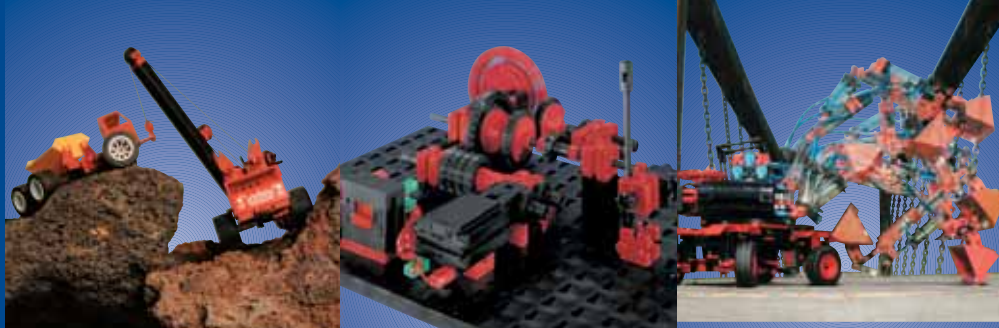




**Building Blocks For Life**



**fischertechnik** 

**40**  
*years*

**fischertechnik** 

**1965 - 2005**

**Understanding Technology by Playing**



## >The Basic Building Block – an ingenious idea

be built onto on all six sides. This versatile block forms the basis for all fischertechnik construction kits, which are put together specifically in accordance with the age and skills of the children. They enable children to experience technology “hands on” and to learn about it playfully.

One can start with the 4 different product lines at any time. Taken

Even after 40 years the fischertechnik basic building block is still the only building block that can

together they stand for a logical concept in which one thing fits in with the next. Building block for building block. No matter how sophisticated the models become, one can still make use of components from the first fischertechnik kit.

Support is available in the form of extensive, easy-to-understand assembly instructions. And for all those who want to know more, the professional and computing construction kit contains didactic material with extensive background information, problems and solutions – or simply to browse through.

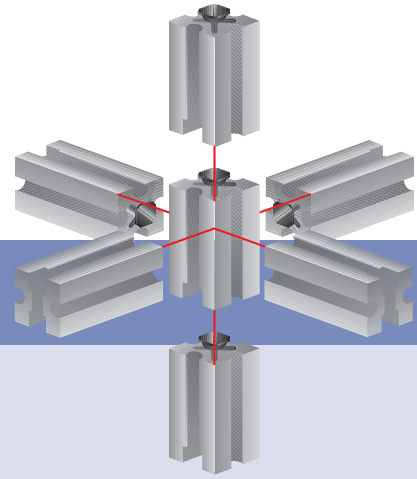
**40**  
years

**fischertechnik** 

1965 - 2005



## > Building Blocks For Life



**JUNIOR**  
>from age 5

**BASIC +  
ADVANCED**  
>from age 7

**PROFI**  
>from age 9

**COMPUTING**  
>from age 10

Dear business partner,

For 40 years now fischertechnik has been supplying its customers and fans with building kits containing top-grade technology and excitement at the highest possible level.

In 1965 its inventor, Artur Fischer, first introduced the fischertechnik building kit system. fischertechnik was soon to be found in many kids' rooms and more than one technical career began with a construction kit.

Ever since fischertechnik has been delighting generations of young and not-so-young technology fans. When the fathers of today want to update their erstwhile favorite toys for their children, they will soon realize that fischertechnik has long since entered a liaison with state-of-the-art high tech. Sensor technology, infrared controls, and PC-programmed fischertechnik robots became standard a long time ago. Yet the building blocks of yesterday still fit together with the building blocks of today.

fischertechnik lives on this successful mixture of tradition and innovation and, not least of all, the possibility of experiencing technology "hands on" and playfully. Support with construction is available in the form of extensive, easy-to-understand assembly instructions and accompanying didactic material.

In 2005 we are presenting you with compelling novelties and a fantastic jubilee construction kit. Tradition meets innovation – 40 years of fischertechnik also stands for things that have proven their worth and have not changed simply because they cannot be improved.

Professional sales support, optimal POS presentation and a strong marketing concept for 2005, these are the things that constitute the main focus this year. Attractive, functional POS materials, embedded in the new catalog and packaging concept, will visualize the strong fischertechnik brand at the POS and promote your sales.

Kind regards

Your fischertechnik team



**JUNIOR**  
>from age 5

**BASIC +  
ADVANCED**  
>from age 7

**PROFI**  
>from age 9

**COMPUTING**  
>from age 10

## > This is how it works: four lines, one idea

### **JUNIOR**

The fun of playing with fischertechnik begins at the age of five. The red Junior Line gives access to first experiences with technology and how it works. The motto is playful learning and fast success with building.

### **BASIC + ADVANCED**

With the Blue Line seven-year olds can improve their skills and aptitudes. Models that are not just realistic and comprehensible in their functions, but also truly robust to set up and for play.

### **PROFI**

The Black Line for the over nine-year olds offers the technicians of tomorrow construction kits that are very close to reality. Such fields as mechanics, structural engineering, pneumatics, electronic engineering or regenerative energy represent the really big challenges.

### **COMPUTING**

Anyone who loves his computer gives it fischertechnik. By means of an easy-to-operate, graphic software, children from the age of ten are able to program and control fischertechnik models and robots from a computer.



And everything that goes to complete fischertechnik: fischertechnik-**PLUS** brings light and movement and additional fun.

**PLUS**  
The optimum addition

With fischertechnik it is not the one-off construction and collection of models that is of the greatest importance but rather the ongoing exploration and discovery of new things, the

independent and creative development of one's own ideas and concepts and the art of implementing them accordingly.

