

FAN CLUB NEWS

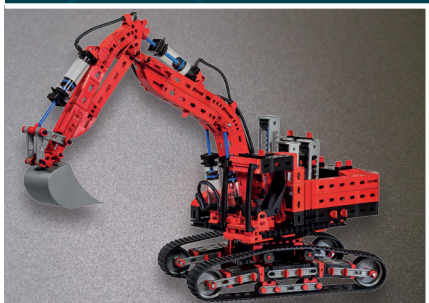
fischertechnik 

ISSUE 01/19



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fischertechnik exhibitions with great fan-models



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Discover and understand hydraulics



PAGE 5: NEW

fischertechnik for ages 3 and up



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FAN CLUB Model: Truck with container trailer and gantry crane

A good start in 2019

New products are very well received with the speciality retailers

A special highlight at the beginning of the year 2019 was once again the 5 day toy fair in Nuremberg - the largest fair of the toy industry! At the fair we were among the approximately 2900 exhibitors and presented the speciality retailers from all over the world our new products and kept you posted daily on social media. At the show of new products, we had the diligent support from our young stars Karl-Luis, Paul-Leon and Emma-Sue, who superbly presented our new products. The three siblings came from Waldachtal especially for the fair and had all sorts of fun at the new products' presentation. Our fair stand was also always well visited and our speciality retail customers were enthusiastic. The new products were very well received by all and we hope that they excite you as well. We will present you everything in detail in the further course of the Fan Club News. Read on and get excited!



The big FAN CLUB Day

Your model is wanted

We are on a model hunt. Present your creative fischertechnik masterpiece to the other fans that will come to us on 13th July to Waldachtal at the big fischertechnik FAN CLUB day 2019.

The great fan show is the absolute highlight of the day! What's more, in addition to the impressive exhibition, a great accompanying programme with our new products presentation, the fischertechnik special sale and various hands-on activities such as assembling building sets and much more awaits you on the FAN CLUB day.

Just like last year, the fischertechnik FAN CLUB day shall take place together with the open house for apprentices of the fischer group. A special feature: Apart from the general information about the company, guided tours through the factory and various competitions, you will also get insights in the training system of fischer with its 26 job profiles.

If we have aroused your interest and you would like to exhibit your model, then simply

submit to us the completed registration form till the end of May because unfortunately we can take only limited number of participants. You can find more information on the registration and the course for the FAN CLUB day in the enclosed flyer, on our homepage or on our Facebook page. If there are still unanswered questions, you can of course get in touch with us:

E-Mail: Fanclubtag@fischertechnik.de / Phone no.: +49 7443/12 4369.

We look forward to a fantastic fischertechnik FAN CLUB day with you!



HELLO DEAR FANS,

So, are you already excited about which new themes and building sets are awaiting you this year? Then read through this issue of the fischertechnik FAN CLUB NEWS and learn more about our new products on the pages 3-5. This year also, we are hosting a day just for you, Fans. You can find detailed information on the FAN CLUB day 2019 in the text above or on the enclosed flyer. I hope to be able to greet you on 13th July in Waldachtal with the models you've

made yourself. If you would like to learn more about past events such as our trade fair presentation or the fischertechnik exhibition in Münster, then simply take a look at page 2. A fantastic Fan Club Model has also been created for you once again. You can find the building instructions for it on pages 7 and 8. I wish you loads of fun reading the new FAN CLUB News issue.

Yours

Diava



CURRENT

2

Digital factory with cloud connectivity Industry 4.0 with fischertechnik

YOU CAN REACH US:

Mondays to Fridays
from 8.30-12.00 am and 1.00-5.00 pm
Phone +49 (0) 7443 12-4369
Fax +49 (0) 7443 12-4591

fischertechnik GmbH
Klaus-Fischer-Straße 1
D-72178 Waldachtal

www.fischertechnik.de
info@fischertechnik.de

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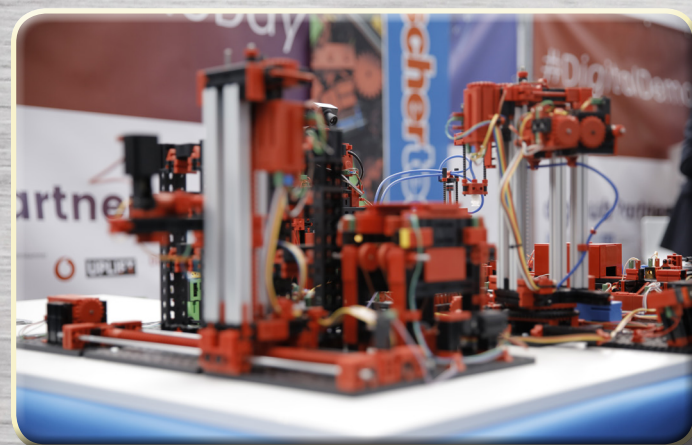
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You surely already know the fischertechnik factory simulation that is used in business sector companies or in universities to simulate industrial processes. It includes various work steps of a real production line: Workpieces are rolled out from a high-bay warehouse, processed in a processing station, then sorted by colour in a sorting facility and then once again stored in the high-bay warehouse. Companies that for example, sell a software product can be presented to their customers with our miniature production line of your production programme in an understandable and striking manner. This is because, when our factory simulation goes into motion, it is clear how the software behind it functions.

