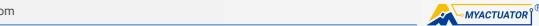


RH Series Harmonic Actuator

(Dual encoder)







Understand What You Need In Heart And Know How To Make Effort Diligently



Low Speed Steady



Low Noise



High Precision



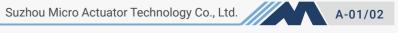
High Load Capacity



Precise Control



Easy To Operate







EPS-RH Series Naming Conventions

EPS-RH-17-100-C-B-D1 2 3 4 5 6 7



- (2) RH Stands For The Series Name: Harmonic Actuator
- ③ Harmonic Model e.g: 14/17/20/25/32 etc
- 4 Reduction ratio 1:100
- (5) Communication C/E: CAN BUS and EtherCAT
- (6) N: Without Brake B: with Brake
- 7 D: Dual Encoder S: Single Encoder

For example

Model EPS-RH-20-100-C-N-D

Illustrate EPS: Brand Name

RH: Harmonic Module 20: Harmonic Model

100: Harmonic gear ratio 100:1C: Communication C: CAN BUS

N: Without Brake
D: Dual encoder

Diversified Application Scenarios



Robotic Arm



Food Processing



Medical Equipment



CNC Bed



Shipbuilding Industry



Aviation Industry

Series Name **EPS-RH**

Motor Simplified Name

RH-14

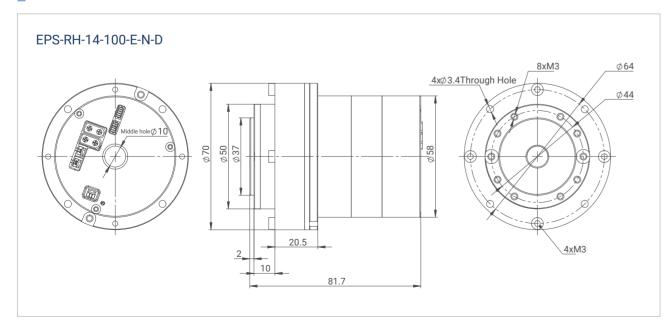


Off Axis Encoder

Actuator Full Name		Communication	With Brake/Without Brake	Gear ratio
	EPS-RH-14-100-E-N-D	CAN BUS and EtherCAT	N (without brake)	100

- * 1. The standard motor can support without brake.
- * 2. The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 3. This product also supports a reduction ratio of 50:1. Please contact sales to confirm the delivery time before ordering.

Installation Drawing



Product Parameters

Parameters		Unit	RH-14	
Gear ratio		_	50 100	
Input Voltage		V	48	
No Load Speed		RPM	60 30	
No Load Curr	ent	А	0.4 0.4	
Rated Speed		RPM	50 25	
Rated Torque		N.m	5.5 11	
Rated Power		W	28	
Rated Current	t	A(rms)	2.8	
Peak Torque		N.m	14 28	
Peak Current		A(rms)	5.7	
Efficiency		%	_	
Motor Back-E	MF Constant	Vdc/Krpm	19.2	
Module Torqu	ue Constant	N.m/A	2 4	
Motor Phase	Resistance	Ω	0.62	
Motor Phase	Inductance	mH	0.43	
Pole Pair		_	10	
Cogging Torq	ue	N.m	_	
3 Phase Conr	nection	_	Υ	
Back Drive To	rque	N.m	_	
Backlash		Arcsec	< 40	
Radial Load	Static load	KN	8.6	
Rdulai Ludu	Dynamic load	KN	5.8	
Axial Load	Static load	KN	58.7	
Axiai Luau	Dynamic load	KN	16.2	
Inertia	N	kg.m²	0.11 0.29	
incitia	В	kg.m²	- 0.32	
Encoder Type		_	Dual Encoder ABS-17BIT (Input) ABS-17BIT (Output)	
Repeat Position Accuracy		Degree	< 0.01	
Communicati	on	-	CAN BUS and EtherCAT	
Weight	N	Kg	0.78	
vveigill	B		/	
Insulation Grade		_	F	

method:

* Rated torque test When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.





