

OVERALL PROJECT AND NOVELTIES 2011

2004 – Start of the adventure!

As a first step to completing and upgrading the SIKU**FARMER** Range in the SIKU**CONTROL32** concept, two remote-controlled tractor models were developed and launched very successfully on the market in the year 2004. The tractor models are original SIKU models and in the remote-controlled version, they differ only slightly from the basic model. The transmission technology is infrared. The system is controlled by means of a universal digital proportional remote control module which directs steering, forward driving and reversing, operates other functions on the tractor and controls additional devices.

2005 – High-Tech as trailers

These products, which are in themselves highly innovative, were rounded off in the year 2005 by two remote-controlled trailers in the same scale, which in turn set standards both in terms of technology and play value. Both trailers have electronically controlled tipping functions. The John Deere Tractor of the SIKU**CONTROL32** family has won the award from German toy retailers as one of the 10 best toys in Germany.

2006 – The Sound you won't forget

In 2006 the SIKU**CONTROL32** toy system has been supplemented by further world novelties. These include a lateral swather, the swathing rotors of which can be electronically lifted and lowered. The individual operations on the field are simulated in correct scale in miniaturised form.

The second SIKU**CONTROL32** world novelty is the Lanz Eil-Bulldog, which in the 1:32 scale sets both electronic and mechanical standards. The speed dependent sound true to the original sound, is a further top engineering achievement for the play intensive, true to detail models in 1:32 scale. Also this model has won the award by the German toy retailers in 2006 as one of the Top 10 best toys in Germany.

2007 – High-end radio technology in scale

The year 2007 for the SIKU**CONTROL32** line has been much influenced by the development of a new radio-controlled generation of models. A world premiere was launched end of 2007: the first radio-controlled 1:32 scale SIKU-Truck on the market. This new MAN truck with semi-trailer has reached a level of technology never before attained in the company history of the SIKU brand. The abundance of electronic functions entices both children and adults through play into the fascinating world of trucks and truckers.

The agricultural SIKU**CONTROL32** line with the Claas Axion 850 experienced an enormous growth in 2007. Equipped with the proven, infrared controlled SIKU system electronics, this Claas has become automatically a member of the existing SIKU**CONTROL32** tractor family.



2008 – Crawler technology at highest level

The successful re-orientation of the SIKU**CONTROL32** line, initiated in 2007 in direction of the 2.4 GHz radio technology, has been consistently continued in 2008 in form of three interesting novelties. The John Deere track tractor 8430T is the most recent and most innovative radio-controlled model of the SIKU**CONTROL32** line. The optically unique model equipped with three engines runs on rubber crawlers that are driven by 2 servomotors. A standard tractor in form of the Deutz-Fahr Agrottron X720 is included in 2008 for the first time in the line of radio-controlled models. The sturdy model of the traditionalist manufacturer is equipped with the new innovative SIKU radio system electronics and offers besides proportional driving and steering functions – LED lighting and the electronic SIKU system rear coupling. The Scania R620 with lowboy semi-trailer, supplements the line of remote radio-controlled trucks by a weighty and extra strong model..

2009 – crawler track technology at the highest level

The John Deere Crawler Tractor 8430T is the latest and most innovative radio-controlled model benefitting from SIKU**CONTROL32** technology. Equipped with 3 motors, this model sports a unique look and rolls along on rubberised crawler tracks which are powered by 2 servo motors. Another addition, the massive and brawny Scania R620 with tipper semi-trailer, completes our line of radio-controlled lorries.

2011 – SIKU Control including front loader technology

Highly complex technology combined with the latest and strongest tractor: In 2011, the Fendt 939 with front loader will enter the history books written on high-end tractors sold under the SIKU Control label as a milestone in technology.

This model sets itself apart by the great number of features it has to offer. Proportional steering and speed as well as servo-controlled rear coupling. Shovel and front loader linkage can be controlled separately by two servo motors. The front loader linkage is equipped with a mechanical quick-change system. When used in combination with a pallet fork, the front loader linkage can be switched over electronically to a parallel motion. The model features 5 servo motors which are each secured by their own friction clutch. Headlights and flood lamps installed at the front of the cab roof with white LEDs, red LEDs used for the rear lights. Turn-signal functionality, left and right can be controlled individually. All-around lights with orange LEDs can be switched on and off separately.

2011 – SIKU Control radio technology at an affordable price

We are adding three new tractor models to our SIKUControl32 series, which is settled in the lower price segment. The use of existing radio components that operate on the 2.4 GHz band and a simpler product design made it possible to introduce highly complex SIKUControl32 technology to a more affordable price segment.



Made of metal and plastic, these rugged, high-quality tractors are a breeze to control thanks to the newly developed remote control module. The driving and steering functions are proportional and allow for precise driving and manoeuvring. The lighting at the front and rear of the vehicle will remain on during operation.