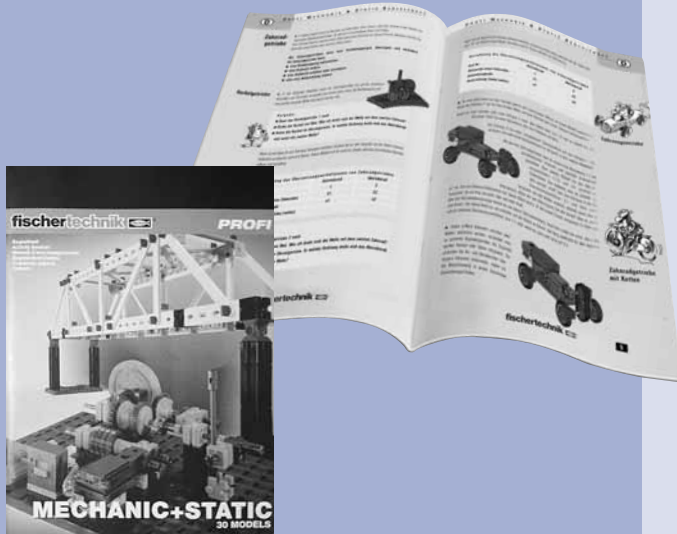
## > The SMALL difference

### **DIDACTIC MATERIAL**

How does a shift transmission work? What is a planetary gear? How does one generate the movement of a windshield wiper? How does one construct a stable bridge? These questions are explained clearly and comprehensibly in the didactic accompanying manuals supplied with the PROFI and COMPUTING construction kits.



*Assembly instructions*



*Accompanying manual*

### **INGENIOUS STORAGE**

There is room for every single fischertechnik building block in the extremely practical, ingenious storage system (available separately).



*Sorting box  
Art. No. 94 828*



*Base plate  
258x186 mm  
Art. No. 32 985*



# NOVELTIES **2005**

## > **NEW in spring**

### **CLASSIC –** The jubilee construction kit

What is more in keeping with the spirit of our time than to reflect on what is good and time tested? The basic building block in the classic design and original gray. As in former times, in the jubilee package each building block has its own place – tidily and clearly arranged. And the whole thing comes in a striking new design. With detailed assembly instructions for 16 models.

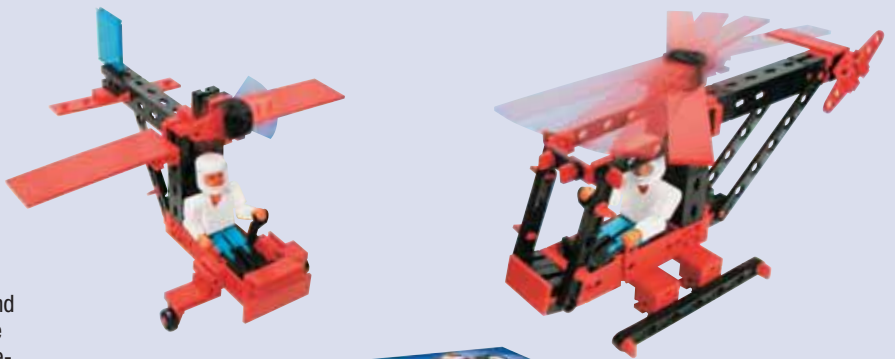


**40**  
years

**fischertechnik**  
1965 - 2005

### **NOW WITH THREE MODELS**

Four new BASIC construction kits as year-round gift and cash-and-carry articles. But now they come with three different suggestions for models, illustrated in the time-tested, easily understood assembly instructions – significantly more value for the same price! AIRCRAFT and FUN CARS at Easter, TRACTORS and CRANES available from fall on.



➤ **NEW as of fall**



## MAKE WAY

The big Mechanics and Vehicles BASIC construction kits have been extended to include Racing. With four fast, turbo racing cars, jacks and gas pump; it is possible to build one car, the jack and the gas pump simultaneously.



## LIKE THE ORIGINAL

The well known and tried and tested „Industry Robots“ computing construction kit in a new design: even more stable, with improved performance, reliability, just absolutely real. Furthermore, it is perfectly geared to the high performance of the new "Robo Interface" and the new "Robo Pro" software. Here we have pooled our experience from the professional industrial sector and created a construction kit for adults. For youngsters who like to fiddle around with technical things or for serious amateurs.





# JUNIOR

from age 5

Kids can enjoy their first successes in building with the Junior construction kit. Even the youngest can construct models fast and with playful ease. With the help of a very comprehensible set of

assembly instructions and only a few movements it is possible to create trucks, vans, cranes and many other things. This means that play is not neglected. Children's concentration and their

## > Not small at all



### STARTER

Art. No. 30 323

EAN 4006209303238

The beginner's constructions kit.

> 80 parts > 4 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	280x65x180	0,0033	350 g	
Carton	298x203x218	0,0132	1,26 kg	3 pcs.



### JUMBO PACK

Art. No. 16 551

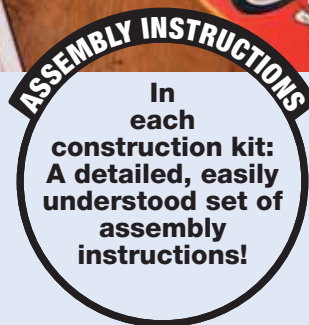
EAN 4006209165515

14 models, four of which can be built simultaneously.

For play groups or friends.

> 135 parts > 14 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1100 g	
Carton	487x281x342	0,0468	4,04 kg	3 pcs.





# BASIC

from age 7

The Basic construction kit gives a lot of building and playing fun for little money. Racing car, helicopter or tractor: The wide variety of everyday technology is astoundingly simple and yet so realistic. "Vehicles" and "Mechanics" also offer a

more profound approach to the ways vehicles and mechanics function. Vehicles and mechanics



## > In principle



### RACING

Art. No. 96 780  
EAN 4006209967805

Whizzing through the room: box stop, fit new tires, fill the car and off they go again....

Four Formula 1 racecars, of which 1 car, the gas station and the jack can all be built at once.

> 125 parts > 5 models > available from fall on

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	330x85x235	0,0066	650 g	
Carton	343x273x248	0,0232	2,92 kg	4 pcs.



