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202306

Push for further intelligentization



Servo Product Brochure

Automation and digitalization solution provider

About us

Flexem Technology is a solution provider of automation-and-digitalization-integrated products. We offer automation and IoT related solutions to both OEM customers and end users in various industries, including HVAC systems, electronic devices, processing and packaging machinery, and natural resources related industries. Our general portfolio includes multiple software, including FM SCADA and IoT gateway, as well as a variety of control products such as PLC, HMI, and Servo.

Our goal is to lead a revolution of mechanical intelligence by providing innovative solutions to automation and IoT related issues. As optimizers, we offer comprehensive solutions for manufacturers of machinery to optimize their production efficiency and reduce the cost of their products.



- Shanghai - HQ, Research & Development Center
- Shenzhen - Production & Logistic Center
- Suzhou - Production & Logistic Center
- Wuhan - Research & Development Center



350+

Supported industrial protocols



5000+

Cases involved & solved



100+

R&D Engineers



800K+

Devices connected



MILESTONE

2014

Dec 2014, our brand-new configuration software, Flexem Studio 1.0, was launched.



2012

Sep 2012, our innovative capacitive industrial HMI was launched.



2010

Nov 2010, Shenzhen production facility was commissioned.

Jun 2010, our first touchscreen-integrated industrial HMI product, FE2000, was launched.



Mar 2010, FLEXEM was founded, and headquartered in Shanghai.

2018

Jan 2018, multiple of our new IoT platforms, including FlexHub and FlexCloud, were released.



2016

Dec 2016, FlexManager software was released.

Nov 2016, FLEXEM was awarded as "Shanghai High-tech Enterprise".



2015

Mar 2015, our FBox, the first IoT gateway in China, was released.



2023



Jun 2023, a series of our Servo products were launched.

Jan 2023, FLEXMATIC was founded in the United States.

2021

Mar 2021, our second R&D center was commissioned in Wuhan.

2019

Jan 2019, our FE6000 HMI with integrated IoT module was released.



Advanced Automation and Information Combined Solution

Machine Automation & IoT Solution

Digital Plant Solution

Remote Equipment Operation & Maintenance Solution

High Performance Servo Drive Solution

Managing

Industrial digitization platform - FlexFusion



- B/S architecture, web browser accessibility
- Data visualization of connected devices
- Support for secondary development
- Cloud data processing & analyzing

Equipment IoT platform - FlexCloud



- Configuration monitoring
- Operational dashboard
- Map monitoring
- Mobile app accessibility
- Data reporting

Monitoring

Industrial SCADA software - FlexSCADA

- Data visualization and 3D presentation
- Support remote installation through LAN or cloud
- Data reporting
- Web browser accessibility



4G, 5G, Ethernet, WiFi, NBIoT



Accessing

FBox-5G



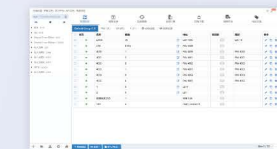
- 5G high-speed internet access
- Multiple data acquisition methods
- Real-time data monitoring Remotely downloadable program

FBox-4G



- Remotely downloadable program
- Multiple data acquisition methods
- Real-time data monitoring

Data Acquisition Gateway for Flexem Devices - FBox



- PLC remote downloading
- Data Configuration
- Firmware upgrade
- Alarm Configuration
- Historical data query
- SIM card management
- Fault diagnosis
- Batch processing

Management Platform for Flexem Terminals - FlexManager

Controlling



FL5 series intelligent PLC

- IIEC61131-3 standard architecture
- Graphical configuration interface
- Ladder diagram, structured text programming language
- Support Flexem IoT platform
- Motion control function
- FSUnified Integrated Engineering Environment



FC5 series PLC

- IEC61131-3 standard architecture
- Graphical configuration interface
- Ladder diagram, structured text programming language
- FSUnified Integrated Engineering Environment



Remote IO

- Blade type remote IO module
- High-speed bus refresh
- Anti-reverse-connection protection
- Built-in gateway function
- Support multiple network protocols

Flexem controller



FPad series intelligent HMI

- Powerful data processing capabilities
- Support multi-screen interaction
- Web browser accessibility
- Easy docking with third-party systems such as MES



7000 series Intelligent HMI

- Built-in IoT
- Support eSim
- 4 core, 10GHz CPU



6000 series IoT HMI

- High definition, high brightness, full-view display
- FLink IoT module
- Built-in IoT

Flexem HMI

Driveing

Universal Servo



- Adopting the most advanced underlying algorithm in Europe, with a speed loop bandwidth up to 3.2 kHz
- Advanced adaptive tuning, adaptive filtering, inertia identification and other advanced functions
- Support multiple control modes such as Analog, Pulse, EtherCat, etc
- Operational power ranges from 33W to 7500 W

Direct Drive Servo



- Adopting advanced algorithm control platform with graphical debugging wizard
- Support multiple encoder protocols such as ABZ encoder, Hall encoder, BISS-C, Endat, Tamagawa, Nikon, etc
- Advanced functions such as flying photo, inertia identification, friction compensation, speed observing, model tracking, etc
- Support multiple phase finding methods such as Hall, position locking, and micro motion
- Power failure protection and precision compensation

Exceptional Performance Within Reach

Flexem rotation servo system is designed with the concept of "easy to use", adopts advanced underlying algorithm platform from Europe, has a variety of advanced functions, such as adaptive filtering, vibration suppression, friction compensation, model tracking, etc., supports analog, pulse train, EtherCAT bus and other command control methods, and provides effective solutions for semiconductor, 3C, laser, packaging, printing, textile and other industries.



Velocity frequency response of 3.5 kHz

Application

In the solidification, testing, sorting, and other processes in the semiconductor industry, it can effectively enhance the dynamic response of the mechanism and shortens the working cycle.

In the metal processing, it can effectively improve the stability of the motor's operating speed and the smoothness of the machined surface.

3.5kHz



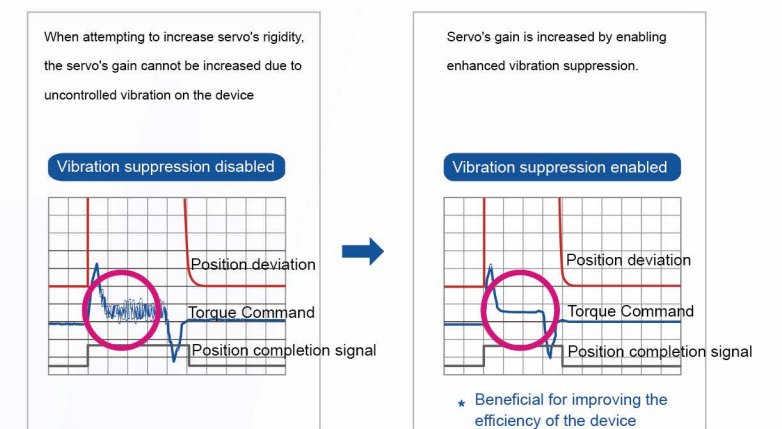
Adaptive filter & Vibration suppression

Description

The servo can automatically identify the vibration frequency component of the system according to machinal load's vibration and suppress the vibration of multiple groups of frequency up to tens to thousands Hz.

Application

In the field of industrial robotics, it can effectively suppress the residual vibration of the front end of boom or the equipment body, and greatly reduce the time spent on positioning process.



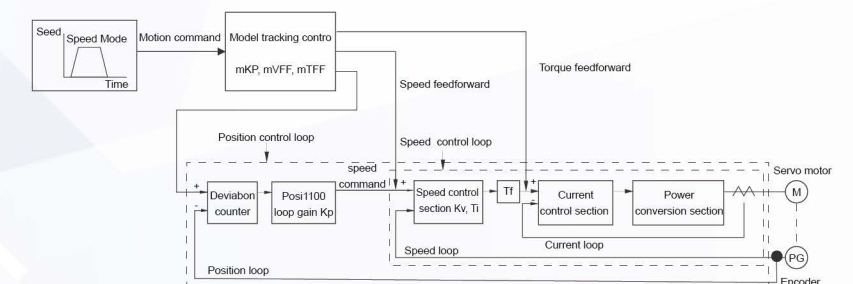
Model tracking

Description

With its highly integrated intelligent tuning function, it only needs to adjust the "model feedforward percentage" parameter to modify the load positioning smoothness, and the "model cutoff frequency" parameter to effectively reduce the tuning time and effectively suppress the vibration.

