

ENGINEERING DOCUMENTATION

Ball Screw Linear Module Engineering Configuration

Dimensional & Integration Guide

DOCUMENT	REVISION / ISSUE	STATUS
DIG-ES-LA-S05-P06	DRAFT-08 / 29 Aug 2026	Engineering Integration Reference

Integration Overview

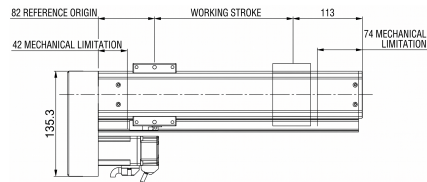
Exact ball-screw linear-module configuration for guided linear motion in automation equipment. This guide supports dimensional layout, mounting, load-path , motor and coupling integration, cable and sensor clearance, maintenance and commissioning for ES-LA-S05-P06.

Key Integration Facts

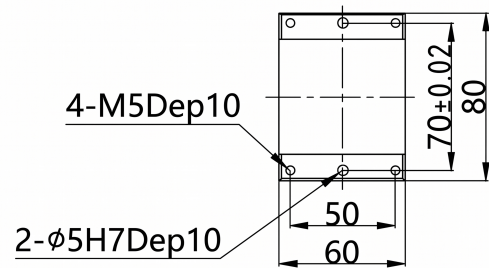
INTEGRATION ITEM	VALUE
Working Stroke	Configuration-dependent (87 records)
Overall Length	
Module Mass	
Mounting Hole Count	
Motor Mounting Style	
Configured Motor Power	750 W

Product Structure & Views

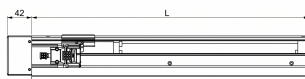
These views present the selected product structure, mounting interfaces and relevant integration geometry for this configuration.



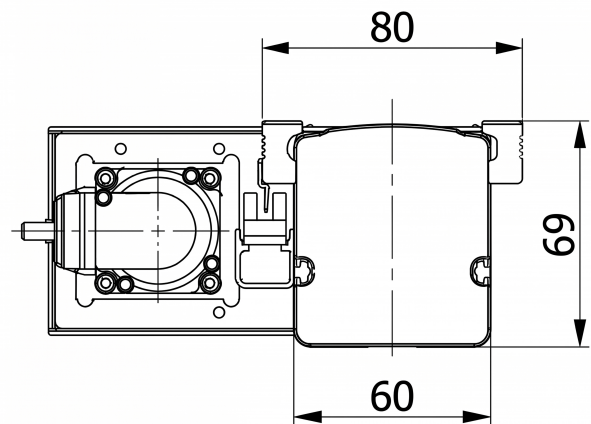
Mechanical View 1



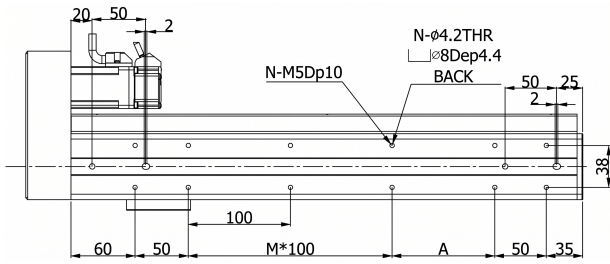
Standard Sliding rack



Mechanical View 3



Mechanical View 4



Mechanical View 5

VIEW	FIELD	VALUE
Mechanical View 1	Reference Origin Position	82 mm from reference origin
	Working Stroke	Working stroke range
	Working Stroke Length	113 mm
	Left Mechanical Limitation Position	42 mm mechanical limit
	Right Mechanical Limitation Position	74 mm mechanical limit
	Overall Height	135.3 mm
Mechanical View 2	Vertical height with tolerance	70±0.02
	Overall height	80
	M5 threaded hole specification	4-M5 Depth 10
	Mounting hole spacing	50
	Dowel pin hole specification	2-ØH7 Depth 10
	Overall width	60
Mechanical View 3	Mounting end width	42 mm
	Overall Length	L (variable, depends on model)
Mechanical View 4	Overall width	80
	Overall height	69
	Bottom width	60

VIEW	FIELD	VALUE
Mechanical View 5	Left protrusion width	20 mm
	Left connector zone length	50 mm
	Connector or shaft offset	2 mm
	Through hole specification	N holes, $\varnothing$ 2 mm through
	Counterbore hole specification	$\varnothing$ mm, depth 4.4 mm
	Threaded hole specification	N holes, M5 threaded, depth 10 mm
	Back side designation	Back side
	Right main body length	50 mm
	Right protrusion width	25 mm
	Right connector offset	2 mm
	Overall height	38 mm
	Bottom mounting hole spacing	100 mm
	Left edge distance	60 mm
	Bottom section segment length	50 mm
	Reference or variable dimension	M × 100 mm (variable)
	Datum A	Datum A
	Right section segment length	50 mm
	Right edge distance	35 mm

Configuration Dimensions

- Each row remains bound to one aggregate source configuration. Compare values by row; do not combine cells from different rows into an assumed module configuration.

