



Building Blocks for Life

fischertechnik



The fun and creative way to explore technology

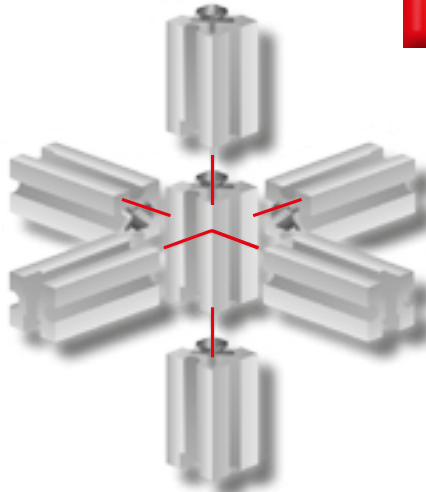
2019

YOUR ADVANTAGE

**COMPACT
ASSORTMENT**

**USE OF
FISCHERTECHNIK AT
'MULTIPLIER' SCHOOL**

**ALL CONSTRUCTION
SETS CAN BE COMBINED
WITH ONE ANOTHER**



**QUALITY
'MADE IN GERMANY'**

**CHILDREN LEARN
BASIC UNDERSTANDING
OF TECHNOLOGY BY
PLAYING**

**PREMIUM BRAND WITH
PREMIUM SERVICE AND
SERVICE TEAM**



The fischertechnik basic building block allows attachment on all six sides. This "many-sided" 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.

EDUCATIONAL TOYS



fischertechnik is an educational toy 'made in Germany' and produced at the plant in Waldachtal in the Black Forest. All construction sets can be ideally combined with one another. In addition to the assembly instructions, the PROFI and ROBOTICS construction sets include educational background information, tasks and solutions. The high acceptance by parents, teachers and engineers make fischertechnik a successful teaching material at schools and universities. Moreover teachers and psychologists from the TransferCenter for Pseudosciences and Education (ZNL) have recommended fischertechnik construction sets for the 'Play at School' campaign.

Educational success guaranteed!

LEARNING ABOUT TECHNOLOGY BY PLAYING, WITH THE FISCHERTECHNIK eLEARNING PORTAL

The eLearning portal by fischertechnik lets children learn online with fischertechnik. The **www.fischertechnik-elearning.com** website provides lots of instructional information about various construction set topics.

The didactic material, videos and animations optimally support the discovery and comprehension of exciting topics such as mechanics, physics, electronics and robotics. For the inventors and engineers of tomorrow!





AWARDS



Toy of the year 2014



... FOUR LINES ... FOR ALL AGES

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 at the fascinating fischertechnik world, there is a comprehensive and easy to understand set of assembly instructions.

JUNIOR



page 06

The fun of playing starts at the age of three 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.



ADVANCED



from page 08

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



from page 12

The black line, which starts at seven 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.



ROBOTICS



from page 21

Starting at the age of eight, children can program and control fischertechnik models and robots from the computer or tablet with our easy-to-use graphic software. An app is even available for control with smartphone.



PLUS

+ **LIGHT**
+ **MOTION**
+ **POWER SUPPLY**
from page 26

The optimum supplement. Everything to make fischertechnik even more attractive with light, motion and more fun.



➤ JUNIOR Easy Starter S

With this new fischertechnik system, young designers ages 3 and up can experience the world of fischertechnik. The simple connection system allows little builders to enjoy fast success and lots of playing fun.

The new large building elements, combined with the age-appropriate building instructions, make it easier to get started with fischertechnik systems.

These beginner building sets can be used to create different truck models. A dumper or the fischertechnik building plate can also be added to the driver's cab. Little builders can use the instructions to build onto the building plate, or design a variety of different creative attachments. The new system not only brings tons of fun to your child's room, but also promotes fine motor skills.



➤ **AVAILABLE from June 2019**

➤ JUNIOR Easy Starter L

The big beginner construction set for the Junior Line, ages 3 and up, includes lots of different truck models. The vehicles: dump truck, tanker truck, truck with trailer, tow truck with winch and creative design options impress with easy to build models and playing fun.

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➤ **AVAILABLE from June 2019**

➤ ADVANCED Universal 4

With a total of 40 models, children ages 7 and up can get a look at the world of technology through play. With the new building kit, builders can create vehicles with steering, bulldozers with crawler tracks, a construction crane, and much more. Some models, such as the transport helicopter with broadcasting tower or the construction site with truck, conveyor belt and barriers can even be built at the same time. The different thematic and play worlds offer a wide range of building and playing fun for kids. Thanks to the large number of included components, their creativity will know no bounds. It is the perfect building kit for fischertechnik beginners. Numerous models can be equipped with Plus Sets. The comprehensive construction manual describes how to install motors, lights, etc.



➤ **AVAILABLE from March 2019**

▶ **ADVANCED Funny Machines**

A little push brings action to your child's room.

With this new construction kit, seven year-olds can build their own chain reaction model, where a fischertechnik trick triggers a big reaction. When the weight falls on the plate, it sends the ball rolling along an exciting course until it hits the fischertechnik building block, triggering a domino effect that makes the catapult launch ... These are just some of the reactions that deliver action to your child's room.

Use the building instructions to build three different chain reaction models. Your creativity knows no bounds. Young inventors can create their own exciting reactions, even integrating non-fischertechnik parts like dominoes or other toys into the course.

A fun, colourful starter set for young builders.

Other inspiring chain reaction videos are available on the fischertechnik website to help boost kids' creativity.



▶ **AVAILABLE from June 2019**

▶ **PROFI Hydraulic**

This construction set teaches the basics of hydraulics through play. The fischertechnik hydraulic system is operated with water, demonstrating how force can be transmitted via liquid media. Here's how the system works: A manually operated control cylinder presses the water into the working cylinder through hoses. The working cylinder extends, moving the digger arm or the shovel on the powerful crawler excavator. This allows builders to control three different excavator movements hydraulically. Five different models can be built with the PROFi Hydraulic construction kit, meaning this new kit offers extensive building and playing fun. Combined with additional pedagogical materials on the eLearning Portal, this construction kit truly lets students "Learn about technology through play".



▶ **AVAILABLE from May 2019**



NEW



EASY STARTER S

Components	30	Dimension (mm)	320x120x230
Item No.	548902	Vol (m³)	0,0088
EAN	4048962351101	Weight (g)	895



With this new fischertechnik system, young designers ages 3 and up can experience the world of fischertechnik. The simple connection system allows little builders to enjoy fast success and lots of playing fun. The new large building elements, combined with the age-appropriate building instructions, make it easier to get started with fischertechnik systems.

These beginner building sets can be used to create different truck models. A dumper or the fischertechnik building plate can also be added to the driver's cab. Little builders can use the instructions to build onto the building plate, or design a variety of different creative attachments. The new system not only brings tons of fun to your child's room, but also promotes fine motor skills.

NEW



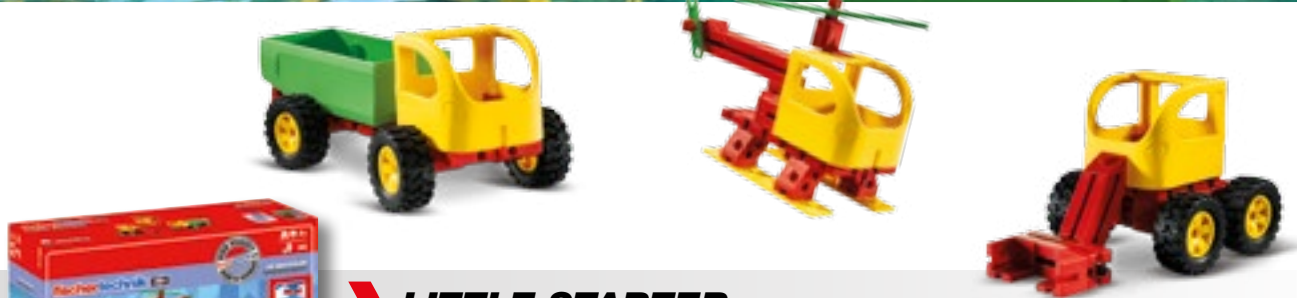
EASY STARTER L

Components	55	Dimension (mm)	465x120x320
Item No.	548903	Vol (m³)	0,0179
EAN	4048962351118	Weight (g)	1386



The big beginner construction set for the Junior Line, ages 3 and up, includes lots of different truck models. The vehicles: dump truck, tanker truck, truck with trailer, tow truck with winch and creative design options impress with easy to build models and playing fun.

With this new fischertechnik system, young designers ages 3 and up can experience the world of fischertechnik. The simple connection system allows little builders to enjoy fast success and lots of playing fun. The new large building elements, combined with the age-appropriate building instructions, make it easier to get started with fischertechnik systems. The new system not only brings tons of fun to your child's room, but also promotes fine motor skills.



LITTLE STARTER

Components	60	Dimension (mm)	280x65x180
Item No.	511929	Vol (m³)	0,0033
EAN	4048962111262	Weight (g)	353



Starter set for young engineers from age 5. The large, easy-to-hold parts and assembly instructions written specifically for young children ensure quick construction success. Design work with this set develops important skills such as eye-hand coordination as well as gross and fine motor skills. 6 Models can be built: dump truck, helicopter, excavator, van ...



JUMBO STARTER

Components	135	Dimension (mm)	465x80x320
Item No.	511930	Vol (m³)	0,0119
EAN	4048962111279	Weight (g)	1217



Lowboy truck with crane, airplane, tractor ... Many different models encourage building and play. The large, easy-to-hold parts and assembly instructions written specifically for young children ensure quick construction success. Design work with this set develops important skills such as eye-hand coordination as well as gross and fine motor skills. A number of models can be built at the same time. For children from age 5.



RACERS



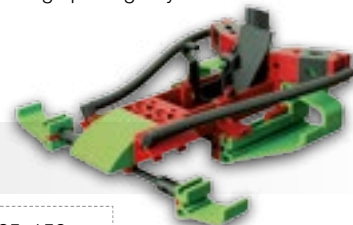
Components	50	Dimension (mm)	225x65x150
Item No.	540580	Vol (m³)	0,0022
EAN	4048962280005	Weight (g)	238



The speedy and attractively priced Racers with their functional steering bring guaranteed action to a child's bedroom. The design parts give you lots of options for customising the little speedsters. For children from age 7.



