0,0119	1700 g



ROBO PNEUVAC

Item No. 500 883 • Available as of September 2008
 EAN 4048962003291

The themes, pneumatics and vacuum technology, are illustrated with the aid of four models. The electromagnetic valves, which are included, allow the control of the models with a PC.

- Includes vacuum suction apparatus, three pneumatic cylinders, compressor, two lights, two phototransistors, optical color sensor, conveyor belt and 2x "Mini Motor"
- 350 components and 4 models
- Additionally required is ROBO Interface, ROBO Pro Software on page 17 + Accu Set/Energy Set on page 13.
- Ideal addition: ROBO I/O-Extension, ROBO RF Data Link on page 17

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1800 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 Motor", 2 sensors, 3 lights, buzzer, NTC resistor, photoresistor, ultrasonic distance sensor, color sensor and track sensor.
- 420 components and 6 models
- Additionally required is ROBO Interface + ROBO Pro Software on page 17, Accu Set on page 13.
- Ideal addition: RF Data Link on page 17.

Dimension (mm)	Vol (m ³)	Weight
465x80x320	0,0119	1700 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"
- Programable 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 ³)	Weight
225x65x150	0,0022	500 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 ³)	Weight
210x25x150	0,0008	150 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 ³)	Weight
225x65x150	0,0022	300 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 ³)	Weight
225x65x150	0,0022	250 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.



BASIC Fire Commander Item No. 500887 BASIC Cable Cars Item No. 41859 BASIC Boats Item No. 46230 ADVANCED Ships+More Item No. 46233 ADVANCED Fun Park Item No. 57484 ADVANCED Super Cranes Item No. 41862



JUNIOR Starter Item No. 30323 BASIC Aircraft Item No. 96776 BASIC Fun Cars Item No. 96777 PLUS Mini Motor Set Item No. 30342 PLUS Power Motor Set Item No. 34965 PLUS Accu Set Item No. 34969 PLUS Energy Set Item No. 30182 PLUS Control Set Item No. 500881 PLUS Sound+Lights Item No. 500880



JUNIOR Jumbo Pack Item No. 16551 ADVANCED Universal II Item No. 93290 ADVANCED RC Car Set Item No. 46231 ADVANCED Fire Trucks Item No. 500879 ADVANCED Sweepers Item No. 500878



PROFI Mechanic+Static Item No. 93291 PROFI Oeko Power Item No. 57485 PROFI Pneumatic II Item No. 77791 PROFI E-Tec Item No. 91083 PROFI da Vinci Machines Item No. 500882



COMPUTING ROBO Starter Set Item No. 41863 COMPUTING ROBO Mobile Set Item No. 93292 COMPUTING ROBO Explorer Item No. 46234 COMPUTING ROBO PneuVac Item No. 500883 PLUS Box 1000 Item No. 30383 COMPUTING Interface Item No. 93293

SALES PROMOTION

We support your sales with highly effective and attention-getting measures and aids so that you can achieve the optimal presentation at the point of sale (POS) and in the display window for the best-possible attraction of the end consumer.

Optimal Support



► **End Consumer flyer**
Item No. 39 090



► **Hourly Schedule**
20x15 cm, Item No. 43 353



► **Shopping bag**
46x59 cm, Item No. 43 355



► **Poster ADVANCED**
DIN A1, Item No. 39 265



► **Poster COMPUTING**
DIN A1, Item No. 39 126

► **Flag**
1800 mm x 800 mm
Item No. 500 887



► **Luminous logo**
1250 mm x 200 mm, Item No. 50 460



► **Informative and exciting POS video that strengthens sales**
(upon request)



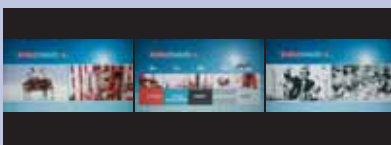
► **Shelf Strips**
in various lengths, Item No. 39 911



► **Top SIGN**
1250 mm x 300 mm,
Item No. 39 917
1000 mm x 300 mm,
Item No. 47 227



► **Specialized Retailer Sticker**
300 mm x 60 mm
(German or English)



► **Play box**
(upon request)

The play box allows the little designers to experience the fischertechnik world in a realistic and gripping way. With the many components and instructions, the

play box provides optimal support for your events. The nice thing about it is that you can use it again and again.

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.

TOP 10

fischertechnik was nominated for the TOP 10 Toy Prize. Profit from the direct contacts, which number over 400,000, resulting from this.



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.



FAN-CLUB EVENTS

The big Fan Club Day in Tumlingen and movie events, which were organized, are only one example of successful Fan Club meetings. We can also find the fitting event for you. Use the potential offered by our Fan Club. We will be happy to provide you with information.



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

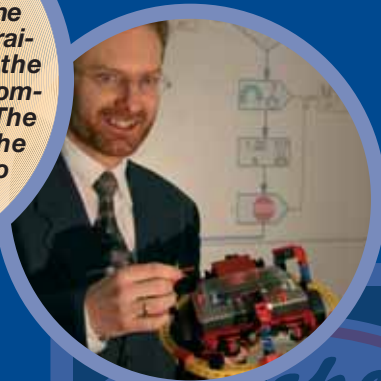
Participants in RoboCup and research by young people employ fischertechnik successfully in the most varied of areas. The high quality of workmanship and variability are highly valued. With fischertechnik, you can find the optimal solution for every application.

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

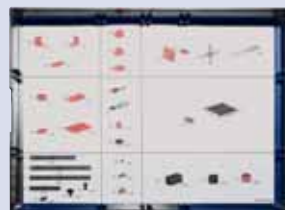


Activity booklet



Worksheets

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).



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

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



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 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.

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.

- 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.
- Promotes motoric abilities and the fine motor functions.
- fischertechnik is used very successfully in schools and universities as instructional material.
- Awarded with:



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www.fischertechnik.de

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