



Building Blocks For Life



fischertechnik 



Learn about technology while playing.

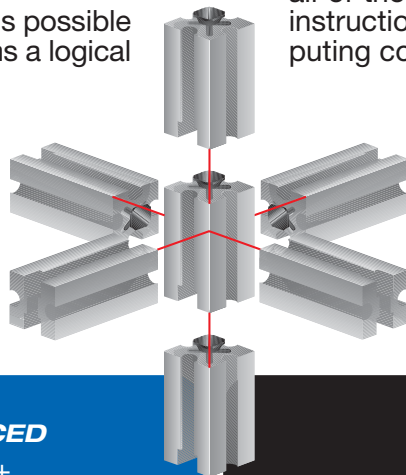
2009

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

5+

BASIC + ADVANCED

7+

PROFI

9+

COMPUTING

10+



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.



PLUS

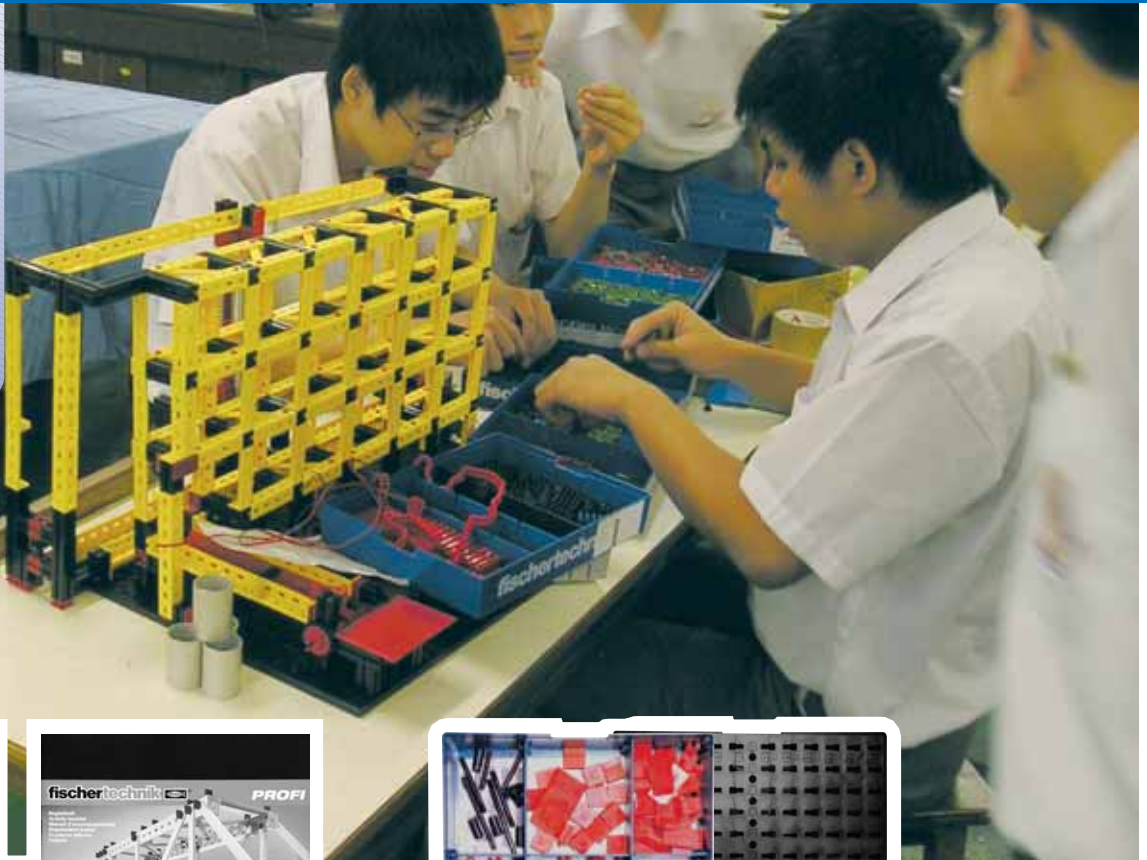
For optimal supplementation see page 13.

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



Construction sets and more ...

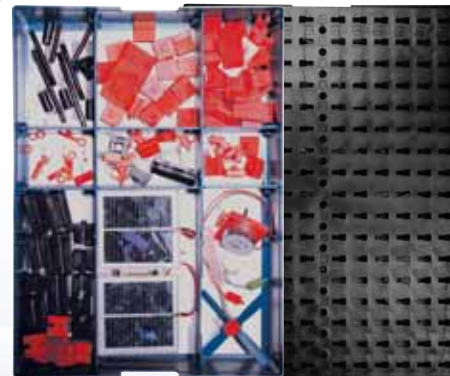
For fischertechnik, the one-time construction and collection of the models is not important, on the contrary, it is the repeated searching and discovery, the independent and creative development of the person's own ideas and imagination and the art of being able to turn these into reality.



