

Solution to High Response

High-Gain Rubber Type Coupling XG2



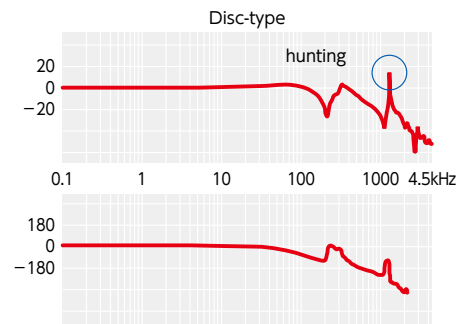
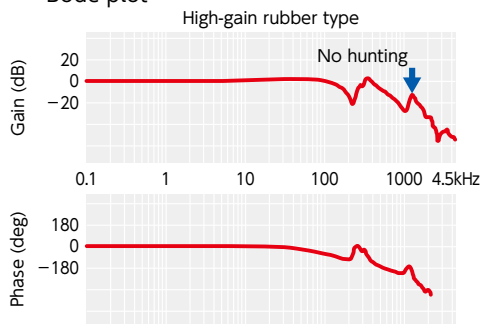
XG2

eXtraGain Patent Pending

1. Reduction of Stabilization Time

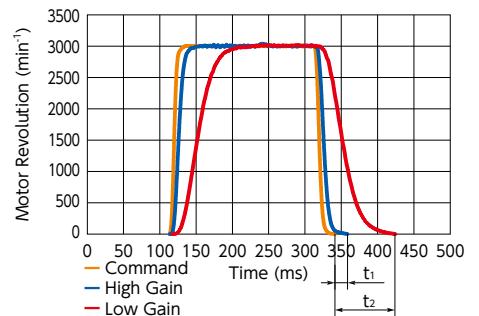
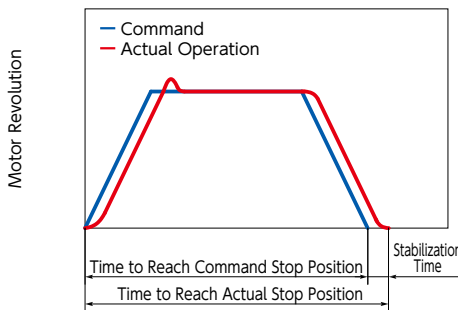
Improvement in servomotor's limit gain can reduce stabilization time.

• Bode plot






Hunting suppression

• Gain and stabilization time



Improvement in limit gain

• Measurement of stabilization time and overshoot

Gain*		XG2 Series 	XG Series 	Disc-type 
25	Stabilization time (ms)	12	12	12
	Overshoot (μm)	0.4	0.9	0.6
27	Stabilization time (ms)	8	8	Occurrence of hunting
	Overshoot (μm)	0.6	1	
32	Stabilization time (ms)	3	Occurrence of hunting	Occurrence of hunting
	Overshoot (μm)	1.7		

* Values after adjustment of all gains including position control gain and speed control gain (1 - 32)

• The values in the table vary depending on the test conditions.

Reduction of Stabilization Time

Improved Productivity (Movie featuring comparison with disc-type is available on NBK website.)