

**Building Blocks For Life** 

## fischertechnik



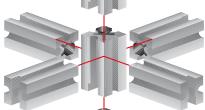
The fischertechnik basic building block can be built on all six sides. This "many-sided" building block forms the basis for all fischertechnik construction sets, which are put together according to age and capabilities of the children. These sets allow you to experience the real technology and learn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

stand 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.



RASIC +







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.







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 8 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, page 13 Everything that makes fischertechnik still more attractive: fischertechnik PLUS provides light, movement, sound and more fun in playing.





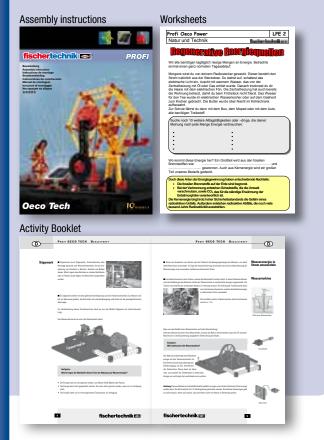


## **Construction** sets and more ...

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.



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 easyto-understand information.



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







## The new products for 2010



## **Available starting in spring**

6

**SUPER FUN PARK** 

Complete construction set with motor and battery tray. With over 600 components, you can build a motorized Ferris wheel or a merry-go-round. The Ferris wheel has a diameter of over 50 cm and is equipped with six gondolas — a model that creates a real fair atmosphere.



- Includes XS motor and battery tray for 9V block (battery not included).
- 620 components
- 2 models



## **Available starting in summer**

On the trail of James Watt, Michael Faraday and other famous inventors. The construction set brings new life to important moments of technology history. Important technological inventions can be reproduced as functional models, for example, an electric motor, cardan shaft, perpetuum mobile, a Morse telegraph and a generator. The didactic activity booklet provides additional background information. For little creative tinkerers and inventors starting with nine years old.



- Includes the didactic activity booklet.
- Includes XS motor and battery tray for 9V block (battery not included).
- 220 components
- 11 models





## **Available starting in summer**

The new complete beginner's packet for kids starting with eight years old. Using over 180 components and with the help of sensors (phototransistor, push-button switch) and the actuators (XS motor, indicator lights), children can construct eight easy to understand models such as a lighthouse with a blinking light, a merry-go-round or an automatic sliding door. The new control ROBO LT Controller with three inputs for sensors and two outputs for motors or indicator lights has a USB interface. The new software ROBO Pro Light allows quick and childishly easy programing. The detailed didactic accompanying material supports the learning process for children and explains the programing in a way, which is easy to understand. For tomorrow's engineers.



- Includes didactic accompanying material.
- Includes ROBO LT Controller as control (USB interface).
- Includes control software ROBO Pro Light.
- Includes XS motor, two indicator lights, phototransistor and push-button switch.
- 180 components 8 models





RoboCup

TX EXPL

## **Available now**

Explore unknown areas, measure distances, follow trails, 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 TX Explorer sensors can do all of this and lots more: The NTC resistor, the photoresistor, the ultrasonic distance sensor, the infrared color sensor and the specially developed trail sensor. Thanks to two encoder motors, the tracks can be controlled precisely and steered synchronically. With the rescue robot, which is contained as a model, the construction set provides the ideal basis for participation in the RoboCup.



- Includes the didactic activity booklet.
- Includes two encoder motors, three indicator lights, buzzer, NTC resistor, photoresistor, ultrasonic distance sensor, optical color sensor and an IR trail sensor.
- 400 components 6 models

## JUNIOR 10 5+

Components: 50

30 323

4006209303238 Weight:

Models:

Item No.:

EAN:

Dimension

(mm):

Vol (m³):

280x65x180

0,0033 325 g Kids can celebrate their first building success with the easy-to-understand assembly. Concentration and motor skills are playfully promoted with the handy components and the many possible variations.



Components: 135

16 551

4006209165515 Weight:

Models:

EAN:

Item No.:

Dimension

(mm):

Vol (m³):

465x80x320

0,0119 1205 g

## BASIC 1 7+

The "good value" BASIC construction sets provide a lot of enjoyment for building and playing. Cable car, helicopter or motorcycle: the broad diversity of the everyday technology is amazingly simple, but so realistic.