### MECHANICS

Art. No. 57 481  
EAN 4006209574812

Windshield wiper, repair shop crane, jack, a carousel with bevel gear, and many other things impart the basic mechanical skills.

> 130 parts > 8 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	330x85x235	0,0066	600 g	
Carton	343x273x248	0,0232	2,72 kg	4 pcs.



### VEHICLES

Art. No. 57 483  
EAN 4006209574836

Street roller, snow plough or tank truck. All models with steering, the forklift truck with variable fork.

> 150 parts > 4 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	330x85x235	0,0066	650 g	
Carton	343x273x248	0,0232	2,92 kg	4 pcs.



### AIRCRAFT

Art. No. 96 776  
EAN 4006209967768

> 100 parts > 3 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	280x65x180	0,0033	600 g	
Carton	298x203x218	0,0132	2,01 kg	3 pcs.



### FUN CARS

Art. No. 96 777  
EAN 4006209967775

> 85 parts > 3 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	280x65x180	0,0033	400 g	
Carton	298x203x218	0,0132	1,41 kg	3 pcs.



### TRACTORS

Art. No. 96 779  
EAN 4006209967799

> 75 parts > 3 models > available from fall on

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	280x65x180	0,0033	650 g	
Carton	298x203x218	0,0132	2,16 kg	3 pcs.



### CRANES

Art. No. 96 778  
EAN 4006209967782

> 100 parts > 3 models > available from fall on

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	280x65x180	0,0033	400 g	
Carton	298x203x218	0,0132	1,41 kg	3 pcs.

# ADVANCED

from age 7

This is where it begins: for the more advanced among the fischer technicians! The functions are easy to understand, with many details such as four-wheel drive, caterpillar chains that bite their way through the terrain. Cranes that lift heavy

weights. Carousels that make the figures fly.. really robust for setting it up and playing. Genuinely functional and with unlimited possible extensions. Detailed building instruction guides the way to the finished models in logical steps.

## > From experiments to discovery and proud invention



### SUPER TRUCKS

Art. No. 77 790

EAN 4006209777909

Truck with a trailer for decoupling, low bed truck on which even the big "Power Bulldozers" can be transported and timber trucks with steered rear beds.

- > 800 parts > 6 models
- > ideal complements Power Motor - Mini Motor Accu Set - IR Control Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x100x390	0,0181	3000 g	
Carton	569x336x429	0,0820	9,68 kg	3 pcs.



### FUN PARK

Art. No. 57 484

EAN 4006209574843

The Great Wheel is 70 cm in height. The merry-go-round has a diameter of almost 50 cm. The Octopus functions with two reverse motion exocentric rotary movements for rotating and up and down.

- > 900 parts > 3 models
- > Ideal additions: Power Motor - Lights - Energy Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x100x390	0,0181	3100 g	
Carton	569x336x429	0,0820	9,98 kg	3 pcs.



> Incredible...



## UNIVERSAL II

Art. No. 93 290

EAN 4006209932902

Our multipurpose genius: The perfect way to start, from age 7. Vise, auto hoist with car, sewing machine and a whole fun park...

Up to 5 models can be built at once. Everyday technology becomes comprehensible and tangible.

- > 400 parts > 48 models
- > ideal complements Mini Motor - Power Motor Energy Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1750 g	
Carton	487x281x342	0,0468	5,99 kg	3 pcs.



## POWER BULLDOZER

Art. No. 16 552

EAN 4006209165522

Sno-Cat, bulldozer with adjustable dozer blade, recovery vehicle

- > 700 parts > 4 models
- > Ideal additions Power Motor - Mini Motor Accu Set - IR Control Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1450 g	
Carton	487x281x342	0,0468	5,09 kg	3 pcs.



## POWER TRACTORS

Art. No. 91 079

EAN 4006209910795

Four-wheel trailers, a big hay wagon or steer trailer can be attached to the tractor models with sculptured tires, or to the big MB-Trac. Equally, potato harvesters, hay tedders, grapplers or a plough can be built.

- > 550 parts > 12 models
- > ideal complements Power Motor - Mini Motor Accu Set - IR Control Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1800 g	
Carton	487x281x342	0,0468	6,14 kg	3 pcs.



## CARS & TRUCKS

Art. No. 34 950

EAN 4006209349502

Trucks, Pick Up, Off Roadster. With suspension, cable winch, steering, tipper, container-

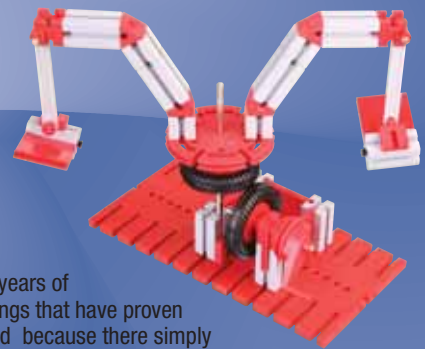
- > 400 parts > 6 models
- > ideal complements Power Motor - Mini Motor Accu Set - IR Control Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1400 g	
Carton	487x281x342	0,0468	4,94 kg	3 pcs.

## A red and white toy crane model, likely a LEGO Technic set. It features a red base with white Technic pins and connectors. A long, white boom extends upwards and outwards, supported by a red pulley system. A red hook is attached to the end of the boom. The crane is mounted on a red circular base that can rotate. The background is a solid blue color.

**fischer**technik 

A red and white LEGO Technic car. It features a large black rubber band wheel on the right side, a smaller black wheel on the left, and a red frame with white Technic beams. A red vertical piece is attached to the back.



Tradition meets innovation – 40 years of fischertechnik also stands for things that have proven their worth and have not changed because there simply is no room for improvement. We have created an appropriate construction kit for the jubilee. It combines two things: gray basic building blocks as well as new ones and original models with modern assembly instructions.



Art. No. 96 781  
EAN 4006209967812

The "classic" way to enter the world of technology.  
Street roller, vehicles with steering, carousel, swings,  
ventilator, construction crane, water wheel...