GLIDERS



Components	60	Dimension (mm)	225x65x150
Item No.	540581	Vol (m³)	0,0022
EAN	4048962280012	Weight (g)	219



With turning jets and design parts, the three buildable gliders promise great fun and lots of different building options – and all at a great price. Besides the three models, which can be constructed with the help of the instructions, there are no limits on the spacecrafts, jet planes and other creations that you can build. For young designers from age 7.



SOLAR



Components	80	Dimension (mm)	280x65x180
Item No.	544616	Vol (m³)	0,0033
EAN	4048962316223	Weight (g)	280



With this construction set, children can receive their first experiences with renewable energy in a fun way. The solar rotor, a combination of solar panels and a motor, is the key component of the three models and uses the power of the sun to rotate the propeller. The model helicopter, air boat and fan use solar energy to move. The play figure included in the kit brings even more fun to the playroom.



TRACTORS



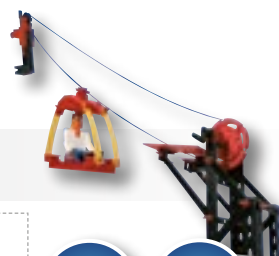
Components	130	Dimension (mm)	280x65x180
Item No.	544617	Vol (m³)	0,0033
EAN	4048962316230	Weight (g)	378



Three different tractor models can be built from over 130 components. The three farm vehicles bring plenty of family fun to the playroom, and they all have realistic axle pivot steering. The play figure included increases the play value of this construction kit.



CABLE CARS



Components	130	Dimension (mm)	320x80x230
Item No.	41859	Vol (m³)	0,0058
EAN	4006209418598	Weight (g)	606



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!



ADVANCED



NEW



› Ideal additions: Motor Set XS, Motor Set XM, LED Set, Power Set

UNIVERSAL 4

Components	485	Dimension (mm)	465x80x320
Item No.	548885	Vol (m³)	0,0119
EAN	4048962350951	Weight (g)	1705



With a total of 40 models, children ages 7 and up can get a look at the world of technology through play. With the new building kit, builders can create vehicles with steering, bulldozers with crawler tracks, a construction crane, and much more. Some models, such as the transport helicopter with broadcasting tower or the construction site with truck, conveyor belt and barriers can even be built at the same time. The different thematic and play worlds offer a wide range of building and playing fun for kids. Thanks to the large number of included components, their creativity will know no bounds. It is the perfect building kit for fischertechnik beginners. Numerous models can be equipped with Plus Sets. The comprehensive construction manual describes how to install motors, lights, etc.



› Ideal additions: Motor Set XS, LED Set, Power Set

UNIVERSAL STARTER

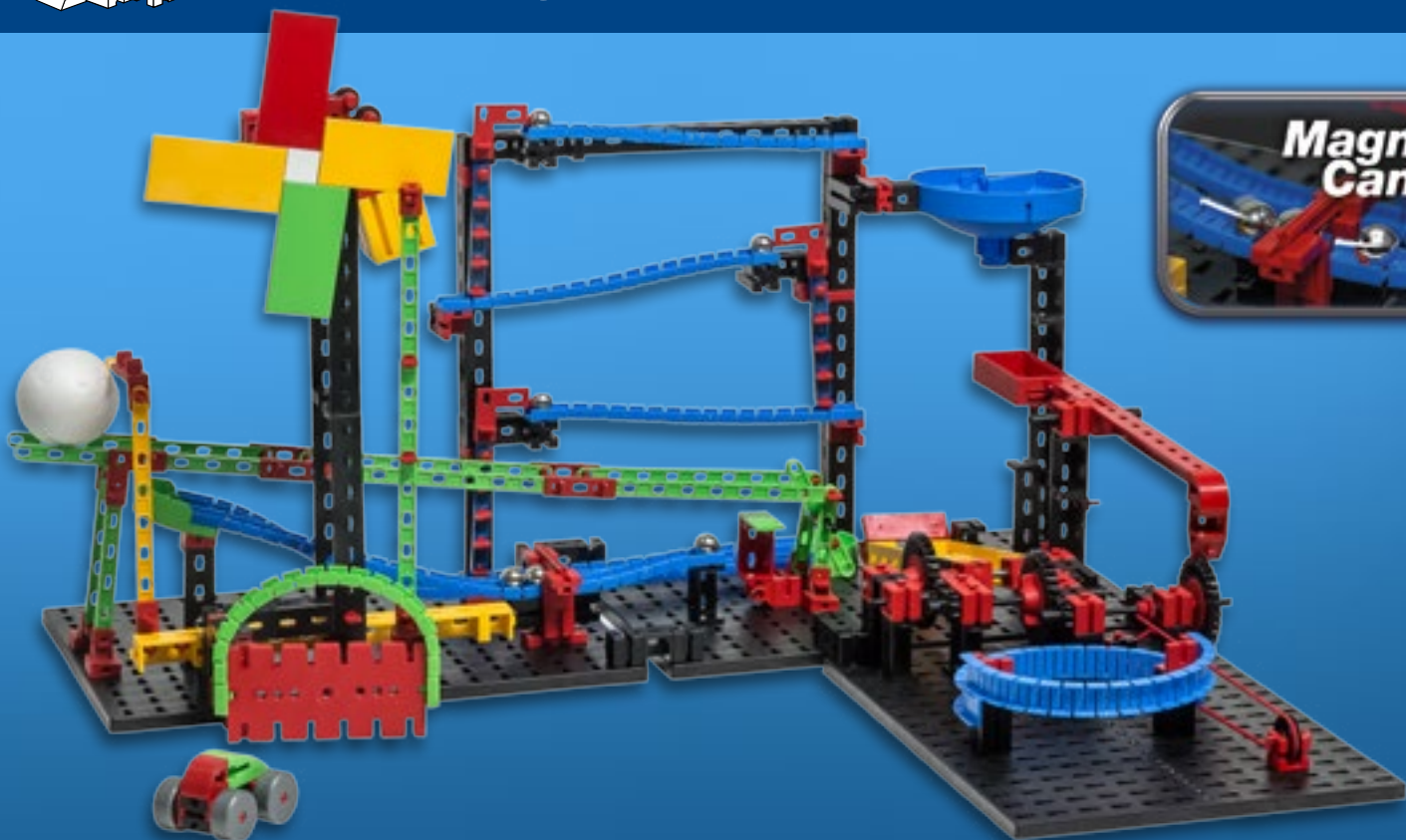
Components	255	Dimension (mm)	320x80x230
Item No.	536618	Vol (m³)	0,0058
EAN	4048962250251	Weight (g)	938



Models such as the crane with cable winch and worm gear, racing car with steering, teeter-totter with four-bar linkage teach children a basic understanding for technology. Other creative, mechanical models can be made from the gears, basic building blocks, static parts, wheels and many other parts. This construction set helps children to understand everyday technology by playing. For young designers from age 7.



ADVANCED



NEW



- › Incl. magnetic cannon
- › Ideal additions: LED Set, Creative Box 1000, all construction sets in the Dynamic Line

Funny Machines

Components	360	Dimension (mm)	465x80x320
Item No.	551588	Vol (m³)	0,0119
EAN	4048962354225	Weight (g)	1300



A little push brings action to your child's room.

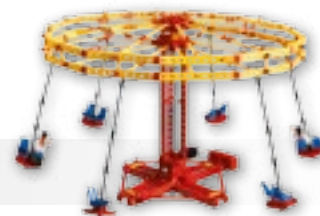
With this new construction kit, seven year-olds can build their own chain reaction model, where a fischertechnik trick triggers a big reaction. When the weight falls on the plate, it sends the ball rolling along an exciting course until it hits the fischertechnik building block, triggering a domino effect that makes the catapult launch ... These are just some of the reactions that deliver action to your child's room. Use the building instructions to build three different chain reaction models. Your creativity knows no bounds. Young inventors can create their own exciting reactions, even integrating non-fischertechnik parts like dominoes or other toys into the course. A fun, colourful starter set for young builders. Other inspiring chain reaction videos are available on the fischertechnik website to help boost kids' creativity.



- › Incl. XS motor, battery holder for 9V block (battery not included)
- › Ideal additions: LED Set, Power Set

SUPER FUN PARK

Components	660	Dimension (mm)	465x80x390
Item No.	508775	Vol (m³)	0,0145
EAN	4048962095647	Weight (g)	1893



Complete construction set with motor and battery holder. With over 660 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.



- › Incl. play figure, Bluetooth remote control, receiver, servo, XM motor, battery holder for 9V block (2x 9V block batteries necessary – batteries not included)
- › Ideal additions: LED Set, Accu Set



BT RACING SET

Components	360	Dimension (mm)	465x80x390
Item No.	540584	Vol (m³)	0,0145
EAN	4048962280036	Weight (g)	1897



The Bluetooth Racing Set is a complete set for building three innovative vehicles in the new fischertechnik design. The set contains over 360 pieces for building a racetrack, a roadster or a wheelie vehicle, which travels on its back wheels. The suspension system on the vehicles makes them suitable for any terrain. The vehicles can be operated by remote control or by smartphone/tablet – with a range of up to 10 metres. The RPM of the gear motor and the servo steering angle can be freely adjusted from a distance.



- › Incl. play figure
- › Ideal additions: Motor Set XS, Motor Set XM, Bluetooth Control Set, LED Set, Accu Set



TRUCKS

Components	390	Dimension (mm)	465x80x320
Item No.	540582	Vol (m³)	0,0119
EAN	4048962280029	Weight (g)	1467



Powerful trucks like a dumper truck, articulated vehicle, HGV with crane, a container truck or a recovery vehicle can all be built with this box. The new fischertechnik design parts give the models a new, modern look. Children can turn their bedrooms into building yards with all the features like a winch, functional steering, tipping function, removable container and a crane arm. The various models are a perfect match for the Motor Set XM, the Bluetooth Control Set and the Accu Set. For young builders over 7 years old.



