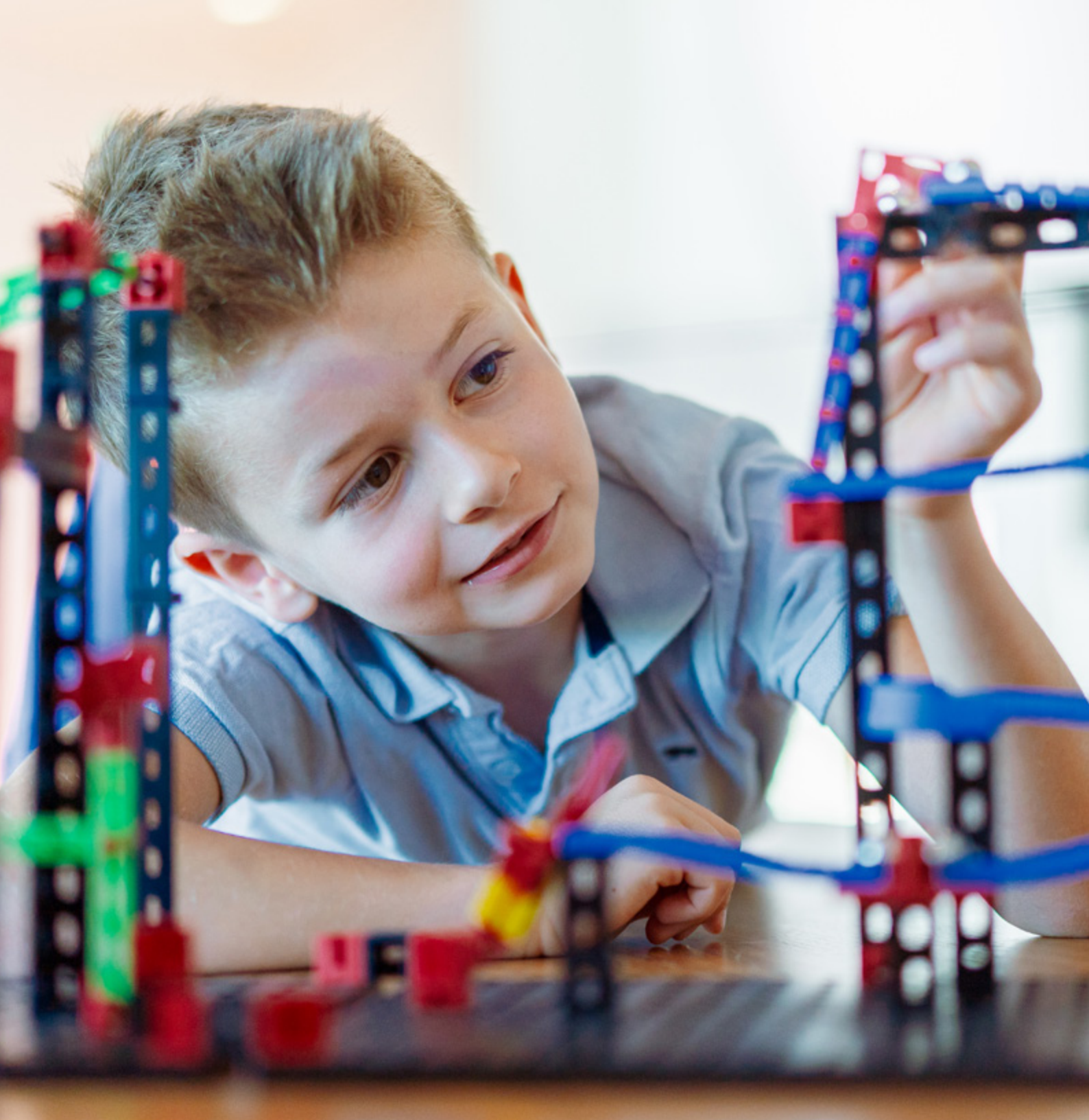


Building Blocks for Life

**fischertechnik**



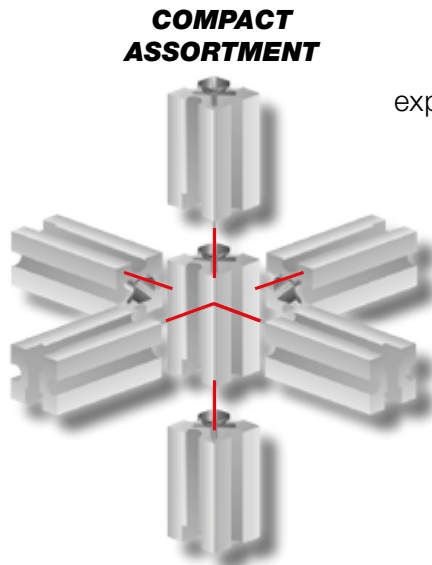
The fun and creative way to explore technology

**2020**

**YOUR ADVANTAGE**

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

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



**COMPACT  
ASSORTMENT**

**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.

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

**QUALITY  
'MADE IN GERMANY'**



**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](http://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**



**3+**




page 06

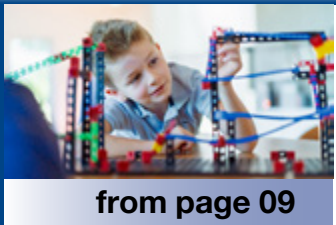
The fun of playing starts at the age of three with fischertechnik. The red junior line provides the first experience with technology and the way it functions. The motto is learning by playing and building with fast success.