- > 115 parts > 16 models
- > ideal complements Mini Motor

	Dimension (mm)	Vol (m <sup>3</sup> )	Weight	PU
<b>Kit</b>	<b>465x65x320</b>	<b>0,097</b>	<b>900 g</b>	
<b>Carton</b>	<b>487x281x342</b>	<b>0,0468</b>	<b>4,34 kg</b>	<b>4 pcs.</b>



# PLUS

Everything that makes fischertechnik complete. Fischertechnik additions bring light, movement and additional fun to each model.

## > Additions



### CREATIVE BOX 1000

Art. No. 91 082

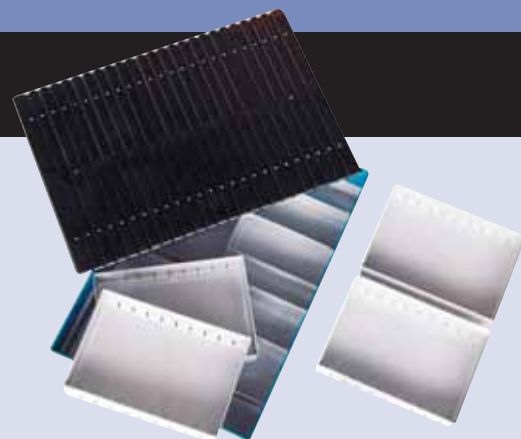
EAN 4006209910825

More than 600 parts from the current fischertechnik range.

Packed in BOX 1000 with a 390 x 270 base plate for construction as a lid.

> 600 parts > 8 sorting trays

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	395x100x275	0,0109	2900 g	
Carton	415x215x290	0,0259	6,25 kg	2 pcs.



### BOX 1000

Art. No. 30 383

EAN 4006209303832

Practical storage box with 8 sorting trays and 32 sorting spacers The lid is also a big 390 x 270 mm base plate

> sorting trays

> big base plate

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	395x100x275	0,0109	1800 g	
Carton	415x215x290	0,0259	4,05 kg	2 pcs.



### POWER MOTOR SET

Art. No. 34 965

EAN 4006209349656

A high-performance gear motor with gearwheels, worm, differential, pole-changing switch, cable, plug.

> Performance data: Voltage 9V ~, maximum Performance 2.4 W at 340 revs/min, gear reduction 8:1.

> 35 parts

> required: Energy Set or Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	300 g	
Carton	253x166x218	0,0092	1,07 kg	3 pcs.



### MINI MOTOR SET

Art. No. 30 342

EAN 4006209303429

The multipurpose motor set with S-motor, 9V battery holder and many gear parts: Gearwheels, right-angle gear drive, differential, universal joint etc.

> Performance data: voltage: 9V ~,

maximum output: 1.1 W at 5000 revs/min

> 50 parts

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	350 g	
Carton	253x166x218	0,0092	1,22 kg	3 pcs.



### ENERGY SET

Art. No. 30 182

EAN 4006209301821

The power supply from the wall socket for all fischertechnik models.

> Output: 9V ~/1000mA

> Power pack + control unit in one

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	650 g	
Carton	253x166x218	0,0092	2,12 kg	3 pcs.



### ACCU SET

Art. No. 34 969

EAN 4006209349694

Mobile power supply: rechargeable battery (NiCad 8,4V/ 940mAh) and specially coordinated micro-controller batter charger, turbo charge (charging time ~1.8 hours). With ΔU safety charge monitoring

> Battery charger + rechargeable battery in one

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	850 g	
Carton	253x166x218	0,0092	2,72 kg	3 pcs.



### LIGHTS

Art. No. 34 970

EAN 4006209349700

The lighting set consists of 4 lamps, 9V battery holder, light caps in different colors, cable, plug and flasher electronics for up to 8 lamps. Short-circuit and overload proof For blinking or constant light.

> 35 parts

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	150 g	
Carton	253x166x218	0,0092	0,62 kg	3 pcs.



### IR CONTROL SET

Art. No. 30 344

EAN 4006209303443

10m range, 3 independent motor outputs, 2 motors can be controlled at once, 2 speed levels Transmitter can address up to 6 motors (with IR receiver II)

> Transmitter + IR receiver I

> required: for transmitter:

2 LR03/1,5V/AAA batteries LR03/1,5V/AAA.

For receiver: Energy Set/Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	250 g	
Carton	253x166x218	0,0092	0,92 kg	3 pcs.

# PROFI

from age 9

How do pneumatics work? What are differential and planetary gears, universal joints, compressors? How does an electrical circuit or a solar cell work? What is a photo transistor? Unadulterated technology – experience it at close quarters

and learn about it playfully Didactic accompanying manuals with lots of background information, examples of problems and solutions – or simply for browsing purposes – offer you support.

> Right up close...



## PROFI PNEUMATIC II

Art. No. 77 791

EAN 4006209777916

Profi Pneumatic II provides easy instruction on the fundamental principles of this "airy" technology and demonstrates the way pneumatic valves and cylinders work in combination with a compressor and energy cell, using a wide variety of examples of applications. Contains four twin-action pneumatic cylinders, three 4/3 way manual valves and an electrically driven compressor with energy cell.

> incl. activity booklet:

"Pneumatics – generating movement with compressed air"

> inc. compressor with "Mini Motor", switch, battery holder

> 350 parts > 8 models

	Dimension (mm)	Vol (m <sup>3</sup> )	Weight	PU
Kit	465x80x320	0,0119	1920 g	
Carton	487x199x342	0,0331	4,44 kg	2 pcs.





## >...Technology and knowledge



### PROFI MECHANIC+STATIC

Art. No. 93 291

EAN 4006209932919

The ultimate technical construction set for all budding mechanical engineers and technicians: How does a manual transmission work? What is a planetary gear? How is the movement of windscreen wipers generated? How is a stable bridge constructed? These and other elementary questions from the field of mechanics and structural engineering are answered with the help of this construction set's 30 different models.