- › Incl. 90° curve, 2x balls, 6x flex-rails 90
- › Ideal additions: All construction sets in the Dynamic Line, LED Set



DYNAMIC XS

Components	70	Dimension (mm)	225x65x150
Item No.	536619	Vol (m³)	0,0022
EAN	4048962250268	Weight (g)	283



* Templates for more games (free download)

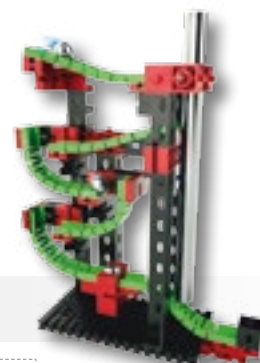
Low-cost ball obstacle course by fischertechnik! The ball accelerates, picks up speed in the jump and flies through the fire ring - it's action time! 70 parts can be used step-by-step to make three exciting models: ball obstacle course, jump and dexterity game. Go to www.fischertechnik.de/Dynamic-XS to find templates for various games that can be downloaded free of charge: goal-shooting, balls and „fire ring“. The construction set can be combined and augmented with other construction sets in the PROFi Dynamic Line. Get the balls moving!



- › Incl. Sound tube, 4x 90° curves, 3x balls, 6x flex-rails 90, 3x flex-rails 180
- › Ideal additions: All construction sets in the Dynamic Line, LED Set

DYNAMIC S

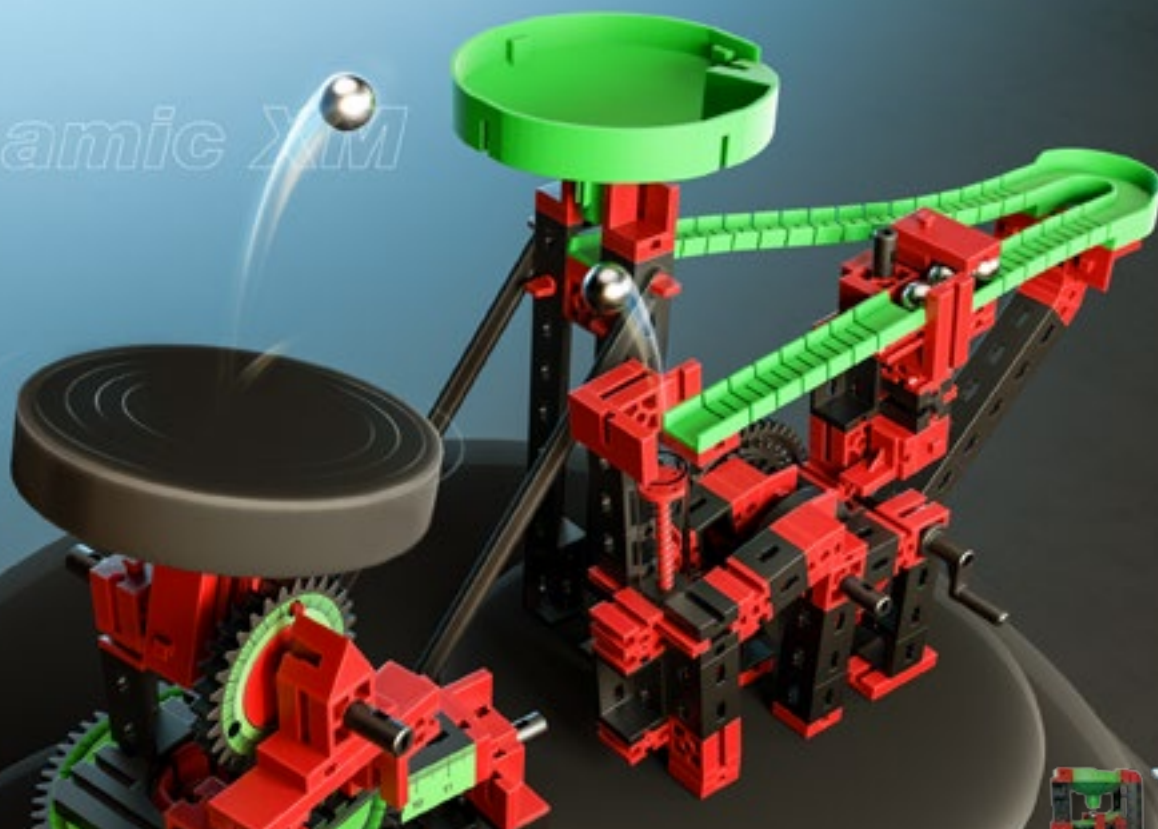
Components	140	Dimension (mm)	230x80x320
Item No.	536620	Vol (m³)	0,0058
EAN	4048962250275	Weight (g)	656



Ball obstacle course and fischertechnik: two classic toy systems guarantee lots of fun! The ball starts in the obstacle course and accelerates until it reaches the cross-over, where it drops further before racing down two different tracks – to the left and to the right! In the title model, the ball flies through several 90° curves and over a teeter-totter before brushing against the sound tube – „BING!“ The balls are collected at the end of the course and can be easily removed again. Three impressive obstacle courses can be made with the assembly instructions from more than 140 parts. Young engineers also have plenty of scope for making many other courses according to their own ideas. Three models: simple obstacle course, action obstacle course and obstacle course with twin tracks! Get completely immersed in the fascinating, creative world of the fischertechnik ball obstacle course for heaps of action!



Dynamic XM



- › Incl. 2x rotary funnels, launching pad cover, 180° curve, 5x balls, 2x flex-rails 90, flex-rail 180
- › Ideal additions: All construction sets in the Dynamic Line, Motor Set XS, LED Set



DYNAMIC XM

Components	280	Dimension (mm)	320x80x230
Item No.	544618	Vol (m³)	0,0058
EAN	4048962316247	Weight (g)	1016



With this construction kit, pure marble run action is guaranteed. After being catapulted onto the launching pad via a mechanical clamping device, the marbles bounce off and land in the rotary funnel. To ensure that the marbles land safely in the collection tray, the launching pad can be adjusted around three axes. In total, three fun models can be constructed. For even more action, there are also free building instructions available on the fischertechnik homepage for the possible combination of this kit with the Dynamic L2 or Dynamic XXL.



- › Incl. rotary funnel, 3x sound tubes, cross-over, 5x 90° curves, 8x balls, 4x flex-rails 90, 14x flex-rails 180
- › Ideal additions: All construction sets in the Dynamic Line, Motor Set XS, LED Set

DYNAMIC M

Components	550	Dimension (mm)	465x80x320
Item No.	533872	Vol (m³)	0,0119
EAN	4048962229707	Weight (g)	1642



Action and sound parts open up many possibilities for even more exciting courses. While they race downwards, the steel balls let the sound tubes create melodic tones. The rotary funnel offers a completely new way of bringing the balls onto the next rail. The balls also shoot and fly down the obstacle course through narrow 90° curves and a cross-over. On arriving at the bottom, the manual chain lift brings the balls back up to the top again. The Dynamic M construction set is ideal for making four exciting obstacle courses.





- › Incl. XS motor, 2x rainbow LED, 2x flex-tubes 360, 7x 90° curves, 5x 180° curves, 7x high-speed flex-rails, 8x flex-rails 90, 16x flex-rails 180, 8x balls, 2x cross-over, 2x rotary funnels, battery holder for 9V block (battery not included)
- › Ideal additions: All construction sets in the Dynamic Line, Motor Set XS, Bluetooth Control Set, LED Set, Accu Set or Power Set

DYNAMIC XXL

Components	1360	Dimension (mm)	465x80x390
Item No.	544619	Vol (m³)	0,0145
EAN	4048962316254	Weight (g)	3307



Even higher, even faster, and even more action: All this is guaranteed with the Dynamic XXL marble run. Nearly a metre tall, with a track length of up to 5.60m, with many features, new pieces and track crossings, this marble run promises unlimited fun. The flex-tubes enable fast routes. The marbles whiz over a mechanical cross-over into different track circuits. Then, on their way down, they shoot through the loop, across the quarter pipe, through the jumping loop, towards more mischief. Even more interaction is possible, as the user can intervene in the marble's route. With a mechanical track crossing, the layout of the flex-rails can be shifted and the route can be determined at another crossing with a switch lever. Additionally, the marbles can be stopped or released at a stop point. Once they get to the bottom, the marbles are transported right back to the top via the motor-powered chain lift. Three different marble runs can be constructed, and offer various opportunities for modification. By expanding the marble run with the PLUS sets: Bluetooth Control Set and Motor Set XS (up to two) can control chicanes at, for example, the track crossings or the stop points via Bluetooth, by controller or with a smartphone/tablet.



- › Incl. XS motor, 4x 90° curves, 3x 180° curves, 8x balls, 4x high-speed flex-rails, 8x flex-rails 90, 17x flex-rails 180, cross-over, rotary funnel, battery holder for 9V block (battery not included)
- › Ideal additions: All construction sets in the Dynamic Line, Sound+Lights, LED Set, Accu Set or Power Set

DYNAMIC L2

Components	780	Dimension (mm)	465x80x390
Item No.	536621	Vol (m³)	0,0145
EAN	4048962250282	Weight (g)	2473



The complete Dynamic L2 set guarantees even more fun with action models and the three 180° curves. The four high-speed flex-rails with raised side edge let the balls roll at full speed through the curve! The balls simply race through the mechanical cross-over into various tracks. They just fly through the cross-over toward the rotary funnel or over the teeter-totter which releases a ball at the stopping point. The 180° curve lets young architects change the direction of the ball in a confined space. After passing through the loops and other obstacles, the ball finally returns to the elevator waiting point. The balls are then brought back up to the top again by the elevator which is operated by an XS motor. The three different action courses with a length of up to 4.50 m offer unlimited fun on the ball obstacle course. The four instructional experiment models also unobtrusively explain the effects of the various physical phenomena (acceleration, mass inertia, the balance of forces, the law of conserving energy, the principle of linear momentum, the laws of motion). The eLearning portal (fischertechnik-elearning.com) offers exciting, instructional activity information and videos related to physics. Let's roll...!



PROFI



- › Incl. 2x rotary funnels, launching pad cover, 90° curve, 5x balls, 2x flex-rails 90, flex-rail 180

DYNAMIC TRAMPOLINE

Components	145	Dimension (mm)	180x65x280
Item No.	544623	Vol (m³)	0,0033
EAN	4048962316292	Weight (g)	505



fischertechnik marble runs can be extended with a launching pad. The marble falls onto the launching pad and bounces into the rotary funnel. With this kit you can build an action-packed model, which can also be fitted perfectly onto other marble runs. For all fans of fischertechnik marble runs, there are free building instructions on the fischertechnik homepage that describe how the trampoline can be fitted onto the Dynamic M marble run. In addition, there are no limits to the creative ways in which the trampoline can be fitted onto any other fischertechnik marble run. Endless fun is guaranteed!

- › Incl. 90° curve, high-speed flex-rail, flex-rail 90, 3x flex-rails 180, various add-on elements (angular blocks, angular girders etc.)