**ADVANCED**



**7+**




from page 09

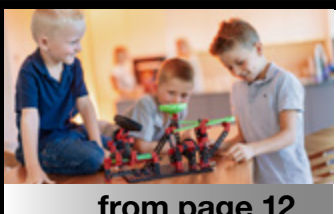
Seven-year olds develop their knowledge and capabilities with the blue line. The models are not only realistic and understandable in their function, but really robust in construction and for playing.



**PROFI**



**7+**




from page 12

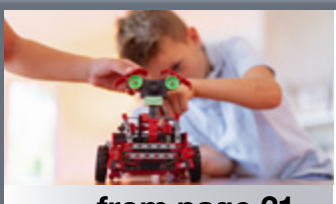
The black line, which starts at seven of age, offers the technicians of tomorrow design construction sets that are very close to reality. Subjects such as mechanics, statics, pneumatics, electrical technology or regenerative energies guarantee outstanding experiences in the world of technology.



**ROBOTICS**



**8+**



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 25

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



## ▶ EASY STARTER TRUCKS

There is always a lot going on at the construction site. They are excavating, concreting and working hard. Of course, this requires special equipment. The fischertechnik Easy Starter Trucks are perfectly suited: The construction site truck is built especially robust and the construction pit is excavated in no time! The excavator boom is easily controlled with a hand mechanism. In order to take building material to the site, the truck can be modified into a transport vehicle in just a few moves. Due to the large building components and the simple rotation mechanism, the construction kit can be used by children as young as 3 years. The simple, age-appropriate instructions are also included. Fischertechnik components promote eye-hand coordination as well as motoric skills.



▶ AVAILABLE from March 2020

## ▶ EASY STARTER FIRE TRUCKS

Nee naw, nee naw - fire engines are always a big attraction for children! With the fischertechnik Easy Starter Fire Trucks, children can dive into the world of emergency vehicles and fire fighting operations as early as from the age of 3. The cool trucks not only convince with their design suitable for children, but also the flexible system. A total of 4 different models can be constructed on the foundation of the base vehicle. With the assistance of simple rotation mechanisms, for example, a fire engine with a telescopic turnable ladder and a water tank can be constructed on the double-axis trailer. We are now perfectly equipped to handle a smoldering fire on the third floor. If the vehicle is to be modified, it is also possible to equip the truck chassis and the trailer with a water tank, a turnable ladder and a winch - an extremely flexible system which guarantees long-lasting and diversified fun. While the children are engrossed in their games, the motoric skills are trained and the eye-hand coordination honed due to the fischertechnik construction system.



▶ AVAILABLE from March 2020

## ▶ SMART SUPERZOOM

Small things come out big with the Smart SuperZoom!

In the process, it doesn't matter whether it is an autumn maple leaf or mum's business card: due to the high quality lens, everyday items can be enlarged 26-fold and examined and recorded (regardless of the Smartphone) on the screen of the Smartphone due to the magnification of the Smart SuperZoom. This creates unique images, which can be sent and shared with friends immediately.

A real discovery set whereby the Smartphone becomes the microscope while out and about! In the process, the device used is irrelevant: Every Smartphone type can be connected with the flexible and adjustable fischertechnik magnifying glass. The microscope is affixed with the aid of a vacuum pad, which fixates the Smartphone reliably and without any adhesive. It can also be removed entirely and residue-free.



▶ AVAILABLE from March 2020

## ▶ HANGING ACTION TOWER

This marble run sets new benchmarks in all aspects: the Hanging Action Tower is the first hanging marble run in the world!

Due to the clever attachment by way of a vacuum pad, the flexible marble run can be affixed at any horizontal edge (shelf, cupboard etc.). The lift in this long marble run is solved by an innovative belt system: our new fischertechnik Easy Elevator! Simple and quick to construct, perfectly suited for large altitude differences, efficient and with an elegant look! The cool look is complemented by a sticker sheet that glows in the dark! Lightning, arrows and much more can be stuck on. So the marble run in the darkened children's room becomes an absolute highlight! But, that's not all, is it? The drive is manual via a chain or additionally with a motor. The spring-mounted tension pulley on the lift ensures even tension of the belt and trouble-free operation. In addition, there is a marble collector, where the number of marbles can be set at random.

A flex hose with rotatable ends ensures the simple and flexible installation into the model. The hanging marble run also holds several other refinements: a funnel catches flying marbles, a ramp provides proper lift - all in all a super entertaining track - and all that in a new, cooler colour, namely silver!



▶ AVAILABLE from June 2020

## ▶ CREATIVE BOX BASIC

If one wanted to give in to one's creativity and fantasy, the fischertechnik Creative Box Basic is just perfect: equipped with numerous basic building blocks, corner blocks and building plates, static elements and other „basics“, this set provides the perfect base to create great and creative things! In the process, it doesn't matter whether an entirely new model is being created or an existing model is expanded according to individual desires. The instructions provide information on the basic functionalities of the enclosed building blocks. A further highlight of the Creative Box Basic is the storage box with 8 compartments, which ensures flexible separation. The numerous building components can be ideally sorted, providing an overview at all times. The large fischertechnik base plate upon which the own model can be built serves as the lid.