> incl. activity booklet: "Mechanics + Statics"

> incl. "Mini motor", switch, battery holder

> 500 components > 30 Models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	2100 g	
Carton	487x199x342	0,0331	4,80 kg	2 pcs.



### PROFI OEKO POWER

Art. No. 57 485

EAN 4006209574850

"Renewable energy" is becoming one of our most important energy sources. The generation, storage and usage of naturally produced energies from water, wind and the sun are clearly explained through these eight models and numerous experiments.

> incl. activity booklet: "Renewable Energy"

> incl. Solar motor, 2 solar cells, „Gold Cap“ energy store

> 150 components > 8 models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1350 g	
Carton	487x199x342	0,0331	3,30 kg	2 pcs.



### PROFI E-TEC

Art. No. 91 083

EAN 4006209910832

Electrical switching, electro-mechanics and electronic control. Working models teach you step by step the principles of serial and parallel circuitry or how a contactor-controller can be used to control traffic lights. In addition, the E-Tec-Module with 8 fixed programs and 3 inputs for digital sensors (switch, photo transistor, reed contact) and an output (for 1 motor or 2 lamps) for controlling for example, an alarm system with buzzer, a hand dryer with photoelectric barrier or a garage door with magnetic sensor.

> incl. activity booklet: "Electrical Technology"

> incl. "Mini Motor", E-Tec-Module, switch, photoelectric barrier magnetic sensor, buzzer

> 250 components > 12 Models

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1600 g	
Carton	487x199x342	0,0331	3,80 kg	2 pcs.



# COMPUTING

from age 10

Construct machines and robot models, program the control software on a PC and set things in motion – what sounds extremely complicated and technical is turned into a fascinating and creative game – not just for technically enthused children. All that's needed is a regular PC with Windows operating system

(from Win 98) and fischertechnik's convenient graphical software "ROBO Pro" for programming the commands to be carried out by the robots. In addition, the "ROBO Interface" converts computer commands into control signals for the motors.

## > Programmable robots



### ROBO INTERFACE

Art. No. 93 293

EAN 4006209932933

With 16 bit microcontroller, USB and serial interface and 128kB Flash Memory for downloading 2 programs.

- > 4 adjustable motor outputs 9V/250mA
- > 8 digital inputs
- > 2 analogue inputs for resistors 0-5 kΩ
- > 2 analogue voltage inputs 0-10V kΩ
- > 2 inputs for remote sensors
- > plus a connection for "ROBO I/O Extension"
- expansion module and the "ROBO RF Data Link" wireless interface.
- > Interface for "IR Control Set"
- > Programmable with "ROBO Pro" or C-Compiler (not included in set)
- > Required: Energy Set or Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	500 g	
Carton	253x166x218	0,0092	1,67 kg	3 pcs.



### ROBO PRO SOFTWARE

Art. No. 93 296 (Windows 98, ME, NT, 2000, XP)

EAN 4006209932964

Simple entry for beginners thanks to flow-chart programming comprised of various software components. The transfer of data between software components and subroutines is not managed via variables, rather via graphical connections. This allows program functions to be displayed comprehensibly.

Teach-In programs or transfer of data with other Windows software can be achieved easily. The online mode enables numerous "ROBO Interface" units to be controlled in parallel, for large models.

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	210x25x150	0,0008	100 g	
Carton	253x166x218	0,0092	0,47 kg	3 pcs.



### ROBO I/O-EXTENSION

Art. No. 93 294

EAN 4006209932940

Expansion module for the "ROBO Interface" Connection via 10 pole ribbon cable. USB interface for direct online operation with PC. Connection for additional "ROBO I/O Extension" (up to 3 in series)

- > 4 adjustable motor outputs 9V/250mA
- > 8 digital inputs
- > 1 analogue input for resistors 0-5 kΩ
- > Required: Energy Set or Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	250 g	
Carton	253x166x218	0,0092	0,92 kg	3 pcs.



### ROBO RF DATA LINK

Art. No. 93 295

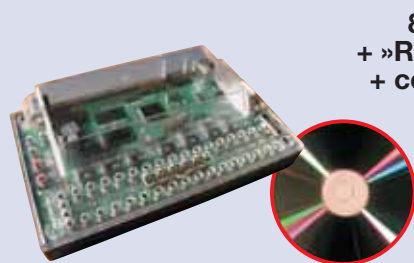
EAN 4006209932957

Wireless interface for the "ROBO Interface". Connection on PC side via USB interface. Connection on interface side via an additional circuit board which is attached to the interface board. Range approx. 10m. 8 frequencies available for simultaneous operation of up to 8 devices in a single room. Direct communication between two "ROBO Interface" units on same frequency is possible.

- > Frequency: 2,4 GHz
- > No additional power source required

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	225x65x150	0,0022	350 g	
Carton	253x166x218	0,0092	1,22 kg	3 pcs.





8 mobile robots  
+ »ROBO Interface«  
+ control-software  
»ROBO Pro«



## ROBO MOBILE SET

Art. No. 93 292

EAN 4006209932926

The complete computing set! Comprises 450 components for building 8 mobile robot models, the new "ROBO Interface" and the new "ROBO Pro" software. The instructions detail seven controllable robots with all-round edge-sensors or obstacle recognition and a walking robot on six legs. A light finder steadily pursues a light source moving in front of it whilst the tracking sensor follows a black line. The light finder can also be combined with obstacle recognition. The walking robot moves like an insect and is able to go forwards, backwards, right and left.

> incl. the "Programming and controlling fischertechnik robots with a PC" accompanying manual.

> incl. 2 "Power Motors", 4 switches, 2 phototransistors, 1 lens tip lamp

> 450 components > 8 Models

> Required: Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	2750 g	
Carton	487x199x342	0,0331	6,10 kg	2 pcs.



## INDUSTRY ROBOTS II

Art. No. 96 782

EAN 4006209967829

3 realistic, fully functional, detailed industrial robots: two 3-axis industrial robots and a welding robot. Plus a CD with relevant example programs

> incl. the "Programming and controlling fischertechnik robots with a PC" accompanying manual.