This exact factory simulation has now been expanded and indeed such that a complete, digital factory in terms of Industry 4.0 can be simulated. Our modern simulation systems now include cloud connectivity, a storage/retrieval station, an environment sensor, a camera and an NFC reader (NFC means Near Field Communication, which is an international transmission standard for contactless exchange of data). Our fischertechnik Training Factory 4.0 is simply and absolutely fantastic. We could fill up the entire fan magazine to tell you what all the Training Factory 4.0 can do. Here is a peek:

As already mentioned, the Factory 4.0 is connected to a fischertechnik Cloud. There are three views in this cloud. Customer's view, production view and supplier's view. In this way, for example, orders can be initiated by customers, production can be controlled or raw materials can be reordered in the cloud as in the proper daily business. Now, the logistics are also newly integrated in the factory by the storage/retrieval station. The raw material is delivered at this station and at the end of the process, the finished workpieces are shipped. When the workpieces/raw materials are delivered, they can be equipped with an NFC chip. Thus, each piece gets a code, a so called ID, as soon as it is placed on the NFC reader. While the raw materials go through the production process, you can constantly keep track of the processing step of the workpiece, the colour it has and much more, in the cloud.

In addition, the entire simulation system can also be monitored in the cloud and the environmental data of the system can be constantly recorded. The environment sensor furnishes information about temperature, humidity, air pressure and air quality in the production area. Thanks to the camera, there is an option to see the system in the cloud and the camera to have the camera pan over the entire system.



fischertechnik exhibition in Münster

A record number of visitors and exhibitors

A special highlight at the beginning of the year was the big fischertechnik model show, which took place for the third time on 20th January in Münster-Hiltrup in the Kardinal von Galen High School. A total of 19 exhibitors (never before were there so many) with their awesome fischertechnik models attracted around 500 visitors in the assembly hall of the high school. Even this year the models of carnival attractions and robotics in general were especially popular. But the absolute high point of the exhibition was the live presentation of the ROBOTICS TXT Smart Home building kit. It demonstrated how the camera of the fischertechnik models can be remotely controlled and measurement data can be retrieved. Thus, you could catch a glimpse in the Black Forest after Waldachtal-Salzstetten from Hiltrup. A look in the fischertechnik Cloud reveals for example, how much was the temperature or the humidity in the room at the headquarters of fischertechnik. The exhibition was enhanced by other hands-on activities (e.g. soldering for the young and old) for all age groups. The school itself also presented the results of the projects as a part of the "Junior Engineer Academy" of class eight. All in all, the exhibition was a raving success and should be repeated in January 2020.

An exact date is not yet fixed. But we shall keep you informed under www.fischertechnik.de in the course of the year as soon as the date is fixed.



DATES 2019

Trade fairs:

OFFA	St. Gallen	10.04. – 14.04.2019
INFA	Hannover	12.10. – 20.10.2019
Science Days	Europapark	17.10. – 19.10.2019
Model Building Fair	Vienna	24.10. – 27.10.2019
Consumenta	Nuremberg	26.10. – 03.11.2019
Faszination Modellbau	Friedrichshafen	01.11. – 03.11.2019
South Germany's Spielemesse (Games fair)	Stuttgart	21.11. – 24.11.2019

Events:

RoboCup German Open	Magdeburg	03.05. – 05.05.2019
Schul-Robotik-Cup	Karlsruhe	18.05.2019
fischertechnik primary school day	Karlsruhe	30.05.2019

FAN CLUB Day

Waldachtal 13.07.2019

By fans, for fans:

Nord Convention	Wedemark / Hannover	27.04.2019
South Convention	Dreieich / Frankfurt	21.09.2019

Special sales:

Stock sale	Wolfäcker 1, 72178 Salzstetten	30.11.2019
	09.00 – 12.00 am	

Museum festival Sinsheim

It was all about fischertechnik

The museum festival in Sinsheim Adventure Museum of Conveyor Systems on 21st October was entirely dedicated to fischertechnik.

The visitors marvelled at the large working models and the creative fan exhibition and enthusiastically participated in the races of BT Racing with fischertechnik racing cars.

Since a year and a half, the adventure museum of conveyor systems has been running the Children's Innovator Circle. As a part of this, the museum organises an open fischertechnik workshop every Sunday. It registered so many visitors that the organisers dedicated the annual museum festival to fischertechnik. At the end of October, the visitors were therefore invited to try their hands at our design blocks to their hearts content and to get to know fischertechnik. The workshops and campaigns were supplemented by various presentations. Don't you also find it great?



NEW

3

TiP Alpaca

Friendly and cuddly

Alpacas are full-on in trend

With the new fischerTiP alpaca bucket, you will not only feel transported in the steppes of South America, but you will also be full-on trendy. Your creativity in designing and creating these cute animals will know no bounds because the alpacas from fischerTiP are in the widest range of colours, shapes and sizes. The 12 varicoloured fischerTiPs offer you a large colour palette for selection to design colourful creations. The included implements such as a sponge cloth and a cutting tool assist you in shaping and modelling and are little helpers, so that your alpacas become as beautiful as can be. If your fantasy needs just another tiny nudge, you can pick up the easily understandable craft instructions. In this way, you can most definitely succeed in making your colourful alpacas and it's so much fun.



fischerTiP Alpaca

- ages 3 and up
- colourful TiPs
- with sponge cloth, cutting tool, crafting instructions
- Price: 9.95 Euro
- already available



A tiny nudge leads to a great effect

Funny chain reactions with Funny Machines

Do you know the long domino lines that fall over as soon as you nudge the first domino tile? This is called chain reaction. There are countless of there on social media, some of them a kilometre long. We have developed a special eventful variant for you. A small vehicle is enough to crank up the funny, colourful chain of events.