▶ AVAILABLE from March 2020

## ▶ CREATIVE BOX MECHANICS

The Creative Box Mechanics is ideally suited for tinkers and inventors! Technically interested children appreciate the Creative Box Mechanics: Full of gear wheels, pinions, axes, worms and other drive components, the Creative Box Mechanics is ideally suited to bring movement into almost any mechanism. Due to the opulent selection and number of components, the creativity and the implementation of plans are limitless. It permits the construction of a worm drive, winches with pulleys, chain transmissions and much more. The set is supplied with two stackable plastic tubs with flexible separators. The base building plate upon which the individual models can be constructed, serves as the lid.



▶ AVAILABLE from March 2020



## NEW



### EASY STARTER TRUCKS

Components	24	Dimension (mm)	320x120x230
Item No.	554194	Vol (m <sup>3</sup> )	0,0088
EAN	4048962390483	Weight (g)	648



There is always a lot going on at the construction site. They are excavating, concreting and working hard. Of course, this requires special equipment. The fischertechnik Easy Starter Trucks are perfectly suited: The construction site truck is built especially robust and the construction pit is excavated in no time! The excavator boom is easily controlled with a hand mechanism. In order to take building material to the site, the truck can be modified into a transport vehicle in just a few moves. Due to the large building components and the simple rotation mechanism, the construction kit can be used by children as young as 3 years. The simple, age-appropriate instructions are also included. Fischertechnik components promote eye-hand coordination as well as motoric skills.



### EASY STARTER S

Components	35	Dimension (mm)	320x120x230
Item No.	548902	Vol (m <sup>3</sup> )	0,0088
EAN	4048962351101	Weight (g)	728



Thanks to the JUNIOR Easy Starter system, young designers ages 3 and up can experience the world of fischertechnik. The simple connection system helps little builders enjoy successful builds and lots of playing fun quickly. The building instructions are designed to be appropriate for children and make it easier to get started with the fischertechnik system in combination with large building elements.

These beginner building sets can be used to create two different truck models. Both a trough and a fischertechnik building panel with crane can be attached to the yellow driver's cab. This lets builders create a mobile crane or construction site vehicle in a flash with the help of the instructions. In addition, little builders can also get creative and design their own attachments. The system not only brings tons of fun to your child's room, but also promotes fine motor skills and hand-eye coordination.



**NEW**



## EASY STARTER FIRE TRUCKS

<b>Components</b>	45	<b>Dimension (mm)</b>	465x120x320
<b>Item No.</b>	554193	<b>Vol (m³)</b>	0,0179
<b>EAN</b>	4048962390476	<b>Weight (g)</b>	1051



Neeraw, neeraw - fire engines are always a big attraction for children! With the fischertechnik Easy Starter Fire Trucks, children can dive into the world of emergency vehicles and fire fighting operations as early as from the age of 3. The cool trucks not only convince with their design suitable for children, but also the flexible system. A total of 4 different models can be constructed on the foundation of the base vehicle. With the assistance of simple rotation mechanisms, for example, a fire engine with a telescopic turnable ladder and a water tank can be constructed on the double-axis trailer. We are now perfectly equipped to handle a smoldering fire on the third floor. If the vehicle is to be modified, it is also possible to equip the truck chassis and the trailer with a water tank, a turnable ladder and a winch - an extremely flexible system which guarantees long-lasting and diversified fun.

While the children are engrossed in their games, the motoric skills are trained and the eye-hand coordination honed due to the fischertechnik construction system.



## EASY STARTER L



<b>Components</b>	60	<b>Dimension (mm)</b>	465x120x320
<b>Item No.</b>	548903	<b>Vol (m³)</b>	0,0179
<b>EAN</b>	4048962351118	<b>Weight (g)</b>	1251



With the big beginner construction set for the Junior Line, builders ages 3 and up can construct 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. Thanks to the fischertechnik system, young designers ages 3 and up can experience the world of fischertechnik. The simple connection system guarantees fast building success and offers lots of fun for little builders. Thanks to the large construction elements and child-friendly building instructions, kids can start building with fischertechnik systems from age 3.

The 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 (m <sup>3</sup> )	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 (m <sup>3</sup> )	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.





# ADVANCED



## RACERS



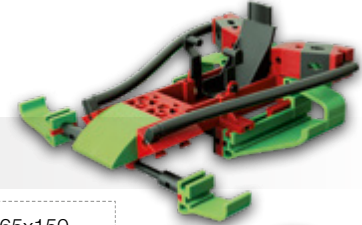
Components	50	Dimension (mm)	225x65x150
Item No.	540580	Vol (m³)	0,0022
EAN	4048962280005	Weight (g)	238



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!



› 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.



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

## UNIVERSAL 4

Components	500	Dimension (mm)	465x80x320
Item No.	548885	Vol (m³)	0,0119
EAN	4048962350951	Weight (g)	1800



With the beginner building kit by fischertechnik, children ages 7 and up can get a look at the world of technology through play. With the ADVANCED Universal 4 building kit, builders can create a total of 40 models like vehicles with steering, bulldozers with crawler tracks, a construction crane, and much more. Several models can be built at the same time, which is a great feature. This allows kids to build toys of different types or from different play worlds, such as a cargo helicopter with a transmission mast, a construction site, playground, etc. These different topics and play worlds offer versatile building and playing fun in any child's room. Thanks to the large number of components, their creativity will know no bounds. In addition, many models can be expanded with Plus Sets. The comprehensive building instructions describe how to add motors, lights, etc.