DYNAMIC LOOPING

Components	50	Dimension (mm)	225x65x150
Item No.	544620	Vol (m³)	0,0022
EAN	4048962316261	Weight (g)	187



With the expansion set Looping, a loop point can be built, with the guidance of building instructions, and creatively integrated into many fischertechnik marble runs. With the mechanical track crossing, the route can be shifted so that the marbles either shoot through the loop or follow another route. With this set, avid fischertechnik Dynamic fans can expand and enhance their own marble run with a new action element.

- › Incl. 4x flex-rails 90, various add-on elements (angular blocks, angular girders etc.)



DYNAMIC STOP & GO

Components	45	Dimension (mm)	225x65x150
Item No.	544621	Vol (m³)	0,0022
EAN	4048962316278	Weight (g)	158



Stop & Go - a short pause, and the marbles already can be released again to zoom through the marble run. With this expansion set, two stop points can be constructed, with the guidance of the building instructions. The stop points can be operated manually, and can be creatively integrated into the pre-built fischertechnik marble run. With this set, the existing marble runs can be enhanced and the play value increased.

- › Incl. 2x cross-overs, 4x 90° curves, 2x magnet holders, 8x balls, 4x flex-rails 90, 10x flex-rails 180, various add-on elements (angular blocks, angular girders etc.)



DYNAMIC TUNING SET

Components	180	Dimension (mm)	225x65x150
Item No.	533873	Vol (m³)	0,0022
EAN	4048962229714	Weight (g)	334



The Dynamic Tuning Set is ideal for making all fischertechnik obstacle courses even bigger and faster with additional obstacle course parts and add-on elements. Many special parts such as 90° curves, cross-overs, catch funnels, short and long flex-rails promise even more excitement. The Dynamic Tuning Set gives free rein to the imagination of young obstacle course engineers.

- › Incl. 3x 180° curves, 7x high-speed flex-rails, various add-on elements (angular blocks, building bricks etc.)



DYNAMIC HIGH SPEED

Components	30	Dimension (mm)	225x65x150
Item No.	544622	Vol (m³)	0,0022
EAN	4048962316285	Weight (g)	154



With the expansion set Dynamic High Speed, every fischertechnik marble run can be creatively built and customised to be even faster and more full of twists and turns, with additional high-speed flex-rails, 180° curves and attachment pieces. The high speed flex-rails with raised edges grants maximal marble speed in the curves. The 180° curve allows the direction of the marble to be changed even in the narrowest spaces. With the Dynamic High Speed Set, there are no limits on creativity, to bring even more action and speed to the fischertechnik marble runs.



- › Incl. 2x pneumatic cylinders, pump cylinder, 2x hand valve, compressed air reservoir

PNEUMATIC POWER

Components	200	Dimension (mm)	320x80x230
Item No.	533874	Vol (m³)	0,0058
EAN	4048962229721	Weight (g)	632



The low-cost Pneumatic Power construction set takes a learning-by-playing approach to the principles of pneumatics, with realistic models to show how pneumatic valves and cylinders work. The air is pumped manually into an air chamber. Pressing the hand valves conveys the compressed air through the hoses into the pneumatic cylinder. An excavator and four other models can be constructed. The didactic activity information for pneumatics is available online for the young engineers.



- › Incl. solar module (2V; 200mA), solar motor (2V), boat hull

SOLAR POWER

Components	160	Dimension (mm)	320x80x230
Item No.	533875	Vol (m³)	0,0058
EAN	4048962229738	Weight (g)	540



Renewable energy sources will play an increasingly significant role in future. A solar module generates electricity from the energy of the sun to move the solar boats and the solar car. Whether on water or land, the construction set is a learning-by-playing approach to solar power. Water fun is guaranteed with the floating „Solar Catamaran“ and „Paddle Steamer“. The solar module and solar motor can also be used to make a solar vehicle and a ventilating fan. The didactic activity information about solar module is available online.



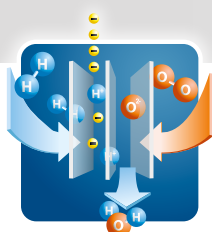
- › Incl. solar motor (2V), 2x solar modules (1V; 400 mA), Gold Cap power storage device, LED, ON/OFF switch
- › Ideal addition: Fuel Cell Kit (Item No. 520401)

► OECO ENERGY

Components	370	Dimension (mm)	465x80x320
Item No.	520400	Vol (m³)	0,0119
EAN	4048962168662	Weight (g)	1580



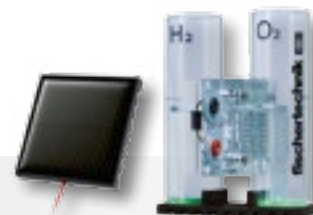
How can ecological electric power be produced? "Renewable energies" will become our most important suppliers of energy in the future. Production, storage and use of electricity from natural energy sources such as water, wind and the sun are graphically illustrated using various models and numerous experiments. These two new solar modules not only guarantee more power; the many new attachment possibilities ensure flexible use in the models. The Gold Cap included for power storage can release the stored power at a slower rate. This helps children understand energy forms of the future. The "Fuel Cell Kit" (Item No.: 520401) offers an ideal addition. With this expansion construction set, you can build other models and operate them with a fuel cell. The eLearning portal (fischertechnik-elearning.com) offers exciting, instructional activity information.



- › Incl. reversible fuel cell with integrated hydrogen storage unit, solar module (1V; 400 mA)
- › Absolutely necessary: Oeco Energy or Oeco Tech

► FUEL CELL KIT

Components	20	Dimension (mm)	225x65x150
Item No.	520401	Vol (m³)	0,0022
EAN	4048962168679	Weight (g)	400



How does a fuel cell work and how does it generate hydrogen? The Fuel Cell Kit brings this technology of the future directly into the child's play room and provides answers to these and other questions! With the fuel cell and the additional solar module, interesting additional models can be built in connection with the "Oeco Energy" construction set. The didactic activity information offers assistance. **(CAUTION: Absolutely necessary for operation is Oeco Energy - Item No.: 520 400 or Oeco Tech - Item No.: 505 284)**



- › Incl. compressor, 4x pneumatic cylinder, 4x 4/3-way manual valve, battery holder for 9V block (battery not included)
- › Ideal additions: Accu Set



PNEUMATIC 3

Components	440	Dimension (mm)	465x80x320
Item No.	516185	Vol (m³)	0,0119
EAN	4048962136838	Weight (g)	1637



This play-and-learn construction set helps children learn the principles of pneumatics and uses realistic models to demonstrate how compressors, pneumatic valves and cylinders work. The powerful and compact compressor guarantees a reliable supply of compressed air to the models. In addition to vehicles such as front loaders, hay bale pickers and tree trunk grips, other educational models provide young inventors with background knowledge on the subject of pneumatics in combination with the didactic activity information in the eLearning portal (fischertechnik-elearning.com).



- › Incl. friction motor
- › Ideal additions: Motor Set XM, Bluetooth Control Set, LED Set, Accu Set



CARS & DRIVES

Components	280	Dimension (mm)	465x80x320
Item No.	516184	Vol (m³)	0,0119
EAN	4048962136821	Weight (g)	2167



How does a balloon drive or a bending rod drive work? What is the difference between a friction drive and a rubber-band drive. How can wind be used as a drive? This set provides a glimpse into how different types of drives work. The brawny offroad vehicle with functioning steering and suspension can also be combined perfectly with the Motor Set XM and Control Set for remote control. The didactic activity information provides a great deal of interesting information. For young engineers from age 8!



PROFI



NEW



› Incl. 4x control cylinder, 4x working cylinder, crawler tracks

HYDRAULIC



Components	475	Dimension (mm)	465x80x320
Item No.	548888	Vol (m³)	0,0119
EAN	4048962350968	Weight (g)	1749



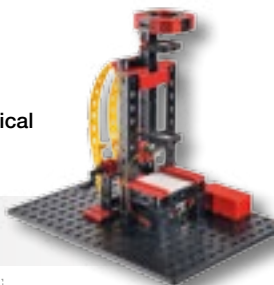
This construction set teaches the basics of hydraulics through play. The fischertechnik hydraulic system is operated with water, demonstrating how force can be transmitted via liquid media. Here's how the system works: A manually operated control cylinder presses the water into the working cylinder through hoses. The working cylinder extends, moving the digger arm or the shovel on the powerful crawler excavator. This allows builders to control three different excavator movements hydraulically. Five different models can be built with the PROFI Hydraulic construction kit, meaning this new kit offers extensive building and playing fun. Combined with additional pedagogical materials on the eLearning Portal, this construction kit truly lets students "Learn about technology through play".



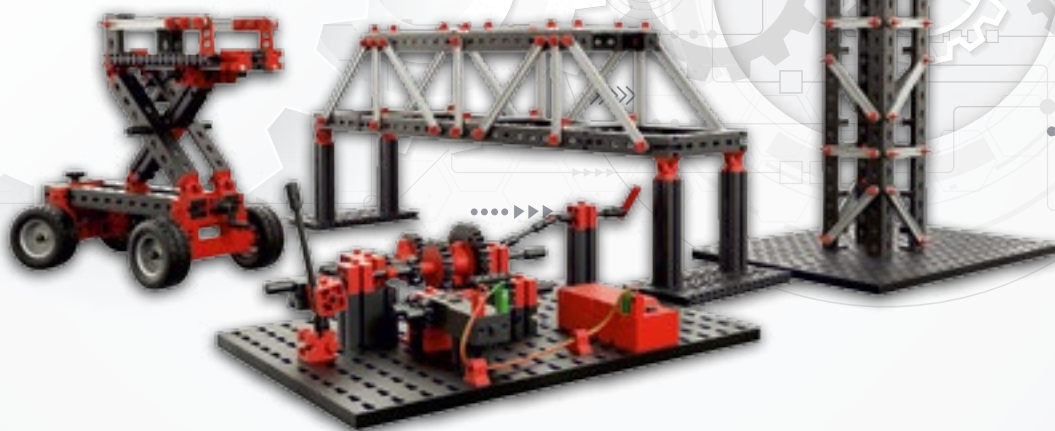
› Incl. 3x optical lenses (two focal lengths), Rainbow-LED, mirror, optical fiber, 3x LED, battery holder for 9V block (battery not included)
› Ideal additions: Accu Set or Power Set

OPTICS

Components	270	Dimension (mm)	465x80x320
Item No.	520399	Vol (m³)	0,0119
EAN	4048962168655	Weight (g)	1727



Investigate optical phenomena and experiment with light! The planetary model clearly demonstrates why the moon has phases or why solar and lunar eclipses occur. Optical lenses with various focal lengths, mirror and a variety of other parts allow construction of a microscope, magnifier, telescope and periscope. With the periscope you can look around corners and the microscope makes tiny objects really big! With the sun dial you can determine the time of day, and the model with optical fiber demonstrates what total reflection is and how data can be transferred using light. This construction set gives young scientists a glimpse into the world of optics. The didactic activity information is available online.