The vehicle encounters a chicane that rotates a wheel. Due to this, a weight falls down that sets a ball in motion, which at the end of its path in turn, sets a steel ball rolling in a track of jumping course. And now it really starts off: The fischertechnik Gauß canon brings even more speed and action, which is again accelerated by the ball and makes it hurtle through

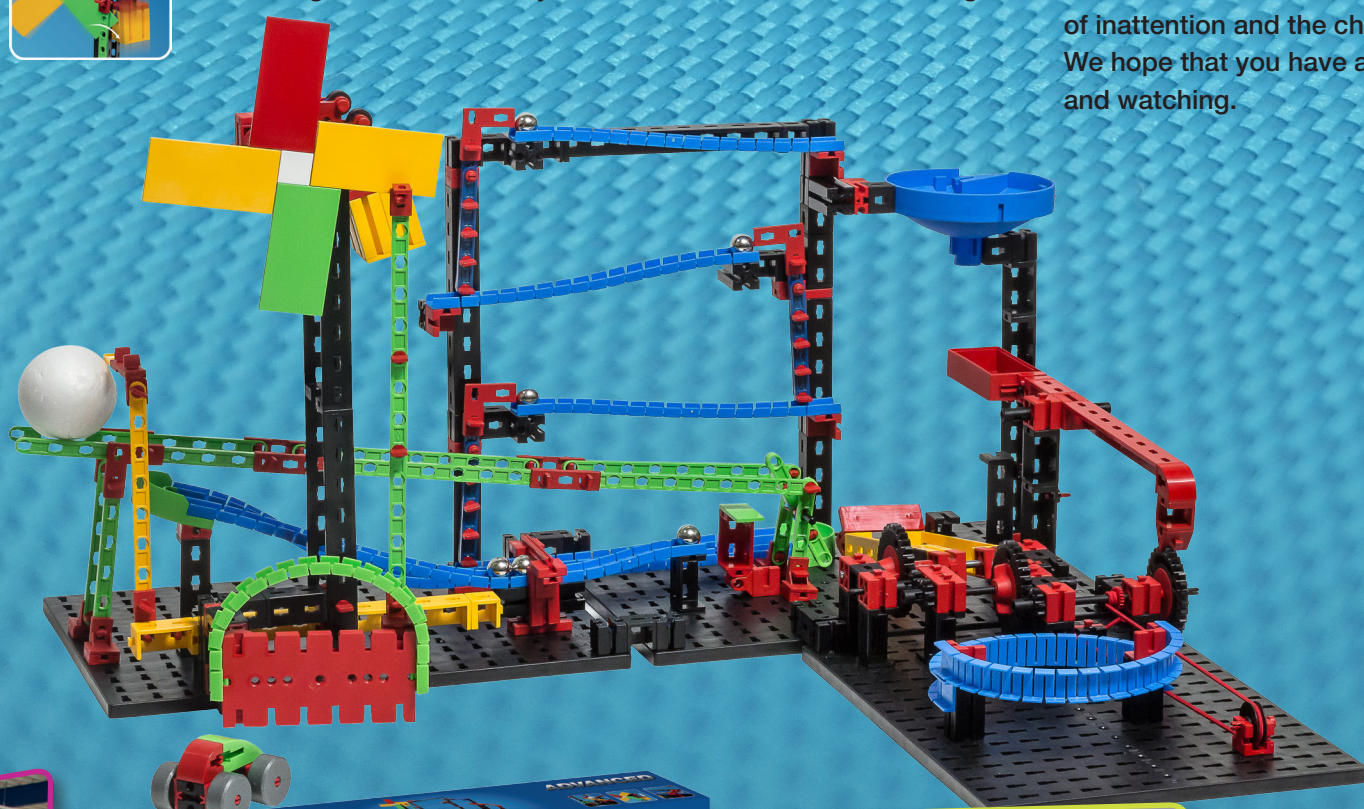


a jumping course that has several storeys. In the end, a ball falls through a funnel and triggers a catapult, which finally slings the ball in the target.

You can build three different chain reaction models with the Funny Machines building set. Indeed you can create

your own crazy models as usual from the total of approximately 360 components and even supplement them with components that are not from fischertechnik. The jumping course will be brought to life and get that certain something only through your fantasy and creativity.

Of course, beware while resetting your colourful jumping course – just a moment of inattention and the chain reaction will already begin from the start... We hope that you have a lot of fun while building and watching.



ADVANCED Funny Machines

- ages 7 and up
- 3 Models
- 360 components
- Price: 69.95 Euro
- with Gauß canon
- Ideal additions: LED Set, Creative Box 1000, all products of the Dynamic-Line
- available from June

You
Tube

Flash of brilliance: What is a Gauß canon?

The Gauß canon got its name from the mathematician and physicist Carl Friedrich Gauß. His work dealt with magnetism. You are now probably wondering how is it possible that the magnetic ball is shot away this way? Very simple:

A magnet is fitted in the Gauß canon and there are always two balls on each of the sides of the magnet. If a ball rolls up from the other side, it will be accelerated more and more by the kinetic energy the closer it rolls towards the magnets. When there is a collision, the kinetic energy is transferred to the right metal ball and so this ball then streaks ahead. The right ball however does not need as much energy as the approaching ball to detach itself from the magnet at the centre.

It lies further away from the magnet because there is yet another ball in between. This energy difference leads to the right ball rolling away much faster than the approaching ball and hence the right ball is shot away.

Brilliant – isn't it? And all this by magnetism!



NEW

4

ADVANCED Universal 4

The new beginner building set

With the Universal 4, we have revised one of the most popular building sets of fischertechnik for you. We think our developer Jochen Kaupp has managed to do it very well. The Universal 4 particularly includes a new colour concept, new components and new model ideas.

The new building set in the ADVANCED line (ages 7 and up) offers you a large number of model variants because 40 models can be made from about 500 components. Vehicles with steering, bulldozers with crawler tracks, mechanical Structures and much more are all combined in one building set and offer you a lot of enjoyment while building and playing at a price of 69.95 €.

The awesome part is also that some models can be made at the same time. So, you can create various themes and worlds of games for yourself – for example, a transport helicopter with broadcasting tower, a construction site or a playground... If however that should still not be enough for you, there are many options to expand for your models thanks to our PLUS sets.

