No Electricity Locking System

HOME Products Small Motors DC Coreless Motors No Electricity Locking System

"dyNALOX" is Orbray's original locking system, where torque is transferred from input to output, but not the other way around.



Features

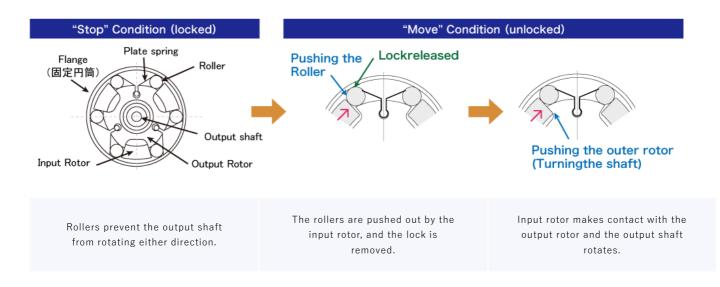
- 1. Outer force is disconnected without use of a low efficiency reduction system such as a worm gear or slide screw.: System can be made small in size
- 2. No electric power is required in this system.: Contributes to low current consumption, emergency stop function

"dyNALOX" is designed to transfer torque from the input shaft to the output shaft, but rotation from the output shaft is locked so the torque from the outside does not transfer to the inside. This system can be easily adopted by adding a few extra millimeters on top of a planetary gear. With this, the motor is locked from outside force even under no-power conditions.

dyNALOX Movie



Composition and Mechanism



dyNALOX Mounted Planetary Gearhead

Feature

dyNALOX input rotor and the first stage of the planetary gear are made in one body to make it more compact.

Specification

dyNALOX series			LPG12	
Outer diameter			12	
[mm]				
Max allowable torque			400	
[mNm]				
Max input speed[rpm]			8,000	
Shaft radial play[°]			≦ 0.02	
Output shaft bearing			Sintered sleeve bearing	
		1	4.8:1 (57%)	15.7
	Gear Total ratio length (Efficiency) [mm]	Stage		
Gear		2	23 : 1 (66%) 19.5	19 5
		Stage		1010
(Efficiency)		3	107 : 1 (60%) 23.3	23.3
(200000)	[]	Stage		23.5
		4	509:1 (52%)	27.2
		Stage		