



JX2-SV1
Version Update
from V. 1.40 to V. 1.43



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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 "follower control" technological function: 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> <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>Encoder can be switched during position control</p>	<p>✓</p> <p>✓</p>	<p>✓</p>

	<p>Position controller: The speed pre-control is scalable</p> <p>Digital offset in position feedback mode 0</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>

2 Eliminated Software Bugs

2.1 Technological Function "Follower Control"

If the technological function "Follower Control" was deactivated, yet the master had been driving into one direction for a very long time (this caused overflows in its counter values), and if, before activating the "Follower Control" function the counter value of the master had been set to zero, a tracking error would occur occasionally.

If in the technological function "Follower via Table" the upper table had been applied, while for calculating the table overflow register 1x138 had not been applied (this means register 38 had not been used), a great jerk or tracking error could occur at this overflow.

2.2 Relative Positioning

If command 19 (relative positioning is to be continued after interruption) was given a second time, positioning would occasionally not be aimed at the destination, but on the starting point.

2.3 Technological Function "Position Control to the Position of Another Module"

As of version 1.40, the overflows at relative positioning and in endless mode (if the actual position reaches the value specified in register 1x185) would not be dealt with any more.