Assembly instructions



Activity Booklet

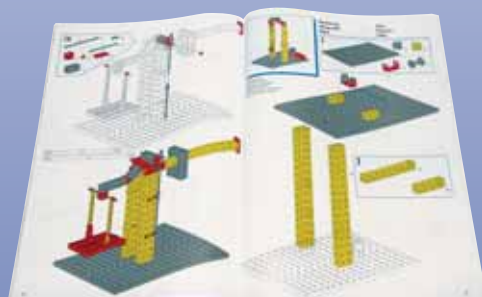


Base Plate
258x186 mm
Item No.: 32 985

Box 500
Item No.: 94 828

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 PROFILand COMPUTING construction sets with illustrations and easy-to-understand information.



SYSTEMATIC STORAGE

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



Box 1000
Item No.: 30 383



The sorting boxes in the construction sets create order.





Available as of spring 2009



CARS

Item No.: 505 279

Center pivot steering, monster quad and go-cart—the fitting set of wheels for every terrain.



BIKES

Item No.: 505 278

These three motorcycle models radiate a breath of freedom. There is a suitable model for everyone: Chopper, touring or sidecar team—which type suits you the best?

Available as of summer 2009



BIG BULLDOZER

Item No.: 505 280

Blocky tracked vehicles are cleaning up! This construction set offers four bulldozer types, which remain stable during play, with realistic details such as cable winch, dozer blade that can be raised and lowered and nonskid tracks. Mount up, let's go!



POWER SET

Item No.: 505 283

Power unit and infinitely variable control unit. The power supply from the electrical socket for all fischertechnik models.

Available as of fall 2009



ECO TECH

Item No.: 505 284

"Renewable energies" will become our most important suppliers of energy in the future. The production, storage and use of electricity from natural energy sources such as water, wind and the sun are graphically illustrated using various models and numerous experiments. This is the way to create an understanding of the future energy forms. The hydro cell kit offers an ideal addition. With this expansion construction set, you can build several models and operate them with a fuel cell.



ROBO TX CONTROLLER

Item No.: 500 995

The controller with 32-bit processor, display, high storage capacity and with compact casing (90x90x15mm) offers numerous attachment possibilities on five sides. With integrated Bluetooth radio interface (2.4 GHz, range about 10 m). Several ROBO TX controllers can be coupled together.

- 32-bit ARM 9 processor (200MHz)
- Storage capacity: 8 MB RAM, 2 MB flash
- Weight only 90g
- 8 Universal inputs: Digital, analog 0-9V DC, analog 0-5kΩΩ
- 4 fast counting inputs: Digital, frequency up to 1kHz
- 4 motor outputs, 9V, 250mA: Speed infinitely variable, short circuit proof, alternatively 8 individual outputs
- 2 expansion connections: I²C and RS 485 for coupling of additional ROBO TX Controller
- Display: 128x64 pixel, monochrome
- USB interface: USB 2.0 (1.1 compatible), max. 12 MB, including mini-USB socket connector
- Programable with ROBO Pro software or C compiler (not included).
- Includes USB connection cable
- Additionally required is Accu Set or Power Set.



MOTOR SET XM

Item No.: 505 282

High performance geared motor in compact plastic casing with numerous possibilities for attachments. With many toothed gears, axles and gearbox parts.



ROBO TX TRAINING LAB

Item No.: 505 286

Computing beginner construction set with everything you need for this: Consisting of 200 components for the building of six mobile robot models, for example, driverless transport system, obstacle detector and trail searcher etc., two encoder motors for exact positioning, motor XS, infrared trail sensor, two sensing devices. It also includes the new compact and powerful "ROBO TX controller" with Bluetooth radio interface, 32-bit processor (200 MHz), eight universal inputs and 8 MB RAM (2 MB flash), including software "ROBO Pro" for programming. The extensive accessories provide many possibilities for creativity.



HYDRO CELL KIT

Item No.: 505 285

How does a fuel cell work? How can you produce hydrogen with it? This construction set provides knowledge for all areas associated with this exciting topic. With the fuel cell and the additional solar module, interesting additional models can be built in connection with the construction set, Oeco Tech. The didactic activity booklet offers assistance. All of your questions are answered.



MOTOR SET XS

Item No.: 505 281

Thanks to the compact measurements, this motor can be installed almost anyplace. In addition to the building blocks, gearbox parts and toothed gears, the set also contains a safety battery tray for 9V block batteries (battery not included) with integrated pole-reversing switch.