Application

In the fields in need of high-speed and high-precision, such as chip sorting, solid crystal swing arm, etc., it can greatly reduce the difficulty of debugging process, shorten the debugging time, and greatly improve the versatility of parameters and reduce after-sales maintenance costs.



Rotation servo drive

Naming convention

EAS-R1-PA2R8-A00

① ② ③ ④ ⑤ ⑥

Product category

Codename	Describe
EAS	Servo drive

Matched motor

Codename	Describe
R1	Universal rotation servo
R3	High-performance rotation servo

Control mode

Codename	Describe
P	Pulse
N	EtherCAT bus

Software configuration

Codename	Describe
Default	Standard software
01	01#Custom software
02	02#Custom software
.....

Hardware configuration

Codename	Describe
Default	Standard hardware
B	Custom hardware

Voltage level / Rated output current

Codename	Input power	Describe	Rated power
A1R1	Single-phase 220V	1.1A	100W
A1R6		1.6A	200W
A2R8		2.8A	400W
A5R5		5.5A	750W
C7R6	Three-phase 220V	7.6A	1000W
C012		12A	1500W
T3R5	Three-phase 380V	3.5A	1000W
T5R4		5.4A	1500W
T8R4		8.4A	2000W
T012		12A	3000W
T017		17A	4400W
T021		21A	5500W
T026	26A	7500W	

Rotation servo electrical specification

Drive model EAS-**-*0000-***	A1R1	A1R6	A2R8	A5R5	C7R6	C012
Continuous output current (Arms)	1.1	1.6	2.8	5.5	7.6	12.0
Maximum output current (Arms)	3.9	5.9	10.1	16.9	23.0	28.0
Input voltage specifications	Single-phase AC200V-240V, -10%~ 10%, 50/60Hz				Three-phase AC200V-240V, -10%~ 10%, 50/60Hz	
Rated power (W)	100	200	400	750	1000	1500
Brake handling function	External braking resistor				Built-in braking resistor	
Built-in braking resistor resistance (Ω)	-	-	-	50	25	25
Built-in braking resistor capacity (W)	-	-	-	50	80	80
Minimum external braking resistor resistance (Ω)	40	40	40	40	20	15
Installation size	SIZE-A	SIZE-A	SIZE-A	SIZE-B	SIZE-D	SIZE-D

Drive model EAS-**-*0000-***	T3R5	T5R4	T8R4	T012	T017	T021	T026
Continuous output current (Arms)	3.5	5.4	8.4	12	17.0	21.0	26.0
Maximum output current (Arms)	8.5	14.0	20.0	24.0	42.5	52.5	65.0
Input voltage specifications	Three-phase AC380V-440V, -10%~ 10%, 50/60Hz						
Rated power (W)	1000	1500	2000	3000	4400	5500	7500
Brake handling function	Built-in braking resistor						
Built-in braking resistor resistance (Ω)	100	100	50	50	35	35	35
Built-in braking resistor capacity (W)	80	80	80	80	100	100	100
Minimum external braking resistor resistance (Ω)	80	60	45	40	35	25	25
Installation size	SIZE-D	SIZE-D	SIZE-D	SIZE-D	SIZE-E	SIZE-E	SIZE-E

Flexem rotation servo model

Model	Description
EAS-R1-PA1R1	100W-Universal pulse servo drive
EAS-R1-PA1R6	200W-Universal pulse servo drive
EAS-R1-PA2R8	400W-Universal pulse servo drive
EAS-R1-PA5R5	750W-Universal pulse servo drive
EAS-R1-PA5R5-B01	1000W-Universal pulse servo drive
EAS-R1-PC7R6	1000W-Universal pulse servo drive
EAS-R1-PC012	1500W-Universal pulse servo drive
EAS-R1-PT3R5	1000W-Universal pulse servo drive
EAS-R1-PT5R4	1500W-Universal pulse servo drive
EAS-R1-PT8R4	2000W-Universal pulse servo drive
EAS-R1-PT012	3000W-Universal pulse servo drive
EAS-R1-PT017	4400W-Universal pulse servo drive
EAS-R1-PT021	5500W-Universal pulse servo drive
EAS-R1-PT026	7500W-Universal pulse servo drive
EAS-R1-NA1R1	100W-Universal EtherCAT bus servo drive
EAS-R1-NA1R6	200W-Universal EtherCAT bus servo drive
EAS-R1-NA2R8	400W-Universal EtherCAT bus servo drive
EAS-R1-NA5R5	750W-Universal EtherCAT bus servo drive
EAS-R1-NA5R5-B01	1000W-Universal EtherCAT bus servo drive
EAS-R1-NC7R6	1000W-Universal EtherCAT bus servo drive
EAS-R1-NC012	1500W-Universal EtherCAT bus servo drive
EAS-R1-NT3R5	1000W-Universal EtherCAT bus servo drive
EAS-R1-NT5R4	1500W-Universal EtherCAT bus servo drive
EAS-R1-NT8R4	2000W-Universal EtherCAT bus servo drive
EAS-R1-NT012	3000W-Universal EtherCAT bus servo drive
EAS-R1-NT017*	4400W-Universal EtherCAT bus servo drive
EAS-R1-NT021*	5500W-Universal EtherCAT bus servo drive
EAS-R1-NT026*	7500W-Universal EtherCAT bus servo drive

Note:

1. EAS-R1-**** supports 17-Bit magnetic encoder motor.
2. Model 4400W, 5500W, and 7500W are upcoming products.

Flexem rotation servo model

Model	Description
EAS-R3-PA1R1	100W-High performance pulse servo drive
EAS-R3-PA1R6	200W-High performance pulse servo drive
EAS-R3-PA2R8	400W-High performance pulse servo drive
EAS-R3-PA5R5	750W-High performance pulse servo drive
EAS-R3-PA5R5-B01	1000W-High performance pulse servo drive
EAS-R3-PC7R6	1000W-High performance pulse servo drive
EAS-R3-PC012	1500W-High performance pulse servo drive
EAS-R3-PT3R5	1000W-High performance pulse servo drive
EAS-R3-PT5R4	1500W-High performance pulse servo drive
EAS-R3-PT8R4	2000W-High performance pulse servo drive
EAS-R3-PT012	3000W-High performance pulse servo drive
EAS-R3-PT017	4400W-High performance pulse servo drive
EAS-R3-PT021	5500W-High performance pulse servo drive
EAS-R3-PT026	7500W-High performance pulse servo drive
EAS-R3-NA1R1	100W-High performance EtherCAT bus servo drive
EAS-R3-NA1R6	200W-High performance EtherCAT bus servo drive
EAS-R3-NA2R8	400W-High performance EtherCAT bus servo drive
EAS-R3-NA5R5	750W-High performance EtherCAT bus servo drive
EAS-R3-NA5R5-B01	1000W-High performance EtherCAT bus servo drive
EAS-R3-NC7R6	1000W-High performance EtherCAT bus servo drive
EAS-R3-NC012	1500W-High performance EtherCAT bus servo drive
EAS-R3-NT3R5	1000W-High performance EtherCAT bus servo drive
EAS-R3-NT5R4	1500W-High performance EtherCAT bus servo drive
EAS-R3-NT8R4	2000W-High performance EtherCAT bus servo drive
EAS-R3-NT012	3000W-High performance EtherCAT bus servo drive
EAS-R3-NT017*	4400W-High performance EtherCAT bus servo drive
EAS-R3-NT021*	5500W-High performance EtherCAT bus servo drive
EAS-R3-NT026*	7500W-High performance EtherCAT bus servo drive

Note:

