# THE ONLINE STORE FOR 4D-MODELS

## CREATE TO EXCHANGE – EXCHANGE TO CREATE

TwinStore

# START EFFICIENTLY SHORTEN COMMISSIONING

TwinStore® enables the virtual commissioning of automation solutions from prefabricated and real-time capable 4D-models, representing the hardware components' actual behavior.

## CREATE TO EXCHANGE

As a component manufacturer, you create digital twins of your hardware components in close partnership with the TwinStore® community and make them available to your customers in the TwinStore®. In the context of Digital Engineering, the availability of 4D-models is becoming a crucial sales argument for your hardware components.

## EXCHANGE TO CREATE

As a machine and plant builder, you can use the prebuilt simulation models via the TwinStore® and seamlessly import them into compatible simulation software, such as ISG-virtuos. The quality and validity of the models are always ensured by their direct origin from the manufacturer. This reduces the modeling times for virtual commissioning and makes the commissioning process on the virtual model even more efficient.

## Cross-industry model catalogs

In the TwinStore®, you will find models from various areas, such as robotics, drive robotics, sensor technology, drive, handling, and conveyor technology

## In-depth documentation

You will find the behavioral model, an example project, and comprehensive documentation (scope of functions and possible applications) for each simulation model

# YOUR BENEFIT AS A MANUFACTURER

### SELLING POINT

In digital engineering, the availability of 4D-models becomes a crucial sales argument for your hardware components.

### STANDARDIZATION

TwinStore® is a member of the IDTA. In cooperation with component manufacturers in the TwinStore® community and the IDTA committees, we are driving forward the standardization of the digital twin.

### JOINT EXCHANGE OF EXPERIENCES

Your provided 4D-simulation models decisively drive your customers' digital engineering. In addition, you can exchange information about the process with other component manufacturers in the TwinStore® community.

# YOUR BENEFIT AS AN APPLICANT

### TIME SAVING

Using prefabricated simulation models saves time in creating digital twins and, thus, in the virtual commissioning of your machine or plant.

### EXACT SIMULATION

Thanks to detailed 4D-models and detailed documentation directly from the manufacturer, the quality and validity of the digital twins are ensured.

### DIVERSE MODEL PORTFOLIO

In the TwinStore®, you will find a diverse range of 4D-models from robotics, sensor technology, drive, conveyor, and handling technology. You will always find the appropriate 4D-model for your application.
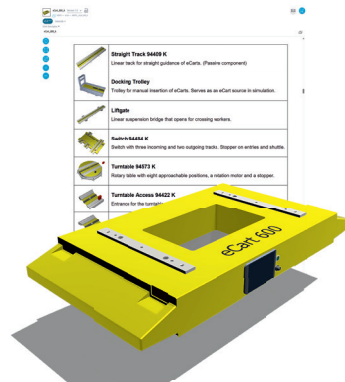
# SHARE MODELS
## IN A FEW CLICKS

# A FINISHED MODEL
## IN A FEW CLICKS

**01**

### TwinStore® Community

With your membership in the TwinStore® community, you can provide your customers with their 4D-models via TwinStore® and come into contact with other component manufacturers for a technical exchange, e.g., during the annual TwinStore® Summit.

Upload

**02**

### Providing 4D-models

Together with the AC4DEMY you create your first TwinStore® 4D-model. Afterwards, you can independently expand and manage your 4D-model catalog in the TwinStore® on your own.

### TwinStore® Community

Membership in the TwinStore® community gives you access to the 4D-model catalogs. The TwinStore® provides free and paid 4D-models from various manufacturers.

**01**

Download

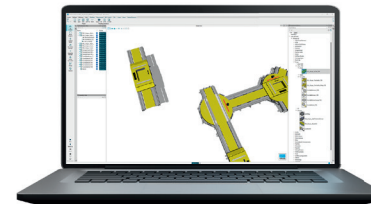### Selection of 4D-models

TwinStore® offers extensive 4D-model catalogs with detailed documentation on the range of functions and application types.

**02**

### Efficient model creation

When creating your simulation model in your simulation software, such as ISG-virtuos, you benefit from using prefabricated 4D-models and save valuable time when generating your digital twins for digital engineering.

**03**

# CREATE TO
# EXCHANGE

### 01
Membership in the
TwinStore®-Community

### 02
Joint realization of your
reference component

### 03
Extension and maintenance
of your 4D-model catalog in
collaboration with us and the
TwinStore® Community

### 04
Provision of your
4D-model catalogs in
the TwinStore® and
implementation of the
VC with your customers

Component manufacturers who have already embarked on this journey with us:

rexroth
A Bosch Company

KEB

SCHMALZ

KRUPS
SMART AUTOMATION

Lenze

ZIMMER
group

SICK
Sensor Intelligence.