When in stand-by mode, i.e. when switched on but not yet linked to the remote control model, the model will flash to indicate that it is ready for operation. The new models are powered by three ordinary "AAA" batteries. As an alternative, they can also be used in combination with a rechargeable battery pack of the same type. If the battery voltage drops below a specific value during operation, the model will indicate by rapid flashing that the battery will be drained shortly.

Operation of the remote control module also requires two batteries of this type.

Our new tractor models are equipped with standard SIKU couplings at the front and rear which are operated manually. This makes it possible to use all SIKUFarmer32 trailers and trailed implements at the front and rear of these models. We have also implemented our integrative play system with these new models.

The data port on the rear of the tractors makes it possible to connect such Control series accessories as trailer, hay rake, and plough.

The following models will follow this technological approach:

Fendt 939

Claas Axion 850

John Deere 8345R

2012 – SIKU Control cultivator

A large agricultural device will complement the SIKU**CONTROL** series in 2012. The largest version of the Vogel&Noot cultivator, the S800, has a working width of more than seven metres. The frame of the model is metal. Teeth and rotating packer rolls are made of stable plastic. The single-axle chassis moves mechanically into transport position when the cultivator elements are electronically raised. The chassis moves into working position when the cultivator elements are lowered. The wheels on the central axle and on the front frame have true-to-the-original agricultural profiles. The tyres are made of rubberised material with grip factor. The cultivator has been designed for all SIKU**CONTROL** tractor models (infra-red and radio). The connection to the tractor model is made via the data cable supplied. The raising and lowering function of the cultivator elements in transport and working position is servo-controlled. A separate battery is not required. The power is supplied via the tractor. As for all SIKU**CONTROL** models, the cultivator is also only designed for use in-house.



The unique remote-controlled play system in scale

Like all SIKU**CONTROL32** -Models and unlike some other remote-controlled models, both novelties have been technically designed to be sturdy enough to be handled by children without breaking in spite of their electronically or servo-driven functions. This means that for the first time in the world, there is a remote controllable (die-cast!) modelvehicle system with additional compatible electronic devices in the 1:32 scale. These models designed within a true-to-scale toy system are not only island solutions but have standard components to allow them to be easily integrated as remote-controlled system solutions into the established SIKU**FARMER** system.

SIKU**CONTROL32** has established itself as a separate toy system for children and adults which also blends easily into the existing 1:32 scale SIKU**FARMER** world of play, creating an integrative combination of remote controlled and manually operated models that in this conceptual significance represents an unprecedented novelty on the market of toys.

SIKU**CONTROL32** enables children to reconstruct agricultural and road traffic operations dynamic, playful and true-to-original manner. SIKU**CONTROL32** line represents a play system involving a high learning effect combined with play value at a time

THE RADIO TECHNOLOGY

The radio technology used by SIKU**CONTROL32** is based on the 2.4 GHz band (ISM band). This radio band is also used by applications such as Bluetooth and WLAN and counts hence among the most recent radio technologies presently available on the market. Due to its specifications the system is immune to the above referenced technologies. Interference by mobiles or notebooks is therefore excluded. The system operates autonomously within the assigned radio environment.

This high-end system operates without any specific channel scheduling. Remote control unit and model communicate via a transmitter-receiver unit to negotiate the mode to be used, which then links control and model automatically with each other. A great number of models can be controlled by use of one sole remote control only. A number of models can be controlled in parallel, moreover, without having to bother about channels and frequencies to be negotiated. The system requires no more than a short aerial which is integrated into the models/control and does not interfere in any way.

The remote control module and the models are equipped with an identical transmitter and receiver electronic system. The system is able to communicate, since messages can be transmitted and/or received from the control to the model and vice-versa.

The advantages of the system, namely the fact that there is no need for channel scheduling and/or coordination of channels when several persons wish to play at a time, lie in this "possibility of communication" between the model and the control unit.

The material

Die-cast models with plastic parts and electronic components.

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Target groups

The target groups for the SIKUCONTROL32-Models are as follows:

- Children, in particular boys aged 5-12 years
- Teenager, in particular boys aged 13-18 years
- Adults, in particular men aged 18 and older
- Children, Teenager and Adults who already possess SIKUCONTROL32-Models (stabilisation of the target group)
- Children and Teenager who play with SIKU-Models and are interested in agriculture and trucks
- Children and Teenager who collect SIKU-Models
- Children, Teenager and Adults who want to add the SIKUCONTROL32-Models to their Gauge-1-railway (additional benefit)
- Adults who collect and/or remodel SIKU-Models
- Children, Teenager and Adults who run remote-controlled models (extension of the present target group!!)

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