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

## FUNNY MACHINES



<b>Components</b>	385	<b>Dimension (mm)</b>	465x80x320
<b>Item No.</b>	551588	<b>Vol (m³)</b>	0,0119
<b>EAN</b>	4048962354225	<b>Weight (g)</b>	1990



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

The ADVANCED Funny Machines building kit is a fun, colourful beginner set for young designers ages 7 and up, and focuses on chain reactions. The three chain reaction models kids can build with the building instructions will bring action to your child's room. The models work using a domino effect, while fischertechnik fun triggers big reactions. The little car hits a trigger that releases a weight. The weight falls to hit another panel, launching a ball that runs a course until it hits the coil gun. The magnetic gun adds even more speed, accelerating another ball to shoot it through a course. At the end of the funny chain reaction, a catapult is triggered to throw another ball to hit the target. Your child's creativity will know no bounds. Creative tinkerers can integrate fischertechnik parts or other toys like dominoes into the course to add even more funny features. Other inspiring chain reaction videos are available on the fischertechnik website ([www.fischertechnik.de/funnymachines](http://www.fischertechnik.de/funnymachines)) to help boost kids' creativity.



- › 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



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



The Bluetooth Racing Set is a complete set for building three innovative vehicles in the cool 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. XS motor, battery holder for 9V block (battery not included)
- › Ideal additions: LED Set, Power Set

## SUPER FUN PARK



<b>Components</b>	660	<b>Dimension (mm)</b>	465x80x390
<b>Item No.</b>	508775	<b>Vol (m³)</b>	0,0145
<b>EAN</b>	4048962095647	<b>Weight (g)</b>	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. 90° curve, 2x ball, 6x flex-rail 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](http://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° curve, 3x ball, 6x flex-rail 90, 3x flex-rail 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!



- › Incl. 2x rotary funnel, launching pad cover, 180° curve, 5x ball, 2x flex-rail 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 tube, cross-over, 5x 90° curve, 8x ball, 4x flex-rail 90, 14x flex-rail 180
- › Ideal additions: All construction sets in the Dynamic Line, Motor Set XS, LED Set

## DYNAMIC M

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



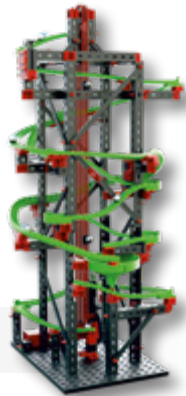
Action and sound parts open up many possibilities for even more exciting courses. While they race downwards, the steel balls let the sound tubes create melodic tones. The rotary funnel offers a completely new way of bringing the balls onto the next rail. The balls also shoot and fly down the obstacle 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, 4x 90° curve, 3x 180° curve, 8x ball, 4x high-speed flex-rail, 8x flex-rail 90, 17x flex-rail 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 L 2

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



The complete Dynamic L 2 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 runs 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](http://fischertechnik-elearning.com)) offers exciting, instructional activity information and videos related to physics. Let's roll...!



- › Incl. XS motor, 2x rainbow LED, 2x flex-tube 360, 7x 90° curve, 5x 180° curve, 7x high-speed flex-rail, 8x flex-rail 90, 16x flex-rail 180, 8x ball, 2x cross-over, 2x rotary funnel, 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

<b>Components</b>	1360	<b>Dimension (mm)</b>	465x80x390
<b>Item No.</b>	544619	<b>Vol (m³)</b>	0,0145
<b>EAN</b>	4048962316254	<b>Weight (g)</b>	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 5.60 m, 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. 2x rotary funnel, launching pad cover, 90° curve, 5x ball, 2x flex-rail 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-rail 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-rail 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



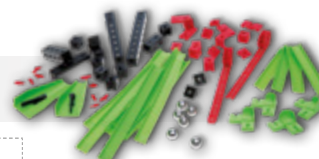
Stop & Go - a short pause, and the marbles already can be released again to zoom through the marble run. With this expansion set, two stop points can be constructed, with the guidance of the building instructions. The stop points can be operated manually, and can be creatively integrated into the pre-built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

- › Incl. 2x cross-over, 4x 90° curve, 2x magnet holder, 8x ball, 4x flex-rail 90, 10x flex-rail 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° curve, 7x high-speed flex-rail, various add-on elements (angular blocks, building bricks etc.)



## DYNAMIC HIGH SPEED

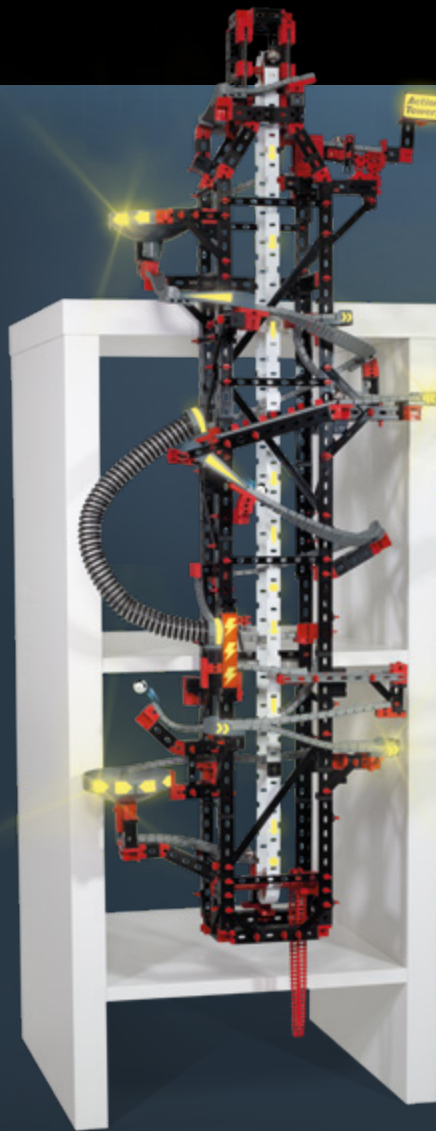
Components	30	Dimension (mm)	225x65x150
Item No.	544622	Vol (m³)	0,0022
EAN	4048962316285	Weight (g)	154



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.