ADVANCED Universal 4

- ages 7 and up
- 40 Models
- 500 components
- Ideal additions:
Motor Set XS,
Motor Set XM,
LED Set, Power Set
- Price: 69.95 Euro
- already available



Motorise it, for example, with the Motor Set XS. The explanation for installation of the motor is already described in the building instructions, by the way. And, there is even one more great option to jazz up: Light effects with LEDs and rainbow LEDs! Thus your models will be more vivid. Grand, right?



Hydraulic crawler excavator

Power generation with water

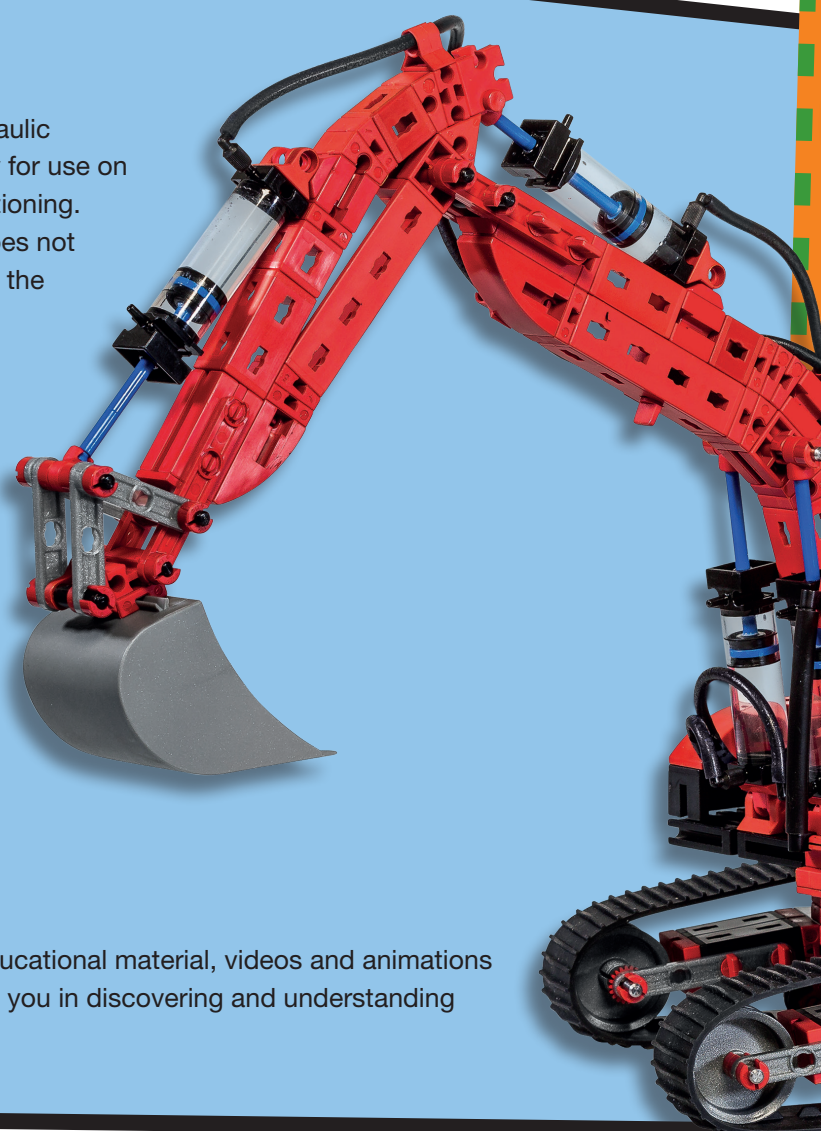
An excavator is impressive not only in the original size: Now there is the new fischertechnik model with its hydraulic functioning that is at least equally spectacular. That is because once assembled, the crawler excavator is ready for use on your construction site and resembles the original not only in its appearance and movement, but also in its functioning. The only difference to the powerful original is the method of working with water instead of oil, which anyway does not matter for your enjoyment in building and playing. You must simply actuate the control cylinder by hand so that the water is pressed in the working cylinder through the hoses. This cylinder then extends and thus you can hydraulically control the excavator or the shovel.



With this new building set, fischertechnik once again fulfils its principle "Understanding technology through games" to a T, because the principle of power transmission with fluids (oil, water etc.) is conveyed to you in a playful and simple form. You will then often rediscover this very principle in daily life, e.g. lifting platforms, scrapping crushers or even in the opening and closing of the Tower Bridge in London. The advantages of hydraulic power transmission (and in turn, in your model) are for example:

- generation of great forces
- high positioning accuracy
- steady movements due to the low compressibility of the hydraulic fluid
- continuously variable states of speed / simple reversal of direction of movement

Would you like to learn more about this or do you have other questions on hydraulics? Then, accompanying educational material, videos and animations are available for you on our eLearning portal (www.fischertechnik-elearning.com), which shall optimally support you in discovering and understanding through games. So, get out the 475 components and gain great effects with low effort.



NEW

5

Simply fischertechnik

New JUNIOR sets for children of 3 years and above

Do you have a little sibling or do you know little children who already want to play with your fischertechnik things, but are still too young for it? For just this reason, we are launching two building sets in the market in June, with which children of three years and above can make their first models. The Junior Easy Starter building sets are an absolute novelty in the fischertechnik assortment. The big new building blocks can be connected to each other in a few steps by simply turning in. Through these simple building steps, now even the little ones among us can immerse in the world of fischertechnik and build up the initial basic technical understanding. The enjoyment in playing with the models is the priority in both the building sets Easy Starter S and Easy Starter L.