1. EAS-R3-**** supports 23-Bit magnetic encoder motor.
2. Model 4400W, 5500W, and 7500W are upcoming products.

Rotating motor

High-performance: high-speed / high-overload

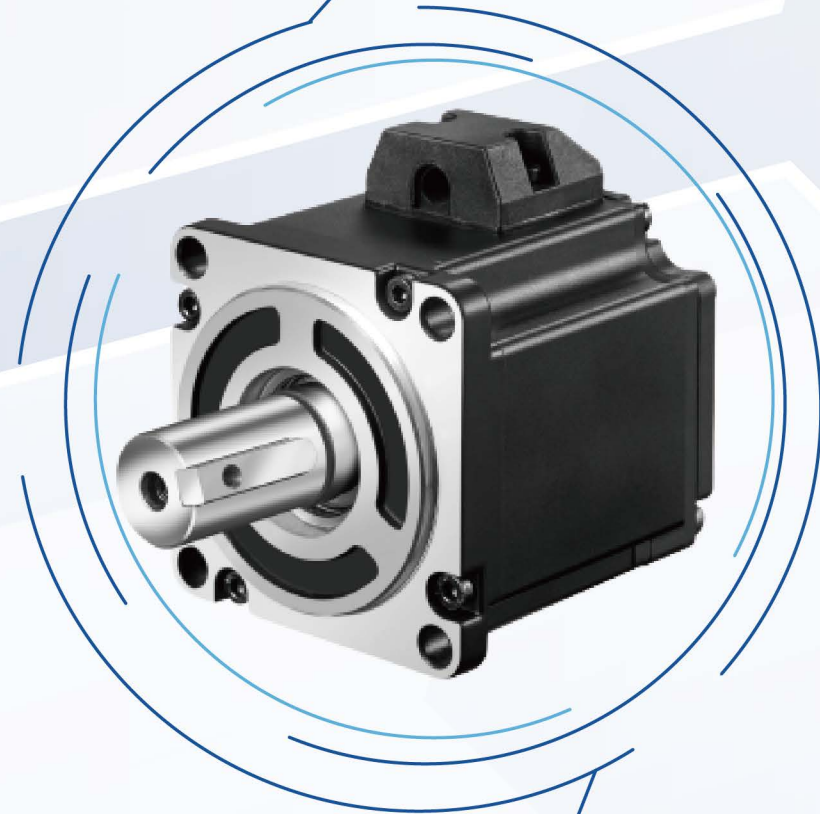
Maximum rotational speed: 6000 rpm

The maximum torque of the motor is 3.5 times of the rated torque

High-precision-17BIT/23BIT encoder

With the 17-bit single-turn absolute magnetic encoder, it can operate in oily environment for a significant period of time.

With the 23-bit multi-turn absolute optical encoder, its repeatable positioning accuracy can reach +/- 1 arcsec.



High protection level - IP65

Suitable for operating in harsh environments, with EAM-W series waterproof motor, protection level up to IP65

Waterproof level:

Protected against low-pressure spray from all angles

Protection level against physical contact:

Exceptional dustproof structure, preventing dust from entering

Naming convention

EAM-WH-04 30 A - U 3 0 - X X

1 2 3 4 5 6 7 8 9 10

Product category

Codename	Describe
EAM	Rotating motor

Series

Codename	Describe
W	W-series

Inertia

Codename	Describe
F	Small inertia
G	Medium inertia
H	Large inertia

Rated power (W)

Codename	Describe
A5	50
01	100
02	200
04	400
06	600
08	750
09	850
10	1000
13	1300
15	1500
18	1800
20	2000
25	2500
29	2900
30	3000
44	4400
55	5500
75	7500

Rated rotational speed (rpm)

Codename	Describe
15	1500
20	2000
25	2500
30	3000

Hardware configuration

Codename	Describe
Default	Standard hardware
XX	Custom hardware

Oil seal/Brake

Codename	Describe
0	has oil seal but no brake
1	has no oil seal and brake
2	has oil seal and brake
4	has no oil seal but brake

Axis configuration

Codename	Describe
1	Optical axis
2	Solid and with keys
3	Solid, with keys and threaded holes
4	Solid and with threaded holes

Encoder type

Codename	Describe
2	17BIT multi-turn absolute encoder
3	17BIT single-turn absolute encoder
U	23BIT multi-turn absolute encoder

Input voltage

Codename	Describe
A	AC220V
T	AC380V

Servo motor parameters

Model	Flange Dimensions	Rated power (W)	Rated torque (Nm)	Max. torque (Nm)	Rated current (Arms)	Rated rotational speed (rpm)	Max. rotational speed (rpm)	Rotational inertia $\text{kg}\cdot\text{m}^2\times 10^{-4}$	Voltage (V)
EAM-WH-A530A-□3▲	40	50	0.16	0.48	0.6	3000	6000	0.035 (0.038)	220
EAM-WH-0130A-□3▲	40	100	0.32	0.96	1	3000	6000	0.053 (0.056)	220
EAM-WH-0230A-□3▲	60	200	0.64	1.92	1.4	3000	6000	0.29 (0.32)	220
EAM-WH-0430A-□3▲	60	400	1.27	3.81	2.8	3000	6000	0.53 (0.56)	220
EAM-WH-0830A-□3▲	80	750	2.4	7.2	3.8	3000	6000	1.62 (1.72)	220
EAM-WH-1030A-□3▲	80	1000	3.2	9.6	5.5	3000	6000	2.1 (2.2)	220
EAM-WG-1230A-□3▲	110	1200	4	12	5	3000	3500	7.3 (7.4)	220
EAM-WH-1530A-□3▲	110	1500	5	15	6	3000	3500	9.2 (9.3)	220
EAM-WH-1830A-□3▲	110	1800	6	18	7.7	3000	3500	10.8 (10.9)	220
EAM-WG-0915A-□3▲	130	850	5.39	16.17	6.9	1500	3000	10.9 (12.13)	220
EAM-WG-1315A-□3▲	130	1300	8.34	25.02	10.7	1500	3000	16.9 (18.13)	220
EAM-WG-1815A-□3▲	130	1800	11.5	28.7	13.8	1500	3000	21.4 (22.63)	220
EAM-WG-0915T-□3▲	130	850	5.39	16.17	4	1500	3000	10.9 (12.13)	380
EAM-WG-1315T-□3▲	130	1300	8.34	25.02	6	1500	3000	16.9 (18.13)	380
EAM-WG-1815T-□3▲	130	1800	11.5	34.5	8.5	1500	3000	21.4 (22.63)	380
EAM-WG-3030T-□3▲	130	3000	10	23	8	3000	3500	25.5 (27)	380
EAM-WG-2915T-□3▲	180	2900	18.6	55.8	11.9	1500	3000	62.5 (69.5)	380
EAM-WG-4415T-□3▲	180	4400	28.4	85.2	16.5	1500	3000	88.5 (94.5)	380
EAM-WG-5515T-□3▲	180	5500	35	105	20.8	1500	3000	114.4 (120.4)	380
EAM-WG-7515T-□3▲	180	7500	48	120	26	1500	3000	136.6 (142.6)	380

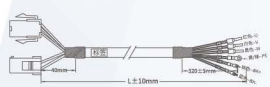

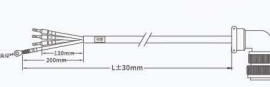

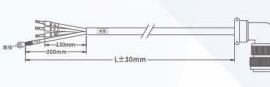

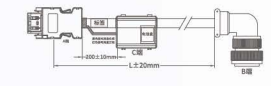
Notice: When □ is U: Supports 23bit optical encoder, EAS-R3 driver required
 When □ is 3: Supports 17-bit magnetic encoder, EAS-R1 driver required
 When △ is 0: The motor does not have a holding brake
 When △ is 2: The motor has a holding brake

Drive and motor matching table

Flange Dimensions	Power (W)	Motor	Driver
40	50	EAM-WH-A530A-□3▲	EAS-R*-*A1R1
	100	EAM-WH-0130A-□3▲	EAS-R*-*A1R1
60	200	EAM-WH-0230A-□3▲	EAS-R*-*A1R6
	400	EAM-WH-0430A-□3▲	EAS-R*-*A2R8
80	750	EAM-WH-0830A-□3▲	EAS-R*-*A5R5
	1000	EAM-WH-1030A-□3▲	EAS-R*-*A5R5-B01
110	1200	EAM-WG-1230A-□3▲	EAS-R*-*C7R6
	1500	EAM-WH-1530A-□3▲	EAS-R*-*C012
	1800	EAM-WH-1830A-□3▲	EAS-R*-*C012
130	850	EAM-WG-0915A-□3▲	EAS-R*-*C7R6
	1300	EAM-WG-1315A-□3▲	EAS-R*-*C012
	1800	EAM-WG-1815A-□3▲	EAS-R*-*C012
	850	EAM-WG-0915T-□3▲	EAS-R*-*T5R4
	1300	EAM-WG-1315T-□3▲	EAS-R*-*T5R4
	1800	EAM-WG-1815T-□3▲	EAS-R*-*T8R4
180	3000	EAM-WG-3030T-□3▲	EAS-R*-*T012
	2900	EAM-WG-2915T-□3▲	EAS-R*-*T012
	4400	EAM-WG-4415T-□3▲	EAS-R*-*T017
	5500	EAM-WG-5515T-□3▲	EAS-R*-*T021
	7500	EAM-WG-7515T-□3▲	EAS-R*-*T026