# PROFI



## 96cm



### NEW



- › Incl. flex-tube 360, 5x 90°curve, 4x 180°curve, 10x flex-rail 90, 12x flex-rail 180, 5x ball, cross-over, 2x rotary funnel, vacuum pad, glow-in-the-dark sticker sheet
- › Ideal additions: Dynamic Trampoline, Motor Set XS, LED Set

## HANGING ACTION TOWER

<b>Components</b>	775	<b>Dimension (mm)</b>	390x80x465
<b>Item No.</b>	554460	<b>Vol (m³)</b>	0,0145
<b>EAN</b>	4048962395044	<b>Weight (g)</b>	2238



This marble run sets new benchmarks in all aspects: the Hanging Action Tower is the first hanging marble run in the world! Due to the clever attachment by way of a vacuum pad, the flexible marble run can be affixed at any horizontal edge (shelf, cupboard etc.). The lift in this long marble run is solved by an innovative belt system: our new fischertechnik Easy Elevator! Simple and quick to construct, perfectly suited for large altitude differences, efficient and with an elegant look!

The cool look is complemented by a sticker sheet that glows in the dark! Lightning, arrows and much more can be stuck on. So the marble run in the darkened children's room becomes an absolute highlight! But, that's not all, is it? The drive is manual via a chain or additionally with a motor. The spring-mounted tension pulley on the lift ensures even tension of the belt and trouble-free operation. In addition, there is a marble collector, where the number of marbles can be set at random. A flex hose with rotatable ends ensures the simple and flexible installation into the model. The hanging marble run also holds several other refinements: a funnel catches flying marbles, a ramp provides proper lift - all in all a super entertaining track - and all that in a new, cooler colour, namely silver!





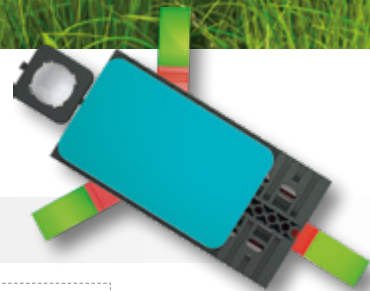
**NEW**



- > Incl. vacuum pad
- > Ideal addition: LED Set

## SMART SUPERZOOM

<b>Components</b>	32	<b>Dimension (mm)</b>	280x65x180
<b>Item No.</b>	554192	<b>Vol (m<sup>3</sup>)</b>	0,0033
<b>EAN</b>	4048962390469	<b>Weight (g)</b>	213



Small things come out big with the Smart SuperZoom!

In the process, it doesn't matter whether it is an autumn maple leaf or mum's business card: due to the high quality lens, everyday items can be enlarged 26-fold and examined and recorded (regardless of the Smartphone) on the screen of the Smartphone due to the magnification of the Smart SuperZoom. This creates unique images, which can be sent and shared with friends immediately. A real discovery set whereby the Smartphone becomes the microscope while out and about! In the process, the device used is irrelevant: Every Smartphone type can be connected with the flexible and adjustable fischertechnik magnifying glass.

The microscope is affixed with the aid of a vacuum pad, which fixates the Smartphone reliably and without any adhesive. It can also be removed entirely and residue-free.







- › Incl. 2x pneumatic cylinder, 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 well-priced 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.



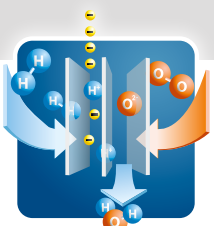
- › Incl. solar motor (2V), 2x solar module (1V; 400 mA), Gold Cap power storage device, LED, ON/OFF switch
- › Ideal addition: Fuel Cell Kit (Item No. 520401)

## ▶ OECO ENERGY

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



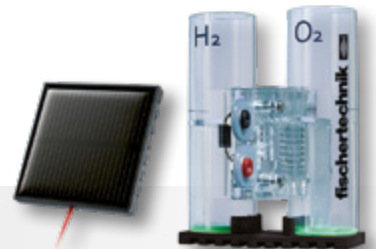
How can ecological electric power be produced? "Renewable energies" will become our most important suppliers of energy in the future. Production, storage and use of electricity from natural energy sources such as water, wind and the sun are graphically illustrated using various models and numerous experiments. These two solar modules not only guarantee more power; the many 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](http://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**

## ▶ 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)**



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

## HYDRAULIC

Components	500	Dimension (mm)	465x80x320
Item No.	548888	Vol (m <sup>3</sup> )	0,0119
EAN	4048962350968	Weight (g)	1565



The PROFi Hydraulic building kit helps kids learn the basic features of hydraulic systems through play. The fischertechnik hydraulic system is operated with water, demonstrating how force can be transmitted via liquid media. The system works on a very simple principle: a control cylinder is operated by hand, pressing the water into the drive cylinder through hoses. This extends the working cylinder, moving the digger arm or the shovel on the powerful crawler excavator. Builders can control a total of three different excavator movements hydraulically. Five different models can be built with the PROFi Hydraulic building kit, meaning this new construction 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. 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 (m <sup>3</sup> )	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. 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](http://fischertechnik-elearning.com)) offers exciting, instructional activity information, animations and videos all about mechanics and statics.