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.



STARTER

The entry construction set.

Components:	50
Models:	4
Item No.:	30 323
EAN:	4006209303238

Dimension (mm):	280x65x180
Vol (m³):	0,0033
Weight:	330 g



JUMBO PACK

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

Components:	135
Models:	14
Item No.:	16 551
EAN:	4006209165515

Dimension (mm):	465x80x320
Vol (m³):	0,0119
Weight:	1220 g



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.

NEW



CARTS

Available as of spring 2009

Components:	50	Dimension (mm):	225x65x150
Models:	3	Vol (m³):	0,0022
Item No.:	505 279	Weight:	200 g
EAN:	4048962069402		



TRACTORS

Components:	75	Dimension (mm):	280x65x180
Models:	3	Vol (m³):	0,0033
Item No.:	96 779	Weight:	310 g
EAN:	4006209967799		



AIRCRAFT

Components:	100	Dimension (mm):	280x65x180
Models:	3	Vol (m³):	0,0033
Item No.:	96 776	Weight:	290 g
EAN:	4006209967768		

NEW



BIKES

Available as of spring 2009

Components:	80	Dimension (mm):	225x65x150
Models:	3	Vol (m³):	0,0022
Item No.:	505 278	Weight:	220 g
EAN:	4048962069396		



FUN CARS

Components:	85	Dimension (mm):	280x65x180
Models:	3	Vol (m³):	0,0033
Item No.:	96 777	Weight:	290 g
EAN:	4006209967775		



CRANES

Components:	100	Dimension (mm):	280x65x180
Models:	3	Vol (m³):	0,0033
Item No.:	96 778	Weight:	330 g
EAN:	4006209967782		



FIRE COMMANDER

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.

Components:	110
Models:	3
Item No.:	500 877
EAN:	4048962003239
Dimension (mm):	330x80x235
Vol (m³):	0,0062
Weight:	590 g



BOATS

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

Components:	110
Models:	3
Item No.:	46 230
EAN:	4006209462300
Dimension (mm):	330x80x235
Vol (m³):	0,0062
Weight:	520 g



BULLDOZER

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

Components:	240
Models:	4
Item No.:	41 858
EAN:	4006209418581
Dimension (mm):	330x80x235
Vol (m³):	0,0062
Weight:	570 g



CABLE CARS

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.

Components:	120
Models:	3
Item No.:	41 859
EAN:	4006209418598
Dimension (mm):	330x80x235
Vol (m³):	0,0062
Weight:	610 g

from age 7



RC CAR SET

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.



SWEEPERS

Crumbs on the breakfast table and scraps of paper on the floor of the kid's room—no problem for the five 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: Motor Set XS · Motor Set XM · Control Set · Sound+Lights · Accu Set



UNIVERSAL II

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.

- Ideal additions are: Motor Set XS · Motor Set XM · Sound+Lights · Accu Set · Power Set

Components: **160**
Models: **8**
Item No.: **46 231**
EAN: **4006209462317**

Dimension (mm):
465x80x320
Vol (m³): **0,0119**
Weight: **1220 g**



Components: **310**
Models: **5**
Item No.: **500 878**
EAN: **4048962003246**

Dimension (mm):
465x80x320
Vol (m³): **0,0119**
Weight: **1190 g**



Components: **400**
Models: **48**
Item No.: **93 290**
EAN: **4006209932902**

Dimension (mm):
465x80x320
Vol (m³): **0,0119**
Weight: **1780 g**



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.



SHIPS+MORE

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.

- Ideal additions: Boats · Cranes · Super Cranes

Components: **400**

Models: **10**

Item No.: **46 233**

EAN: **4006209462331**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **1240 g**



FIRE TRUCKS

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 on page 9 · Motor Set XS · Motor Set XM · Control Set · Sound+Lights · Accu Set

Components: **430**

Models: **6**

Item No.: **500 879**

EAN: **4048962003253**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **1560 g**



BIG BULLDOZER

Blocky tracked vehicles are cleaning up! This construction set offers four bulldozer types, which remain stable during play, with realistic details such as cable winch, dozer blade that can be raised and lowered and nonskid tracks. Mount up, let's go!

- Ideal additions are: Motor Set XS · Motor Set XM · Control Set · Sound+Lights · Accu Set

Available as of summer 2009

Components: **600**

Models: **4**

Item No.: **505 280**

EAN: **4048962069419**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **1400 g**



ADVANCED

from age 7

This line is a real challenge for real hobby inventors. With up to 800 parts and diverse functions, these constructions sets such as "SUPER TRUCKS" and "SUPER CRANES" do justice to their names.