JUNIOR Easy Starter S

The JUNIOR Easy Starter S contains the yellow tractor. You can fit the green transport trough to this tractor by turning it in and in the twinkling of an eye you have a great construction site vehicle. The tilting fischertechnik adapter plate is another attachment that can be fitted instead of the transport trough. It is an absolute all-rounder, with which creative model ideas beg to be implemented. The building set includes building instructions that describe the steps in a very simple way. If you already have fischertechnik sets at home: even better! Those components can be perfectly combined with the JUNIOR Easy Starter Sets. Thus emerge various attachments for the adapter plate and hence, unique vehicles. That is exactly the cool thing in fischertechnik: It can all be combined with each other.

JUNIOR Easy Starter L

If you decide to get the bigger JUNIOR Easy Starter Set, you have even more possibilities to play with, for example:

- **Trailer:** This can be attached to the tractor or built on it.
- **Tipping trough:** The green tipping trough of the lorry can be filled with material, which can be dumped in another place.
- **Tank:** You can make a milk tanker, oil tanker, water tanker and much more using the tank.
- **Adapter plates and fischertechnik blocks:** A tow truck as well as a crane truck can be built up on the tilting adapter plate with the help of the building instructions.

To all the young fans and those who want it: Our JUNIOR Easy Starter Sets are our absolutely hot tip for stepping into the world of fischertechnik.

JUNIOR Easy Starter S

- for 3 years and above
- 2 Models
- 30 components
- Price: 27.95 Euro
- available from June



JUNIOR Easy Starter L

- for 3 years and above
- 5 Models
- 55 components
- Price: 44.95 Euro
- available from June



PROFI Hydraulics

- ages 9 and up
- 5 Models
- 475 components
- Price: 99.95 Euro
- with 4 control cylinders, 4 working cylinders, Crawler tracks
- available from May



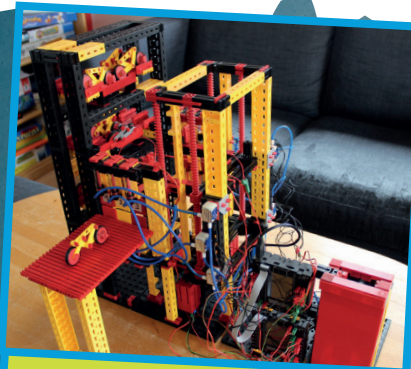
FUN

6

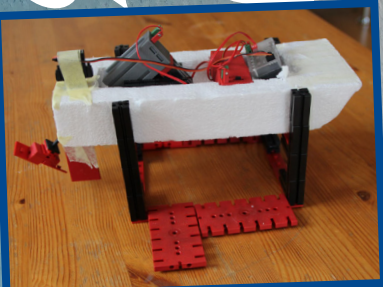
GALLERY, GALLERY, GALLERY



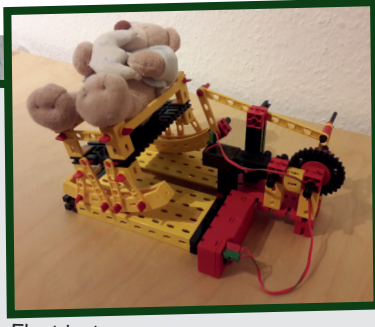
YOUR photo could be here!



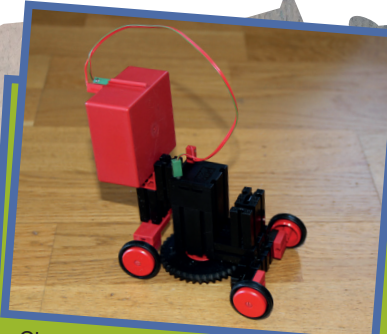
Cycle parking,
Daniel (10 years)



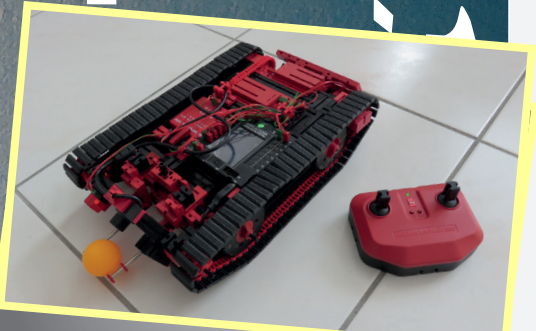
Boat, Kilian (8 years)



Electrical cuddly toy cradle
Leonard (10 years)



Cleaning robot,
Raphael (6 years)

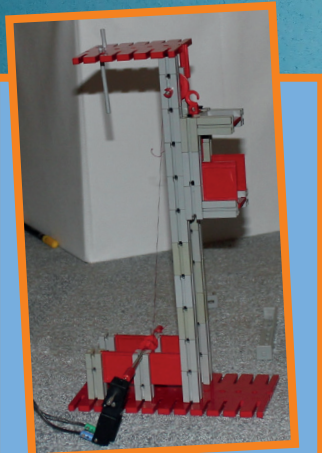


Under-the-sofa search machine, Kai (10 years)

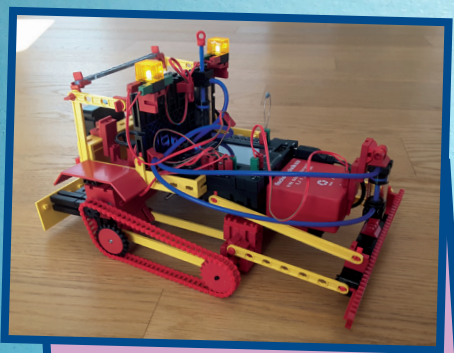


Marble run design, Florian

Thank you so much for the interesting and funny models, which you sent us.
Are you creative and hardworking and often build your own models? Are you able to creatively design various models without building instructions? Plus do you always have downright cool model ideas? It would be a real shame if no one apart from you and your family saw them. Just send us a picture of the model you made yourself to info@fischertechnik.de.
We always show the most beautiful models here in the Fan Club News. We look forward to pictures of awesome models.