- › Incl. 3x optical lens (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)	1428



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.



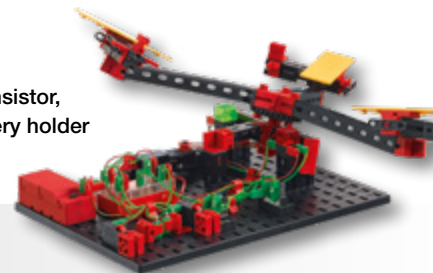
- › Incl. Electronic-module, XS motor, 2x transistor, 2x capacitor, 3x resistor, 2x push button, phototransistor, temperature sensor, LED light barrier, 2x LED, battery holder for 9V block (battery not included)
- › Ideal addition: Accu Set or Power Set

## ELECTRONICS

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

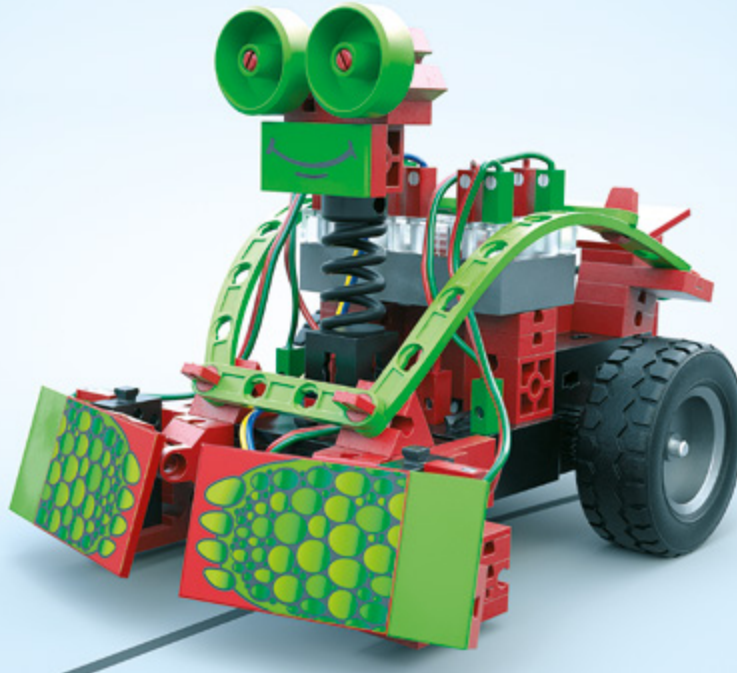


Simple circuits, series and parallel connections, electronic circuits with transistors, capacitors, resistors and LED's. Step for step, this construction set teaches the basic principles of electronics. The Electronic-module, a control with 16 fixed programs, has 2 motor outputs, 3 analog inputs for 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](http://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)

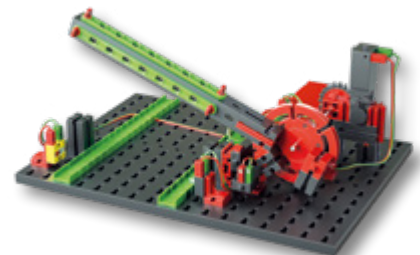
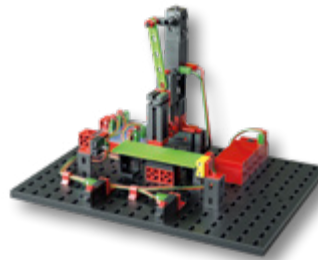


## MINI BOTS

<b>Components</b>	145	<b>Dimension (mm)</b>	320x80x230
<b>Item No.</b>	533876	<b>Vol (m³)</b>	0,0058
<b>EAN</b>	4048962229745	<b>Weight (g)</b>	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](http://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



<b>Components</b>	380	<b>Dimension (mm)</b>	465x80x320
<b>Item No.</b>	540586	<b>Vol (m³)</b>	0,0119
<b>EAN</b>	4048962280050	<b>Weight (g)</b>	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](http://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

<b>Components</b>	310	<b>Dimension (mm)</b>	465x80x320
<b>Item No.</b>	524328	<b>Vol (m³)</b>	0,0119
<b>EAN</b>	4048962196115	<b>Weight (g)</b>	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](http://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**



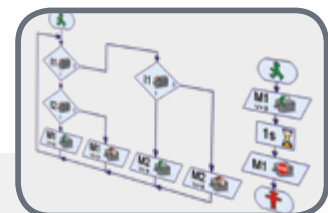
**Additionally required: Accu Set or Power Set**