Series Name **EPS-RH**

Motor Simplified Name

RH-17

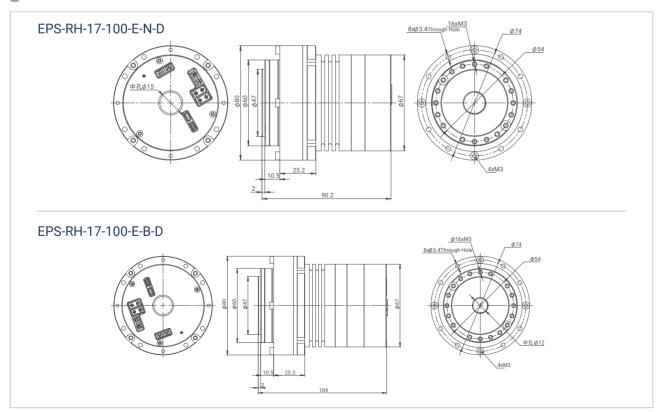


Off Axis Encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-17-100-E-N-D	CAN BUS and EtherCAT	N (without brake)	100
EPS-RH-17-100-E-B-D	CAN BUS and EtherCAT	B (with brake)	100

- * 1. The standard motor can support both brake or without brake.
- $\ensuremath{^{\star}}$ 2. The standard motor support CAN BUS and EtherCAT.
- * 3. The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 4. This product also supports a reduction ratio of 50:1. Please contact sales to confirm the delivery time before ordering.

Installation Drawing





Product Parameters

Parameters		Unit	RH-17
Gear ratio		-	50 100
Input Voltage		V	48
No Load Spe	ed	RPM	60 30
No Load Curr	ent	А	0.6 0.6
Rated Speed		RPM	50 25
Rated Torque		N.m	17.5 35
Rated Power		W	91
Rated Curren	t	A(rms)	4.7
Peak Torque		N.m	27 54
Peak Current		A(rms)	7.4
Efficiency		%	_
Motor Back-E	MF Constant	Vdc/Krpm	19.2
Module Torqu	ue Constant	N.m/A	3.7 7.4
Motor Phase	Resistance	Ω	0.70
Motor Phase	Inductance	mH	0.47
Pole Pair Cogging Torque		-	10
		N.m	-
3 Phase Conr	nection	-	Υ
Back Drive To	orque	N.m	-
Backlash		Arcsec	< 40
D. Balland	Static load	KN	16.3
Radial Load	Dynamic load	KN	10.4
Avialland	Static load	KN	78.2
Axial Load	Dynamic load	KN	20.8
Inertia	N	kg.m²	0.16 0.52
IIIeilid	В	kg.m²	0.18 0.56
Encoder Type		-	Dual Encoder ABS-17BIT (Input) ABS-17BIT (Output)
Repeat Position Accuracy Communication		Degree	< 0.01
		-	CAN BUS and EtherCAT
Weight	N	Kg	1.11
Weight	В	Kg	1.28
Insulation Gra	ade	-	F

method:

* Rated torque test When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.





Series Name **EPS-RH**

Motor Simplified Name

RH-20

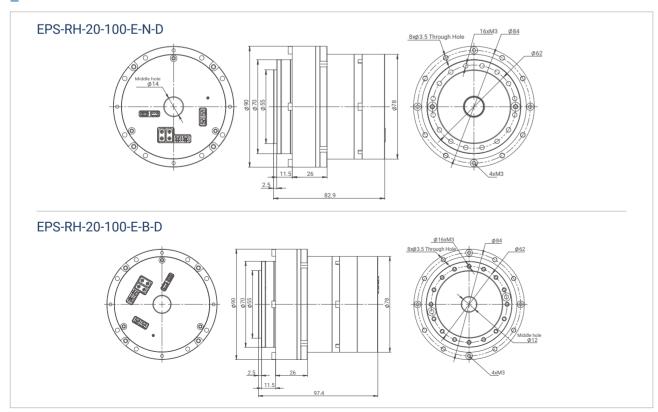


Off Axis Encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-20-100-E-N-D	CAN BUS and EtherCAT	N (without brake)	100
EPS-RH-20-100-E-B-D	CAN BUS and EtherCAT	B (with brake)	100

- * 1. The standard motor can support both brake or without brake.
- * 2. The standard motor support CAN BUS and EtherCAT.
- * 3. The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 4. This product also supports a reduction ratio of 50:1. Please contact sales to confirm the delivery time before ordering.

