

# THE FUTURE IS THIS EASY.

## ROTARY INDEXING TABLE CONTROLLER TS005

DISCOVER MORE [WEISS-WORLD.COM/TS005](http://WEISS-WORLD.COM/TS005)

### THE EFFICIENT TS005 CONTROLLER SOLUTION

TS005 is the basic controller for TC, TC-N and TR fixed-station Rotary Indexing Tables. This perfect interplay between the controller, motor, semi-conductor relay and rotary indexing table ensures a long service life, high precision and performance from WEISS.

### ENABLE THE DIGITALIZATION OF YOUR PRODUCTION PROCESSES

The TS005 combines all the essential functions of a rotary indexing table controller and is ideal for the demands of a modern production environment. At the same time, it is a further milestone in the digital development of the WEISS product portfolio.

## 01 INCREASE PRODUCTIVITY

The TS005 conforms to the modular concept that WEISS is pursuing for its entire product portfolio. It is compatible with other WEISS modules.

- ✓ Simulation model or 4D behavior model supporting system design, commissioning and optimization
- ✓ Integrated light signal for status recognition
- ✓ Digital I/O data interfaces, individual setting options, integrated storage medium, backup and restore function
- ✓ Easy and fast integration into the higher-level system control

## 02 LEVERAGE EFFICIENCY

The TS005 is designed for efficiency. It is not just that it increases the efficiency of the rotary indexing table. The controller module itself also ensures a faster time-to-market.

- ✓ Digital engineering with EPLAN, AML descriptions, 3D and 4D data
- ✓ Diagnostics options thanks to an alarm list, logbook and I/O testing
- ✓ Space-saving installation in the control cabinet

## 03 INCREASE FLEXIBILITY

Instead of a classic motor contactor, WEISS relies on a semi-conductor relay. This offers higher reliability in series production and at high cycle rates.

- ✓ Approx. 10x higher number of switching cycles
- ✓ Low likelihood of system downtimes

## 04 ENABLE CONNECTIVITY

With the modular design, the controls and display are positioned directly in the access area and field of view. EPLAN macros, AML and simulation data support modern methods for system design and planning.

- ✓ Graphical display for easy operation and guided commissioning
- ✓ Visual display of the device status for fast and clear evaluation of the switchgear
- ✓ Easy configuration in just a few steps via preset parameters



# TS005 IN DETAIL.

Because Rotary Indexing Tables offered by WEISS are in service for up to 30 years – and even longer in some cases – a controller must be reliable and feature a long service life, making it an essential part of the scope of delivery.



## THE GRAPHICAL DISPLAY

heightens the convenience of operation and makes the commissioning and diagnostics processes easier.

## FEATURES FOR HIGHER OUTPUT AND GREATER RELIABILITY.



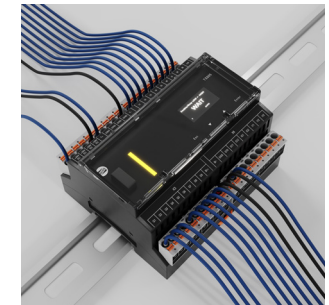
## DIGITAL PRODUCT FEATURES

for digital engineering, virtual commissioning, diagnostics and easy operation.



## THE SEMI-CONDUCTOR RELAY

increases the number of switching cycles and ensures greater reliability in large-scale series production.



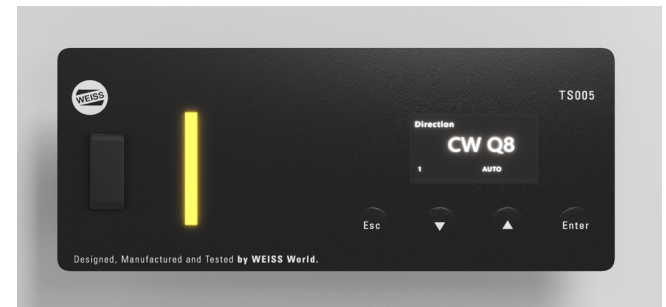
## QUICK AND EASY SUPPORT

increases the availability and reliability.