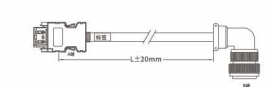
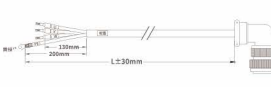
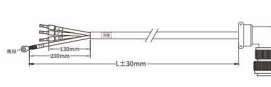
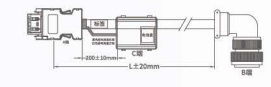
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 When □ is 3: Supports 17-bit magnetic encoder, EAS-R1 driver required
 When △ is 0: The motor does not have a holding brake
 When △ is 2: The motor has a holding brake

Cables and other accessories

Flange Dimensions	Motor	Cables	Motor Type	Length (L)	Cable Model	Illustration			
40 60 80	EAM-WH-A530A-□3▲	Power cable	Motor with brake	3m	EL-MBA00-03-E (-T)				
	EAM-WH-0130A-□3▲			5m	EL-MBA00-05-E (-T)				
	EAM-WH-0230A-□3▲			10m	EL-MBA00-10-E (-T)				
	EAM-WH-0430A-□3▲		Motor without brake	3m	EL-MMA00-03-E (-T)				
	EAM-WH-0830A-□3▲			5m	EL-MMA00-05-E (-T)				
	EAM-WH-1030A-□3▲			10m	EL-MMA00-10-E (-T)				
	EAM-WH-A530A-□3▲	Encoder cable	single-turn absolute encoder	3m	EL-PI700-03-E (-T)				
	EAM-WH-0130A-□3▲			5m	EL-PI700-05-E (-T)				
	EAM-WH-0230A-□3▲			10m	EL-PI700-10-E (-T)				
	EAM-WH-0430A-□3▲		multi-turn absolute encoder (with battery)	3m	EL-PA700-03-E (-T)				
	EAM-WH-0830A-332			5m	EL-PA700-05-E (-T)				
	EAM-WH-1030A-□3▲			10m	EL-PA700-10-E (-T)				
	110 130	EAM-WG-1230A-□3▲	Power cable	Motor with brake	3m	EL-MMC01-03-E (-T)			
Power cable									
EL-MSA02-03-E (-T)									
Brake cable									
5m					EL-MMC01-05-E (-T)				
					Power cable				
		EL-MSA02-05-E (-T)							
Brake cable									
10m		EL-MMC01-10-E (-T)							
		Power cable							
		EL-MSA02-10-E (-T)							
Brake cable									
Motor without brake		3m	EL-MMC01-03-E (-T)						
			5m		EL-MMC01-05-E (-T)				
					10m	EL-MMC01-10-E (-T)			
		EAM-WG-0915A-□3▲				Power cable	Motor with brake	3m	EL-MBC01-03-E(-T)
			Brake and Power cable						
			EL-MBC01-05-E (-T)						
5m	Brake and Power cable								
	10m	EL-MBC01-10-E (-T)							
		Brake and Power cable							
Motor without brake		3m	EL-MMC01-03-E (-T)						
	5m		EL-MMC01-05-E (-T)						
			10m		EL-MMC01-10-E (-T)				
		EAM-WG-1815T-□3▲			Encoder cable	single-turn absolute encoder	3m	EL-PI701-03-E (-T)	
	5m							EL-PI701-05-E (-T)	
			10m					EL-PI701-10-E (-T)	
multi-turn absolute encoder (with battery)		3m		EL-PA701-03-E (-T)					
	5m			EL-PA701-05-E (-T)					
			10m	EL-PA701-10-E (-T)					

Note: -E stands for standard cable, -T stands for flexible cable

Cables and other accessories

Flange Dimensions	Motor	Cables	Motor Type	Length (L)	Cable Model	Illustration			
110 130	EAM-WG-1230A-□3▲	Encoder cable	single-turn absolute encoder	3m	EL-PI701-03-E (-T)				
	EAM-WH-1530A-□3▲			5m	EL-PI701-05-E (-T)				
	EAM-WH-1830A-□3▲			10m	EL-PI701-10-E (-T)				
	EAM-WG-0915A-□3▲			multi-turn absolute encoder (with battery)	3m		EL-PA701-03-E (-T)		
	EAM-WG-1315A-□3▲				5m		EL-PA701-05-E (-T)		
	EAM-WG-1815A-□3▲				10m		EL-PA701-10-E (-T)		
	EAM-WG-0915T-□3▲								
	EAM-WG-1315T-□3▲								
	EAM-WG-1815T-□3▲								
	180		EAM-WG-2915T-□3▲	Power cable	Motor with brake	3m	EL-MMC02-03-E (-T)		
							Power cable		
							EL-MSA01-03-E (-T)		
						Brake cable			
						5m	EL-MMC02-05-E (-T)		
Power cable									
EL-MSA01-05-E (-T)									
Brake cable									
10m		EL-MMC02-10-E (-T)							
		Power cable							
		EL-MSA01-10-E (-T)							
Brake cable									
Motor without brake		3m	EL-MMC02-03-E (-T)						
			5m		EL-MMC02-05-E (-T)				
					10m	EL-MMC02-10-E (-T)			
		EAM-WG-4415T-□3▲				Encoder cable	single-turn absolute encoder	3m	EL-PI701-03-E (-T)
			5m						EL-PI701-05-E (-T)
					10m				EL-PI701-10-E (-T)
multi-turn absolute encoder (with battery)	3m	EL-PA701-03-E (-T)							
		5m	EL-PA701-05-E (-T)						
			10m		EL-PA701-10-E (-T)				

Note: -E stands for standard cable, -T stands for flexible cable.

Accessories for servo cable

Flange Dimensions	Attachment Type		Attachment Model	Illustration
40/60/80	Combined attachment for motor without holding brake	EU-T10	EU-M00	
			EU-P00	
	Combined attachment for motor with holding brake	EU-T11	EU-M00	
			EU-P00	
			EU-M01	
	Connector for power cable		EU-M00	
	Connector for brake cable		EU-M01	
Connector for encoder cable AMP-9P		EU-P00		
Connector for encoder cable 1394-10P		EU-P02		
110/130	Connector for power cable		EU-M02	
180	Connector for power cable		EU-M03	
180	Connector for brake cable		EU-M04	
110/130	Connector for brake cable		EU-M05	
110/130/180	Connector for aviation plug-in encoder cable		EU-P01	
	Accessories for battery		EU-B00	
Used for 130 flange motors with holding brake only: WG-0915 / WG-1315 / WG-1815	Power cable plug-in attachment (7-core with holding brake)		EU-M06	

Accessories for communication cable

Model	Description	Illustration
EL-CA702-01-E	Communication cable for connecting servo drive and PC	
EL-CN701-A3-E	Communication cable for connecting multiple servo drives (0.3m)	

Accessories for control cable

Model	Description	Illustration
EL-CA701-01-E	CN1 input and output signal cable (1m)	
EU-C01	CN1 terminal accessories	