- › Incl. XS motor, battery holder for 9V block (battery not included)
- › Ideal addition: Accu Set



MECHANIC & STATIC 2

Components	500	Dimension (mm)	465x80x320
Item No.	536622	Vol (m³)	0,0119
EAN	4048962250299	Weight (g)	1867



The definitive technical construction set for all future engineers and technicians: How does a shaft drive or manual transmission work? What is a planetary gear? How do you design a stable bridge? The answers to these and other elementary questions from the subject areas of mechanics and statistics are found in this construction set with 30 different models. Discover the principles of technology by playing! The eLearning portal (fischertechnik-elearning.com) offers exciting, instructional activity information, animations and videos all about mechanics and statics.



- › Incl. Electronic-module, XS motor, 2x transistor, 2x capacitor, 3x resistor, 2x push button, phototransistor, temperature sensor, LED light barrier, 2x LED, battery holder for 9V block (battery not included)
- › Ideal addition: Accu Set or Power Set

ELECTRONICS

Components	260	Dimension (mm)	465x80x320
Item No.	524326	Vol (m³)	0,0119
EAN	4048962196092	Weight (g)	1390



Simple circuits, series and parallel connections, electronic circuits with transistors, capacitors, resistors and LED's. Step for step, this construction set teaches the basic principles of electronics. The Electronic-module, a control with 16 fixed programs, has 2 motor outputs, 3 analog inputs for sensors and potentiometers for controlling the speed of the motor. Many fascinating as well as functional models can be built with this construction set, from a simple flash light to ship see-saw, alternating flasher and controllable ventilating fan. The eLearning portal (fischertechnik-elearning.com) offers exciting, instructional activity information.



ROBOTICS



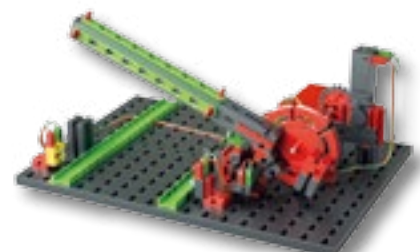
- › Incl. ROBOTICS module, IR trail sensor, 2x push button, 2x XS motor, battery holder for 9V block (battery not included)

MINI BOTS

Components	145	Dimension (mm)	320x80x230
Item No.	533876	Vol (m³)	0,0058
EAN	4048962229745	Weight (g)	686



The Mini Bots have their own special approach to robots and make it easy for children to discover this special world. The clever robot models can follow lines and avoid hindrances. Five nimble action robots can be made from actuators and sensors, such as IR trail sensor and push buttons. The Mini Bot programs are saved on the fischertechnik ROBOTICS module and can be adjusted with the DIP switches. The eLearning portal (fischertechnik-elearning.com) offers exciting, instructional activity information, animations and videos.



- › Incl. BT Smart Controller (USB port/Bluetooth 4.0 LE port)
- › Incl. Control software ROBO Pro Light (System: Windows 7*, 8, 10/tablet: Android and iOS)
- › Incl. 2x XS motor, 2x LED light barrier, 2x photo transistor, 2x push button, battery holder for 9V block (battery not included)
- * Selected Bluetooth 4.0 LE sticks are required for Windows 7

BT SMART BEGINNER SET

Components	380	Dimension (mm)	465x80x320
Item No.	540586	Vol (m³)	0,0119
EAN	4048962280050	Weight (g)	1457



The complete beginner set for children of 8 years and over. Over 380 pieces for children to combine with sensors (photo transistors, buttons) and actuators (XS motors, LED light barriers) to create 12 easy-to-follow models including a hand dryer, carousel, level crossing, conveyor belt with stamping machine and mobile caterpillar machine. The BT Smart Controller with 4 inputs for sensors and 2 outputs for motors and lamps features a USB port and a Bluetooth 4.0 LE port. The ROBO Pro Light software (available for download) makes it possible to program the models quickly, easily and in a way that is easy to follow. In addition, it is also possible to program the models using a tablet (Android and iOS) via an app. Comprehensive instructions are provided on the fischertechnik eLearning portal (fischertechnik-elearning.com) to support the child's learning process and to explain the programming in an easy-to-follow way. For the engineers and programmers of tomorrow.





ROBOTICS

Inclusive:



USB
camera



- › Incl. ROBOTICS TXT Controller, Software ROBO Pro, USB camera (1 MP), 2x encoder motor, XS motor, 2x LED, 2x push button, phototransistor, NTC resistor
- › Additionally Required: Accu Set



TXT DISCOVERY SET

Components	310	Dimension (mm)	465x80x320
Item No.	524328	Vol (m³)	0,0119
EAN	4048962196115	Weight (g)	1943



Complete Robotics Set with 310 parts, ROBOTICS TXT Controller and extended ROBO Pro software for control of mobile and stationary robot models. A camera allows images to be transferred via USB or WiFi, color recognition, line tracking and motion recognition. The controller has the following features: Color 2.4" touch display, combined WLAN/Bluetooth module, Micro SD card slot for additional memory space, IR receiver diode, integrated loud speaker, 4 motor outputs, 8 digital/analog inputs for sensors and 4 high speed numerical inputs. Additional sensors and actuators such as encoder motors, XS motor, push buttons, NTC resistors, phototransistors and LED's allow construction of mobile rover vehicle, surveillance stations, alarm centers, etc.! Preprogrammed modules are also provided for beginners. This set is compatible with other ROBOTICS construction sets. The eLearning portal (fischertechnik-elearning.com) offers exciting, instructional activity information, animations and videos. System: Windows® 7, 8 or 10.





Dual Processor
600 MHZ

Memory
256 MB RAM
128 MB FLASH



› Additionally required: Accu Set or Power Set

TXT CONTROLLER

Components	/	Dimension (mm)	225x65x150	EAN	4048962179828
Item No.	522429	Vol (m³)	0,0022	Weight (g)	350

The compact ROBOTICS TXT Controller (90x90x25 mm) can be controlled easily with the color 2.4" touch display. The combined Bluetooth/WiFi RF module provides the perfect, wireless interface for numerous applications. The numerous interfaces also include a USB host port for USB sticks and other components such as the fischertechnik USB camera. The integrated Micro SD card slot allows expansion of the memory capacity. 2 Controllers can be coupled.

- › Processor: Dual core, main processor ARM Cortex A8 (32bit/600MHz) + Cortex M3
- › Memory capacity: 256 MB DDR3 RAM, 128 MB Flash
- › Memory expansion Micro SD card slot
- › Display: Color 2.4" touch display (320x240 pixels)
- › 8 Universal inputs: Digital/analog 0-9VDC, analog 0-5 kΩ
- › 4 high speed numerical inputs: Digital, frequency up to 1kHz
- › 4 Motor outputs 9V/250mA (max.: 800 mA): speed infinitely controllable, short circuit proof, alternative 8 single outputs for components such as lights, etc.
- › Combined Bluetooth/WiFi RF module: BT 2.1 EDR + 4.0, WLAN 802.11
- › Infrared receiver diode: for fischertechnik Control Set transmitter
- › USB 2.0 Client: Mini USB port for connection to PC
- › USB Host interface: USB A port for fischertechnik USB camera, USB sticks, etc.

- › Camera interface: over USB Host, Linux camera driver integrated into operating system
- › 10-pin male connector for additional inputs and outputs as well as I²C interface
- › Integrated loud speaker
- › Integrated real time clock with exchangeable buffer battery: for capturing measured values within a defined period of time
- › Linux-based open source operating system
- › Programming possible with ROBO Pro, C-Compiler, PC-Library and many others
- › Link to smartphones/tablet PC's via Bluetooth or WLAN, allowing them to be used as terminals for the controller
- › Dimensions: 90x90x25 mm
- › Power supply: 9V DC 3.45 mm socket, or 2.5 mm fischertechnik sockets (for Accu Pack)



ROBO PRO SOFTWARE

System	Windows® 7, 8, 10	Dimension (mm)	193x16x137	EAN	4006209932964
Item No.	93296	Vol (m³)	0,0004	Weight (g)	85

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.



ROBOTICS



- › Incl. environmental sensor, brightness sensor, USB camera (1 MP), 2x encoder motor, 2x push button, LEDs
- › Additionally required: ROBOTICS TXT Controller, Software ROBO Pro, Accu Set or Power Set



TXT SMART HOME

Components	220	Dimension (mm)	465x80x320
Item No.	544624	Vol (m³)	0,0119
EAN	4048962316308	Weight (g)	1272



Smart Home, the latest trend, that can now be experienced through play, with the new fischertechnik product ROBOTICS TXT Smart Home. The stationary sensor station with a moving camera, new environmental sensor and other sensors, enables the measurement of air temperature, humidity, air pressure, air quality, volume and brightness. The camera monitors the room and triggers an alarm, e.g. when there is movement in the room, and can create snapshots. The model can be programmed and controlled with ROBO Pro software and the ROBOTICS TXT Controller. The sensors' data can be collected and plotted on a graph. In addition, the model can connect to a WiFi network, so that the camera can also be controlled from a distance. Beyond that, the TXT Controller can be connected to a cloud server, in which the sensors' data is saved, and can be retrieved from anywhere in the world. So using a user interface, a so-called "dashboard", the various sensor data can be permanently monitored, and the movement of the camera can be controlled. Further models and applications of this kit are: barometer (measures air pressure), damp monitor (measures humidity and air temperature), environmental wellness sensor (measures the air quality, temperature, humidity) with LED display, noise sensor (measures volume) and frost monitor (tests temperature against the freezing point). When the pre-set limit values are exceeded and, for example, the room needs to be ventilated because the air quality has fallen below the lower limit value, the system alerts the user via an LED display or with an alarm tone. There are many more possible applications. The accompanying activity information (eLearning portal) provides helpful background information, projects and programmer tips.