WEISS

MURR
ELEKTRONIK
stay connected

and many
more

# EXCHANGE TO
# CREATE

### 01
Membership in the
TwinStore®-Community

### 02
Access to view all
4D-model catalogs

### 03
Integration of prebuilt 4D-models
into your simulation projects in close
cooperation with TwinStore® and the
TwinStore® community

Simulation specialists and applicants for successful simulation projects:

BMW

HC | HOMAG

HEITEC

CADENAS

ISG

Fraunhofer
IWU

Universität Stuttgart
ISW

AW
Ostbayerische Technische Hochschule
Amberg-Weiden

IDTA

ARENA2036

CAMPUS
SCHWARZ
WALD
EXCELLENCE IN DIGITAL ENGINEERING

and many
more

# TWINSTORE®
# IN USE

## Virtual commissioning of machines with frequency inverters from KEB Automation

KEB Automation is a leading global company specializing in innovative automation and drive technology. Its product range includes various customized system solutions like industrial PCs, servo drives, frequency inverters, brakes, (gear) motors and couplings.

With simulation models of the KEB devices available in the TwinStore®, the frequency inverters can be virtually commissioned in just a few clicks. Errors within the programming can thus be detected and rectified at an early stage.

Furthermore, the modeling effort is eliminated for users and existing digital twins can be extended with the real-time capable 4D-simulation models from KEB without much effort.

With the help of their TwinStore® model catalog, KEB supports its customers not only in selecting the right inverter firmware, but also in safeguarding against faults in order to be optimally prepared for real operation.

Scan the code and learn more about the TwinStore® and its role at KEB.

„With our simulation models of the COMBIVERT F6 and S6 drive controllers provided in the TwinStore®, our customers can prepare the real commissioning in the best possible way. The models already include the detailed behaviour like internal ramp generators and can be easily integrated into simulation software such as ISG-virtuos."
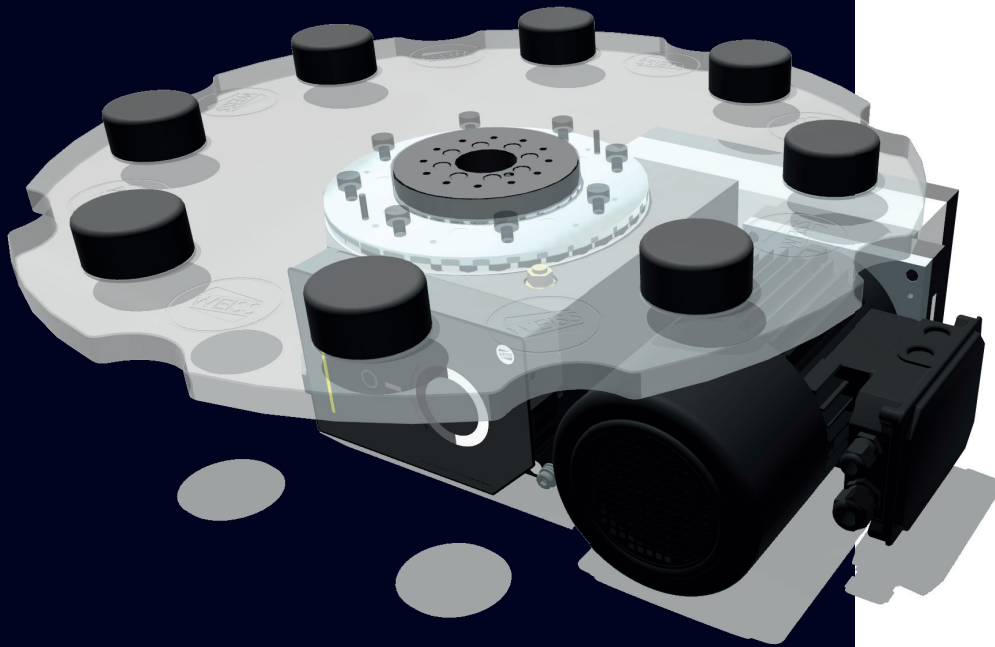
**Tobias Wenneker**, Product Manager Drives

F6-K

KEB_F6K_FWv29_Cpp

# IMMEDIATELY
# APPLICABLE

## Rotary indexing tables, delta robots and more

As a worldwide expert for factory automation, the WEISS GmbH designs automation solutions for the key industries of automotive, plant and mechanical engineering, life science, and electronics.

At the TwinStore®, the WEISS GmbH provides digital twins of its innovative rotary indexing tables, handling units, delta robots and linear transfer systems.

For their customers, this leads to cost and time savings and enables rapid validation as well as seamless integration of the components in digital engineering into models of larger plants.

With the help of the digital twin, they test the plants and commission them virtually. In addition, the digital twin helps to better understand the control system and enable training courses.

Find out more about how WEISS is using the TwinStore® to drive forward its digitalization strategy and to support its customers in digital engineering.

WEISS

# GET STARTED
# WITH TWINSTORE®

Would you like to benefit from our TwinStore® and become part of the TwinStore® community to expand the use of virtual 4D-models or simplify the creation of your digital twins? Then contact us now via

☎  **+49 711 22992 30**

@  **info@twinstore.de**

🌐  **www.twinstore.de/en**

## ISG – YOUR TECHNOLOGY PARTNER

For the implementation of your requirements in the area of digital engineering and motion control, TwinStore® and our other products as well as our simulation and control experts are at your disposal:

**ISG virtuos** — The simulation software for Virtual Commissioning (VC)

**ISG solutions** — Your service partner in matters of simulation, digital engineering and VC

**ISG dirigent** — The test automation software for control systems and simulation models

**ISG kernel** — The control software for CNC, Motion Control and robotics

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@ISG Industrielle Steuerngstechnik GmbH