SUPER CRANES

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

- Ideal additions are: Motor Set XS · Control Set · Sound+Lights · Power Set

Components: **780**
Models: **3**
Item No.: **41 862**
EAN: **4006209418628**

Dimension (mm):
465x100x390
Vol (m³): **0,0181**
Weight: **2280 g**



SUPER TRUCKS

Six different heavy duty trucks hit the road! The low-bed trailer for really heavy equipment such as the big "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.

- Ideal additions are: Motor Set XS · Motor Set XM · Control Set · Sound+Lights · Accu Set

Components: **800**
Models: **6**
Item No.: **77 790**
EAN: **4006209777909**

Dimension (mm):
465x100x390
Vol (m³): **0,0181**
Weight: **2820 g**



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

NEW



MOTOR SET XS

Thanks to the compact measurements, this motor can be installed almost anywhere. In addition to the building blocks, gearbox parts and toothed gears, the set also contains a safety battery tray for 9V block batteries (battery not included) with integrated pole-reversing switch.

- Performance data: Voltage 9V \pm , max. output 1,0 W at 5000 RPM

Available as of fall 2009

Components: **40**

Maße (mm):

225x65x150

Item No.: **505 281**

Vol (m³): **0,0022**

EAN: **4048962069426**

Gewicht: **250 g**

NEW



MOTOR SET XM

High performance geared motor in compact plastic casing with numerous possibilities for attachments. With many toothed gears, axles and gearbox parts.

- Performance data: Voltage 9V \pm , max. output 1.8 W at about 250 RPM
- Additionally required is Accu Set or Power Set

Available as of summer 2009

Components: **30**

Maße (mm):

225x65x150

Item No.: **505 282**

Vol (m³): **0,0022**

EAN: **4048962069433**

Gewicht: **300 g**

CREATIVE BOX 1000

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

Components: **700**

Models: **8 sorting boxes**

Item No.: **91 082**

EAN: **4006209910825**

Dimension (mm):

390x95x270

Vol (m³): **0,0100**

Weight: **2700 g**



SOUND+LIGHTS

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 eight 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).

Components: **30**

System: **Windows®**

Item No.: **500 880**

EAN: **4048962003260**

Maße (mm):

225x65x150

Vol (m³): **0,0022**

Gewicht: **280 g**



CONTROL SET

The four 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.

Components: **Controller, receiver, servo**

Item No.: **500 881**

EAN: **4048962003277**

Maße (mm):

225x65x150

Vol (m³): **0,0022**

Gewicht: **360 g**



ACCU SET

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.

Components: **Charger + battery pack in one**

Item No.: **34 969**

EAN: **4006209349694**

Maße (mm):

225x65x150

Vol (m³): **0,0022**

Gewicht: **880 g**

NEW



POWER SET

Power unit and infinitely variable control unit. The power supply from the electrical socket for all fischertechnik models.

- Performance data: 9V \pm , 1000 mA

Available as of summer 2009

Components: **Power unit + control unit in one**

Item No.: **505 283**

EAN: **4048962069440**

Maße (mm):

225x65x150

Vol (m³): **0,0022**

Gewicht: **650 g**

BOX 1000

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

Components: **Big building board**

Models: **8 sorting boxes**

Item No.: **30 383**

EAN: **4006209303832**

Dimension (mm):

390x95x270

Vol (m³): **0,0100**

Weight: **1890 g**



from age 9



NEW



NEW

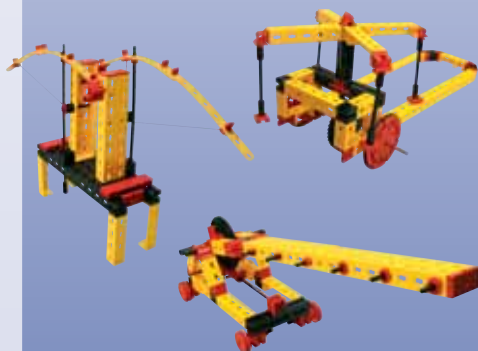


DA VINCI MACHINES

This construction set combines several mechanical models, whose origin goes back to designs from Leonardo da Vinci: file cutting machine, pivoting bridge 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"

Components: 260	Dimension (mm):
Models: 10	465x80x320
Item No.: 500 882	Vol (m³): 0,0119
EAN: 4048962003284	Weight: 1570 g



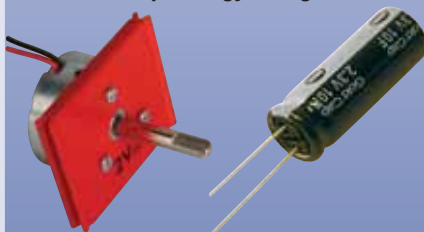
ECO TECH

"Renewable energies" will become our most important suppliers of energy in the future. The production, storage and use of electricity from natural energy sources such as water, wind and the sun are graphically illustrated using various models and numerous experiments. This is the way to create an understanding of the future energy forms. The hydro cell kit offers an ideal addition. With this expansion construction set, you can build several models and operate them with a fuel cell.

