



ALL IN ONE CUSTOMIZABLE PANCAKE BRUSHLESS SERVOMOTOR





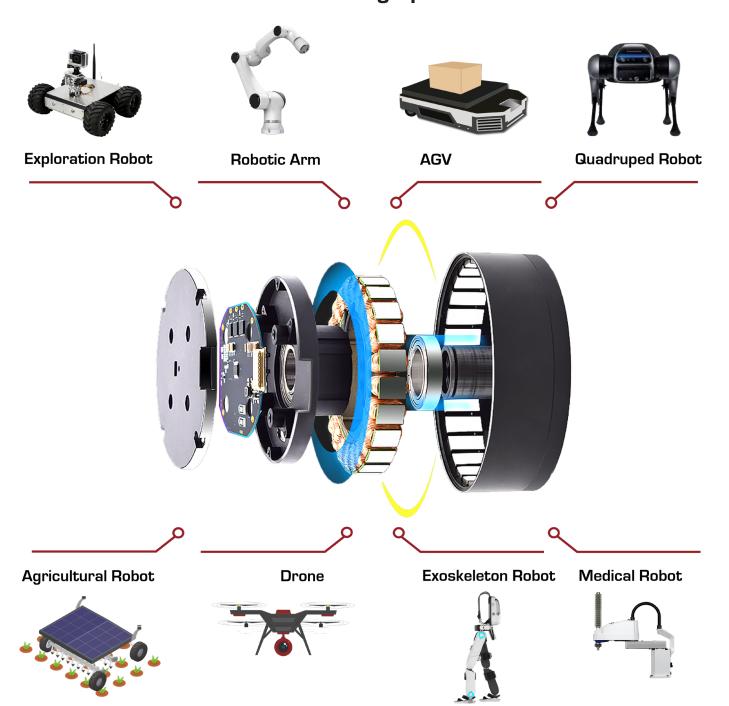


RH - HARMONIC - SERIES

INTEGRATED HARMONIC MODULE INTEGRATED DESIGN, VIBRATION RESISTANCE

V1.1.2

Maximize the performance of your applications while saving space.



PRODUCT NAME RULES



- (1) Brand Name E-Efficiency P-Precision S-Smart
- 2 R-Harmony motor, S-H Hollow Shaft
- (3) Harmony Reducer Model: 14/17/20/25/32
- (4) Gear Ratio: 50/100
- (5) Communication C: CANBUS, R: RS485, E: EtherCAT
- (6) Customizable Brakes : N : No Brake B : Brake

Motor simplified Name

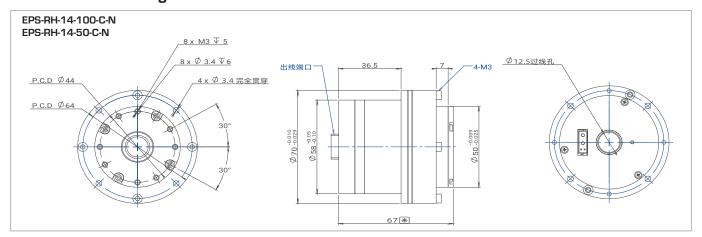
RH-14



- Single Encoder

Actuator Full Name	Product Code	With Brake / Without Brake
EPS-RH-14-100-R-N	1103011000220100	N (without brake)
EPS-RH-14-100-C-N	1103011000120100	N (without brake)
EPS-RH-14-50-R-N	1103010500220100	N (without brake)
EPS-RH-14-50-C-N	1103010500120100	N (without brake)

- Installation Drawing



ltem	Name	Units	RH-14	
Reducer Type		-	Harmonic reducer	
Gear Ratio		-	1:50	1:100
Peak Torque (Start &	S stop)	N.m	18	28
Rated Torque		N.m	7	11
Peak Speed		R/Min	60	30
Rated Speed		R/Min	50	25
Peak Current		А	3,5	3,5
Rated Current		А	1,5	1,5
Rated Voltage		V	48	48
Motor Rated Power	Motor Rated Power		100	100
Line to line resistand	Line to line resistance		0,9	0,9
Line to line inductant	Line to line inductance		0,4	0,4
Back EMF		Vrms/KRPM	5,6	5,6
Single Direction Acc	uracy Arc Sec	Arc Sec	40	30
Repetitive Positionin	g Accuracy	Arc Sec	15	10
Encoder Type		Rev	ABS-17bit	ABS-17bit
Hollow Shaft	N (without brake)	mm	12,5	12,5
Diameter	B (with brake)	mm	/	/
Inertia	N (without brake)	Kg.m²	0,02	0,04
III GI GIG	B (with brake)	Kg.m²	/	/
Weight	N (without brake)	kg	0,71	0,71
vveigili	B (with brake)	kg	/	/

^{*} Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other 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