DD servo drive

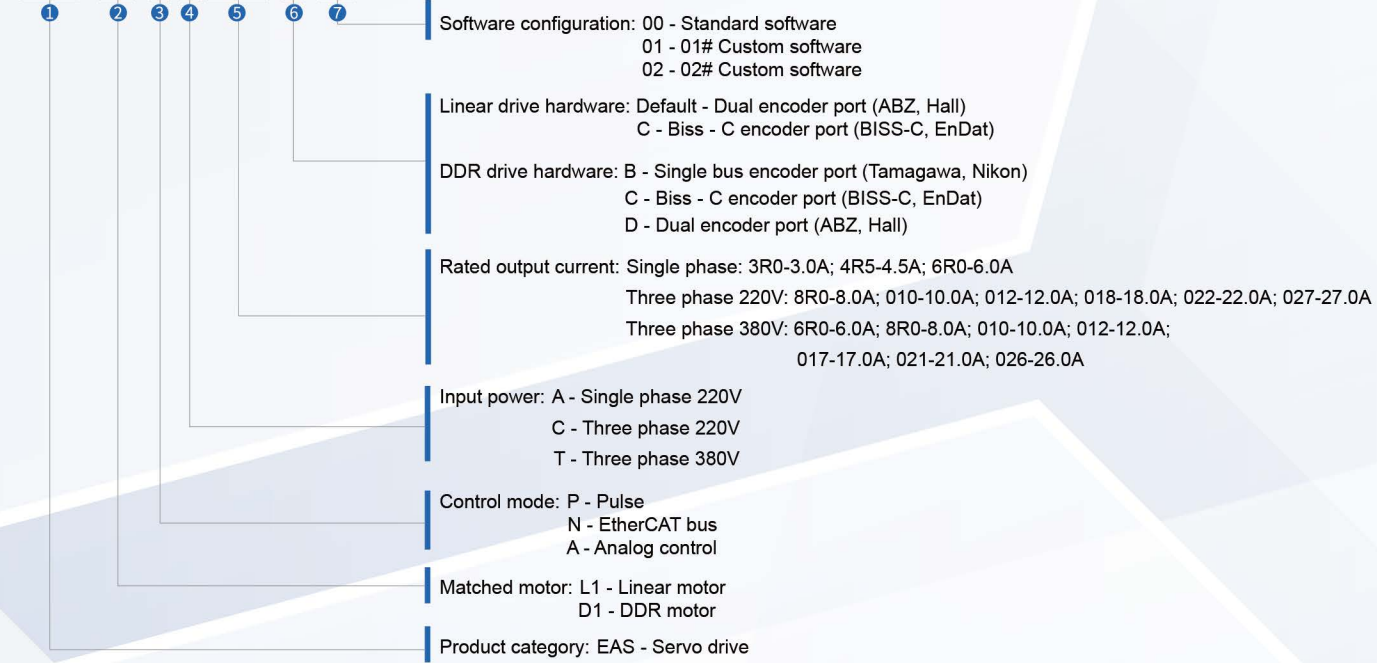
Flexem direct-drive servo drive, using advanced control algorithms, focusing on direct-drive motor application, and equipped with graphics debugging assistant that simplifies debugging operations. It supports ABZ incremental encoder, UVW Hall sensor, Biss-C absolute encoder, EnDat absolute encoder, Tamagawa communication encoder, Nikon communication encoder, etc.



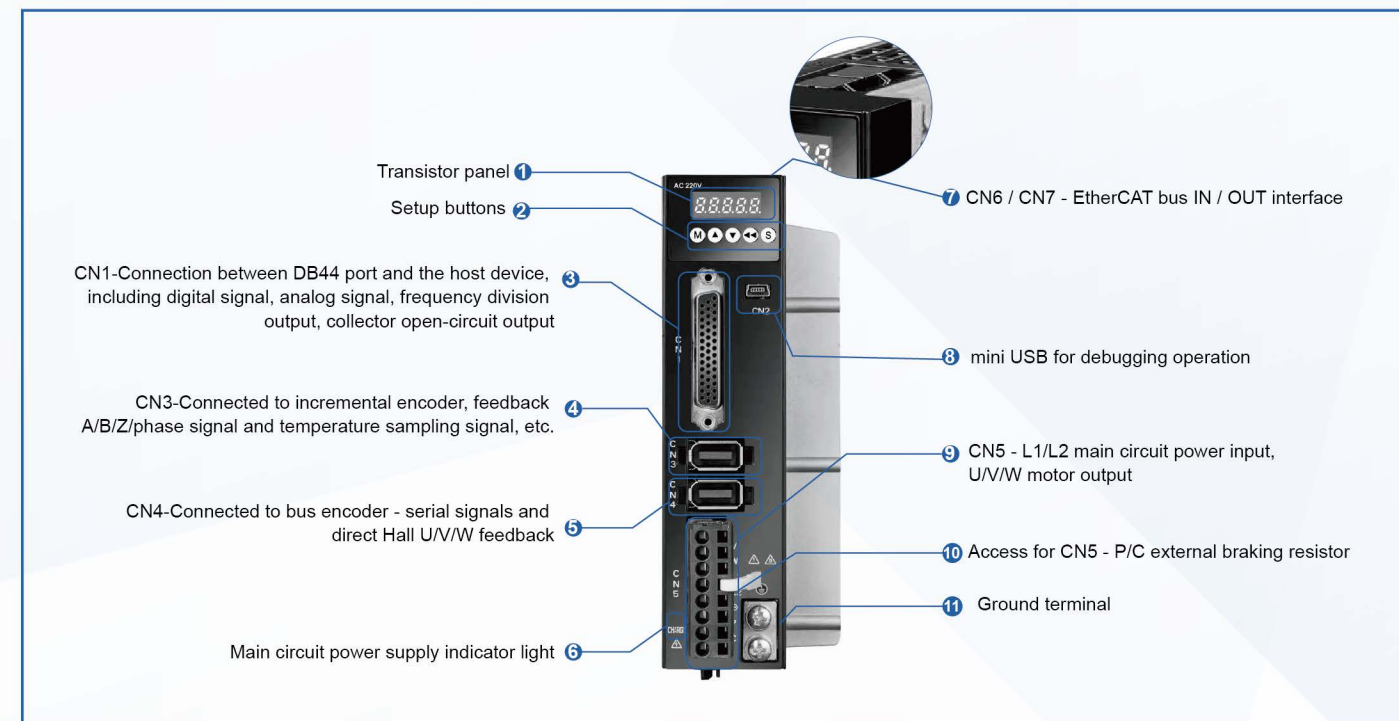
DD Servo Drive

Naming convention

EAS-L1-PA3R0-C00



Electrical connection



Product specification

EAS-**-*□□□□-***		A3R0	A4R5	A6R0
Input power supply (V)		Single phase 220		
Rated current (Arms)		3	4.5	6
Peak current (Arms)		10	13.5	18
Output power (W)	Single phase	400	600	800
	Three phase	-	-	-
Debug port		mini USB		
Input terminal		8*DI, 1*AI (P-12bit/A-16bit), Collector input: 200kpps, Differential input: 4Mpps		
Output terminal		5*DO, Differential frequency division output: 4Mpps		
Encoder interface		First interface: ABZ incremental encoder, motor temperature sensor Second interface: Hall sensor, SSI encoder (Biss-C, EnDat), asynchronous communication encoder (Nikon, Tamogawa)		
Braking resistor		External		
Installation size		SIZE-A	SIZE-A	SIZE-B

EAS-**-*□□□□-***		C8R0	C010	C012	C018	C022	C027
Input power supply (V)		Three phase 220					
Rated current (Arms)		8	10	12	18	22	27
Peak current (Arms)		23	27	30	45	55	67.5
Output power (W)	Single phase	850	980	1150	1750	2100	3500
	Three phase	1200	1400	1600	2500	3000	5000
Debug port		mini USB					
Input terminal		8*DI, 1*AI (P-12bit/A-16bit), Collector input: 200kpps, Differential input: 4Mpps					
Output terminal		5*DO, Differential frequency division output: 4Mpps					
Encoder interface		First interface: ABZ incremental encoder, motor temperature sensor Second interface: Hall sensor, SSI encoder (Biss-C, EnDat), asynchronous communication encoder (Nikon, Tamogawa)					
Braking resistor		Built-in					
Installation size		SIZE-D	SIZE-D	SIZE-D	SIZE-E	SIZE-E	SIZE-E

EAS-**-*□□□□-***		T6R0	T8R0	T010	T012	T017*	T021*	T026*
Input power supply (V)		Three phase 380						
Rated current (Arms)		6	8	10	12	17	21	26
Peak current (Arms)		15	20	21	23	42.5	52.5	65
Output power (W)	Single phase	1050	1400	1750	2100	3150	3850	5250
	Three phase	1500	2000	2500	3000	4500	5500	7500
Debug port		mini USB						
Input terminal		8*DI, 1*AI (P-12bit/A-16bit), Collector input: 200kpps, Differential input: 4Mpps						
Output terminal		5*DO, Differential frequency division output: 4Mpps						
Encoder interface		First interface: ABZ incremental encoder, motor temperature sensor Second interface: Hall sensor, SSI encoder (Biss-C, EnDat), asynchronous communication encoder (Nikon, Tamogawa)						
Braking resistor		Built-in						
Installation size		SIZE- D	SIZE- D	SIZE- D	SIZE- D	SIZE-E	SIZE-E	SIZE-E







Note: 4500W, 5500W, and 7500W are upcoming product models.