CARTS



Components:	85	Dimensio	n
Models:	3	(mm):	225x65x150
Item No.:	505 279	Vol (m³):	0,0022
EAN:	4048962069402	Weight:	220 g

3IKES



Components:	80	Dimensio	n
Models:	3	(mm):	225x65x150
Item No.:	505 278	Vol (m³):	0,0022
EAN:	4048962069396	Weight:	210 g

SEILBAHNEN

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	s: <b>100</b>	Dimensio	n
Models:	3	(mm):	280x65x180
Item No.:	96 776	Vol (m³):	0,0033
EAN:	4006209967768	Weight:	295 g

**FUN CARS** 



Components:	85	Dimensio	n
Models:	3	(mm):	280x65x180
Item No.:	96 777	Vol (m³):	0,0033
EAN:	4006209967775	Weight:	295 g

 Components: 120
 Dimension

 Models:
 3
 (mm):
 330x80x235

 Item No.:
 41 859
 Vol (m³):
 0,0062

 EAN:
 4006209418598
 Weight:
 605 g

## ADVANCED 100 7+



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.



**Motor Set XS · Motor Set XM · Power Set** 

Components: 400 Dimension Models: (mm): 465x80x320 Item No.: Vol (m3): 0,0119 4006209932902 Weight: 1770 g EAN:

Crumbs on the breakfast table and scraps of paper on the floor **SWEEPERS** 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!



Components: 310 Dimension Models: (mm): 465x80x320 Vol (m³): 0,0119 Item No.: 4048962003246 Weight: EAN: 1180 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.



ADVANCED (1) 7+

This line is a real challenge for real hobby inventors. With up to 800 parts and diverse functions, these constructions sets "Super Fun Park", "Super Trucks" and "Super Cranes" do justice to their names.



Complete construction set with motor and battery tray. With over 600 components, you can build a motorized Ferris wheel or a merry-go-round. The Ferris wheel has a diameter of over 50 cm and is equipped with six gondolas — a model that creates a real fair atmos-

phere.



 Includes XS motor and battery tray for 9V block (battery not included).

Ideal additions (page 13):

## Sound+Lights · Power Set

Dimension Components: 620 Models: (mm): 465x80x390 0,0145 Item No.: Vol (m3): 2500 g 4048962095647 EAN: Weight:

Caution: Giants at work! More than SUPER CRANES 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 (page 13):

Motor Set XS · Motor Set XM · Sound+Lights · **Control Set · Power Set** 

Components: 780 Dimension Models: (mm): 465x100x390 0,0181 2280 g Vol (m³): Item No.: 41 862 4006209418628 EAN: Weight:

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 (page 13):

Motor Set XS · Motor Set XM · Sound+Lights · **Control Set · Accu Set** 

Components:	800	Dimension	
Models:	6	(mm): 4	65x100x390
Item No.:	77 790	Vol (m³):	0,0181
EAN:	4006209777909	Weight:	2850 g



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 with integrated pole-reversing switch for nine volt block batteries (battery not included). Performance data: Voltage 9V ..., max. output 1.0 W at 6000 RPM

		Dimension		
Components:	45	(mm):	225x65x15	
Item No.:	505 281	Vol (m³):	0,0022	
EAN:	4048962069426	Weight:	200 g	
		•		

# SOUND+LIGHTS



If you want to breathe still 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, can be placed 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 indicator lights as blinking lights. The set contains a sound module with blink electronics, a USB cable, two indicator lights with various colored luminous caps and a battery tray for a nine volt block (battery not included). Only Windows®

Components: 30		Dimension		
System:	Windows®	(mm):	225x65x150	
Item No.:	500 880	Vol (m³):	0,0022	
EAN:	4048962003260	Weight:	270 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, 13 8.4V, 1500mAh.

	Charger + battery	Dimension		
onents:	pack in one	(mm):	225x65x150	
No.:	34 969	Vol (m³):	0,0022	
	4006209349694	Weight:	880 g	

# **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 ..., max. output 3.0 W about 340 RPM
- Additionally required is **Accu Set or Power Set**

		Dimension		
Components:	40	(mm):	225x65x150	
Item No.:	505 282	Vol (m³):	0,0022	
EAN:	4048962069433	Weight:	275 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 controlled 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 applications.

· Additionally required is Accu Set

Components:	Controller,	Dimension	
	receiver, servo	(mm):	225x65x150
Item No.:	500 881	Vol (m³):	0,0022
EAN:	4048962003277	Weight:	370 (

**POWER SE** 

Comp Item N EAN:



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

Performance data: 9V ..., 2,5 A

Components	Power unit +	Dimension	
	control unit in one	(mm):	225x65x150
Item No.:	505 283	Vol (m3):	0,0022
EAN:	4048962069440	Weight:	425 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.

Componento	720		Dimension	•
Components:			, ,	390x95x270
Item No.:	91 082		Vol (m³):	0,0100
EAN:	400620991082	5	Weight:	2750 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.

		טוווושווט	DIIIIGIISIOII		
		(mm):	390x95x270		
Item No.:	30 383	Vol (m³):	0,0100		
EAN:	4006209303832	Weight:	1830 g		

## PROFI 194





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.