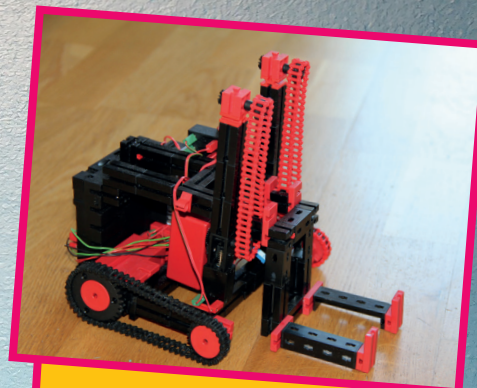
Elevator, Martin (6 years)



Pistenbully, Tim (10 years)



Rotating street,
Anton (5 years)



Forklift, Thibault (10 years)



LED theatre,
Jonas (6 years)

CONGRATULATIONS!

Marek from Ochsenhausen found all 5 mistakes in the picture on the right in the 02/2018 issue. He has won the fischertechnik book "fischertechnik models for makers" with his correct answer. Jessica from Bielefeld brought order to the chaos of pictures and in doing so found out the solution word "Action". Hence she has won a PROFI Dynamic XM. Heartiest congratulations to all the winners!

The winners are informed in writing.
The organisers' decision is final.

Right answer wanted

Circle the corresponding letter if the statement is true. A solution word will emerge when you find all the right statements, which will lead you to your prize. Please send us your solution up to 30 April 2019 by email with the subject **"Right answer"** to the email address gewinnspiel@fischertechnik.de
There is an ADVANCED Universal 4 building set to be won. All the best!



- (C) Alpacas live at the sea
- (H) Alpacas live at the North Pole
- (U) Alpacas live in the steppes and high mountains



- (N) A building set for designers of ages 3 years and up
- (A) This building set has been in the fischertechnik product range for many years now
- (I) The building set consists of small individual parts



- (R) The Dynamic XXL marble run is approx. 1 m high
- (O) The Dynamic XXL marble run is approx. 20 cm high
- (H) The Dynamic XXL marble run is approx. 10 cm high



- (S) 40 buildable models
- (J) 1 buildable model
- (E) 400 buildable models



- (I) The TXT Smart Home has a camera, which can be controlled even remotely via wireless LAN
- (M) The TXT Smart Home does not have a camera
- (D) The TXT Smart Home has a camera, but it cannot be controlled



- (J) This Mini robot must be pushed
- (U) This Mini robot can go straight ahead
- (A) This Mini robot can e.g. follow lines and go around obstacles



- (B) The excavator operates with compressed air
- (L) The excavator operates on electricity
- (V) The excavator operates with water



- (B) The vehicle must be manually steered
- (L) The vehicle is steered with the help of Bluetooth using a Smartphone or tablet
- (K) The vehicle moves with a pullback motor



- (C) Wow, a crazy waterslide park
- (E) An adventurous chain reaction model
- (A) A colourful annual fair is shown here



- (3) Discover energy production from lignite
- (4) Discover energy production from natural energy sources water, wind, sun
- (5) Energy production from crude oil

Chaos of Pictures

Which front part belongs to which rear part?

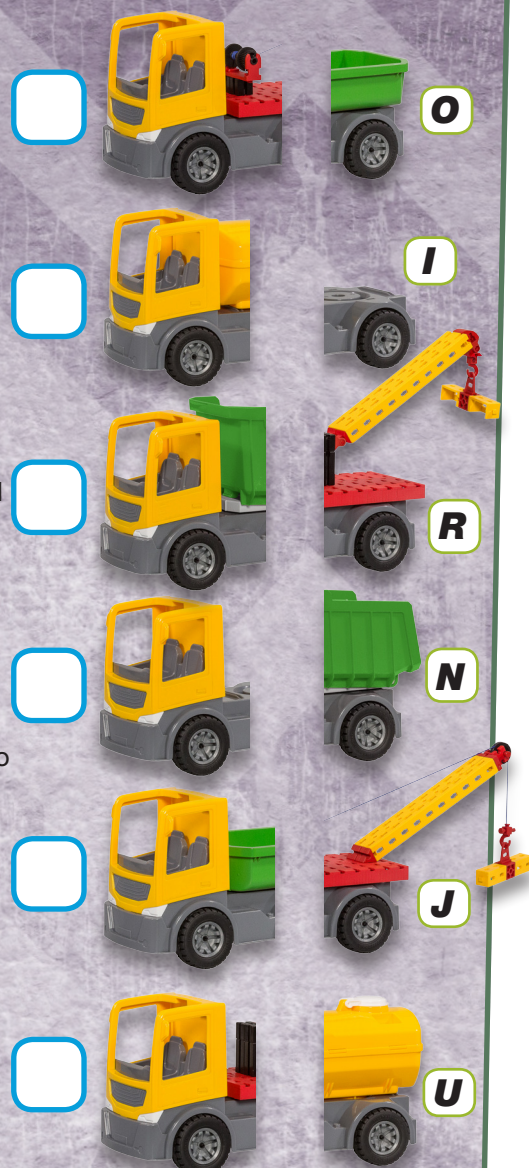
Some trucks have got really mixed up over here.

Can you find the correct match?

Write the respective letter of the rear part in the free field of the front part and you will get the solution word.

Send it with the subject **"Chaos of Pictures"** up to 30 April 2019 to gewinnspiel@fischertechnik.de – we look forward to hearing from you.

There is the new building set JUNIOR Easy Starter L to be won.
Best of luck!