Configuration Dimensions

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 01 - Stroke: 1300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1300 mm	1578 mm	30.9 kg
Configuration 02 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1050 mm	1338 mm	25.4 kg
Configuration 03 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1200 mm	1488 mm	27.5 kg
Configuration 04 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	600 mm	888 mm	19.1 kg
Configuration 05 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1300 mm	1588 mm	28.9 kg
Configuration 06 - Stroke: 200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	478 mm	15.5 kg
Configuration 07 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	950 mm	1238 mm	24 kg
Configuration 08 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	500 mm	778 mm	19.7 kg
Configuration 09 - Stroke: 1250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1250 mm	1528 mm	30.2 kg
Configuration 10 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1500 mm	1788 mm	31.7 kg
Configuration 11 - Stroke: 350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	350 mm	628 mm	17.6 kg
Configuration 12 - Stroke: 800 mm; Motor mounting: Left Side Motor; Motor power: 750 W	800 mm	1078 mm	23.9 kg
Configuration 13 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	500 mm	788 mm	17.7 kg
Configuration 14 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1450 mm	1728 mm	33 kg
Configuration 15 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1250 mm	1528 mm	30.2 kg
Configuration 16 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	800 mm	1088 mm	21.9 kg
Configuration 17 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	428 mm	14.8 kg
Configuration 18 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	650 mm	938 mm	19.8 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 19 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1400 mm	1688 mm	30.4 kg
Configuration 20 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	700 mm	988 mm	20.5 kg
Configuration 21 - Stroke: 1400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1400 mm	1678 mm	32.4 kg
Configuration 22 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	700 mm	978 mm	22.5 kg
Configuration 23 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	378 mm	14.1 kg
Configuration 24 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	550 mm	838 mm	18.4 kg
Configuration 25 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	750 mm	1028 mm	23.2 kg
Configuration 26 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	600 mm	878 mm	21.1 kg
Configuration 27 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1350 mm	1628 mm	31.6 kg
Configuration 28 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	900 mm	1188 mm	23.3 kg
Configuration 29 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1250 mm	1538 mm	28.2 kg
Configuration 30 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	450 mm	728 mm	19 kg
Configuration 31 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	388 mm	12.1 kg
Configuration 32 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	250 mm	528 mm	16.2 kg
Configuration 33 - Stroke: 1350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1350 mm	1628 mm	31.6 kg
Configuration 34 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1100 mm	1378 mm	28.1 kg
Configuration 35 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	400 mm	678 mm	18.3 kg
Configuration 36 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	350 mm	638 mm	15.6 kg
Configuration 37 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	350 mm	628 mm	17.6 kg
Configuration 38 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1450 mm	1738 mm	31 kg
Configuration 39 - Stroke: 950 mm; Motor mounting: Left Side Motor; Motor power: 750 W	950 mm	1228 mm	26 kg
Configuration 40 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	478 mm	15.5 kg
Configuration 41 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	300 mm	588 mm	14.9 kg
Configuration 42 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	750 mm	1038 mm	21.2 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 43 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1200 mm	1478 mm	29.5 kg
Configuration 44 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	438 mm	12.8 kg
Configuration 45 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	550 mm	828 mm	20.4 kg
Configuration 46 - Stroke: 250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	250 mm	528 mm	16.2 kg
Configuration 47 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	850 mm	1138 mm	22.6 kg
Configuration 48 - Stroke: 700 mm; Motor mounting: Left Side Motor; Motor power: 750 W	700 mm	978 mm	22.5 kg
Configuration 49 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1100 mm	1388 mm	26.1 kg
Configuration 50 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1150 mm	1428 mm	28.8 kg
Configuration 51 - Stroke: 600 mm; Motor mounting: Left Side Motor; Motor power: 750 W	600 mm	878 mm	21.1 kg
Configuration 52 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	800 mm	1078 mm	23.9 kg
Configuration 53 - Stroke: 900 mm; Motor mounting: Left Side Motor; Motor power: 750 W	900 mm	1178 mm	25.3 kg
Configuration 54 - Stroke: 300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	300 mm	578 mm	16.9 kg
Configuration 55 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	300 mm	578 mm	16.9 kg
Configuration 56 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	400 mm	688 mm	16.3 kg
Configuration 57 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	900 mm	1178 mm	25.3 kg
Configuration 58 - Stroke: 1150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1150 mm	1428 mm	28.8 kg
Configuration 59 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1350 mm	1638 mm	29.6 kg
Configuration 60 - Stroke: 850 mm; Motor mounting: Left Side Motor; Motor power: 750 W	850 mm	1128 mm	24.6 kg
Configuration 61 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1300 mm	1578 mm	30.9 kg
Configuration 62 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1000 mm	1278 mm	26.7 kg
Configuration 63 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	250 mm	538 mm	14.2 kg
Configuration 64 - Stroke: 1450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1450 mm	1728 mm	33 kg
Configuration 65 - Stroke: 450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	450 mm	728 mm	19 kg
Configuration 66 - Stroke: 500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	500 mm	778 mm	19.7 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 67 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	950 mm	1228 mm	26 kg
Configuration 68 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	488 mm	13.5 kg
Configuration 69 - Stroke: 1100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1100 mm	1378 mm	28.1 kg
Configuration 70 - Stroke: 150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	428 mm	14.8 kg
Configuration 71 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1150 mm	1438 mm	26.8 kg
Configuration 72 - Stroke: 100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	378 mm	14.1 kg
Configuration 73 - Stroke: 1050 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1050 mm	1328 mm	27.4 kg
Configuration 74 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1400 mm	1678 mm	32.4 kg
Configuration 75 - Stroke: 400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	400 mm	678 mm	18.3 kg
Configuration 76 - Stroke: 650 mm; Motor mounting: Left Side Motor; Motor power: 750 W	650 mm	928 mm	21.8 kg
Configuration 77 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	850 mm	1128 mm	24.6 kg
Configuration 78 - Stroke: 1000 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1000 mm	1278 mm	26.7 kg
Configuration 79 - Stroke: 550 mm; Motor mounting: Left Side Motor; Motor power: 750 W	550 mm	828 mm	20.4 kg
Configuration 80 - Stroke: 1500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1500 mm	1778 mm	33.7 kg
Configuration 81 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1050 mm	1328 mm	27.4 kg
Configuration 82 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1500 mm	1778 mm	33.7 kg
Configuration 83 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1000 mm	1288 mm	24.7 kg
Configuration 84 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	450 mm	738 mm	17 kg
Configuration 85 - Stroke: 750 mm; Motor mounting: Left Side Motor; Motor power: 750 W	750 mm	1028 mm	23.2 kg
Configuration 86 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	650 mm	928 mm	21.8 kg
Configuration 87 - Stroke: 1200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1200 mm	1478 mm	29.5 kg