Motor simplified Name

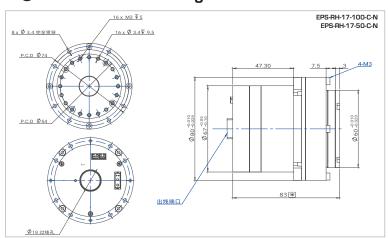
RH-17

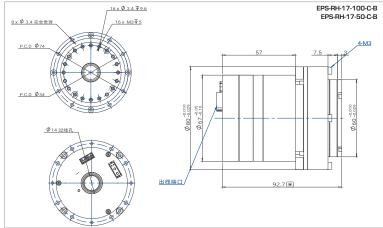


- Single Encoder

Actuator Full Name	Product Code	With Brake / Without Brake
EPS-RH-17-100-C-B	1103021000121100	B (with brake)
EPS-RH-17-100-C-N	1103021000120100	N (without brake)
EPS-RH-17-50-C-B	1103020500121100	B (with brake)
EPS-RH-17-50-C-N	1103020500120100	N (without brake)

- Installation Drawing





Item	Name	Units	RH-17	
Reducer Type		-	Harmonic reducer	
Gear Ratio		-	1:50	1:100
Peak Torque (Start &	S stop)	N.m	34	54
Rated Torque		N.m	23	35
Peak Speed		R/Min	60	30
Rated Speed		R/Min	50	25
Peak Current		А	6,3	6,3
Rated Current		А	3,5	3,5
Rated Voltage		V	48	48
Motor Rated Power		W	180	180
Line to line resistant	ce	ohms@20°C	°C 0,77 0,77	
Line to line inductan	ce	mH	0,38 0,38	
Back EMF		Vrms/KRPM	7,30 7,30	
Single Direction Acc	uracy Arc Sec	Arc Sec	40	30
Repetitive Positionin	g Accuracy	Arc Sec	15	10
Encoder Type		Rev	ABS-17bit	ABS-17bit
Hollow Shaft	N (without brake)	mm	18	18
Diameter	B (with brake)	mm	14	14
Inertia	N (without brake)	Kg.m ²	0,05	0,10
mertia	B (with brake)	Kg.m ²	0,07	0,12
Weight	N (without brake)	kg	1,10	1,10
vveigiti	B (with brake)	kg	1,25	1,25

^{*} Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other 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

Motor simplified Name

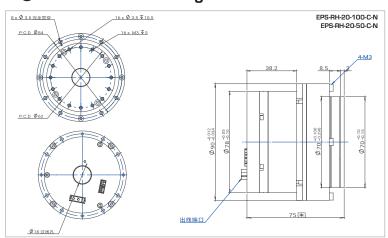
RH-20

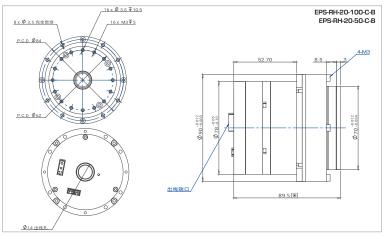


- Single Encoder

Actuator Full Name	Product Code	With Brake / Without Brake
EPS-RH-20-100-C-B	1103031000121100	B (with brake)
EPS-RH-20-100-C-N	1103031000120100	N (without brake)
EPS-RH-20-50-C-B	1103030500121100	B (with brake)
EPS-RH-20-50-C-N	1103030500120100	N (without brake)

Installation Drawing





ltem	Name	Units	RH-20	
Reducer Type		-	Harmonic reducer	
Gear Ratio		-	1:50	1:100
Peak Torque (Start &	& stop)	N.m	56	80
Rated Torque		N.m	34	50
Peak Speed		R/Min	60	30
Rated Speed		R/Min	50	25
Peak Current		А	9,0	9,0
Rated Current		А	5,0	5,0
Rated Voltage		V	48	48
Motor Rated Power		W	250	250
Line to line resistant	ce	ohms@20°C	0,38 0,38	
Line to line inductan	се	mH	0,33 0,33	
Back EMF		Vrms/KRPM	7,00	7,00
Single Direction Acc	uracy Arc Sec	Arc Sec	40	30
Repetitive Positionir	ng Accuracy	Arc Sec	15	10
Encoder Type		Rev	ABS-17bit	ABS-17bit
Hollow Shaft	N (without brake)	mm	18	18
Diameter	B (with brake)	mm	14	14
Inertia	N (without brake)	Kg.m ²	0,07	0,14
THE UIG	B (with brake)	Kg.m ²	0,08	0,16
Weight	N (without brake)	kg	1,45	1,45
vveignic	B (with brake)	kg	1,60	1,60

^{*} Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other 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