Installation Drawing



Suzhou Micro Actuator Technology Co., Ltd.

Product Parameters

Parameters	:	Unit	RH-20
Gear ratio		-	50 100
Input Voltage		V	48
No Load Speed		RPM	60 30
No Load Curr	rent	A	1.1 1.2
Rated Speed		RPM	50 25
Rated Torque	2	N.m	25 50
Rated Power		W	130
Rated Curren	t	A(rms)	6.8
Peak Torque		N.m	40 80
Peak Current		A(rms)	10.6
Efficiency		%	-
Motor Back-E	EMF Constant	Vdc/Krpm	19.2
Module Torqu	ue Constant	N.m/A	3.65 7.3
Motor Phase Resistance		Ω	0.36
Motor Phase	Inductance	mH	0.51
Pole Pair		-	10
Cogging Torque		N.m	_
3 Phase Coni	nection	-	Υ
Back Drive To	orque	N.m	-
Backlash		Arcsec	< 40
Dadialland	Static load	KN	22
Radial Load	Dynamic load	KN	14.6
الممما المناب	Static load	KN	132.7
Axial Load	Dynamic load	KN	34
Inertia	N	kg.m²	0.21 0.87
illertia	В	kg.m²	0.24 0.95
Encoder Type		_	Dual Encoder ABS-17BIT (Input) ABS-17BIT (Output)
Repeat Position Accuracy		Degree	< 0.01
Communicat	ion	_	CAN BUS and EtherCAT
Woight	N	Kg	1.45
Weight	В	Kg	1.75
Insulation Gra	ade	-	F

method:

* Rated torque test When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Product Parameters



Series Name

EPS-RH

Motor Simplified Name

RH-25

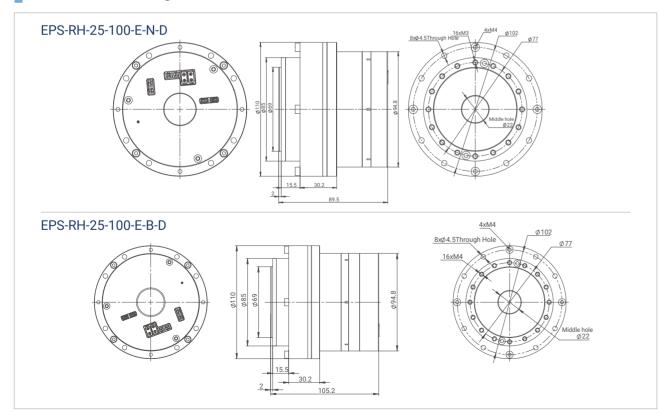


Off Axis Encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-25-100-E-N-D	CAN BUS and EtherCAT	N (without brake)	100
EPS-RH-25-100-E-B-D	CAN BUS and EtherCAT	B (with brake)	100

- * 1. The standard motor can support both brake or without brake.
- * 2. The standard motor support CAN BUS and EtherCAT.
- * 3. The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 4. This product also supports a reduction ratio of 50:1. Please contact sales to confirm the delivery time before ordering.