Available as of fall 2009

Components: 250	Dimension (mm):
Models: 8	465x80x320
Item No.: 505 284	Vol (m³): 0,0119
EAN: 4048962069457	Weight: 1400 g

- Includes the didactic activity booklet, "Renewable Energies"
- Includes solar motor, solar module (1.2 V; 440 mA) and "Gold Cap" energy storage unit.



HYDRO CELL KIT

How does a fuel cell work? How can you produce hydrogen with it? This construction set provides knowledge for all areas associated with this exciting topic. With the fuel cell and the additional solar module, interesting additional models can be built in connection with the construction set, "Eco Tech". The didactic activity booklet offers assistance. All of your questions are answered.

(NOTE: The "Eco Tech" item No. 505 284 is absolutely required for operation.)

Available as of fall 2009

Components: 30	Dimension (mm):
Models: 4	225x65x150
Item No.: 505 285	Vol (m³): 0,0022
EAN: 4048962069464	Weight: 530 g

- Includes the didactic activity booklet, "Energy from Hydrogen"
- Includes reversible fuel cell with integrated hydrogen storage unit, solar module (1.2 V; 440 mA)



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.



MECHANIC+STATIC

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

Components: **500**

Models: **30**

Item No.: **93 291**

EAN: **4006209932919**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **2090 g**



PNEUMATIC II

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

Components: **400**

Models: **8**

Item No.: **77 791**

EAN: **4006209777916**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **1970 g**



E-TECH

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-Tech Modul" (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-Tech Modul", sensor, lightbarrier, magnetic sensor and buzzer

Components: **260**

Models: **12**

Item No.: **91 083**

EAN: **4006209910832**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **1720 g**



from age 10



NEW

NEW



Bluetooth



Bluetooth



ROBO PRO SOFTWARE

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.

ROBO TX CONTROLLER

The controller with 32-bit processor, display, high storage capacity and with compact casing (90x90x15mm) offers numerous attachment possibilities on five sides. With integrated Bluetooth radio interface (2.4 GHz, range about 10 m). Several "ROBO TX Controller" can be coupled together.

- 32-bit ARM 9 processor (200 MHz)
- Storage capacity: 8 MB RAM, 2 MB flash
- Weight only 90g
- 8 Universal inputs: Digital, analog 0-9V DC, analog 0-5kΩ
- 4 fast counting inputs: Digital, frequency up to 1kHz

Available as of spring 2009

Item No.:	93 296	Dimension (mm):	210x25x150
System:	Windows® 98, ME, NT, XP, Vista (32-bit Version)	Vol (m³):	0,0008
EAN:	4006209932964	Weight:	140 g



Components:		Dimension (mm):	225x65x150
Models:		Vol (m³):	0,0022
Item No.:	500 995	Weight:	375 g
EAN:	4048962003826		

- 4 motor outputs, 9V, 250mA: Speed infinitely variable, short circuit proof, alternatively 8 individual outputs
- 2 expansion connections: I²C and RS 485 for coupling of additional ROBO TX controllers
- Display: 128x64 pixel, monochrome
- USB interface: USB 2.0 (1.1 compatible), max. 12 MB, including mini-USB socket connector
- Programable with "ROBO Pro Software" or C compiler (not included)
- Includes USB connection cable.
- Additionally required is Power Set or Accu Set