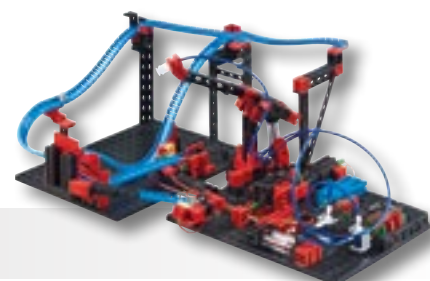


- › Incl. compressor, Mini motor, 2x solenoid valve, optical color sensor, vacuum exhauster, 3x cylinder with spring, 2x photo transistor, 2x LED light barrier, 11x flex-rail 180
- › Additionally required: ROBOTICS TXT Controller, Software ROBO Pro, Accu Set or Power Set



TXT ELECTROPNEUMATIC

Components	440	Dimension (mm)	465x80x320
Item No.	516186	Vol (m³)	0,0119
EAN	4048962136845	Weight (g)	2167



The subjects of electro-pneumatics and vacuum technology are demonstrated clearly with the aid of fascinating models such as the pneumatic motor, color sorting robot for colored parts, ball obstacle course and pinball machine. The powerful and compact compressor guarantees a reliable supply of compressed air to the models. The electro-magnetic valves included allow remote control of the models with a PC. The accompanying activity information (eLearning portal) provides helpful background information, projects and programmer tips.

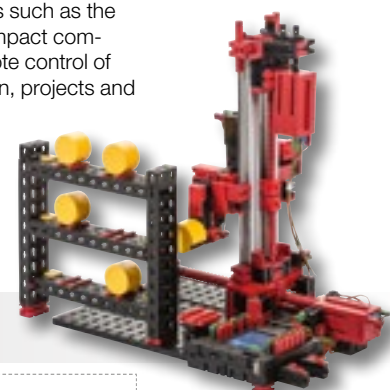


- › Incl. 2x Encoder motor, 2x XS motor, 6x push button
- › Additionally required: ROBOTICS TXT Controller, Software ROBO Pro, Accu Set or Power Set



TXT AUTOMATION ROBOTS

Components	510	Dimension (mm)	465x80x320
Item No.	511933	Vol (m³)	0,0119
EAN	4048962111309	Weight (g)	2252

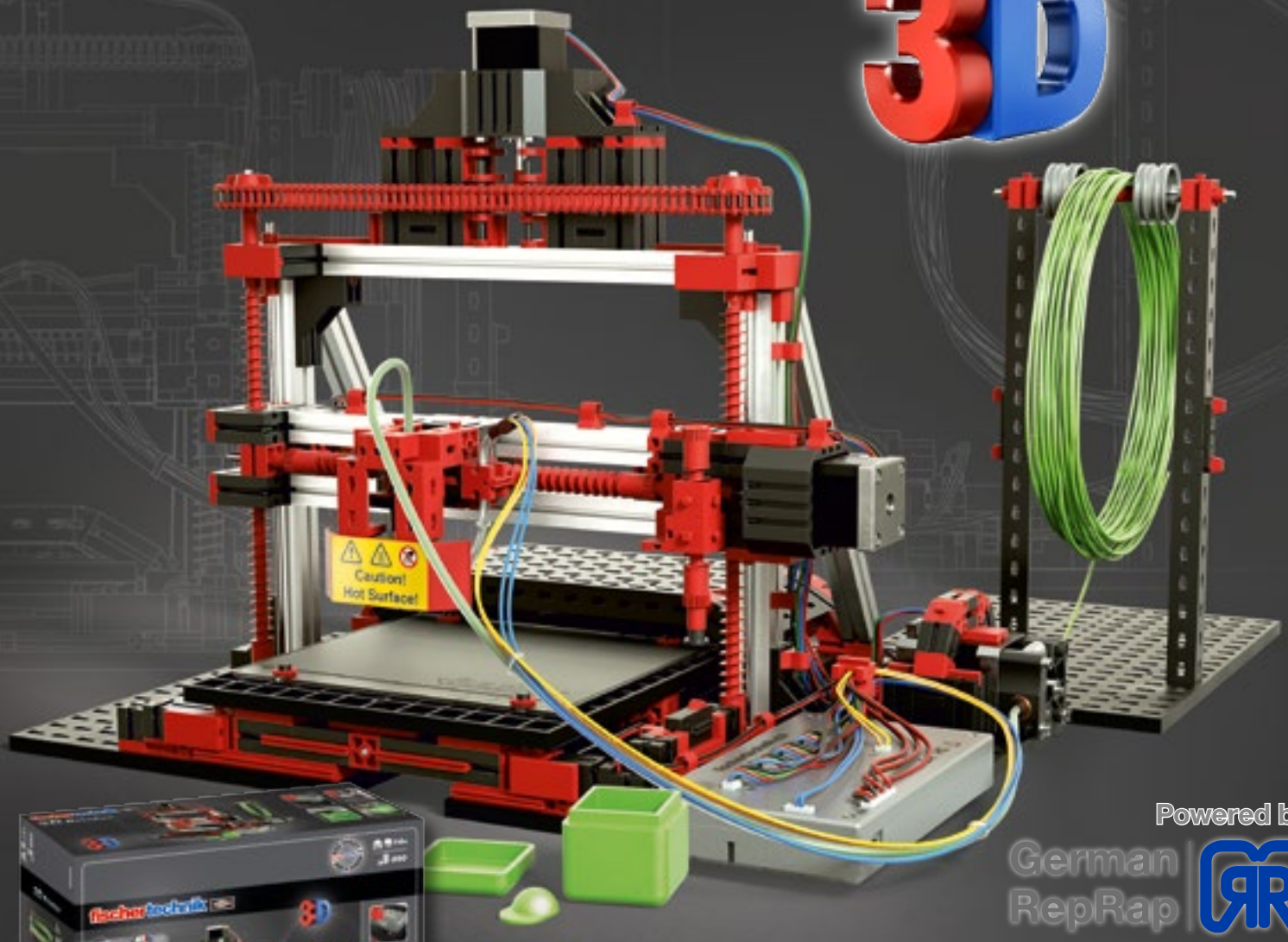


Four reality-based and fully functional industrial robots: High-rack storage, 3-axis robot and 2 other grapple robots. Sturdy fischertechnik aluminum profiles used in all models. The instructional activity information in the eLearning portal (fischertechnik-elearning.com) provides support in the form of background information, projects and programming tips. For programmers and designers from age 10.



3D PRINTER

3D



Powered by:

German RepRap

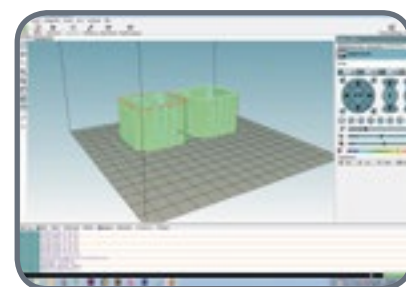


3D PRINTER

Components	890	Dimension (mm)	465x160x390
Item No.	536624	Vol (m³)	0,0209
EAN	4048962250312	Weight (g)	6337



Build, Plug & Print! This build-it-yourself kit gives users a fascinating insight into the groundbreaking technology of 3D printing. Print your own parts yourself at any time - so distinct, so easy, so flexible - for use in your own home! Use either the supplied printing examples, different examples on our eLearning portal (fischertechnik-elearning.com) or your very own print data. The robust 3D printer is easy to build and can be used for 3D printing of different parts. Users acquire basic knowledge about 3D printing and an insight into this revolutionary technology that promises a high degree of future potential. Includes PC software for controlling the printer via the USB interface. The eLearning portal offers exciting, instructional activity information and videos.

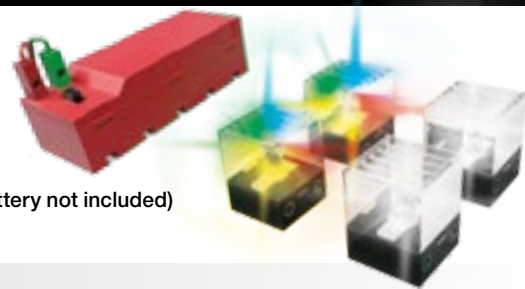
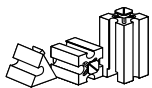


- › Incl. 3D controller with Atmel microcontroller, USB interface for PC (Micro B USB port, incl. interface cable), 4 step motor drivers (for x, y and z axes and extruder), one power output (MOS-FET) for the extruder nozzle (hot end), connections for 3 limit switches and a temperature sensor, DC port for voltage supply 19V, 6.3A. Dimension: 150x90x25 mm
- › Incl. 3D Print Control software, with slicer and printer control, specially adapted to fischertechnik 3D printers (Windows 7, 8, 10). Numerous finished printing examples included as G-codes and STL files.
Also works with Mac OS X and Linux with the software RepetierHost: www.fischertechnik.de/3DPrinter-FAQ
- › Incl. 4 high-torque step motors (x-, y- and z-axes, extruder), 3 mini push-buttons (as limit switches for x-, y- and z-axes), heated nozzle (for 1.75 mm diameter filament) with temperature monitoring, printing bed with removable printing plate
- › Incl. power unit (AC input 100-240V, DC output 19V, 6.3A, 50-60Hz)
- › Incl. high quality filament (50 g roll, PLA, 1.75 mm diameter, green). Premium filament in special fischertechnik colors (50 g roll or 500 g coil) can be ordered separately

Technical data:

- › Printing range: 115x100x65 mm
- › Layer thickness: min. 0.2 mm
- › Filament diameter: 1.75 mm
- › Nozzle diameter: 0.5 mm
- › Material: PLA (polylactide)





- › Incl. 2x Rainbow LED, 2x white LED, battery holder for 9V block (battery not included)
- › Ideal addition: Accu Set or Power Set



LED SET

Components	40	Dimension (mm)	225x65x150	EAN	4048962229752
Item No.	533877	Vol (m³)	0,0022	Weight (g)	175

The LED Set is just the right solution for more light! The construction sets can now be upgraded even further with more luster and additional light effects. The set contains two Rainbow LED's that flash in different colors and frequencies, together with two white LED's and a battery holder.