(NOTE: The OecoTech item No. 505 284 is absolutely required for operation.)

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

 Components:
 20
 Dimension

 Models:
 6
 (mm):
 225x65x150

 Item No.:
 505 285
 Vol (m³):
 0,0022

 EAN:
 4048962069464
 Weight:
 530 g



On the trail of James Watt, Michael Faraday and other famous inventors. The construction set brings new life to important moments of technology history. Important technological inventions can be reproduced as functional models, for example, an electric motor, cardan shaft, perpetuum mobile, a Morse telegraph and a generator. The didactic activity booklet provides additional background information. For little creative tinkerers and inventors starting with nine years old.



Includes the didactic activity booklet.

**ECHNICAL REVOLUTIONS** 

 Includes XS motor and battery tray for nine volt block (battery not included).

 Components:
 220
 Dimension

 Models:
 11
 (mm):
 465x80x320

 Item No.:
 508 776
 Vol (m³):
 0,0119

 EAN:
 4048962095654
 Weight:
 1500 g



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

 Models:
 10
 (mm):
 465x80x320

 Item No.:
 500 882
 Vol (m³):
 0,0119

 EAN:
 4048962003284
 Weight:
 1540 g



"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.





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

 Components:
 320
 Dimension

 Models:
 10
 (mm):
 465x80x320

 Item No.:
 505 284
 Vol (m³):
 0,0119

 EAN:
 4048962069457
 Weight:
 1710 g

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.





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 tray for nine volt block (battery not included).

Dimension Components: 500 Models: (mm): 465x100x390 Vol (m³): 93 291 0.0181 Item No. 4006209932919 EAN: Weight:



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 tray for nine volt block (battery not included).

Components: 400 Dimension Models: (mm): 465x80x320 77 791 0,0119 Item No.: Vol (m3): 4006209777916 1950 g EAN: Weight:

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, battery tray for nine volt block (battery not included).

Bauteile: 260 Dimension Modelle: (mm): 465x80x320 91 083 Vol (m3): 0,0119 Art.Nr.: 4006209910832 Weight: EAN: 1710 g

2150 g

## COMPUTING \$\omega\$ 8+ | 10+



The new complete beginner's packet for kids starting with eight years old. Using over 180 components and with the help of sensors (phototransistor, push-button switch) and the actuators (XS motor, indicator lights), children can construct eight easy to understand models such as a lighthouse with a blinking light, a merry-go-round or an automatic sliding door. The new control ROBO LT Controller with three inputs for sensors and two outputs for motors or indicator lights has a USB interface. The new software ROBO Pro Light allows quick and childishly easy programing. The detailed didactic accompanying material supports the learning process for children and explains the programing in a way, which is easy to understand. For tomorrow's engineers.

- Includes didactic accompanying material.
   Includes ROBO LT Controller as control (USB interface).
   Includes control software ROBO Pro Light.
- Includes XS motor, two indicator lights, phototransistor and push-button switch.

  • Additionally required is Accu Set or Power Set

Components: 180 Dimension Models: (mm): 465x80x320 Item No.: Vol (m3): 0.0119 4048962095661 2000 g EAN: Weight:

**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 programing. The extensive accessories provide many possibilities for creativity.



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

Components: 310 Dimension Models: (mm): 465x80x320 505 286 0,0119 Item No.: Vol (m3): 4048962069471 1960 g EAN: Weight:



Simple entry for beginners through programing 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.

System: Windows® XP, Vista, 7 Item No.: 93 296

4006209932964

Dimension (mm):

210x25x150 Vol (m³): 0.0008 Weight: 105 a

# ROBO TX CONTRO

FAN:



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  $0\text{-}5k\Omega$
- · 4 fast counting inputs: Digital, frequency
- · 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 "ROBOTX Controller"
- Display: 128x64 pixel, monochrome
- USB interface: USB 2.0 (1.1 compatible), max. 12 MB, including mini-USB socket
- · Programable with "ROBO Pro" or C compiler (not included)
- Includes USB connection cable.
- Additionally required is Power Set or Accu Set

Dimension

(mm): 225x65x150 Item No.: 500 995 Vol (m3): 0.0022 4048962003826 460 g EAN: Weight:

Construct machines and robot models, program the control software on the PC and put the whole thing into motion. You need a commercially available PC with the Windows® operating system, (starting with Win XP 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.



do all of this and lots more: The NTC resistor, the photoresistor, the ultrasonic distance sensor, the infrared color sensor and the specially developed trail sensor. Thanks to two encoder motors, the tracks can be controlled precisely and steered synchronically. With the rescue robot, which is contained as a model, the construction set provides the ideal basis for participation in the RoboCup.