DDL Servo drive parameters

Model	Motor type	Control mode	Input power supply (v)	Continuous current (A)	Peak current (A)	Output power (W)		Installation size	Encoder type
						Single phase	Three phase		
EAS-L1-PA3R0-C00	Linear motor	Pulse	Single phase 220	3.0	10	400	-	SIZE-A	BISS-C, EnDat
EAS-L1-PA4R5-C00	Linear motor	Pulse	Single phase 220	4.5	13.5	600	-	SIZE-A	BISS-C, EnDat
EAS-L1-PA6R0-C00	Linear motor	Pulse	Single phase 220	6.0	18	800	-	SIZE-B	BISS-C, EnDat
EAS-L1-PC8R0-C00	Linear motor	Pulse	Three phase 220	8.0	23	850	1200	SIZE-D	BISS-C, EnDat
EAS-L1-PC010-C00	Linear motor	Pulse	Three phase 220	10.0	27	980	1400	SIZE-D	BISS-C, EnDat
EAS-L1-PC012-C00	Linear motor	Pulse	Three phase 220	12.0	30	1150	1600	SIZE-D	BISS-C, EnDat
EAS-L1-PC018-C00	Linear motor	Pulse	Three phase 220	18.0	45	1750	2500	SIZE-E	BISS-C, EnDat
EAS-L1-PC022-C00	Linear motor	Pulse	Three phase 220	22.0	55	2100	3000	SIZE-E	BISS-C, EnDat
EAS-L1-PC027-C00	Linear motor	Pulse	Three phase 220	27.0	67.5	3500	5000	SIZE-E	BISS-C, EnDat
EAS-L1-PT6R0-C00	Linear motor	Pulse	Three phase 380	6.0	15	1050	1500	SIZE-D	BISS-C, EnDat
EAS-L1-PT8R0-C00	Linear motor	Pulse	Three phase 380	8.0	20	1400	2000	SIZE-D	BISS-C, EnDat
EAS-L1-PT010-C00	Linear motor	Pulse	Three phase 380	10.0	21	1750	2500	SIZE-D	BISS-C, EnDat
EAS-L1-PT012-C00	Linear motor	Pulse	Three phase 380	12.0	23	2100	3000	SIZE-D	BISS-C, EnDat
EAS-L1-PT017-C00	Linear motor	Pulse	Three phase 380	17.0	42.5	3150	4500	SIZE-E	BISS-C, EnDat
EAS-L1-PT021-C00	Linear motor	Pulse	Three phase 380	21.0	52.5	3850	5500	SIZE-E	BISS-C, EnDat
EAS-L1-PT026-C00	Linear motor	Pulse	Three phase 380	26.0	65	5250	7500	SIZE-E	BISS-C, EnDat
EAS-L1-PA3R0	Linear motor	Pulse	Single phase 220	3.0	10	400	-	SIZE-A	ABZ incremental, Hall
EAS-L1-PA4R5	Linear motor	Pulse	Single phase 220	4.5	13.5	600	-	SIZE-A	ABZ incremental, Hall
EAS-L1-PA6R0	Linear motor	Pulse	Single phase 220	6.0	18	800	-	SIZE-B	ABZ incremental, Hall
EAS-L1-PC8R0	Linear motor	Pulse	Three phase 220	8.0	23	850	1200	SIZE-D	ABZ incremental, Hall
EAS-L1-PC010	Linear motor	Pulse	Three phase 220	10.0	27	980	1400	SIZE-D	ABZ incremental, Hall
EAS-L1-PC012	Linear motor	Pulse	Three phase 220	12.0	30	1150	1600	SIZE-D	ABZ incremental, Hall
EAS-L1-PC018	Linear motor	Pulse	Three phase 220	18.0	45	1750	2500	SIZE-E	ABZ incremental, Hall
EAS-L1-PC022	Linear motor	Pulse	Three phase 220	22.0	55	2100	3000	SIZE-E	ABZ incremental, Hall
EAS-L1-PC027	Linear motor	Pulse	Three phase 220	27.0	67.5	3500	5000	SIZE-E	ABZ incremental, Hall
EAS-L1-PT6R0	Linear motor	Pulse	Three phase 380	6.0	15	1050	1500	SIZE-D	ABZ incremental, Hall
EAS-L1-PT8R0	Linear motor	Pulse	Three phase 380	8.0	20	1400	2000	SIZE-D	ABZ incremental, Hall
EAS-L1-PT010	Linear motor	Pulse	Three phase 380	10.0	21	1750	2500	SIZE-D	ABZ incremental, Hall
EAS-L1-PT012	Linear motor	Pulse	Three phase 380	12.0	23	2100	3000	SIZE-D	ABZ incremental, Hall
EAS-L1-PT017	Linear motor	Pulse	Three phase 380	17.0	42.5	3150	4500	SIZE-E	ABZ incremental, Hall
EAS-L1-PT021	Linear motor	Pulse	Three phase 380	21.0	52.5	3850	5500	SIZE-E	ABZ incremental, Hall
EAS-L1-PT026	Linear motor	Pulse	Three phase 380	26.0	65	5250	7500	SIZE-E	ABZ incremental, Hall

Model	Motor type	Control mode	Input power supply (v)	Continuous current (A)	Peak current (A)	Output power (W)		Installation size	Encoder type
						Single phase	Three phase		
EAS-L1-NA3R0-C00	Linear motor	EtherCAT bus	Single phase 220	3.0	10	400	-	SIZE-A	BISS-C, EnDat
EAS-L1-NA4R5-C00	Linear motor	EtherCAT bus	Single phase 220	4.5	13.5	600	-	SIZE-A	BISS-C, EnDat
EAS-L1-NA6R0-C00	Linear motor	EtherCAT bus	Single phase 220	6.0	18	800	-	SIZE-B	BISS-C, EnDat
EAS-L1-NC8R0-C00	Linear motor	EtherCAT bus	Three phase 220	8.0	23	850	1200	SIZE-D	BISS-C, EnDat
EAS-L1-NC010-C00	Linear motor	EtherCAT bus	Three phase 220	10.0	27	980	1400	SIZE-D	BISS-C, EnDat
EAS-L1-NC012-C00	Linear motor	EtherCAT bus	Three phase 220	12.0	30	1150	1600	SIZE-D	BISS-C, EnDat
EAS-L1-NC018-C00	Linear motor	EtherCAT bus	Three phase 220	18.0	45	1750	2500	SIZE-E	BISS-C, EnDat
EAS-L1-NC022-C00	Linear motor	EtherCAT bus	Three phase 220	22.0	55	2100	3000	SIZE-E	BISS-C, EnDat
EAS-L1-NC027-C00	Linear motor	EtherCAT bus	Three phase 220	27.0	67.5	3500	5000	SIZE-E	BISS-C, EnDat
EAS-L1-NT6R0-C00	Linear motor	EtherCAT bus	Three phase 380	6.0	15	1050	1500	SIZE-D	BISS-C, EnDat
EAS-L1-NT8R0-C00	Linear motor	EtherCAT bus	Three phase 380	8.0	20	1400	2000	SIZE-D	BISS-C, EnDat
EAS-L1-NT010-C00	Linear motor	EtherCAT bus	Three phase 380	10.0	21	1750	2500	SIZE-D	BISS-C, EnDat
EAS-L1-NT012-C00	Linear motor	EtherCAT bus	Three phase 380	12.0	23	2100	3000	SIZE-D	BISS-C, EnDat
EAS-L1-NT017-C00	Linear motor	EtherCAT bus	Three phase 380	17.0	42.5	3150	4500	SIZE-E	BISS-C, EnDat
EAS-L1-NT021-C00	Linear motor	EtherCAT bus	Three phase 380	21.0	52.5	3850	5500	SIZE-E	BISS-C, EnDat
EAS-L1-NT026-C00	Linear motor	EtherCAT bus	Three phase 380	26.0	65	5250	7500	SIZE-E	BISS-C, EnDat
EAS-L1-NA3R0	Linear motor	EtherCAT bus	Single phase 220	3.0	10	400	-	SIZE-A	ABZ incremental, Hall
EAS-L1-NA4R5	Linear motor	EtherCAT bus	Single phase 220	4.5	13.5	600	-	SIZE-A	ABZ incremental, Hall
EAS-L1-NA6R0	Linear motor	EtherCAT bus	Single phase 220	6.0	18	800	-	SIZE-B	ABZ incremental, Hall
EAS-L1-NC8R0	Linear motor	EtherCAT bus	Three phase 220	8.0	23	850	1200	SIZE-D	ABZ incremental, Hall
EAS-L1-NC010	Linear motor	EtherCAT bus	Three phase 220	10.0	27	980	1400	SIZE-D	ABZ incremental, Hall
EAS-L1-NC012	Linear motor	EtherCAT bus	Three phase 220	12.0	30	1150	1600	SIZE-D	ABZ incremental, Hall
EAS-L1-NC018	Linear motor	EtherCAT bus	Three phase 220	18.0	45	1750	2500	SIZE-E	ABZ incremental, Hall
EAS-L1-NC022	Linear motor	EtherCAT bus	Three phase 220	22.0	55	2100	3000	SIZE-E	ABZ incremental, Hall
EAS-L1-NC027	Linear motor	EtherCAT bus	Three phase 220	27.0	67.5	3500	5000	SIZE-E	ABZ incremental, Hall
EAS-L1-NT6R0	Linear motor	EtherCAT bus	Three phase 380	6.0	15	1050	1500	SIZE-D	ABZ incremental, Hall
EAS-L1-NT8R0	Linear motor	EtherCAT bus	Three phase 380	8.0	20	1400	2000	SIZE-D	ABZ incremental, Hall
EAS-L1-NT010	Linear motor	EtherCAT bus	Three phase 380	10.0	21	1750	2500	SIZE-D	ABZ incremental, Hall
EAS-L1-NT012	Linear motor	EtherCAT bus	Three phase 380	12.0	23	2100	3000	SIZE-D	ABZ incremental, Hall
EAS-L1-NT017	Linear motor	EtherCAT bus	Three phase 380	17.0	42.5	3150	4500	SIZE-E	ABZ incremental, Hall
EAS-L1-NT021	Linear motor	EtherCAT bus	Three phase 380	21.0	52.5	3850	5500	SIZE-E	ABZ incremental, Hall
EAS-L1-NT026	Linear motor	EtherCAT bus	Three phase 380	26.0	65	5250	7500	SIZE-E	ABZ incremental, Hall