ROBO TX TRAINING LAB

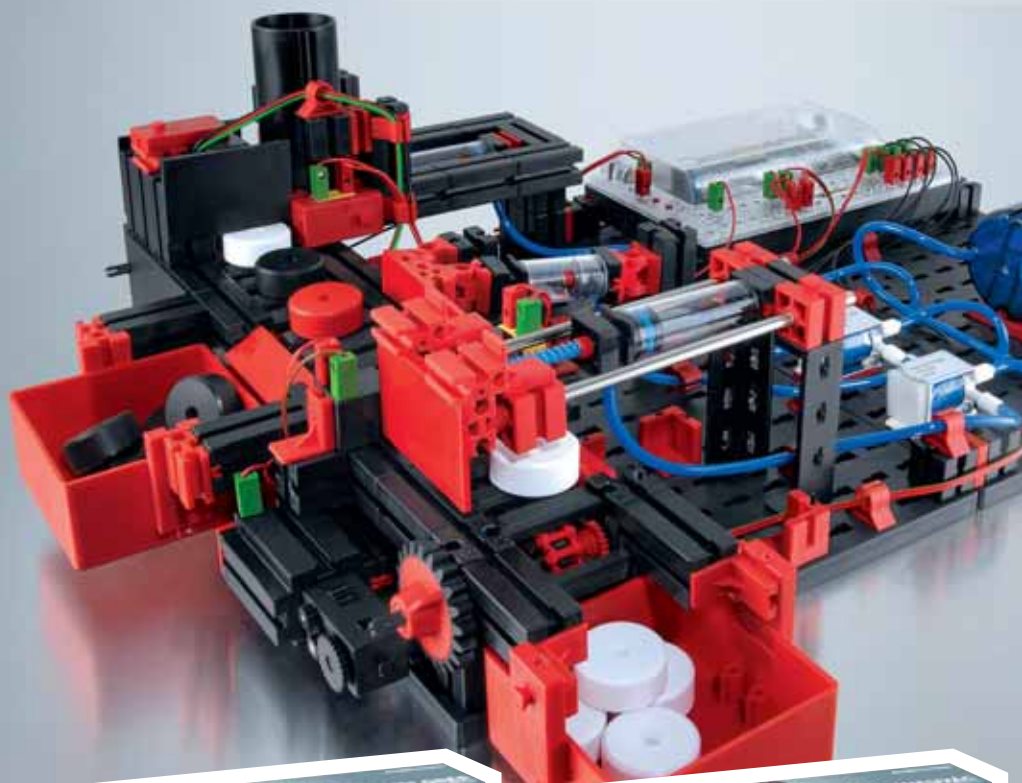
Computing beginner construction set with everything you need for this: Consisting of 200 components for the building of six mobile robot models, for example, driverless transport system, obstacle detector and trail searcher etc., two encoder motors for exact positioning, "Motor XS", infrared trail sensor, two sensing devices. It also includes the new compact and powerful "ROBO TX Controller" with Bluetooth radio interface, 32-bit processor (200 MHz), eight universal inputs and 8 MB RAM (2 MB flash), including software "ROBO Pro" for programming. The extensive accessories provide many possibilities for creativity.

Available as of summer 2009

Components:	200	Dimension (mm):	465x80x320
Models:	6	Vol (m³):	0,0119
Item No.:	505 286	Weight:	2850 g
EAN:	4048962069471		

- Includes the didactic activity booklet, "Programming and Control of fischertechnik Robots with the PC."
- Includes "ROBO TX Controller"
- Includes control software, "ROBO Pro"
- Includes 2 each encoder motors, "Motor XS", infrared trail sensor, 2 each sensing devices
- Additionally required is Accu Set





Construct machines and robot models, program the control software on the PC and put the whole thing into motion: What sounds so complicated, becomes a fascinating and creative game with COMPUTING and not only for children who are crazy about technical things. 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 and in addition the "ROBO TX Controller." This converts the computer commands into control signals for the motors.



ROBO EXPLORER

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 optical color sensor and the specially developed infrared 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.

Components: **420**

Models: **6**

Item No.: **46 234**

EAN: **4006209462348**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **1690 g**

- Includes 2x "Power Motor", 2 sensors, 3 lights, buzzer, NTC resistor, photoresistor, ultrasonic distance sensor, optical color sensor and infrared track sensor.
- Additionally required is ROBO TX Controller, Software ROBO Pro, Accu Set



ROBO PNEUVAC

The themes, pneumatics and vacuum technology, are illustrated with the aid of five 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"
- Additionally required is ROBO TX Controller, Software ROBO Pro, Accu Set or Power Set

Components: **490**

Models: **5**

Item No.: **500 883**

EAN: **4048962003291**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **2150 g**



INDUSTRY ROBOTS II

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
- Additionally required is ROBO TX Controller, Software ROBO Pro, Accu Set or Power Set

Components: **360**

Models: **3**

Item No.: **96 782**

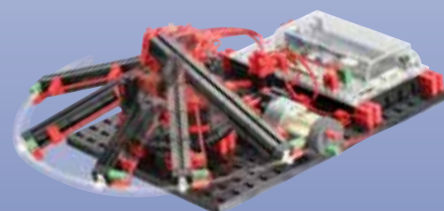
EAN: **4006209967829**

Dimension (mm):

465x80x320

Vol (m³): **0,0119**

Weight: **2020 g**



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.



