



Economy Series

ES4 ES6 EC3 EC4

ES4

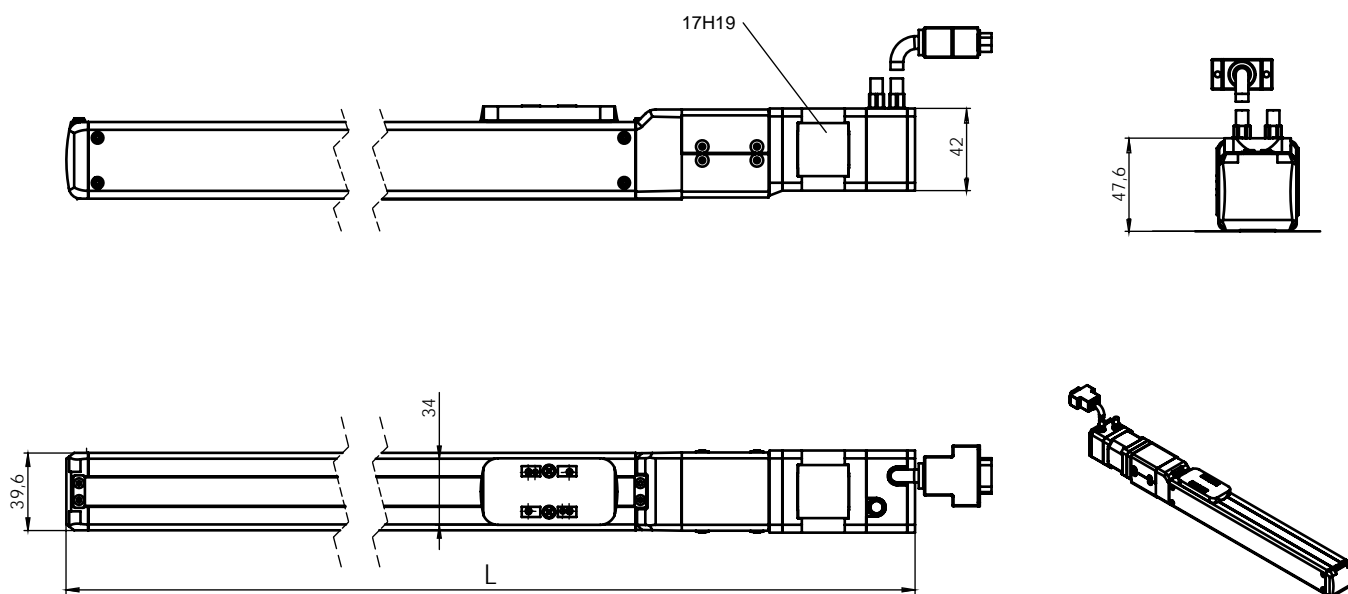
Model Configuration

Model	Ball screw lead	Stroke	Sensor	Motor**	Holding brake
ES4	006	0150	0	17H19	0
	006: 6 mm	0050: 50 mm	0: Without	17H19	0: Without
	012: 12 mm	to	1: One sensor *		1: Holding brake
		0400: 400 mm	2: Two sensors *		

* on special request

** encoder res. 40.000 inc/rev

Dimensions



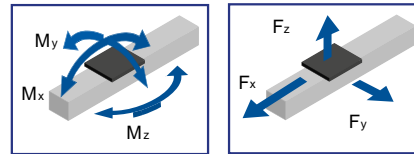
Additional mounting equipment available.

		ES4-xxx-0050	ES4-xxx-0400
Length* L	[mm]	288	638

* depends on motor type and holding brake

Basic Specifications (Axis)

Series ES4-xxx		
LM Guide	Basic dynamic load rating C [N]	3290
	Basic dynamic load rating C0 [N]	3340
	Radial clearance [μm]	± 2
Ball screw portion	Shaft diameter [mm]	$\varnothing 8$
	Lead [mm]	6 12
	Basic dynamic load rating Ca [N]	1770 920
	Basic dynamic load rating C0a [N]	3040 1600
	Root diameter [mm]	$\varnothing 6.8$
Bearing portion	Ball center-to-center diameter [mm]	$\varnothing 8.4$
	Axial direction - Basic dynamic load rating Ca [N]	8000
	Axial direction - Static permissible load P0 [N]	3240
Permissible rotational speed [min^{-1}]		3000
Starting torque [Nm]		0.012 0.021
Positioning repeatability [mm]		± 0.020
Lost motion [mm]		0.1
Maximum input torque [Nm]		0.16



Static Values		
Torque Mx	Nm	9.3
Torque My	Nm	13.5
Torque Mz	Nm	17.7
Force Fx	N	120
Force Fy	N	100
Force Fz	N	100

Basic Specifications (Axis and Motor)

		Series ES4-006		Series ES4-012	
Rated Values					
Mounting position		vertical	horizontal	vertical	horizontal
Ball screw	[mm]	8x6		8x12	
Acceleration	[m/s^2]	2	3	2	3
Velocity	[m/s]	0.25	0.25	0.5	0.5
Load	[kg]	5	9	1.5	7.5
Feed force	[N]	8	27	3	22.5
Resolution / Accuracy					
Positioning resolution ¹⁾	[μm]	0.15		0.3	
Repeatability	[μm]	± 20			
Accuracy	[$\mu\text{m}/300\text{mm}$]	100			

1) Encoder resolution 40.000 inc/rev

Amplifier Specifications

		ECOVARIO 114	ECOVARIO 114D	ECOMiniDual
1-phase AC Supply				
Supply voltage	V_{AC}	20 .. 48	-	-
Line frequency	Hz	50 .. 60	-	-
Rated power	VA	480	-	-
DC Supply				
Supply voltage	V_{DC}	24 .. 70	24 .. 70	24 .. 70
Rated power	W	700	960	260



ECOVARIO 114



ECOMiniDual

Actuator Units

NEW All-in-one-solution

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