BUILDING INSTRUCTIONS

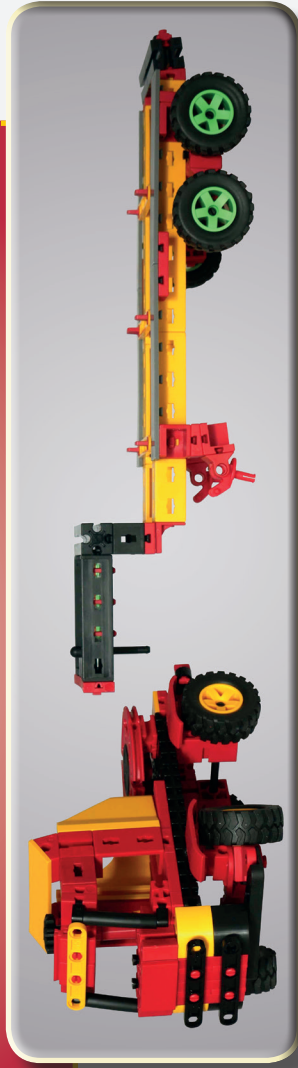
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Collectibles

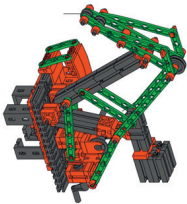
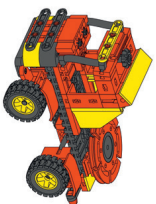
FAN CLUB Model

Truck with container trailer and gantry crane

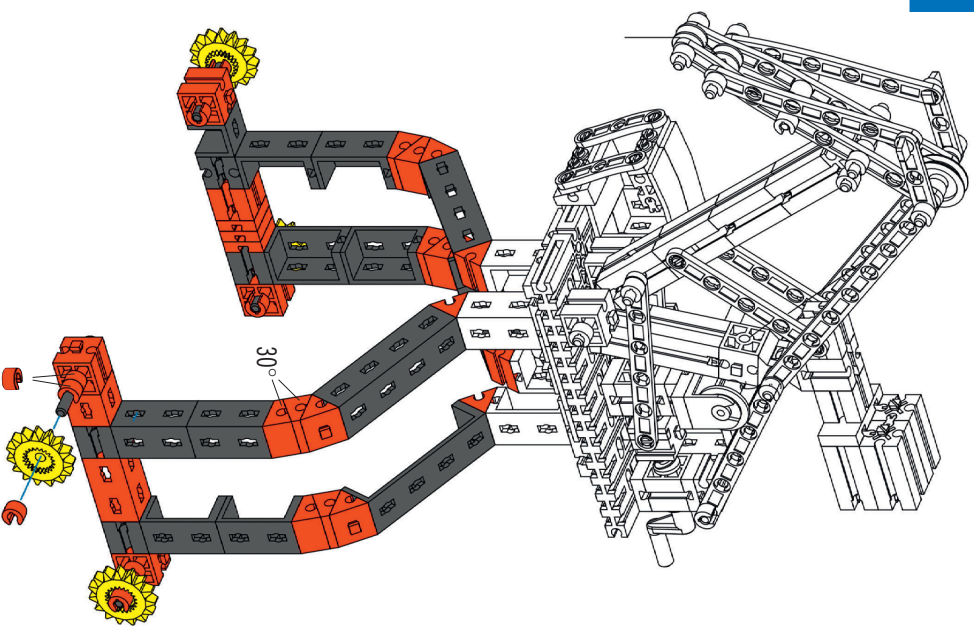
Combine the new ADVANCED Universal 4 building set with the ADVANCED Universal Starter and you can recreate the new Fan Club Model for yourself. The truck with its long semi-trailer can position itself directly behind the mobile and rotating gantry crane. You can unload the container from the semi-trailer with it. If you want to uncouple the trailer from the tractor, that also isn't a problem at all. Simply extend the struts of the semi-trailer, uncouple the semi-trailer and your truck can already move ahead without a semi-trailer. A really successful model that will surely be a lot of fun for you to not only build but also play. Have fun reconstructing the model



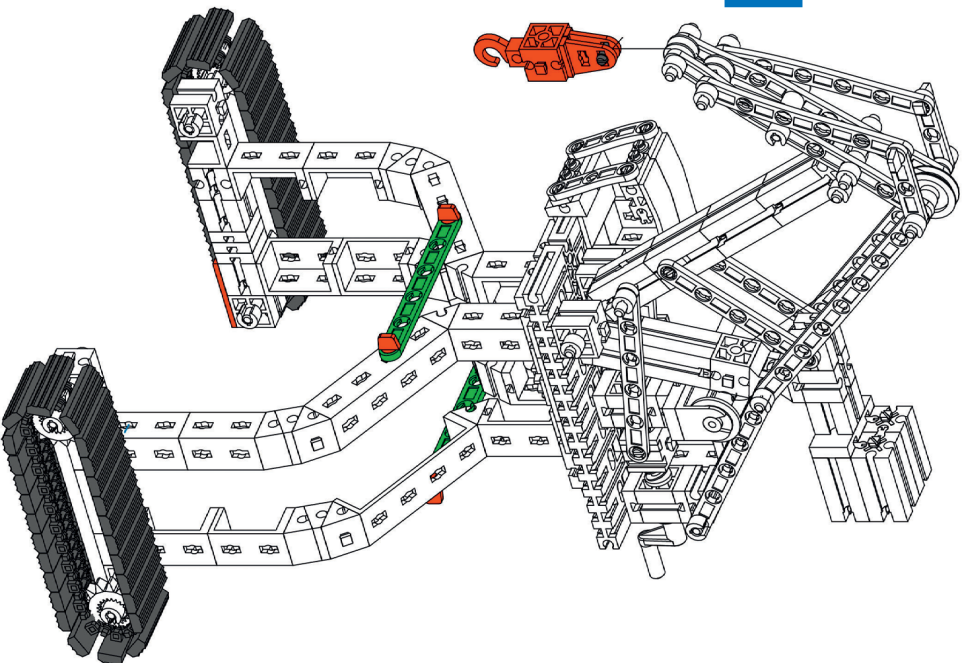
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	35 064		36 819		38 414		146 533
	35 065		36 912		38 415		156 106
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	35 070		36 920		38 423		159 781
	35 073		36 921		38 428		159 782
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	35 945		37 468		68 535		172 542
	35 973		37 679		116 251		172 543
	35 975		38 225		116 252		172 545
	35 977		38 240		127 471		172 546
	35 998		38 241		127 472		172 547
	36 294		38 242		128 659		172 548



