



US Koei Technologies, Inc

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Actuate Yourself!

For twenty-five years, Japanese industry has benefited from the quiet power of Koei electric actuators. Now these compact actuators are available through US Koei. Our design is unique, our performance unmatched and long-lived, our control precise.

Call now to discover what Japanese industry has known for decades and relies on daily.



worm type final gear

Benefits:

- Originally Designed for 100% Continuous Process Operation
- Low Operation Costs
- Maintenance - Free
- Lightweight, Compact, and Low Profile
- Vibration Resistant
- Worm Type Final Gear for Rotary Models
- Instantaneous Stop: no overrun or no hunting assures High Resolution over 1/250
- US Inventory - Quick Delivery Turnaround
- Rotary Actuators fit on any ball or butterfly valve and Damper
- Short-stroke Linear Actuators fit on any diaphragm, pinch, globe or gate valve



linear type screw for smooth operation

Models:

- **Nucom Series: Modulating, Control actuators**

Rotary and Linear

Does your application call for severe control? The Koei Nucom actuator provides 250-400 steps over 90 degrees, no overrun, no hunting.

Linear actuators provide this precision over the entire stroke. Measure that up against the control you feel you are getting from your control valve. 4-20 mA input and output signal eliminates need for external positioning devices. By the unique Built in Motor Construction, the ADC Body works as Motor Heat Sink, which ensures high frequency start-stop motion without getting overheated. Nucom is born to be applied for continuous process control catching up 100% for your PID signals.



built in motor



easy-to-see opening
indicator

- **Unic Series: On/Off electric actuators**

Rotary and Linear

Sharing the same body and power train as Nucom, the Unic model is naturally over-spec. for just on-off. Its **Nema 4X** housing is made of Aluminum Die Cast with the electric motor built in structure making a small, compact and lightweight actuator with powerful torque output. Torque ranges: 87-17,360 inch pounds. Thrust 77-2640 pound force. The palm sized Unic Z/05 is suitable for small butterfly and ball valves. The largest Unic-200 weighs only 50 lbs., is 15 x 10 x 7 inches in dimension, and generates more than 17,000 in lb. with no secondary reduction required.



thermal protector

- **ESD: Emergency Shutdown**

Compact housing contains powerful nickel cadmium battery-eliminates the need for bulky ups systems, simplifying installation and upkeep. Lightning quick speed (.25 seconds-7.5 seconds)
100 operations after shutdown.

**Nucom Series:
Modulating, Control actuators**

Nucom Series Rotary Models Specifications Sheet

Nucom Rotary Models:	Z	10NS	10 NM	10NL	10NL-100	10NL-150	10NL-200
Output Shaft Torque (lb. in.)	174	434	1736	4340	8680	13,020	17,360
pound ft.	14	36	144	360	723	1085	1447
N.m.	19.6	49	196	490	980	1470	1960
Output Shaft Resolution	Over 1/250 (Max. 1/400 upon request)						
Power consumption	40 VA	70 VA	200 VA	350 VA	350 VA	350 VA	350 VA
Consumption resting	2 VA						
Input Signal	4-20 mA standard (optional 0-10V, 1-5V, 4-12mA, 12-20mA)						
Output Signal	1-5 V DC	4-20 mA standard.					
Power Source	Single phase: 100 vAC, 110 vAC, 115 vAC, 120 vAC, 200vAC, 220 vAC, 230 vAC, 240 vAC 50-60 Hz.						
Operation Angle	Quarter Turn: 0-90 degree						
Travel Speed at 60 Hz	12.5	12.5	12.5	12.5	25	37.5	50
Thermal Protector	Standard accessory: Built-in, auto reset type						
Ambient Temperature	-25 C to +55C (-13 F to 131 F)						
Insulation Resistance	500 vDC / 100 M ohm						
Rated Current, Amp. 120v/240vAC	0.3/0.2	0.65/ 0.35	1.8/ 0.9	2.4/ 1.2	2.8/ 1.4	3.4/ 1.7	3.4/ 1.7
Manual Operation	Detachable crank handle (std. accessory)						
Stopper	In operation: Limit switches: Full Open/Close. Manual operation: Mechanical stopper						
Housing Rating	NEMA 4/ 4X certified by UL labs						
Housing Material	ADC-12: Diecast Aluminum alloy						
Mounting Angle	All Directions						
Wiring Conduit	1/2" NPT						
Weight (lb.)	5.5	9.7	18	48.4	48.4	50.6	50.6
3rd party certification	CSA-NRTL/C & CE						

