



# ROTARY INDEXING TABLE CONTROLLERS





# CONTROLLERS FOR FIXED-CYCLE ROTARY INDEXING TABLES

- » SAVE TIME DURING COMMISSIONING
- » OPTIMIZATION FEATURE FOR BEST POSSIBLE CYCLE TIMES
- » MORE PLANNING RELIABILITY DUE TO EXTENDED WARRANTY TIME FOR ROTARY INDEXING TABLE TC
- » DEFINED INTERFACE TO MACHINE CONTROLLER WHICH CONTAINS ALL RELEVANT SIGNALS
- » CAN BE OPERATED INDEPENDENT OF THE MACHINE CONTROLLER – DIRECTLY ON THE DEVICE OR SIMPLY USING THE WEB-BASED USER INTERFACE

# CONTROLLERS FOR FIXED-CYCLE WEISS ROTARY INDEXING TABLES

## TS004 CONTROL CARD

The cost-effective variant for fast commissioning – a proven, long-standing solution that is perfectly coordinated and continuously optimized.



### Benefits

- › Use in single shift operation with fewer than 2 million cycles/year
- › Inexpensive solution
- › Practical to use via multilingual elements on front side
- › Various installation options

## EF2 ROTARY INDEXING TABLE CONTROLLER

Rotary indexing table, controller and web-based software from one source - an optimal combination.



### Benefits

- › Intuitive web-based user interface
- › Fast and easy commissioning
- › Cam gear & segment detector for optimized pre- and post-control of processes

## EF3 ROTARY INDEXING TABLE CONTROLLER

Seamless interaction of rotary indexing table and powerful controller from the same source.

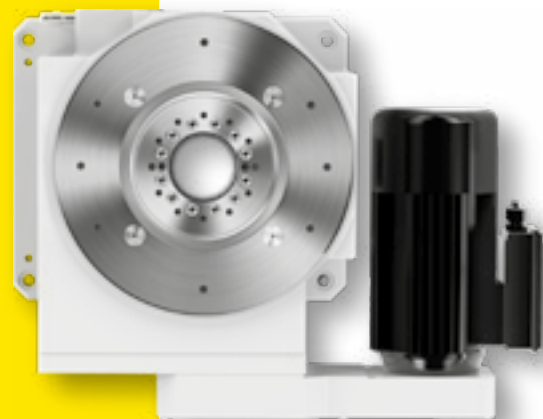


### Benefits

- › Easy to program using preset parameters
- › Easy to operate directly on the device via keypad
- › Rapid error analysis via cumulated error display
- › Compact and slim design saves space in control cabinet
- › Successor product to our EF1 rotary indexing table controller

## Controllers for WEISS rotary indexing tables ...

- › are perfectly coordinated to electromagnetic rotary indexing tables
- › promote a long system service life, since there is less brake wear and soft start after e-stop, even from intermediate positions
- › control brakes directly from the WEISS controller, no additional relay required
- › feature optimization options right on the device or on the user interface
- › can be used globally via various web standards
- › compact hardware (all in one)



# COMPARISON OF ROTARY INDEXING TABLE CONTROLLERS

PERFORMANCE CHARACTERISTICS	Control card TS004	Rotary indexing table controller EF2	Rotary indexing table controller EF3	Contactor control	Standard frequency converter
<b>Platform</b>	Control card (logic)	Servo controller, PLC	Servo controller, PLC	Power contactor	Frequency converter
<b>Performance classes</b>	External power contactor necessary	0.37 kW   1.5 kW 2.2 kW   3.0 kW	0.75 kW   2.2 kW 4.0 kW	Depending on the motor of the WEISS rotary indexing table	Depending on the motor of the WEISS rotary indexing table
<b>Communication interface</b>	24 V DC digital I/O	24 V DC digital I/O, Profibus, Profinet	24 V DC digital I/O	Programming in machine controller	Programming in machine controller (depending on manufacturer)
<b>Safety feature</b>	Only with additional circuit, not a control card component	STO SIL 2 on board, STO SIL 3 with additional circuit	STO SIL 3 on board, SS1-t with additional circuit	Designed by user based on specifications for respective application	Designed by user based on specifications for respective application
<b>Operability</b>	LED display & control buttons	Web-based user interface	Display/keypad	Not available	Not available
<b>Front panel installation</b>	Optional	Not available	Optional	Not available	Not available
<b>Space requirements, dimensions (width/height/depth)</b>	Control card 40/127/172 mm	0.37 kW to 2.2 kW 90/283/285 mm, 3.0 kW 100/288/300 mm	0.75 kW to 4.0 kW 60/323/210 mm	Depending on manufacturer	Depending on manufacturer, comparable
<b>BENEFITS</b>					
<b>Parametrization in just a few steps, saves time during commissioning</b>	●	●	●	○	○
<b>No controller knowledge required</b>	●	●	●	○	○
<b>Web-based operation, integrated web server</b>	○	●	○	○	○
<b>Remote support &amp; diagnosis options</b>	● <sup>1</sup>	● <sup>2</sup>	● <sup>1</sup>	○	○
<b>Increased performance via fully automatic optimization cycle</b>	○	●	●	○	○
<b>Wear-free switching of motor &amp; brake coil via semi-conductor relay</b>	●	●	●	○ <sup>3</sup>	● <sup>4</sup>
<b>Energy saving mode</b>	○	●	●	○	● <sup>4</sup>
<b>5 year warranty on TC rotary indexing table</b>	○	●	●	○	○
<b>POSSIBLE USES</b>					
<b>Very many time-critical cycles / year (&gt; 2 million) with high dynamics</b>	○	●	●	○	●
<b>Very few non-time-critical cycles / day with very long pause times</b>	●	●	●	●	●

<sup>1</sup> via telephone, <sup>2</sup> via TeamViewer, <sup>3</sup> increased wear on contactor, increased risk of failure and increased maintenance costs, <sup>4</sup> possible depending on manufacturer



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