## TXT CONTROLLER

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



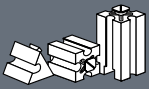
## ROBO PRO SOFTWARE



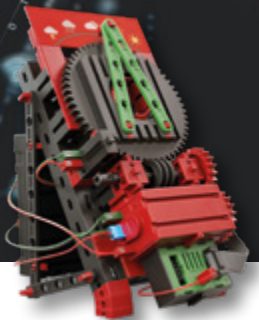
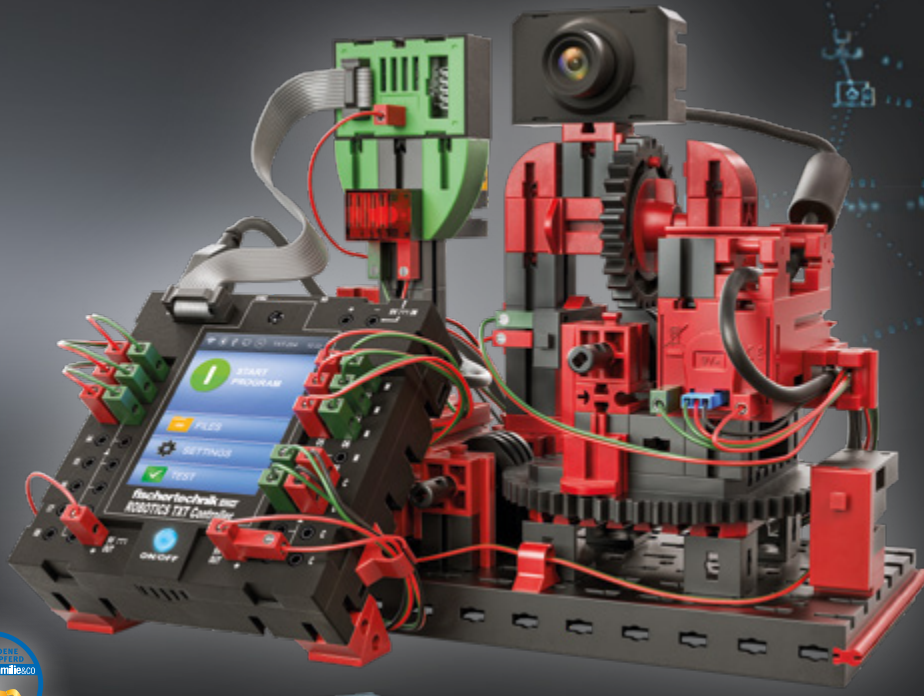
<b>System</b>	Windows® 7, 8, 10	<b>Dimension (mm)</b>	193x16x137	<b>EAN</b>	4006209932964
<b>Item No.</b>	93296	<b>Vol (m³)</b>	0,0004	<b>Weight (g)</b>	85

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 (m <sup>3</sup> )	0,0119
EAN	4048962316308	Weight (g)	1272



Smart Home, the latest trend, that can now be experienced through play, with the fischertechnik product ROBOTICS TXT Smart Home. The stationary sensor station with a moving camera, 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. 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

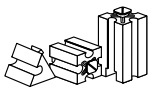
Components	510	Dimension (mm)	465x80x320
Item No.	511933	Vol (m <sup>3</sup> )	0,0119
EAN	4048962111309	Weight (g)	2252



Four reality-based and fully functional industrial robots: High-rack storage, 3-axis robot and 2 other grapples. 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.







630



Sorting Box



**NEW**



## CREATIVE BOX BASIC



<b>Components</b>	630	<b>Dimension (mm)</b>	393x103,5x273
<b>Item No.</b>	554195	<b>Vol (m³)</b>	0,0111
<b>EAN</b>	4048962390490	<b>Weight (g)</b>	2817



If one wanted to give in to one's creativity and fantasy, the fischertechnik Creative Box Basic is just perfect: equipped with numerous basic building blocks, corner blocks and building plates, static elements and other „basics“, this set provides the perfect base to create great and creative things! In the process, it doesn't matter whether an entirely new model is being created or an existing model is expanded according to individual desires. The instructions provide information on the basic functionalities of the enclosed building blocks. A further highlight of the Creative Box Basic is the storage box with 8 compartments, which ensures flexible separation. The numerous building components can be ideally sorted, providing an overview at all times. The large fischertechnik base plate upon which the own model can be built serves as the lid.

**NEW**



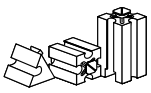
## CREATIVE BOX MECHANICS



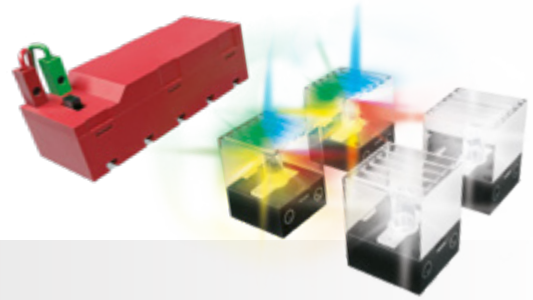
<b>Components</b>	290	<b>Dimension (mm)</b>	269x79x193
<b>Item No.</b>	554196	<b>Vol (m³)</b>	0,0041
<b>EAN</b>	4048962390506	<b>Weight (g)</b>	1041



The Creative Box Mechanics is ideally suited for tinkers and inventors! Technically interested children appreciate the Creative Box Mechanics: Full of gear wheels, pinions, axes, worms and other drive components, the Creative Box Mechanics is ideally suited to bring movement into almost any mechanism. Due to the opulent selection and number of components, the creativity and the implementation of plans are limitless. It permits the construction of a worm drive, winches with pulleys, chain transmissions and much more. The set is supplied with two stackable plastic tubs with flexible separators. The base building plate upon which the individual models can be constructed, serves as the lid.