Unic Series: On/Off electric actuators

Unic Series Rotary Models Specifications Sheet

Unic Rotary Models:	Z	05	10-15	10	20	40	60	100	150	200
Output Shaft Torque (lb. in.)	87	347	434	868	1736	3472	5208	8680	13,020	17,360
pound ft.	7	29	36	72	144	289	434	723	1085	1447
N.m.	9.8	39	49	98	196	392	588	980	1470	1960
Power Source	Single phase: 24 vAC up to Unic 40, 110 vAC, 120 vAC, 220 vAC, 230 vAC, 240 vAC 50-60 Hz. 24 vDC voltage up to Unic 20.									
Operation Angle	Quarter Turn: 0-90 degree									
Travel Speed at 60 Hz	3.3 sec.	12.5	12.5	25	25	25	25	25	37.5	50
Driving Motor	8 W	8W	20 W	20 W	30 W	90W	90 W	100 W	100 W	100 W
Thermal Protector	Standard accessory: Built-in, auto reset type									
Ambient Temperature	-25 C to + 55 C (-13 F to 131 F)									
Insulation Resistance	500 vDC / 100 M ohm									
Rated Motor Current Amp. 120v/240vAC	0.7/0.3	0.7/0.3	0.65/0.35	0.65/0.35	1.1/0.55	1.8/0.9	1.9/1.0	3.4/1.7	3.4/1.7	3.4/1.7

Manual Operation	Detachable crank handle (std. accessory)									
Stopper	In operation: Limit switches: full open/close. Manual operation: Mechanical stopper									
Housing Rating	NEMA 4 / 4X certified by UL labs									
Housing Material	ADC-12: Diecast Aluminum alloy									
Mounting Angle	All Directions									
Wiring Conduit	1/2" NPT									
Weight (lb.)	4.4	4.4	9.9	9.9	19.8	20.9	44	46.2	48.4	48.4
3rd party certification	CSA-NRTL/C & CE									

ESD: Emergency Shutdown

ESD Series Specifications Sheet

ESD Rotary Models:	BBM-0.7	BBM-7.5	BBL-0.7	BBL-7.5
Output Shaft Torque (lb. in.)	608	1736	1736	8680
(pound ft.)	50	144	144	723
(N.m.)	68	196	196	980
Power Source	85-260 vAC, 110-370 vDC			
Battery	Nickel Cadmium			
Operation Angle	Quarter Turn: 0-90 degree			
Travel Speed	0.7 sec/max.	7.5 sec.	0.7 sec./max.	7.5 sec.
Driving Motor	50 W	50 W	200 W	200 W
Motor Rated Voltage	DC 12V	DC 12V	DC 12V	DC 12V
Current Consumption	10 W	10 W	15 W	15 W
Ambient Temperature	0 c to 45 C (32 F to 113 F)			
Insulation Resistance	500 vDC / 100 M ohm			
Manual Operation	Detachable crank handle (std. accessory)			
Stopper	In operation: Limit switches: full open/close. Manual operation: Mechanical stopper			
Housing Rating	NEMA 4 / 4X			
Housing Material	ADC-12: Diecast Aluminum alloy			
Mounting Angle	All Directions			
Wiring Conduit	1/2" NPT			
Weight (lb.)	19.8	19.8	37.5	37.5