## THE MODULAR DESIGN

simplifies installation into modern control cabinet concepts.



## STATUS LED

shows the status of the component or that user intervention is required.

## GUIDED COMMISSIONING

makes commissioning easier because users do not require any in-depth control knowledge.



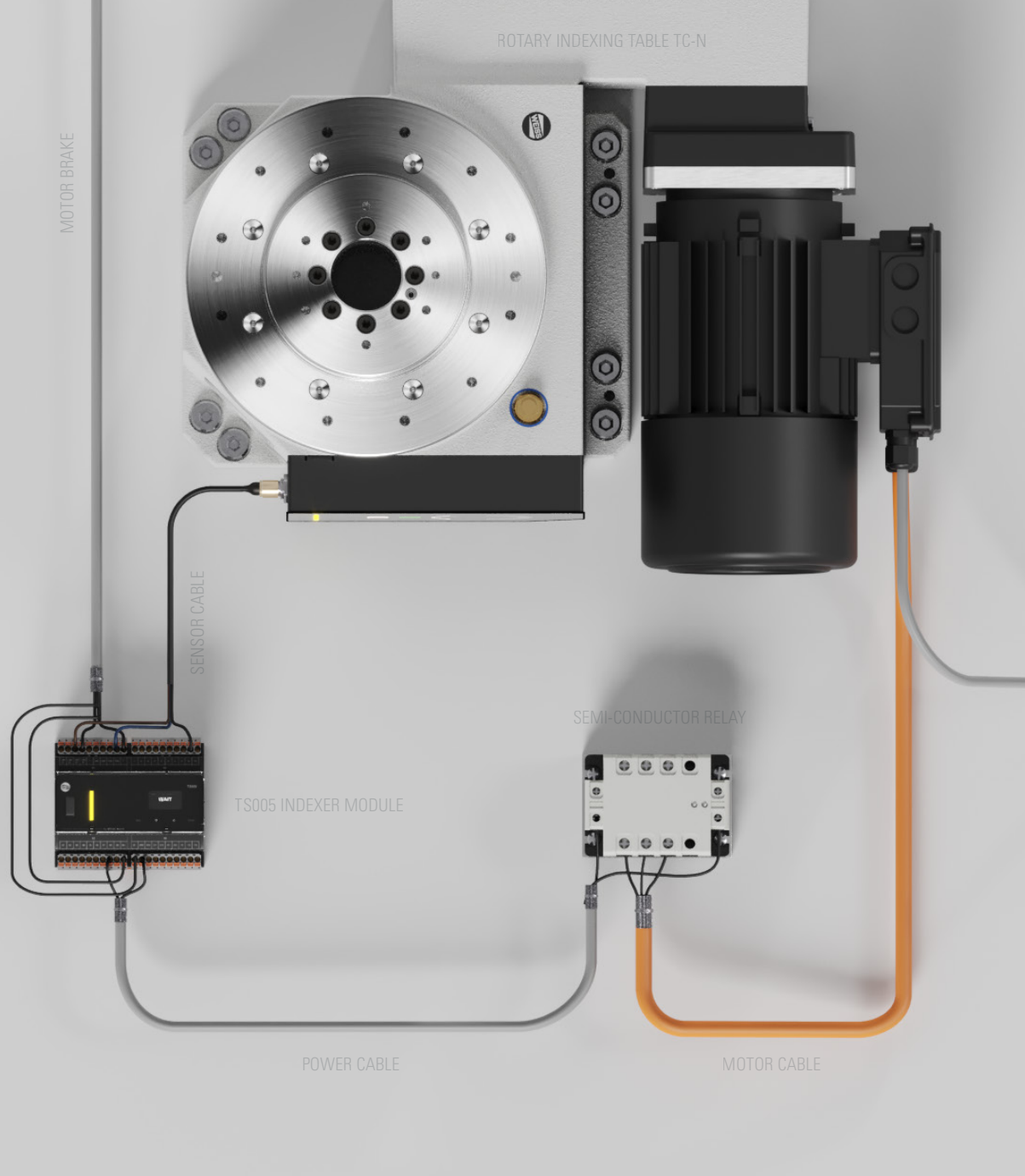
# TS005

## A COMBINATION THAT MAKES SENSE.

The combination of fixed-station Rotary Indexing Tables with Controller Solutions from WEISS creates a mechatronic platform that enables various applications. The rotary indexing table, motor and controller are perfectly coordinated to each other.