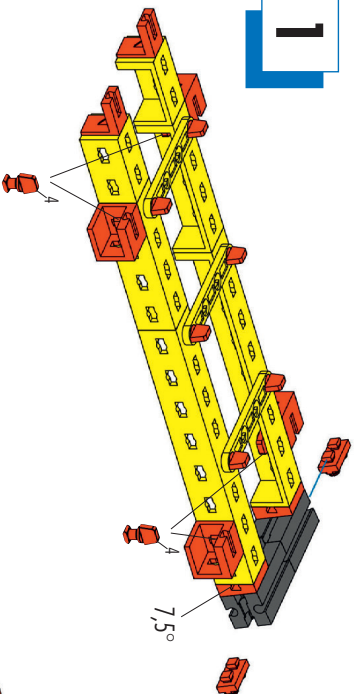
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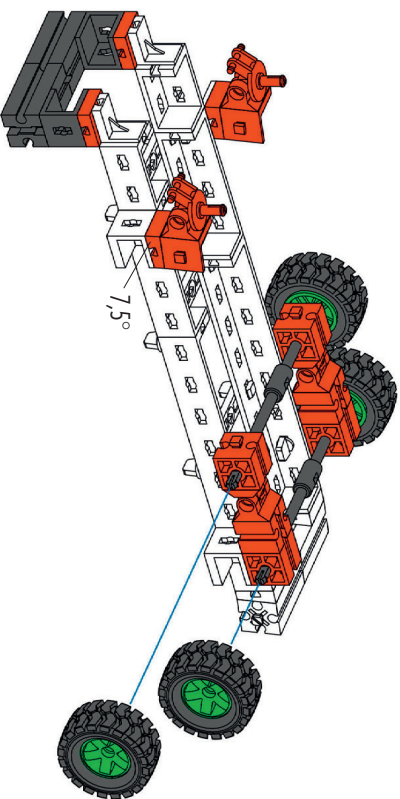
21



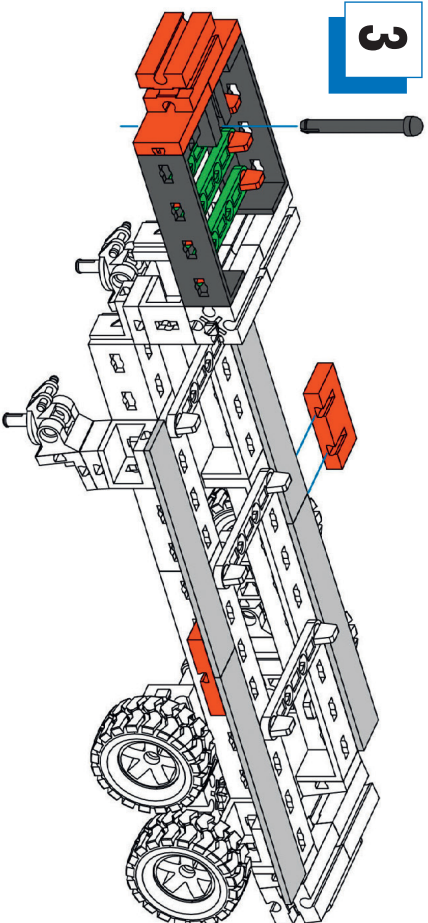
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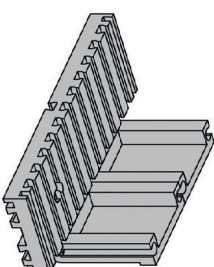
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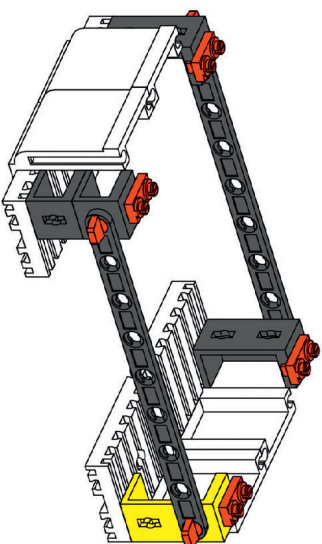


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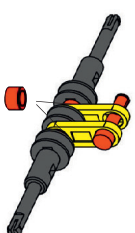


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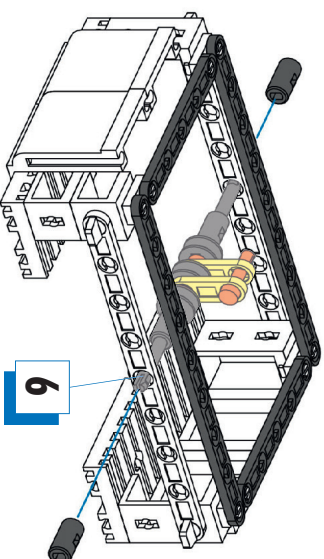
5



6



7



Einzelteilübersicht
Spare parts list

	31 010	8 x		31 011	10 x		31 019	1 x		31 021	1 x		31 058	2 x		31 060	2 x
	31 061	6 x		31 426	3 x		31 436	7 x		31 597	2 x		31 690	1 x		31 790	52 x
	31 843	2 x		31 848	14 x		31 981	5 x		31 982	20 x		31 983	2 x		32 064	17 x
	32 071	6 x		32 228	2 x		32 316	1 x		32 870	2 x		32 879	12 x		32 880	1 x