> incl. 1 "Power Motor", 3 "Mini Motors", 8 switches, 1 bulb lamp

> 400 components > 3 Models > available from fall on

> Required\*: ROBO Interface + Software ROBO Pro + Energy set or Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1700 g	
Carton	487x199x342	0,0331	4,00 kg	2 pcs.



## PNEUMATIC ROBOTS

Art. No. 34 948

EAN 4006209349489

Machining centre, separating plant, pneumatic gripper, door opener - these air powered machines can be programmed and controlled with the ROBO Interface and ROBO Pro software via a PC. The valves open and close electro-magnetically. Includes CD with relevant examples.

> incl. 1 "Mini Motor", 1 compressor with "Mini Motor", 1 switch, 4 pneumatic cylinders, three 3/2 way electrovalves, 1 photoelectric barrier

> 350 components > 4 Models

> Required\*: ROBO Interface + Software ROBO Pro + Energy Set or Accu Set

	Dimension (mm)	Vol (m³)	Weight	PU
Kit	465x80x320	0,0119	1550 g	
Carton	487x199x342	0,0331	3,70 kg	2 pcs.

\* alternate: Intelligent Interface (Art. No. 30 402) + Software LLWin (Art. No. 30 407)



# ASSORTMENT RECOMMENDATION

Assortment recommendation

The job of selling is made easier with the help of perfectly prepared component lists, fine-tuned for strong performers and the right mix of accessories.

## > Here's how

Assortment B: 1.25 m x 2.0 m

This basic assortment comprises a package unit of the best-selling fischertechnik construction sets for positioning on shelf space 1,25 m wide x 2.0 m high.

Assortment A: 2.5 m x 2.0 m

This competence assortment comprises a package unit containing each of fischertechnik's construction sets for specialist shops to position on shelf space 2.5 m wide x 2,0 m high.

**fischertechnik** 



**fischertechnik** 

**fischertechnik** 





# SALES PROMOTION

We support your sales with effective and eye-catching events and resources in order that you can provide optimal presentation both at point of sale and shop windows, thereby creating the best possible level of end-customer attraction.

## > Optimal support



► end-customer flyers  
DIN A5, Art. No. 39 090



► time planners  
20x15 cm, Art. No. 112 022



► shopping bags  
46x59 cm, Art. No. 112 023



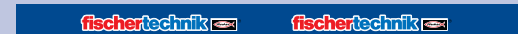
► poster with bulldozer motif  
DIN A1, Art. No. 39 125



► poster with computing motif  
DIN A1, Art. No. 39 126

► top signs

► shelf hangers



► shelf strips  
in different lengths



► window deco and presentation models  
(on request)



► informative, fascinating sales video  
(on request)



► the bulldozer race\*  
(on request)

\* The sensational pure excitement event where everyone can take part! Whoever finishes the fishertechnik course with a remote controlled bulldozer in the fastest time wins a fantastic prize. The race can be carried out with very little expenditure and the race track can be easily assembled anywhere.

# MARKETING

Actions speak louder than words is our motto for the jubilee year 2005. That's why we have conceived a variety of measures designed to support fischertechnik's excellent level of recognition, awaken demand and increase your sales.

## > We get things moving

		JAN	FEB	MARCH
END-CUSTOMER ADVERTISING	<b>PRINT</b>			
	Advertisements in high-circulation parent publications			
	Advertisements in appropriate age group youth publications			
	Advertisements in "Spielmittel" (distribution to over 5000 doctor's practices)			
	Advertisements in "Familienbande" (12 regional titles for pharmacies)			
	Clear-cut PR work with consumer publications			
	Numerous prize provisions for consumer publication competitions			
	Advertisement participation in retail catalogues			
	<b>NET</b>			
	fischertechnik Homepage			
	fischertechnik Fan-Club (over 30,000 members worldwide)			
	<b>EXHIBITIONS</b>			
	Permanent exhibition in Deutsche Museum, Munich			
	Permanent exhibition in Technical Museum, Sinsheim			
	<b>EVENTS</b>			
	"Play is Fun" tour (240 trade show days, 3.5 million visitors)			
	Consumer shows and game festivals			
	<b>COOPS</b>			
	Usage in schools, universities and industry			
	Cooperation with Microsoft in university sector			
	Support of youth research teams			
	Cross-promotion with fischer fixings systems / Artur Fischer TiP			
	Direct mailing to schools, consumer and specialist magazines			
RETAILS MARKETING	<b>TRADE FAIRS</b>			
	International Toy Fair, Nuremberg			
	Retail association toy fairs			
	Bildungsmesse Stuttgart			
	Educational Fairs (worldwide)			
	Ergotherapie Kongress Köln			
	SPS/IPC/Drives Industrial Trade Fair, Nuremberg			
	<b>SALES PROMOTION</b>			
	Regional product training			
	Demo show pieces			
	End-customer brochures			
	Posters			
	Sales videos			
	Window deco			
	Bulldozer Races			
	Giveaways			

