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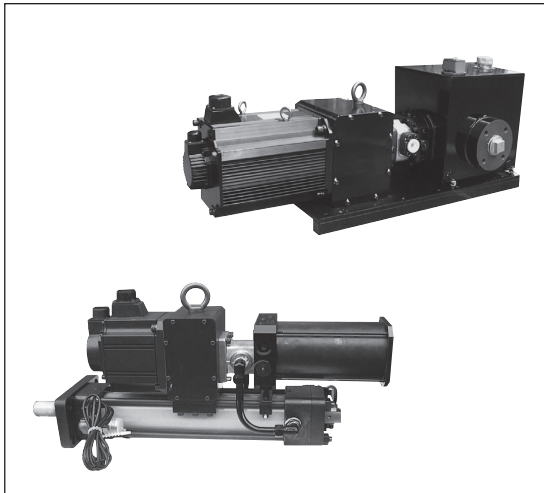
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POWER SERVO SYSTEM TOYOPAC MOTION



An electric servo system that reconciles higher precision and energy-saving.

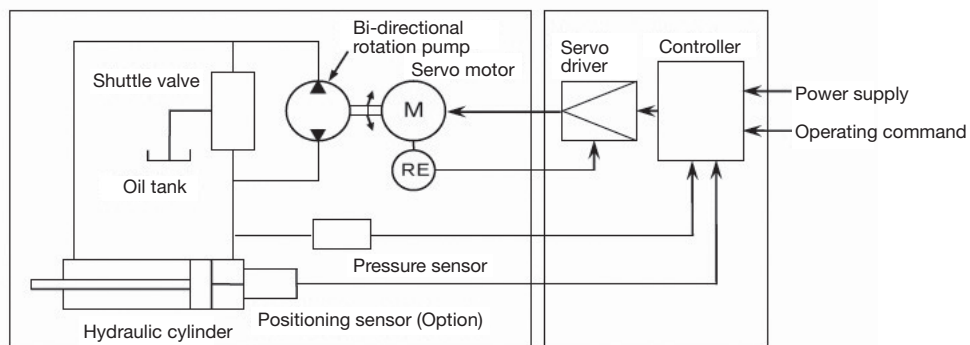
This system reciprocates cylinder motions by rotating a bi-directional rotation motor in forward and reverse direction with the control of a servo motor.

This hydraulic system enables to control the speed, positioning, pressure and load of the hydraulic cylinder at higher level, making the most of the servo motor (high response, forward-reverse, high speed rotation, etc.).

■ Features

1. With a simple device configuration that eliminates a control valve, it enables to control the positioning and the pressure with higher accuracy.
Positioning: ± 0.01 mm
Pressure: $\pm 2\%$ (F.S)
Load: $\pm 2\%$ (F.S)
2. The system supplies necessary flow and pressure when they are required, and is free from pressure loss on the control valve, improving energy-saving.
3. Since less heat generates from power loss, etc., no cooling devise is required and the tank capacity can be reduced to the minimum requirement, making the system very compact.
4. Hydraulic cylinder that bears load on the face has a longer service life compared with a ball screw that bears load at the point, ensuring accuracy for a long period of time.
5. Rich variations
Motor capacity: 0.4 to 55 kW

■ System configuration



■ Specifications

Hydraulic cylinder

		High speed/low torque type				Low speed/low torque type			
Cylinder bore		φ50	φ63	φ80	φ100	φ80	φ100	φ125	φ140
Rated thrust	kN	13	22	35	55	70	110	170	215
Max. thrust (within 3 sec)	kN	20	30	50	80	100	160	250	300

Toyopac motion

			High speed/low torque type					Low speed/low torque type				
Model: HTM□□			08	15	20	30	40	18	29	44	55	75
Motor output			kW	0.75	1.5	2.0	3.0	4.0	1.8	2.9	4.4	7.5
Thrust side max. speed	mm/sec	φ50	50	75	125	200	250	—	—	—	—	—
		φ63	32	48	80	128	160	—	—	—	—	—
		φ80	20	30	50	80	100	25	40	62	80	100
		φ100	12	18	30	48	60	16	25	40	50	63
		φ125	—	—	—	—	—	10	16	25	32	40
		φ140	—	—	—	—	—	8	13	20	26	32