

## RELEASE NOTE

<b>MODEL</b>	M0609 M0617 M1013 M1509	
<b>RELEASE DATE</b>	2019-07-25 (July 25, 2019)	
<b>ALIAS</b>	M2.3.1	
<b>SOFTWARE VERSION</b>	<b>Main (DRCF&amp;DRSC)</b>	<b>GF020301 (NEW)</b>
	<b>Safety</b>	<b>GD010103 (NEW)</b>
	<b>Inverter</b>	<b>GA010012</b>
	<b>JTS</b>	<b>GB010002</b>
	<b>Flange</b>	<b>GC010000</b>
	<b>SVM</b>	<b>GI010000</b>
<b>CHANGES NOTE</b>	<p>&lt;Main SW : GF020301&gt;            [New Features]</p> <ul style="list-style-type: none"> <li>• Added Suppress function to temporarily suppress the execution of selected command in TB/TW task program.</li> <li>• Added DRL commands to communicate via Profinet and Ethernet/IP Slave.</li> <li>• Added log clear function.</li> <li>• Added log export function.</li> <li>• Added searching and filtering functions for TB/TW task programs.</li> <li>• Added Continue command for moving to the first command in repeat loop of TW task program.</li> <li>• Added shortcut function to move from call command in MainSub to Sub directly.</li> <li>• Added toggle function in Single line input keyboard to use QWERTY keyboard.</li> <li>• Added Restore function for Main SW (DRCF &amp; DRSC).</li> <li>• Added Tool Weight changing function while running Pick &amp; Place command with compliance control.</li> <li>• Added Safety Checksum display function to recognize the change of safety parameters.</li> <li>• Added custom code export function.</li> <li>• Added Grasp and Release sensor signal display function for the gripper</li> </ul>	

	<p>skills in TB.</p> <ul style="list-style-type: none"> <li>• Added the TB command to import and execute the sub task.</li> <li>• Added the debug function to TB. (Play, Pause, Stop, Resume, Step by Step, Break Point and Skip Point)</li> <li>• Added Imperial unit support of log messages.</li> <li>• Added reverse direction and vacuum operation functions for Screwdriver Workcell item and related skills.</li> <li>• Added wait function for Glue skill.</li> <li>• Added Modbus TCP Slave ID setting function.</li> <li>• Added Servo Off button.</li> </ul> <p><b>[Improvement]</b></p> <ul style="list-style-type: none"> <li>• Improved the singularity processing logic while running Compliance or Force Control.</li> <li>• Improved the usability of Run and Kill command.</li> <li>• Improved the compliance control performance for axis 6.</li> <li>• Improved the wait function of Pick Skill.</li> <li>• Improved the multi user mode to input the Safety Password when setting the workspace in WCM.</li> <li>• Improved the failure processing logic when DHCP IP allocation fails.</li> <li>• Improved the performance and usability of the Insert skill.</li> <li>• Improved the usability of the Polish related skills.</li> <li>• Fixed the problem skipping next command intermittently when async motion command runs in specific conditions.</li> <li>• Fixed the intermittent error upon pausing Move SX or Move SJ motion commands.</li> <li>• Fixed the potential error after scrolling the screen during task program running in TB/TW.</li> </ul> <p><b>&lt;Safety: GD010103&gt;</b></p> <p><b>[Improvement]</b></p> <ul style="list-style-type: none"> <li>• Fixed the unexpected collision error while in jog operation with no tool weight setting.</li> </ul>
<b>PRECAUTIONS</b>	<p>※ All SW must be installed properly as described in SW VERSION to guarantee the normal operation of robot.</p>