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



## LED SET

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

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

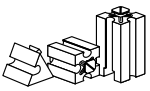


## BOX 1000



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

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



## ACCU SET

<b>Components</b>	Charger + battery pack in one	<b>Dimension (mm)</b>	225x65x150	<b>EAN</b>	4006209349694
<b>Item No.</b>	34969	<b>Vol (m³)</b>	0,0022	<b>Weight (g)</b>	488

A 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, 8.4 V, 1800 mAh.



- › 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

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

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



## MOTOR SET XS

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



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



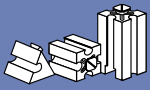
## MOTOR SET XM

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



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

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



# SALES PROMOTION



»PROFI« poster, DIN A1  
Item No. 39125



»ROBOTICS« poster, DIN A1  
Item No. 39126



Dekorative cube,  
25x25x25 cm  
Item No. 142202



Consumer brochure  
Item No. 44465



Brochure stand  
(on request)



Flag, 200x80 cm  
Item No. 500887



Beach Flag, 215 cm  
Item No. 522425



Stand Dynamic  
Item No. 544938



Stand Funny Machines/Junior  
Item No. 553683



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



## ▶ DECORATIVE MODELS



Decorative model Solar  
(on request)



Decorative model Universal Starter  
(on request)



Decorative model Dynamic XS+S – (on request)



Decorative model Pneumatic Power – (on request)



Decorative model Robotics – (on request)



Decorative model Ferris Wheel – (on request)



Decorative model Dynamic  
(on request)



Building Blocks For Life

fischertechnik education

SCHOOL + TEACHING



- 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".



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 logo

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fischer innovative solutions

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.



# fischerTIP

creativ



2020

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

1,0l



### 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

2,5l

### 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

Dimensions / Dimensioni

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

Weight / Peso

240 g

Volume

5,0l



### 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

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

Weight / Peso

450 g

Volume

10,0l



### 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

6,0l



### fischer TiP Alpaca

Art. No.: 548968

EAN: 4048962353532

Take the 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

256 g

Volume

6,0l







### 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

105g

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

394g

Volume

11,8l





**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

Dimensions / Dimensioni

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

Weight / Peso

1.300g

Volume

63,6l



**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

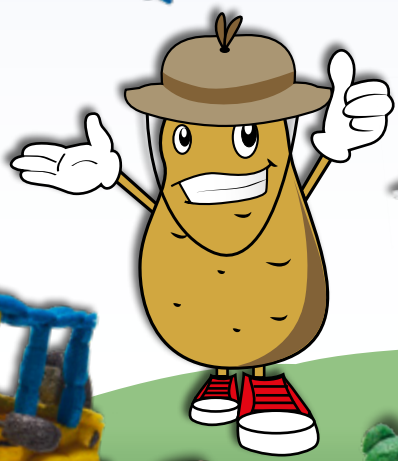
1.200g

Volume

63,6l



**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



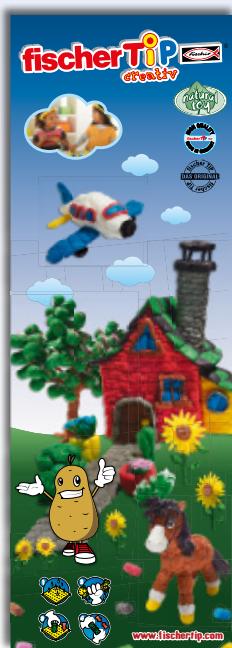
**TiP Brochures**  
**TiP-dépliant**  
 Art. No.: 40992



**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.: 554887 / EAN: 4048962396003



# 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"

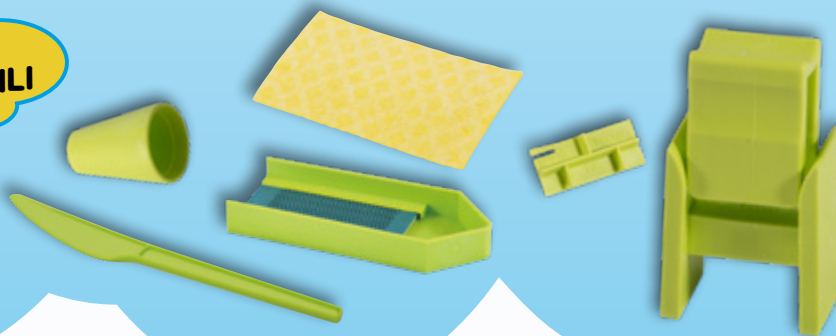
## Il particolare:

fischer TiP consiste in fecola di patate e contiene coloranti alimentari. I vantaggi della fecola di patate sono evidenti:

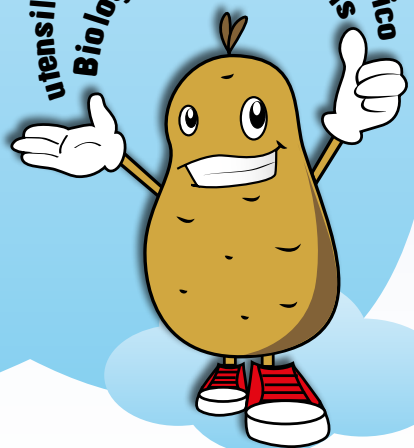
- incolla senza colla, basta solo l'acqua - quindi è sicura e non problematica
- eccellente potere aderente
- colori brillanti e molto luminosi
- materia prima rinnovabile e quindi ecologica e sostenibile
- biodegradabile al 100%!
- inodore
- qualità "Made in Germany"



+6 TOOLS  
+6 UTENSILI



utensili in materiale sintetico biologico  
Biological plastic tools



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