► Clear-cut PR work with high-circulation customer publications



► Numerous goods to be made available for competitions and reader events



► Worldwide active fan club with 30,000 members and own fan club newsletter







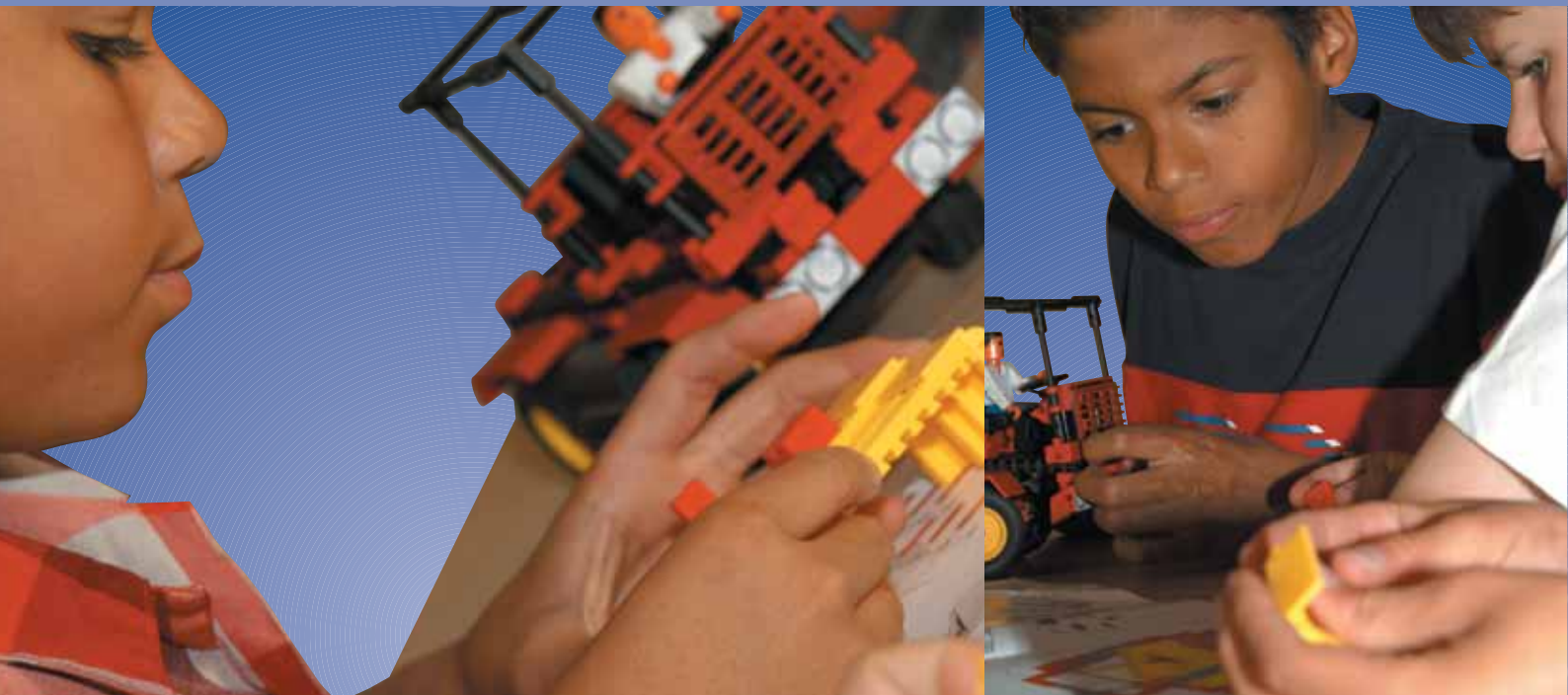
# SCHOOL

fischertechnik's educational construction sets are especially designed for usage in technical lessons and technical projects in elementary and secondary schools. The following topics are available: Mechanics, structural engineering, regenerative energies and measurement,

control, rules (information technology / mechanics / computing). Support through books, accompanying manuals and work sheets. In addition, Intelligent storage systems, designed to bring order and reliability into the school routine.

Further information available under [www.fischertechnik.de](http://www.fischertechnik.de)

## > fischertechnik in the classroom



### DIDACTIC MATERIAL

How does a manual transmission work? What is planetary gear? How is the movement of windscreen wipers generated? These are all questions that can be clearly and comprehensibly explained by our didactic accompanying manuals. Topics such as "mechanics and structural engineering", "electronics", "information technology" etc are dealt with in a tangible and comprehensible manner, from every day technologies such as traffic lights, ventilators, and block and tackle, right through to technically advanced and demanding solutions in robotics and computing.

Additional work sheets that can be downloaded from the fischertechnik Website and together with thematically structured questions and answers, all provide an additional instrument to check simply and precisely to what extent the relevant lesson content has been understood.



**Assembly instructions**



**Accompanying manual**



**Work sheets**



There is also an extremely practical and well-thought-through storage system which provides space for every component and facilitates swift location in the classroom situation (available separately).



**Sorting box**  
Art. No. 94 828

**Base plate**  
258x186 mm  
Art. No. 32 985





# TRAINING MODELS

Ready-built, compact functional models – ideal for training and demonstrations for education, further education and industrial automation.

Not only available in the standard 9V voltage, but also in the 24V worldwide industrial standard.

Further information available under [www.fischertechnik.de](http://www.fischertechnik.de)