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



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

**Windmill display model
with light and solar module**
260x200x520 mm, Item No. 505 044

Flag
1800 mm x 800 mm
Item No. 500 887

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



Shelf Strips
in various lengths, Item No. 39 911



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

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



► **Spezialized
Retails 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.



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



↓ **Poster ADVANCED**
DIN A1, Item No. 39 125



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



The construction sets from fischertechnik:

- ... promote eye and hand coordination;
- ... promote gross and fine motor functions;
- ... promote the spatial powers of imagination;
- ... promote fantasy and creativity;
- ... promote logical thought; and
- ... provide basic technical understanding.

The products from fischertechnik are learning toys "made in Germany" and are produced at the location in Tumlingen in the Black Forest. All construction sets can be ideally combined with one another. The high acceptance by parents, teachers and engineers makes fischertechnik a successful educational material for schools and universities.



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.

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.



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.



FAN-CLUB EVENTS

The big Fan Club Day in Tümlingen 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.



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



PRESS WORK

In addition to the publication of editorial articles in family and children's magazines with a large circulation, prize game promotions are also conducted. In this way, we generate over 11.5 million direct customer contacts per year.



PRINT ADVERTISEMENT

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



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.



DIDAKTIC 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.

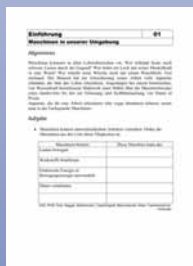
In addition, there is the very practical and systematically constructed storage system where each part has its place and is quickly found and helps with the daily didactic work (available separately).



Assembly instructions

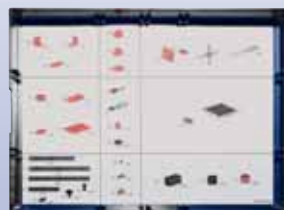


Activity booklet



Worksheets

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



Sorting box
Item. No.: 94 828

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



For training and in-service training

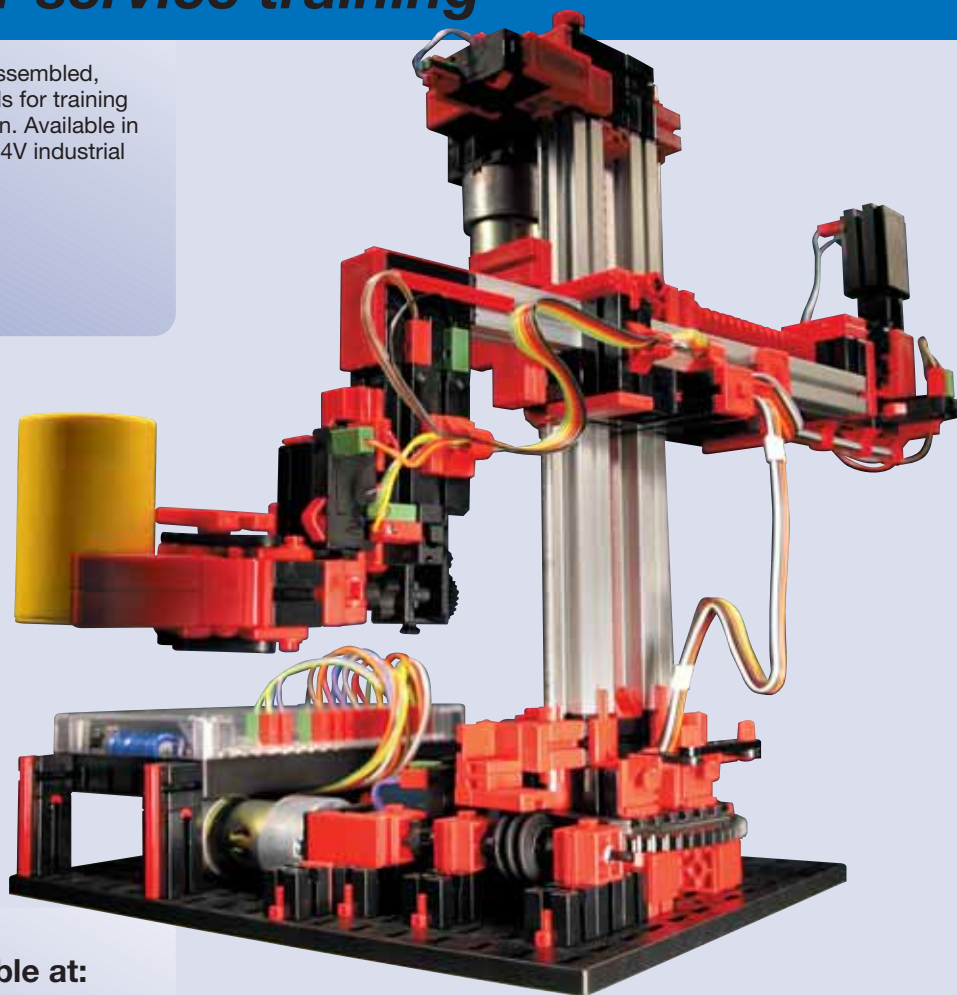
Compact function models, which are already assembled, provide ideal training and demonstration models for training and in-service training and industrial automation. Available in the 9V standard voltage and in the worldwide 24V industrial standard.