Mounting and Drive Configuration

Mounting and Drive Configuration

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 01 - Stroke: 1300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	36
Configuration 02 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	30
Configuration 03 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	34
Configuration 04 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	22
Configuration 05 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	36
Configuration 06 - Stroke: 200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	14
Configuration 07 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	28
Configuration 08 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	20
Configuration 09 - Stroke: 1250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	34
Configuration 10 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	40
Configuration 11 - Stroke: 350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	16
Configuration 12 - Stroke: 800 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	26
Configuration 13 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	20
Configuration 14 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	38
Configuration 15 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	34
Configuration 16 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	26
Configuration 17 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	12
Configuration 18 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	22
Configuration 19 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	38
Configuration 20 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	24

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 21 - Stroke: 1400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	38
Configuration 22 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	24
Configuration 23 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	12
Configuration 24 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	20
Configuration 25 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	24
Configuration 26 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	22
Configuration 27 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	36
Configuration 28 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	28
Configuration 29 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	34
Configuration 30 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	18
Configuration 31 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	12
Configuration 32 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	14
Configuration 33 - Stroke: 1350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	36
Configuration 34 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	32
Configuration 35 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	18
Configuration 36 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	16
Configuration 37 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	16
Configuration 38 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	38
Configuration 39 - Stroke: 950 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	28
Configuration 40 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	14
Configuration 41 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	16
Configuration 42 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	24
Configuration 43 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	34
Configuration 44 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	12