- › Additionally required: Transmitter: 9V alkaline battery (battery not included); receiver: Accu Set



BLUETOOTH CONTROL SET

Components	Controller, receiver, servo	Dimension (mm)	225x65x150	EAN	4048962280043
Item No.	540585	Vol (m³)	0,0022	Weight (g)	410

The Bluetooth Control Set makes it possible to control fischertechnik models remotely using the included remote control or a smartphone or tablet. Bluetooth low energy technology offers a long range of up to 10 meters. Control up to three motors and one servo motor. Steering angle and speed control are infinitely variable. Remote control can be operated with up to two receivers, allowing for numerous applications. Thanks to the applied Bluetooth technology, several Bluetooth Control Sets can be used in the same room without interfering with each other.



- › Performance data: Voltage 9V~, max. output 1.0 W at 6000 RPM

MOTOR SET XS

Components	45	Dimension (mm)	225x65x150	EAN	4048962069426
Item No.	505281	Vol (m³)	0,0022	Weight (g)	201

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 holder with integrated pole-reversing switch for 9V block (battery not included).



- › Performance data: Voltage 9V~, max. output 3.0 W about 340 RPM
- › Additionally required: Accu Set or Power Set

MOTOR SET XM

Components	40	Dimension (mm)	225x65x150	EAN	4048962069433
Item No.	505282	Vol (m³)	0,0022	Weight (g)	278

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





➤ ACCU SET



Components	Charger + battery pack in one	Dimension (mm)	225x65x150	EAN	4006209349694
Item No.	34969	Vol (m³)	0,0022	Weight (g)	490

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, 1800mAh.



- › Power Pack Performance Data: Voltage 9V.../2,5 A
- › Power Controller Performance Data: Regulated output 1A max., additional output with 9V.../1 A max. (not regulated), both outputs short circuit-proof with overload protection



➤ POWER SET

Components	Power unit + control unit in one	Dimension (mm)	225x65x150	EAN	4048962069440
Item No.	505283	Vol (m³)	0,0022	Weight (g)	431

Power pack and infinite Power Controller. The power supply from the electrical socket for all fischertechnik models.



➤ CREATIVE BOX 1000

Components	720	Dimension (mm)	390x95x270	EAN	4006209910825
Item No.	91082	Vol (m³)	0,0100	Weight (g)	2697

More than 700 components from the current fischertechnik assortment. Packed in BOX 1000 with building board 390x270 mm as cover



➤ BOX 1000

Components	/	Dimension (mm)	390x95x270	EAN	4006209303832
Item No.	30383	Vol (m³)	0,0100	Weight (g)	1889

Practical storage box with eight sorting boxes and 32 sorting partitions. The cover also serves as the big building board 390x270 mm.



SALES PROMOTION



»PROFI« poster, DIN A1
Item No. 39125



»ROBOTICS« poster, DIN A1
Item No. 39126



Dekorative cube, 25x25x25 cm
Item No. 142202



Flag, 200x80 cm
Item No. 500887



Beach Flag, 215 cm
Item No. 522425



Stand Dynamic
Item No. 544938



Consumer brochure
Item No. 44465



Brochure stand
(on request)



Toy box – (on request)

The toy box allows small designers to experience the world of Fischertechnik up close. With many components and instructions, the toy box is the optimum activity for your events. And best of all: It can be used again and again.



Give-Away
Art.-Nr. 546459



Digital photo frame
(on request)



Shopping bag, 46x59 cm
Item No. 43355



Top sign 125x30 cm – (on request)
100x30 cm – (on request)



SALES PROMOTION



DEKORATIV MODELS



Dekorative model Solar
(on request)



Dekorative model Universal Starter
(on request)



Dekorative model Dynamic XS+S – (on request)



Dekorative model Pneumatic Power – (on request)



Dekorative model Robotics – (on request)



Dekorative model ferris wheel – (on request)



Dekorative model Dynamic
(on request)



Building Blocks For Life

fischertechnik 
education

► SCHOOL + INITIAL AND ADVANCED TRAINING

- **Assembly instructions**
- **Activity booklet**
- **Worksheets**

Discover, understand, design, build, learn: That's what drives us – A whole life long. At fischertechnik, we also call it "Learning about technology through play". For over 50 years, we have been creating components, construction kits and building systems for children and students of all ages. Our products awaken different interests, promote skills, and inspire lifelong learning for every age level and school type.

Teachers at schools, universities, and colleges all of the world understand that fischertechnik products motivate children and students to explore. Our building kits found their way into state and non-governmental teaching facilities through the toy market early on. Systems by fischertechnik Education continue to build on this history of success. Their success continues to grow with new topics and ideas relevant to the curriculum. fischertechnik systems combine the worlds of traditional and digital technology, an especially important consideration for the future. This is important in mechanics and robotics, for instance – today, you can't have one without the other.



► SIMULATION

fischertechnik and simulation – an optimal combination many engineers and experts have already put their trust in! With fischertechnik, experts can recreate complex processes realistically. fischertechnik products are already used in a variety of industrial applications through ready-made compact training models. They are designed to reproduce and simulate actual processes.

fischertechnik training models are ideal for educational, simulation and demonstration purposes.

With fischertechnik, users can simulate and try out many processes important to the smart factory – then demonstrate them in a clear and easy to understand way.

The fischertechnik factory simulation and all other fischertechnik training models are delivered fully constructed and can be operated using 9V standard voltage or 24V industrial standard voltage. These models focus on simulation and demonstration, presenting digital networked applications in a real production environment.



fischertechnik 

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FAN CLUB

More than 30.000 fans are members at no cost in the fischertechnik Fan Club. Every fan regularly receives current information, the biannual Fan Club NEWS and has his personal member identification.

fischertechnik opens the doors once a year on Fan Club Day. The fans receive the exclusive opportunity to take a peek behind the curtains of the traditional brand.



BEFESTIGUNGSSYSTEME

AUTOMATISIERUNGSSYSTEME

FISCHERTECHNIK

CONCEPTS

fischerTIP

creativ



2019

English Italiano



fischer TiP 100

Art. No.: 508773

EAN: 4048964000250



After the make-it-yourself fun is finished, any remaining TiPs are placed back in the bucket secure and clean.

Contents: multicolored TiPs, sponge, instructions

Dopo il fai-da-te, i restanti TiP vengono riposti puliti e in modo sicuro nel secchio.

Contenuto: TiP colorati, spugna, manuale fai-da-te

Dimensions / Dimensioni

14,0 x 13,0 x 13,0 cm

Weight /
Peso

80 g

Volume

1,0 l



fischer TiP 300

Art. No.: 533781

EAN: 4048964000823

After the make-it-yourself fun is finished, any remaining TiPs and the tools are placed back in the bucket secure and clean.

Contents: multicolored TiPs, sponge, cutting tool, instructions

Dopo il fai-da-te, i restanti TiP ed utensili vengono riposti puliti e in modo sicuro nel secchio.

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te

Dimensions / Dimensioni

19,0 x 17,0 x 15,5 cm

Weight /
Peso

140 g

Volume

2,5 l

fischer TiP 600

Art. No.: 533782

EAN: 4048964000830



The practical and attractive bucket contains colorful TiPs, sponge, cutting tool and instructions.

Contents: multicolored TiPs, sponge, cutting tool, instructions

Il pratico ed elegante secchio contiene TiP colorati, una spugna, un utensile da taglio e le istruzioni per il bricolage.

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te



fischer TiP 1200

Art. No.: 533784

EAN: 4048964000847

After finishing the make-it-yourself fun, any remaining Tips, tools and other utensils are placed back in the bucket secure and clean!

Contents: multicolored TiPs, sponge, cutting tool, instructions

Dopo il bricolage i restanti TiP, gli utensili e gli altri attrezzi vengono riposti puliti e in modo sicuro nel secchio. Niente male!

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te

Dimensions / Dimensioni

24,5 x 22,5 x 19,5 cm

Weight /
Peso

240 g

Volume

5,0 l



fischer TiP Unicorn 600

Art. No.: 540824

EAN: 4048962281569

With the Unicorn Bucket, you can make the unicorn of your dreams – your imagination in this fairy tale world knows no limits. You can bring the much-loved mythical creature to life with the easy-to-understand instructions.

Contents: multicolored TiPs, sponge, cutting tool, instructions

Con l'Unicorn Bucket puoi creare l'unicorno dei tuoi sogni - la tua immaginazione in questo mondo fiabesco non conosce limiti. Puoi dare vita a questa creatura mitica e molto amata con le istruzioni di facile comprensione.

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te



Dimensions / Dimensioni

21,0 x 20,0 x 20,5 cm

Weight /
Peso

240 g

Volume

6,0 l

Dimensions / Dimensioni

28,5 x 27,0 x 26,5 cm

Weight /
Peso

450 g

Volume

10,0 l

NEW



fischer TiP Alpaca

Art. No.: 548968

EAN: 4048962353532

Take the new Alpaca Bucket on an exciting journey to the steppes of South America, and discover the world of this fluffy and trendy animal. Alpacas come in a wide range of colours, so your creativity in designing and creating these animals will know no bounds.

Contents: multicolored TiPs, sponge, cutting tool, instructions

Parti per un affascinante viaggio nelle steppe dell'America meridionale e immergiti nel mondo di questo soffice animale con il secchio alpaca. L'alpaca ha i colori più svariati: pertanto, alla creatività non sono posti limiti di nessun genere nel bricolage e nella creazione degli animali.