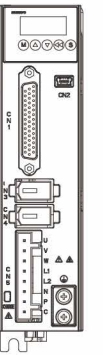
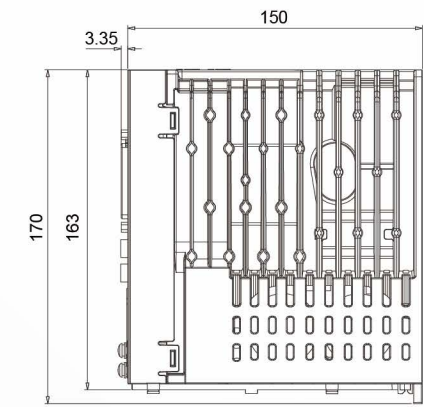
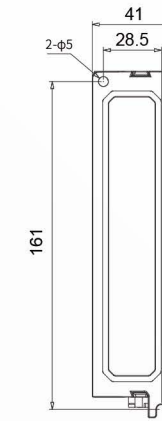
Accessories for direct-drive servo drive

Model	Description	Illustration
EL-CN701-A3-E	Communication cable for connecting multiple servo drives (0.3m)	
EL-CN702-01-E	Communication cable for connecting servo drive and PC (1m)	
EL-PE702-A2-T	Renishaw/Lamotion DB15 grating ruler adapter cable (0.2m)	
EL-PE703-A2-T	Lamotion DB15 grating ruler adapter cable (0.2m)	
EU-C01	CN1 terminal accessories	
EU-P02	CN3/CN4 terminal accessories	

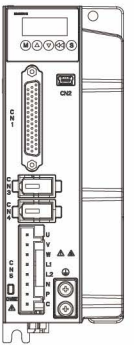
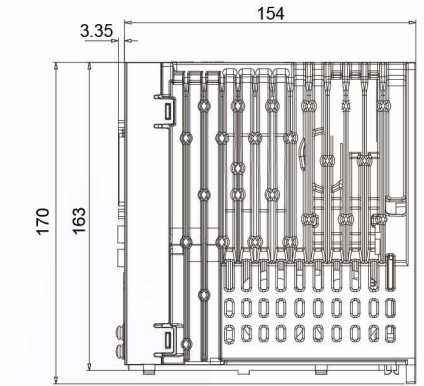
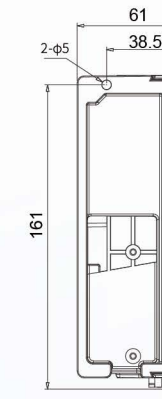
Dimensions

Unit: mm

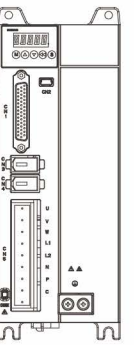
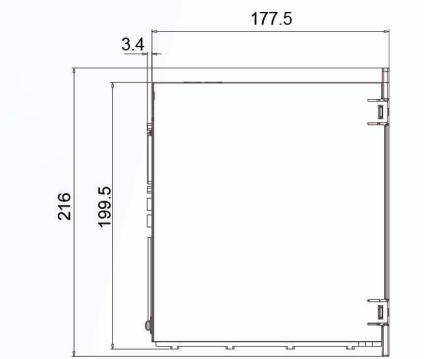
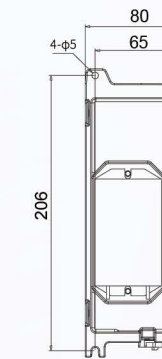
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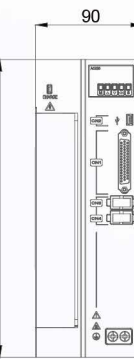
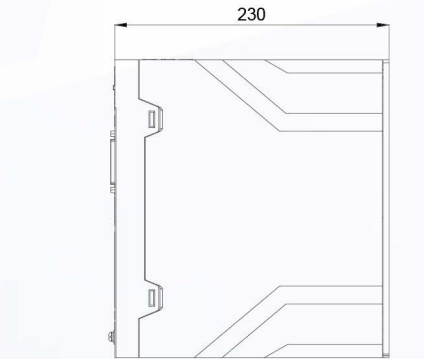
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SIZE-D

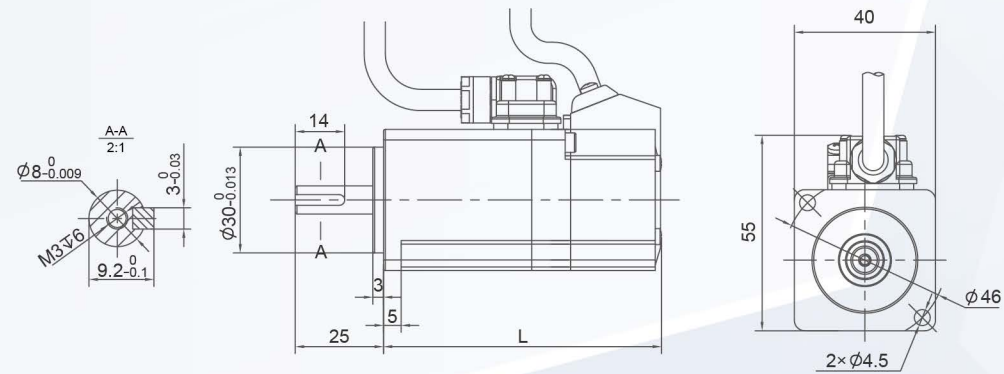


SIZE-E



Dimensions

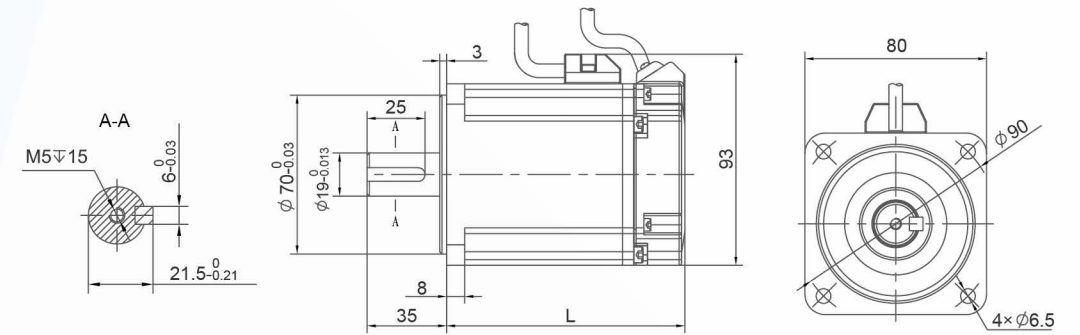
40 Flange



Model	Brake	L (mm)	Weight (kg)
EAM-WH-A530A-□30	None	68.5	0.4
EAM-WH-A530A-□32	Available	101.5	0.55
EAM-WH-0130A-□30	None	79.5	0.5
EAM-WH-0130A-□32	Available	112.5	1.0