The entire package consisting of the TC-N, TC and TR fixed-station Rotary Indexing Tables and the TS005 Basic Controller is a lean, efficient solution with high reliability and availability.

The savings potential in the engineering of new systems can be up to 5 working hours.



## THE STRENGTHS OF THE NEW GENERATION.

- ✓ **INCREASES RELIABILITY**  
The TS005 significantly decreases the likelihood of system downtimes thanks to the use of a semi-conductor relay.
- ✓ **SIMPLIFIES PLANNING**  
The TS005 accelerates digital engineering by providing, e.g. EPLAN macros and an interface description in the AML format. A 4D behavior model simplifies control cabinet planning and enables virtual commissioning.
- ✓ **SHORTENS THE TIME-TO-MARKET**  
TS005 simulation models enable consistent system simulation. System integrators, operators and the commissioning team save time by using prefabricated and validated data.
- ✓ **INTEGRATED INTO THE ENTIRE SYSTEM**  
The geometry of the controller module integrates into modern control cabinet concepts. The software can be connected to the system controller without any problems.
- ✓ **INCREASES THE SERVICE LIFE**  
The TS005 offers greater reliability in series production and for high quantities because the number of switching cycles is many times higher in combination with the semi-conductor relay. This significantly reduces the likelihood of system downtimes.



## VIRTUAL COMMISSIONING WITH WEISS SIMULATION MODELS

Using virtual commissioning, systems can be tested and optimized long before the actual commissioning. The TS005 simulation module includes not only hardware product data but also even all software features. This enables you to configure and test the controller in the simulation.



The TS005 simulation model supports the virtual commissioning of the Rotary Indexing Table. You can make and test all required settings here and then forward them later on to the commissioning team.

## THE WEISS WORLD OF CONTROLLERS

WEISS offers Controllers for Rotary Indexing Tables that can be commissioned almost without any prior knowledge and monitored and analyzed during use. The portfolio covers applications in which rotary indexing tables are used in a variety of ways – from single-shift operation at low cycle numbers to operation with many time-critical cycles and high dynamics – can be operated with only a few breaks.



### EF3 ROTARY INDEXING TABLE CONTROLLER

When there is a high number of timecritical cycles with high dynamics, the drive controller of EF3 impressively delivers full performance for the motor and simultaneously protects the brake coil against wear. In single-shift operation where few cycles and long waiting periods are the rule, the EF3 is particularly energy efficient. Default parameters and a keypad for operation make commissioning easier.



### W.A.S. 2 COMPACT CONTROL PACKAGE

The W.A.S. 2 COMPACT control package is a complete package consisting of hardware and software. Thanks to the WEISS application software, commissioning the components is extremely easy. Up to 4 axes can be controlled with W.A.S. 2 COMPACT. Application-relevant services, safety functions and a web-based interface make it easier to operate.



### W.A.S. 2 SCALABLE CONTROL PACKAGE

The W.A.S. 2 SCALABLE control package is a complete package consisting of hardware and software for up to 32 axes. Application-relevant services and a Windows-based interface make it easier to operate. Numerous interfaces and standards ensure excellent system connectivity.



**CHANGE  
IS NOT  
THE QUESTION.  
IT IS  
THE ANSWER.**

Design system parameters and the Rotary Indexing Table Controller efficiently and reliably with the support and comprehensive domain knowledge of WEISS.

- ✓ CONSULTING
- ✓ PROCUREMENT
- ✓ DESIGN
- ✓ SIMULATION

Come talk to us if you would like to learn more about the TS005.

Get in Touch

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Use our services  
for design now.

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