

## Backlash Collection and Slip Collection Functions

Configurable number of axes

Four axes can be configured independently.

### Description

Outputs pulses of the configured correction amount at the correction velocity (startup velocity) just before the command motion.

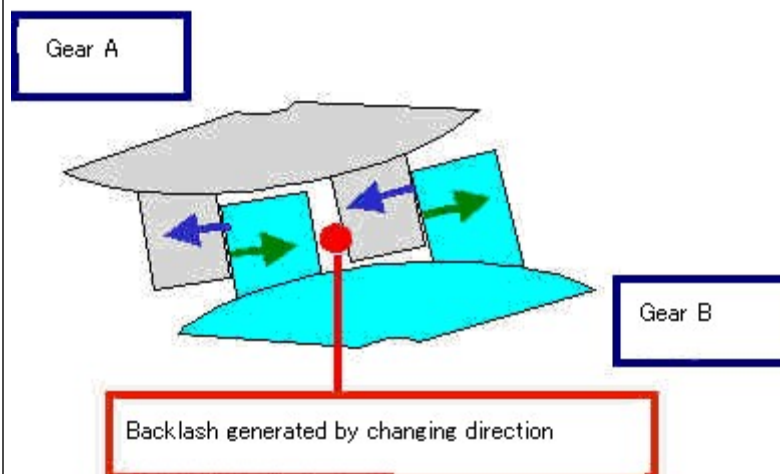
If the quadrant changes during the circular interpolation, the moving direction changes. However, at the timing of switching the quadrants, the backlash collection and slip correction functions does not work.

The speed during correction is the startup speed of each motion.  
(For the circular interpolation motion, the speed is the startup speed of the linear interpolation 1 motion.)

#### [Backlash Correction]

Every change of the moving direction, the motion operates just before the command direction.

Reversing from normal rotation generates backlash in the gear engagement. The same applies to the screws. To return the original position after moving 1 mm to the right in positioning, the left-feeding of 1mm is not enough. The backlash correction function is used to such backlash.



#### [Slip correction]

Regardless of the moving direction, it operates just before command motion.

### Comments

1 Configures the correction amount (pulse count).

2 Can operate the count of the counter during correction.

Configuration	<b>Multi-function DLL</b>	
	<p>Use the MtnSetRevise function to configure.</p> <p>MTR_PULSE identifier : correction amount (correction pulse count configuration)</p> <p>MTR_REVISE_MODE identifier : correction method</p> <p>MTR_COUTER_MODE identifier : motion configuration at counter correction</p>	

## Vibration Suppression at Stop

Configurable number of axes	Four axes can be configured independently.
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Description	<p>Suppresses the vibration at stop by adding the reverse motion of 1 pulse and normal rotation motion of 1 pulse at the completion of command motion.</p> <p>The dotted line indicates the pulses added by the vibration suppression function.          (Example of + direction motion)          RT : Reverse time          FT : Forward motion time</p>	
Comments	1	The vibration suppression is enabled when both the reverse and normal rotation times are other than 0.

	2	Configure the reverse and normal rotation timings in the range from 0 through 65535. The configured unit is 32 times (approximately 1.6 $\mu$ s) as the base clock cycle(19.6608 MHz). The configuration time range is from 0 through 0.1 s (approx.).
Configuration		<b>Multi-function DLL</b>  Use the MtnSetRevise function to configure.  MTR_REST_RT identifier : Reverse motion timing configuration MTR_REST_FT identifier : Normal rotation timing configuration

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[\[Top\]](#)