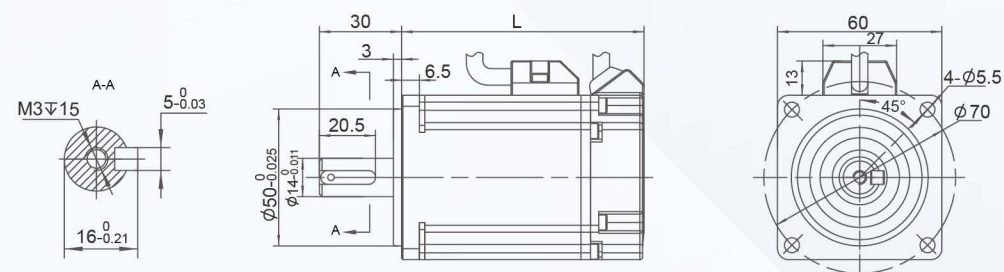
Dimensions

80 Flange



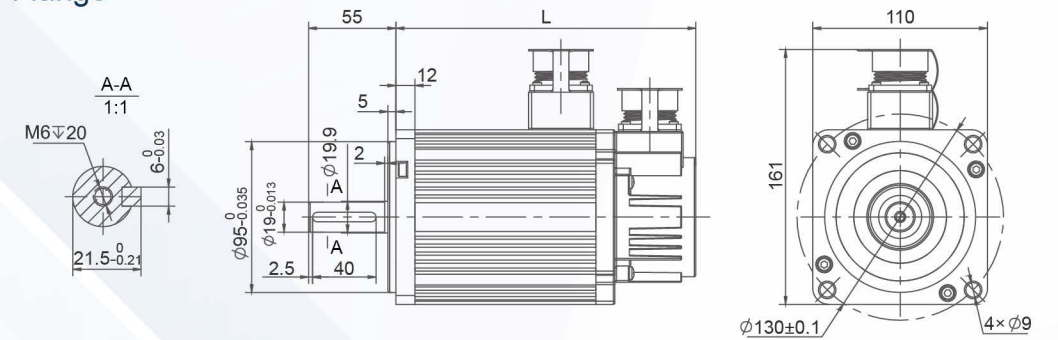
Model	Brake	L (mm)	Weight (kg)
EAM-WH-0830A-□30	None	105	2.5
EAM-WH-0830A-□32	Available	142	3.5
EAM-WH-1030A-□30	None	119	3.2
EAM-WH-1030A-□32	Available	156	4.2

60 Flange



Model	Brake	L (mm)	Weight (kg)
EAM-WH-0230A-□30	None	77.2	1.0
EAM-WH-0230A-□32	Available	109.2	1.3
EAM-WH-0430A-□30	None	93.7	1.3
EAM-WH-0430A-□32	Available	125.7	1.7

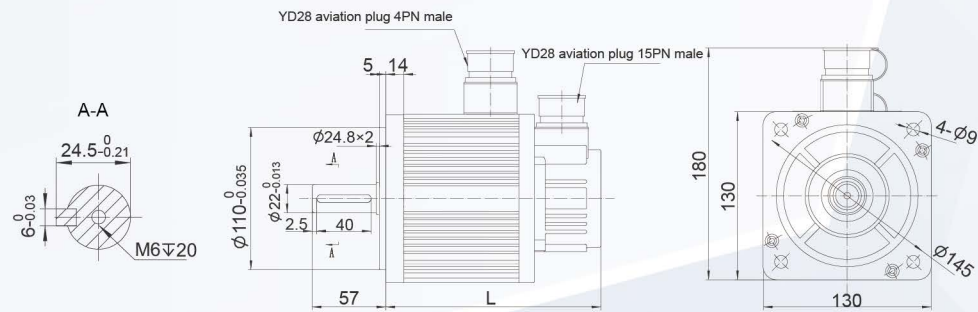
110 Flange



Model	Brake	L (mm)	Weight (kg)
EAM-WG-1230A-□30	None	189	5.2
EAM-WG-1230A-□32	Available	264	6.7
EAM-WH-1530A-□30	None	204	6.0
EAM-WH-1530A-□32	Available	279	7.5
EAM-WH-1830A-□30	None	219	6.65
EAM-WH-1830A-□32	Available	294	8.15

Dimensions

130 Flange

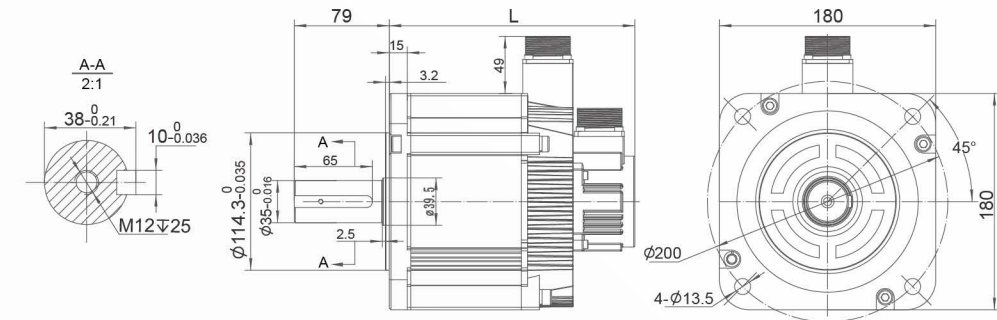


Model	Brake	L (mm)	Weight (kg)
EAM-WG-0915A-□30	None	179	6.6
EAM-WG-0915A-□32	Available	224	7.1
EAM-WG-1315A-□30	None	152.5	7.6
EAM-WG-1315A-□32	Available	204.5	7.1
EAM-WG-1815A-□30	None	170	8.3
EAM-WG-1815A-□32	Available	222	8.3
EAM-WG-0915T-□30	None	179	6.6
EAM-WG-0915T-□32	Available	224	7.1
EAM-WG-1315T-□30	None	152.5	7.1
EAM-WG-1315T-□32	Available	204.5	7.1
EAM-WG-1815T-□30	None	170	8.3
EAM-WG-1815T-□32	Available	222	8.3
EAM-WG-3030T-□30	None	231	10.1
EAM-WG-3030T-□32	Available	282	12.1

Dimensions

Unit: mm

180 Flange



Model	Brake	L (mm)	Weight (kg)
EAM-WG-2915T-□30	None	205	16.7
EAM-WG-2915T-□32	Available	252	21.2
EAM-WG-4415T-□30	None	232	21.1
EAM-WG-4415T-□32	Available	279	25.6
EAM-WG-5515T-□30	None	260	25.6
EAM-WG-5515T-□32	Available	307	30.1
EAM-WG-7515T-□30	None	284	30.8
EAM-WG-7515T-□32	Available	331	35.3

Notice: When □ is U: Supports 23-bit optical encoder, EAS-R3 driver required
When □ is 3: Supports 17-bit magnetic encoder, EAS-R1 driver required

Application

Flexem direct-drive servo drive is used in semiconductor, photovoltaic, lithium, laser, SMT and other **30** industries and hundreds of devices, and its cumulative shipment quantity has exceeded **100k**.

