

The
Vacuum
Servo
Actuator
That
Operates
With No
Shaft
Seals.



NTRODUCING the ChamberLink combination feedthrough and actuator. This new servo-powered, deep-vacuum rotary feedthrough delivers precise rotary motion into a vacuum chamber without any shaft seals – or leaks. The ChamberLink's servo motor and all input elements operate on the ambient side of the chamber wall, while the speed-reduced and torque-multiplied output shaft turns in the vacuum. This single unit, with its solid, direct connection, is built to last a long time.

It's the kind of innovation customers have come to expect from Harmonic Drive Technologies, the oldest and one of the world's leading manufacturers of harmonic drive gearheads, component gear sets, and complete harmonic drive actuators. Harmonic Drive supplies standard and custom harmonic drive motion control products designed to minimize space while offering both high load and long life. We are dedicated to developing and manufacturing products that are lighter, smaller and stronger.

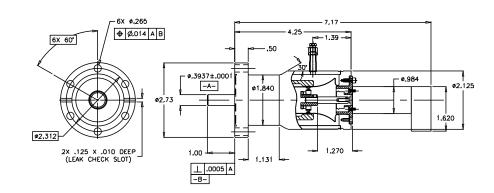
In the near future, in order to meet the specific, unique needs of our customers, Harmonic Drive will be introducing a complete series of vacuum servo actuators. The ChamberLink is just the beginning!

ChamberLink™ Configurator

CUSTOMER REQUESTED SPECIFICATIONS

FEED THROUGH DIAMETER:	
SEAL TYPE:	
EXTERIOR DIAMETER:	
TOTAL ACTUATOR LENGTH:	
GEAR BODY LENGTH:	
OUTPUT SHAFT LENGTH:	
OUTPUT SHAFT DIAMETER:	
KEYWAY TYPE:	
FLANGE OD:	
FLANGE HOLE PATTERN:	
MOTOR TYPE:	

ChamberLink **HHA-10**



ChamberLink **Performance Specifications**

	Units	Specifications	
Rated Power	Watts	35	
Rated Voltage	Volts	12	
Rated Current	Amps	2	
Rated Torque	in-lb/N-m	10 / 1.1	
Rated Speed	RPM	22	
		,	
Max. Continuous Stall Torque	in-lb / N-m	15 / 1.7	
Max. Output Torque	in-lb / N-m	25 / 2.8	
Max. Current	Amps	4	
Max. Output Speed	RPM	60	
Torsional stiffness	lb-in / rad	4500	
Positional Accuracy	+- arc min	4	
Temperature range	Degrees F	-20 to 200	
Vacuum pressure	torr	10-6	
Leakage rate [He]	scc/sec	10-11	
Gas compatibility		Inert Gas	
Housing material		304 SS	
Max. Shaft runout	in.	0.0010	
Connection		Conflat flange	
Reduction Ratio	R:1	80:1	
Inertia at Input Shaft	lb-in2	0.0053	
May Overhung Lead @ dist	15- @ i-	10.93	
Max. Overhung Load @ dist.	lbs @ in.	10@3	
Max. Axial Load	lbs @ in.	20	
Shaft Diameter		10mm	
Encoder	_		
Output Signal	Туре	TTL Compatible	
Resolution (Encoder Only)	CPR	500	
		04:1 1 1	

#Channels

Degrees F

Volts

G

mm

2+1 index channel

5V+-10%

30 to 160

26LS31 Line Driver

10 conductor ribbon cable

20g, 5 to 100hz

500



Peabody, MA 800-921-3332 www.harmonic-drive.com

Operating Temperature
Line Driver Components

Output Signal

Termination

Lead Wire

Vibration, Shock

Supply Voltage