## > In education and further education

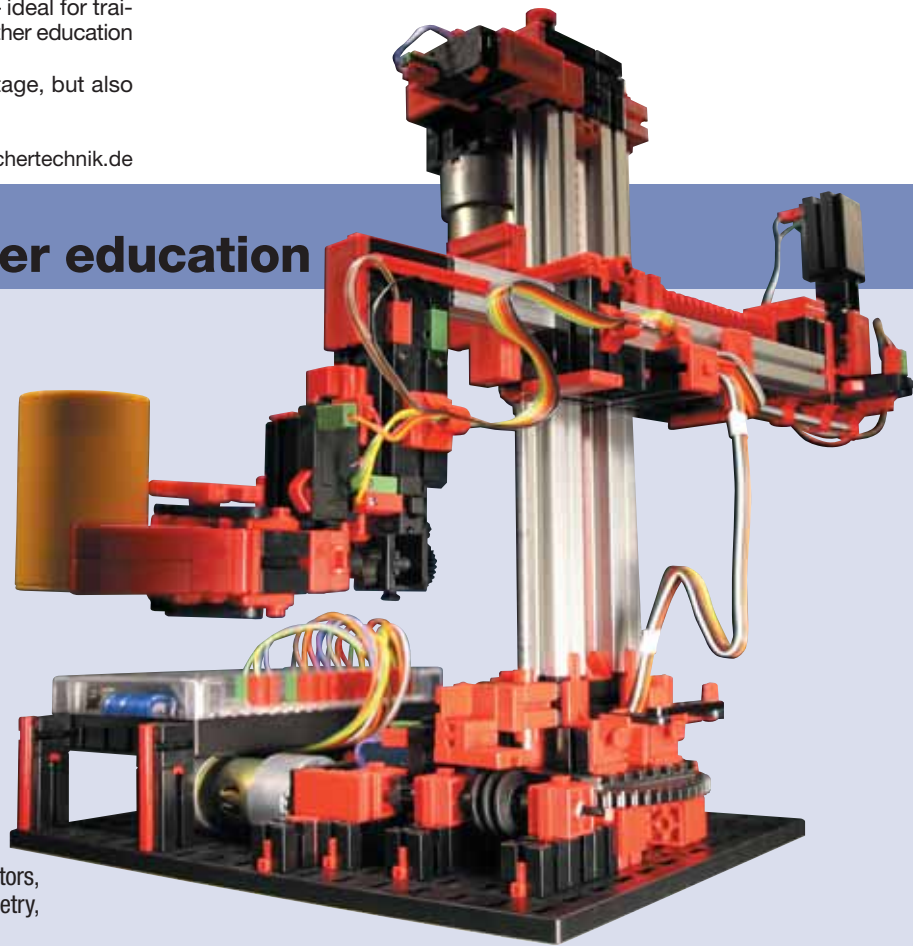


### Indexed line with 2 machining stations

2 processing stations, 4 conveyer belts configured in U form. 8 direct current motors  
4 limit switches (potential free),  
5 photoelectric barriers

### 3-D-ROBOT

3 axis robot with grappler, 4 direct current motors,  
4 limit switches, 4 impulse probes for hodometry,  
all probes potential free.



# PLAN+SIMULATION

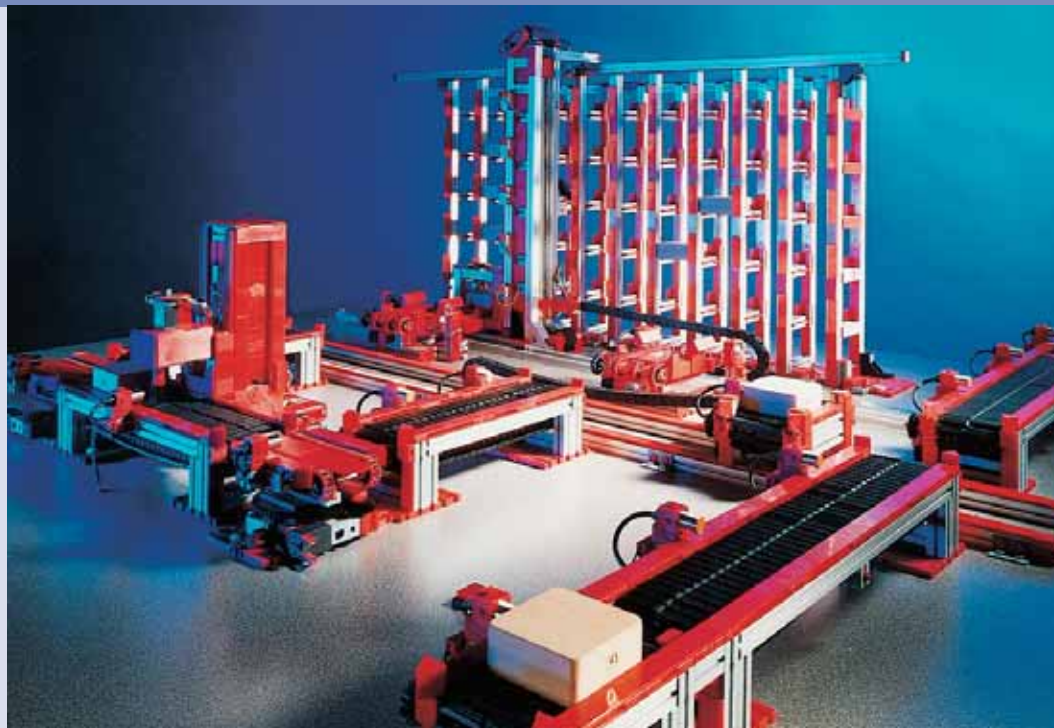
fischertechnik's plan+simulation functional models are a proven and economical method of planning, developing and testing industrial gear and associated software.

They are used worldwide in the fields of education, development and presentation.

Further information available under [www.fischertechnik.de](http://www.fischertechnik.de)

## > The step before reality

The combination of fischertechnik's flexible, modular systems with industrial sensors and actuators as well as control systems from leading manufacturers opens up almost unlimited potential in hardware simulation. Complicated technical systems can be depicted realistically and simulated perfectly, so that they are comprehensible to anyone. That eases the task of reaching investment decisions and reduces the cost of fixing planning errors.



#### WHAT'S IN IT FOR THE TOY RETAILERS?

A single, universal system, construction sets made to the highest standards and of the best quality as well as the strong fischertechnik brand name as reference for your educational and valuable toy assortment. Over 30,000 fan club members, optimal support, a well-thought-through assortment policy and versatile accessory possibilities all serve to promote advance your year-round sales.

#### WHAT'S IN IT FOR THE PARENTS?

The knowledge that your child is delving into the world of technology in

play, learning and recognition. Fischertechnik models foster logical thinking and creativity by encouraging your child to independently build new models time and again. They support a child's natural ability to literally grasp technology. As all construction sets fit together and supplement each other perfectly, the fischertechnik world is almost unlimited.

#### WHAT'S IN IT FOR THE CHILDREN?

Only the best: play, play, play. Creative and fully concentrated while building and afterwards relaxed in role play with others.

## > A perfect team



- Quality products, Made in Germany.
- High level of acceptance with parents, teachers and engineers.
- All construction sets are ideal for combining with each other.
- Awards:



**40**  
**years**

**fischertechnik** 

**1965 - 2005**

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

**fischertechnik** 

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