Installation Drawing



Parameters		Unit	RH-25	
Gear ratio		_	50 100	
Input Voltage		V	48	
No Load Speed		RPM	60 30	
No Load Curr	ent	А	1.8 2.0	
Rated Speed		RPM	50 25	
Rated Torque		N.m	54 108	
Rated Power		W	282	
Rated Current	t	A(rms)	10.6	
Peak Torque		N.m	78.5 157	
Peak Current		A(rms)	14.1	
Efficiency		%	_	
Motor Back-E	MF Constant	Vdc/Krpm	19.2	
Module Torqu	ue Constant	N.m/A	5.05 10.1	
Motor Phase	Resistance	Ω	0.16	
Motor Phase Inductance		mH	0.33	
Pole Pair		_	10	
Cogging Torq	ue	N.m	_	
3 Phase Conr	nection	_	Υ	
Back Drive To	rque	N.m	_	
Backlash		Arcsec	< 40	
Radial Load	Static load	KN	35.8	
Naulai Luau	Dynamic load	KN	21.8	
Axial Load	Static load	KN	198.2	
Axiai Loau	Dynamic load	KN	49.1	
Inertia	N	kg.m²	0.51 1.94	
mertid	В	kg.m²	0.59 2.32	
Encoder Type		-	Dual Encoder ABS-17BIT (Input) ABS-17BIT (Output)	
Repeat Position Accuracy		Degree	< 0.01	
Communication		-	CAN BUS and EtherCAT	
Weight	N	Kg	2.42	
TTCIGITE	В	Kg	2.74	
Insulation Grade		-	F	

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.



Series Name

EPS-RH

Motor Simplified Name

RH-32

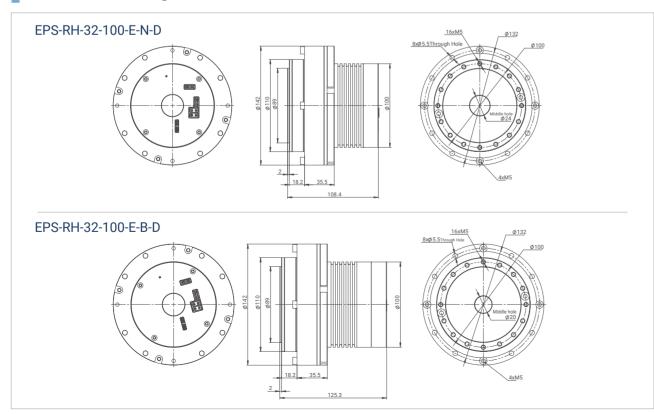


Off Axis Encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-32-100-E-N-D	CAN BUS and EtherCAT	N (without brake)	100
EPS-RH-32-100-E-B-D	CAN BUS and EtherCAT	B (with brake)	100

- * 1. The standard motor can support both brake or without brake.
- * 2. The standard motor support CAN BUS and EtherCAT.
- \star 3. The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 4. This product also supports a reduction ratio of 50:1. Please contact sales to confirm the delivery time before ordering.

Installation Drawing



Suzhou Micro Actuator Technology Co., Ltd.

Product Parameters

Parameters		Unit	RH-32
Gear ratio		_	50 100
Input Voltage		V	48
No Load Speed		RPM	40 20
No Load Curr	rent	А	2.6 2.8
Rated Speed		RPM	36 18
Rated Torque	2	N.m	75 150
Rated Power		W	282
Rated Curren	t	A(rms)	21.8
Peak Torque		N.m	114.5 229
Peak Current		A(rms)	32.1
Efficiency		%	_
Motor Back-E	EMF Constant	Vdc/Krpm	26.7
Module Torqu	ue Constant	N.m/A	3.45 6.9
Motor Phase	Resistance	Ω	0.08
Motor Phase	Inductance	mH	0.18
Pole Pair		-	10
Cogging Torque		N.m	_
3 Phase Con	nection	_	Υ
Back Drive To	orque	N.m	_
Backlash		Arcsec	< 40
Radial Load	Static load	KN	65.4
Radiai Load	Dynamic load	KN	38.2
Axial Load	Static load	KN	342.6
Axidi LUdu	Dynamic load	KN	81.8
Inertia	N	kg.m²	0.82 6.86
illertia	В	kg.m²	2.05 8.32
Encoder Type		_	Dual Encoder ABS-17BIT (Input) ABS-17BIT (Output)
Repeat Position Accuracy		Degree	< 0.01
Communication		_	CAN BUS and EtherCAT
Woight	N	Kg	4.32
Weight	В	Kg	4.74
Insulation Grade		-	F

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.