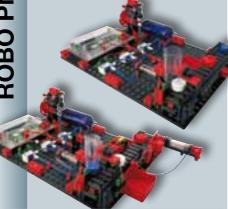
- . Includes the didactic activity booklet.
- Includes the didactic activity booklet.

  Includes two encoder motors, three indicator lights, buzzer,
  NTC resistor, photoresistor, ultrasonic distance sensor,
- optical color sensor and an IR trail sensor.

  Additionally required is ROBO TX Controller,
  Software ROBO Pro, Accu Set

Components: 400 Dimension

Models: (mm): 465x80x320 Vol (m³): 0,0119 508 778 Item No.: 4048962095678 1700 g EAN: Weight:



- 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 Dimension Models: (mm): 465x80x320 500 883 0,0119 Item No.: Vol (m3): 4048962003291 2150 g EAN: Weight:



- Includes the instructional activity booklet "Programing and Control of fischertechnik Robots with the PC" Includes Power Motor, 3x Mini Motor, 8 sensors and
- hold plug-in light
  Additionally required is ROBO TX Controller,
  Software ROBO Pro, Accu Set or Power Set

Components: 360 Dimension Models: (mm): 465x80x320 0,0119 96 782 Vol (m3): Item No.: 4006209967829 Weight: 1960 g EAN:

## **Sales Promotion**

- **1** End consumer brochure item No. 39 090
- **20x15 cm** item No. 43 353
- **3** Shopping bag, 46x59 cm item No. 43 355
- **Specialty retailer sticker, 30x6 cm** (German or English)
- **6** Play box item No. 41 682

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- **6 Luminous logo, 125x20 cm** item No. 50 460
- **Top sign, 125x30 cm** item No. 39 917 **100x30 cm** item No. 47 227
- Decorative model windmill with light and solar module, 26x20x52 item No. 503 546
- **9 Poster "ADVANCED", DIN A1** item No. 39 125
- **Banner, 200x80 cm** item No. 500 887
- Poster "COMPUTING", DIN A1 item No. 39 126
- **2** Shelf strips, 125x3.5 cm item No. 39 911
- (upon request)



















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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.













## 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.

On Fan Club Day, fischertechnik opens its gates to the Fan Club members. The fans receive the exclusive opportunity to take a peek behind the curtains of the traditional brand. This creates trust in the quality of the products. The little visitors receive information about new products and can participate in COMPUTING workshops. Join-in activities and prize games are particularly interesting for the kids. Customer relations at the highest level!



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On our Web site, we offer the Fan Club members the opportunity to exchange tips, to make contact with other fans and to ask us questions. This is an offer that is continually used by the fans. So we are in direct contact with our customers every day. This creates proximity to the market! In the model gallery, fans publish pictures of their models. Other fans vote on these model suggestions and select the winner for the quarter. So others catch the fischertechnik fever this way!



The NEWS appears two times a year and offers the readers a lot of current information about the products, new items and technology. For the little fans, there is a puzzle page and in each edition the Fan Club model with assembly instructions. These assembly instructions are only found in the NEWS. This allows our customers to always be up-to-date!

"We would be happy to develop an opportunity especially for you as a dealer to present yourself in this environment. Just get in touch with us!"







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 fischer-

technik 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).

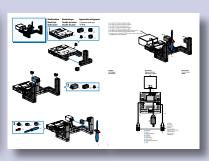
22

Assembly instructions

**Activity booklet** 

Worksheets













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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:** www.fischertechnik.de



## 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.

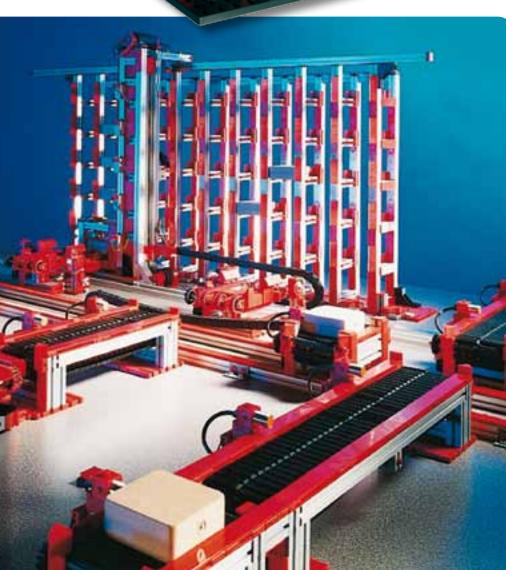


23

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 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.





## 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.

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## 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.

The right to errors and technical and assortment changes is reserved. Liability for printing errors and deficiencies is excluded. Catalogue not valid for the USA.



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Befestigungssysteme Automotive Systems Prozessberatung fischertechnik