TRAINING MODELS

3-D-ROBOT

3-axis robot with grapple,
4 direct current motors, 4 limit switches,
4 pulse sensing devices for
measuring distances.

All probes are potential-free.

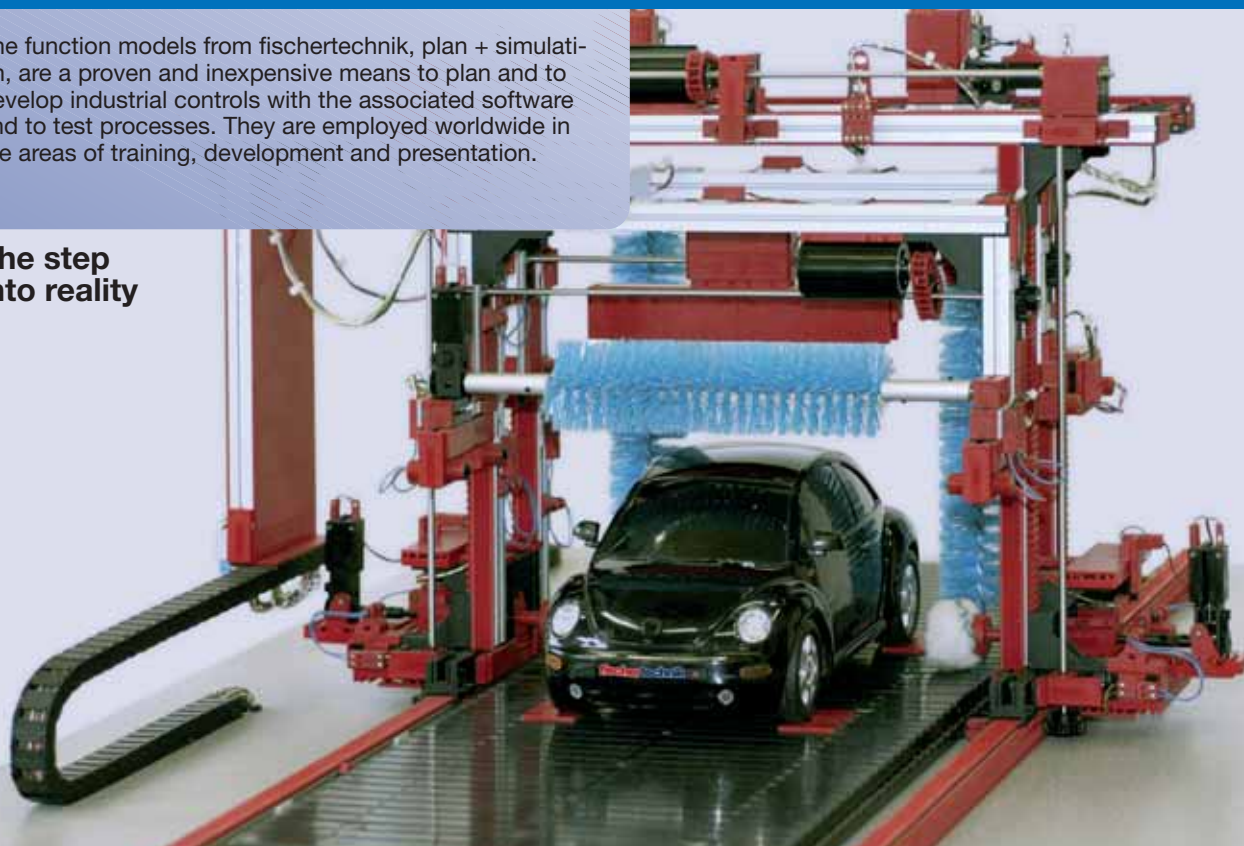


Additional information is available at:
»<http://www.fischertechnik.de>«

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.

The step into reality



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.

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.

fischertechnik GmbH
Weinhalde 14-18, D-72178 Waldachtal
Phone +49 74 43/12-42 93, Fax +49 74 43/12-45 91
E-mail: info@fischertechnik.de

fischertechnik 

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