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te

Dimensions / Dimensioni

21,0 x 20,0 x 20,5 cm

Weight /
Peso

254 g

Volume

6,0 l





fischer TiP Box S

Art. No.: 40993

EAN: 4037354409933

Contents: multicolored TiPs, sponge, cutting tool, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te



Dimensions / Dimensioni

12,6 x 5,7 x 13,5 cm

Weight /
Peso

65g

Volume

1,0l



fischer TiP Box M

Art. No.: 49111

EAN: 4037354491112

Contents: multicolored TiPs, sponge, cutting tool, paint and glue cap, 3 sticks, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, contenitore per dipingere e incollare, 3 stick, manuale fai-da-te

Dimensions / Dimensioni

12,6 x 11,6 x 13,5 cm

Weight /
Peso

100g

Volume

2,0l



fischer TiP Box XM

Art. No.: 41622

EAN: 4037354416221

Contents: multicolored TiPs, sponge, cutting tool, paint and glue cap, 3 sticks, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, contenitore per dipingere e incollare, 3 stick, manuale fai-da-te

Dimensions / Dimensioni

12,6 x 11,6 x 26,8 cm

Weight /
Peso

160g

Volume

3,9l



fischer TiP Box L

Art. No.: 40994

EAN: 4037354409940

Contents: multicolored TiPs, sponge, cutting tool, paint and glue cap, building block mold, 3 sticks, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, contenitore per dipingere e incollare, modellatore per mattoncini, 3 stick, manuale fai-da-te



Dimensions / Dimensioni

19,1 x 11,6 x 26,8 cm

Weight /
Peso

225g

Volume

5,9l



fischer TiP Premium Box XL

Art. No.: 516179

EAN: 4048964000441

Contents: multicolored TiPs, sponge, cutting tool, paint and glue cap, building block mold, 2 stencil insert for brickwork, rasp, 3 sticks, instructions

Contenuto: TiP colorati, spugna, utensile da taglio, contenitore per dipingere e incollare, modellatore per mattoncini, 2 stampini per l'opera muraria, grattugia, 3 stick, manuale fai-da-te

Dimensions / Dimensioni

38,0 x 11,6 x 26,8 cm

Weight /
Peso

400g

Volume

11,8l

fischer TiP Princess Backpack

Art. No.: 544627

EAN: 4048964001004

The Princess backpack contains everything a little princess could wish for. The backpack offers everything you need to make up all the accessories, whether princess model, tiara, jewel box, functioning mirror, bracelet or necklace with a charm. Special color mixture with pink, violet and skin color.

Contents: TiPs, sponge, cutting tool, make-it-yourself instructions for 6 models, string, mirror foil, 3x cardboard template

Lo zaino Princess contiene tutto ciò che una piccola principessa potrebbe desiderare. Lo zaino offre tutto il necessario per comporre tutti gli accessori, che si tratti del modello principessa, tiara, portagioie, portagioie, specchio funzionante, bracciale o collana con fascino. Speciale miscela di colori con rosa, viola e colore della pelle.

Contenuto: TiP colorati, spugna, utensile da taglio, manuale fai-da-te, spago, foglio a specchio, 3 modelli in cartone

Dimensions / Dimensioni

23,0 x 15,0 x 30,0 cm

Weight /
Peso

285g

Volume

10,0l



fischer TiP Backpack

Art. No.: 520393

EAN: 4048964000540

The red backpack with adjustable straps contains multicolor TiPs. All standard TiP tools and instructions are stowed in a separate compartment where they are easy to reach. After playing the backpack is perfect for storing your TiPs and tools.

Contents: multicolored TiPs, sponge, cutting tool, paint and glue cap, building block mold, 15 sticks, instructions

Lo zaino rosso con bretelle regolabili contiene TiP colorati. Riposti all'interno della tasca separata, gli attrezzi TiP standard e le istruzioni per il fai-da-te sono sempre pronti all'uso. Lo zaino è inoltre il contenitore ideale per riporre i TiP e gli attrezzi dopo l'utilizzo.

Contenuto: TiP colorati, spugna, utensile da taglio, contenitore per dipingere e incollare, modellatore per mattoncini, 15 stick, manuale fai-da-te

Dimensions / Dimensioni

23,0 x 15,0 x 30,0 cm

Weight /
Peso

309g

Volume

10,0l





fischer TiP

» The big book of ideas «

Art. No.: 40997

EAN: 4037354409971

Exact instructions and examples, many photos of individual steps and valuable tips, high quality hardcover.

Contents: 80 pages, in German

Istruzioni e modelli dettagliati, molte fotografie delle varie fasi e consigli preziosi. Copertina di pregio.

Contenuto: 80 pagine, in tedesco

Dimensions / Dimensioni

19,3 x 26,5 x 1,1 cm

Weight / Peso

461 g

Volume

0,6 l



fischer TiP Ideas

» Seasons «

Art. No.: 511928

EAN: 4048964000366

Contents: 24 make-your-own pictures Spring, Summer, Autumn and Winter; the four seasons as amusing make-it-yourself pictures. For children from age 3.

Contenuto: 24 quadretti fai-da-te. Primavera, estate, autunno e inverno: tutte le stagioni su divertenti quadretti fai-da-te. Per bambini dai 3 anni di età.

Dimensions / Dimensioni

21,0 x 29,8 x 0,5 cm

Weight / Peso

305 g

Volume

0,3 l



fischer TiP Box XXL

Art. No.: 49114

EAN: 4037354491143

Contents: multicolored TiPs, 8x sponge, 8x cutting tool, 4x paint and glue cap, 4x building block mold, 10 sticks, 4x instructions, cardboard base

Contenuto: TiP colorati, 8x spugna, 8x utensile da taglio, 4x contenitore per dipingere e incollare, 4x modellatore per mattoncini, 10 stick, 4x manuale fai-da-te, profili in cartone



fischer TiP

Refill Box XXL

Art. No.: 49115

EAN: 4037354491150

Contents: multicolored TiPs, instructions, cardboard base

Contenuto: TiP colorati, manuale fai-da-te, profili in cartone,

Dimensions / Dimensioni

58,0 x 38,5 x 28,5 cm

Weight / Peso

1.300 g

Volume

63,6 l

Dimensions / Dimensioni

58,0 x 38,5 x 28,5 cm

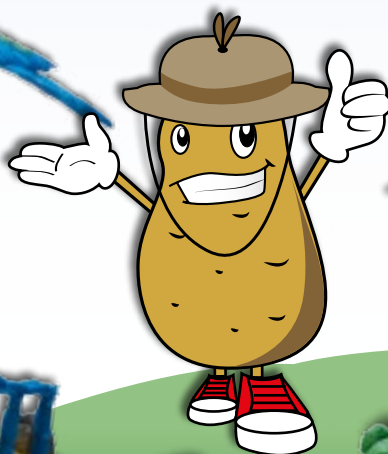
Weight / Peso

1.200 g

Volume

63,6 l

TiP in kindergarten
TiP nella scuola materna



Sales promotion ... / Promozione vendite ...



Give Away Polybag
Sacchetto di TiP in omaggio
Art. No.: 523802



Showpiece shelf hanger
Supporto da scaffale per oggetti da collezione
Art. No.: 151146



TiP-Shelf strips 125 x 3,5 cm / TiP-strisce da applicare sugli scaffali 125 x 3,5 cm
Art. No.: 145450



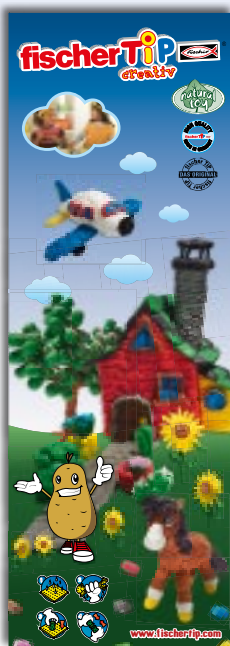
TiP Brochures
TiP-dépliant
Art. No.: 40992



TiP Bag
TiP-shopper
Art. No.: 43355



TiP Banner 80 x 200 cm
Bandiera TiP 80 x 200 cm
Art. No.: 510694



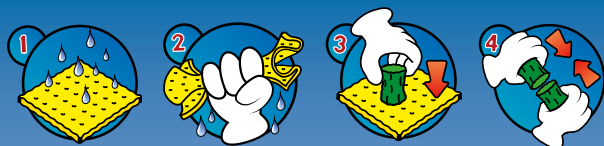
TiP Poster 29,7 x 84,1 cm
TiP-poster 29,7 x 84,1 cm
Art. No.: 40999



TiP Product display 60 x 40 x 180 cm
TiP-espositore 60 x 40 x 180 cm
Art. No.: 551618 / EAN: 4048962354485



Learning by Playing ... Imparare giocando ...



Creative activity with fischer TiP promotes the child's sense of three-dimensional space as well as their creativity and motor functions.

Nelle realizzazioni creative con fischer TiP vengono sviluppate, oltre alla creatività, anche il movimento e la capacità di immaginazione tridimensionale.

What's Special?

fischer TiPs are made of potato starch colored with food dyes.

The advantages of potato starch are clear:

- Sticks without glue, therefore safe and harmless
- Outstanding adhesive characteristics
- Brilliant, powerful, lustrous colors
- Renewable raw material and therefore environmentally friendly and sustainable
- 100% bio-degradable!
- Neutral odour
- High quality "Made in Germany"

Il particolare:

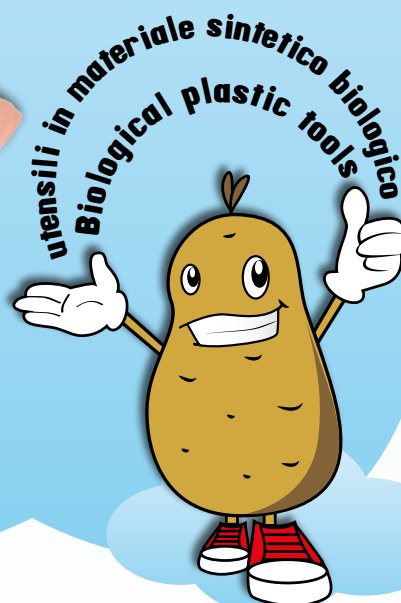
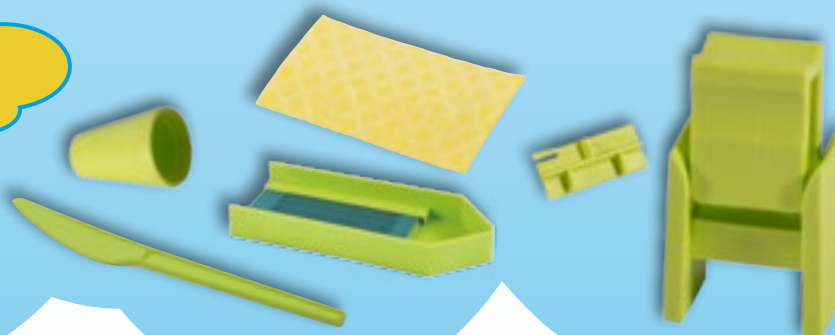
fischer TiP consiste in fecola di patate e contiene coloranti alimentari.

I vantaggi della fecola di patate sono evidenti:

- incolla senza colla, basta solo l'acqua - quindi è sicura e non problematica
- eccellente potere aderente
- colori brillanti e molto luminosi
- materia prima rinnovabile e quindi ecologica e sostenibile
- biodegradabile al 100%!
- inodore
- qualità "Made in Germany"



+6 UTENSILI
+6 TOOLS



fischerTiP

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