Motor simplified Name

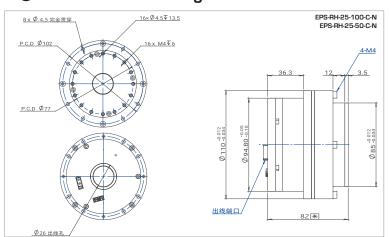
RH-25

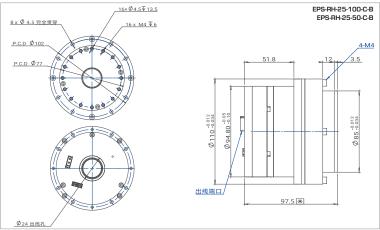


- Single Encoder

Actuator Full Name	Product Code	With Brake / Without Brake
EPS-RH-25-100-C-B	1103041000121100	B (with brake)
EPS-RH-25-100-C-N	1103041000021100	N (without brake)
EPS-RH-25-50-C-B	1103040500121100	B (with brake)
EPS-RH-25-50-C-N	1103040500021100	N (without brake)

Installation Drawing





Item	Name	Units	RH-25	
Reducer Type		-	Harmonic reducer	
Gear Ratio		-	1:50	1:100
Peak Torque (Start &	S stop)	N.m	98	157
Rated Torque		N.m	55	108
Peak Speed		R/Min	45	30
Rated Speed		R/Min	40	25
Peak Current		А	14,0	14,0
Rated Current		А	6,8	6,8
Rated Voltage		V	48	48
Motor Rated Power		W	400	400
Line to line resistand	ce	ohms@20°C 0,23 0,23		0,23
Line to line inductan	ce	mH	0,30 0,30	
Back EMF		Vrms/KRPM	9,80	9,80
Single Direction Acc	uracy Arc Sec	Arc Sec	40	30
Repetitive Positionin	g Accuracy	Arc Sec	15	10
Encoder Type		Rev	ABS-17bit	ABS-17bit
Hollow Shaft	N (without brake)	mm	26	26
Diameter	B (with brake)	mm	24	24
Inertia	N (without brake)	Kg.m ²	0,17	0,35
merua -	B (with brake)	Kg.m ²	0,21	0,44
Weight	N (without brake)	kg	2,30	2,30
vveigiti	B (with brake)	kg	2,82	2,82

^{*} Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other 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

Motor simplified Name

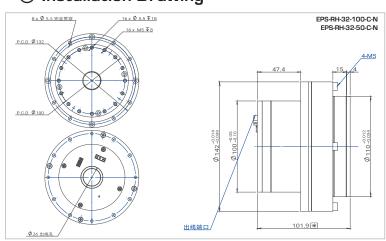
RH-32

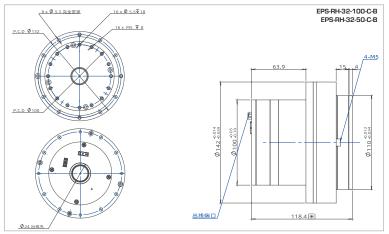


- Single Encoder

Actuator Full Name	Product Code	With Brake / Without Brake
EPS-RH-32-100-C-B	1103051000121100	B (with brake)
EPS-RH-32-100-C-N	1103051000021100	N (without brake)
EPS-RH-32-50-C-B	1103050500121100	B (with brake)
EPS-RH-32-50-C-N	1103050500021100	N (without brake)

-○ Installation Drawing





ltem	Name	Units	RH-32	
Reducer Type		-	Harmonic reducer	
Gear Ratio		-	1:50	1:100
Peak Torque (Start &	S stop)	N.m	216	330
Rated Torque		N.m	105	215
Peak Speed		R/Min	40	20
Rated Speed		R/Min	35	18
Peak Current		А	25,0	25,0
Rated Current		А	11,5	11,5
Rated Voltage		V	48	48
Motor Rated Power		W	700 700	
Line to line resistand	ce	ohms@20°C	0,09 0,09	
Line to line inductan	ce	mH	0,13 0,13	
Back EMF		Vrms/KRPM	8,30 8,30	
Single Direction Acc	uracy Arc Sec	Arc Sec	40	30
Repetitive Positionin	ng Accuracy	Arc Sec	15	10
Encoder Type		Rev	ABS-17bit	ABS-17bit
Hollow Shaft	N (without brake)	mm	26	26
Diameter	B (with brake)	mm	24	24
Inertia	N (without brake)	Kg.m ²	0,53	1,10
IIICI GIA	B (with brake)	Kg.m ²	0,58	1,21
Weight	N (without brake)	kg	4,30	4,30
vveignt	B (with brake)	kg	4,70	4,70

^{*} Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other dissipation methods), the test is performed at the rated speed.

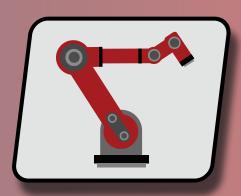
The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor





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