



JX2-SV1
Version Update
from V1.49 to V1.50



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1 Introduction

Version Updates - Survey			
Version	Function	upgraded	corrected
JX2-SV1 V1.24	<p>New technological function "Flying Shear"</p> <p>Registers for the positioning offset for technological functions in master-slave mode: Registers 1x139 and 1x595</p> <p>Register for speed limitation in the technological function "Follower Control": Register 1x503</p> <p>Releasing the slave from master-slave operation by means of the positioning command in the technological function "Follower Control"</p> <p>Overflow problem in the technological function "Follower Control", variant: Table</p> <p>Overflow problem in the technological function "Follower Control", if an absolute encoder is used by the master.</p> <p>A tracking error has occurred during the reference run</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p>
JX2-SV1 V1.25	Technological function "Flying Shear"; immediate cutting.	✓	
JX2-SV1 V1.33	<p>Technological function "Winding"</p> <p>The position of the spindle on the circumference is displayed</p> <p>Offset of the traversing axis</p> <p>"Jump at the Edge" function</p> <p>Malfunctioning concerning the "Void Increments" function</p> <p>The winding gradient during the winding process equals zero</p> <p>Technological function "Follower Control", "Table Mode", "Handling of Overflows"</p> <p>If a resolver error occurs, enable is switched off</p>	✓	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
JX2-SV1 V1.40	<p>Technological function "Winding"</p> <p>The mathematical rounding in the turns counter can be switched off</p> <p>Digital winding functions properly again</p>	✓	✓

	<p>Technological function "Position control to the position of another module"</p> <p>The encoder can be switched during position control</p> <p>Position controller: The speed pre-control is scalable</p> <p>Digital offset in position feedback mode 0</p>	<p>✓</p> <p>✓</p>	<p>✓</p>
JX2-SV1 V1.43	<p>Technological function "Follower Control"</p> <p>Tracking error at power-up, if the master counter has had an overflow before.</p> <p>Overflow of the table could at times fail at processing the upper table.</p> <p>Relative positioning</p> <p>Issuing command 19 twice could lead to wrong positioning.</p> <p>Technological function "Position control to the position of another module"</p> <p>As of V. 1.40, there has been no overflow processing in relative positioning and endless mode.</p>		<p>✓</p> <p>✓</p> <p>✓</p>
JX2-SV1 V1.48	<p>Technological function "Winding"</p> <p>"Varying Winding Factors" function</p> <p>Displaying the winding direction</p>	<p>✓</p>	
	<p>At entering the "void increments", the axis will "jump".</p>		<p>✓</p>
	<p>Referencing by means of a bridge between K0 and K1</p>		<p>✓</p>
	<p>Driving by a very large digital offset</p>		<p>✓</p>
JX2-SV1 V1.49	<p>Wrong encoder setup after reference run with model JX2-SV1C</p> <p>Wrong register access to 1x178 and 1x179</p>		<p>✓</p> <p>✓</p>
JX2-SV1 V 1.18	<p>Rare disconnection of the system bus</p>		<p>✓</p>

2 Eliminated Software Bugs

2.1 Disconnection of the System Bus

In seldom cases it can occur that the module will be disconnected from the system bus during operation. The CPU will not be able to access the module then.

This can happen only if the module placed upstream the given module is of the following type:

- JX2-SV1 or JX2-SV1C
- JX2-SM1D
- JX2-SM2
- JX2-PID1
- JX2-Profi1

In addition the production date of the module upstream the given module is after April 2008.

This behavior is fixed as of version 1.18.