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 45 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	20
Configuration 46 - Stroke: 250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	14
Configuration 47 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	26
Configuration 48 - Stroke: 700 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	24
Configuration 49 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	32
Configuration 50 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	32
Configuration 51 - Stroke: 600 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	22
Configuration 52 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	26
Configuration 53 - Stroke: 900 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	28
Configuration 54 - Stroke: 300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	16
Configuration 55 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	16
Configuration 56 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	18
Configuration 57 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	28
Configuration 58 - Stroke: 1150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	32
Configuration 59 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	36
Configuration 60 - Stroke: 850 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	26
Configuration 61 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	36
Configuration 62 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	30
Configuration 63 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	14
Configuration 64 - Stroke: 1450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	38
Configuration 65 - Stroke: 450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	18
Configuration 66 - Stroke: 500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	20
Configuration 67 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	28
Configuration 68 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	14

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 69 - Stroke: 1100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	32
Configuration 70 - Stroke: 150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	12
Configuration 71 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	32
Configuration 72 - Stroke: 100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	12
Configuration 73 - Stroke: 1050 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	30
Configuration 74 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	38
Configuration 75 - Stroke: 400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	18
Configuration 76 - Stroke: 650 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	22
Configuration 77 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	26
Configuration 78 - Stroke: 1000 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	30
Configuration 79 - Stroke: 550 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	20
Configuration 80 - Stroke: 1500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	40
Configuration 81 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	30
Configuration 82 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	40
Configuration 83 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	30
Configuration 84 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	18
Configuration 85 - Stroke: 750 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	24
Configuration 86 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	22
Configuration 87 - Stroke: 1200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	34

Motor Interface Configuration

Motor Interface Configuration

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 01 - Stroke: 1300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 02 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 03 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 04 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 05 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 06 - Stroke: 200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 07 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 08 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 09 - Stroke: 1250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 10 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 11 - Stroke: 350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 12 - Stroke: 800 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 13 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 14 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 15 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 16 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 17 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 18 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 19 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 20 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 21 - Stroke: 1400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 22 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 23 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 24 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 25 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 26 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 27 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 28 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 29 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 30 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 31 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 32 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 33 - Stroke: 1350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 34 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 35 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 36 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 37 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 38 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 39 - Stroke: 950 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 40 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 41 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 42 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 43 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 44 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 45 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 46 - Stroke: 250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 47 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 48 - Stroke: 700 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 49 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 50 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 51 - Stroke: 600 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 52 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 53 - Stroke: 900 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 54 - Stroke: 300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 55 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 56 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 57 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 58 - Stroke: 1150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 59 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 60 - Stroke: 850 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 61 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 62 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 63 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 64 - Stroke: 1450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 65 - Stroke: 450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 66 - Stroke: 500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 67 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 68 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 69 - Stroke: 1100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 70 - Stroke: 150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 71 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 72 - Stroke: 100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 73 - Stroke: 1050 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 74 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 75 - Stroke: 400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 76 - Stroke: 650 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 77 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 78 - Stroke: 1000 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 79 - Stroke: 550 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 80 - Stroke: 1500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 81 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 82 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 83 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 84 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 85 - Stroke: 750 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 86 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 87 - Stroke: 1200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor

Overall Dimensions and Mounting Interface

- Confirm this exact SKU, the selected motor-mounting configuration and the applicable mechanical views before using dimensions or interface geometry.
- Keep mounting faces flat, clean and free of burrs, raised holes, debris and coating buildup.
- Reserve assembly, inspection, cable, lubrication and removal access around the module and motor interface.

Load Path and Installation Orientation

- Route axial force through the carriage, supported mounting structure and host guide; include offset, side load, acceleration, shock and emergency-stop cases.
- Validate horizontal, wall and vertical installation loads with the actual payload center, guide spacing, host stiffness and duty cycle.
- Control payload center of gravity and overhung moment; verify the complete installed load path rather than inferring capacity from module mass or size.

Motion and Duty-Cycle Validation

- Validate the complete acceleration, travel, dwell, reversal and stop cycle using the stroke and selected motor configuration.
- Establish speed, acceleration, payload and moment limits from the complete selected module, motor, guide and host calculation.
- Verify temperature and resonance behavior using the installed motor, stroke, load, mounting heat path and operating cycle.

Motor, Coupling and Sensor Integration

PARAMETER	VALUE	UNIT
Configured Motor Power	750	W

- Match the motor mounting style, adapter, configured motor power and interface dimensions before assembly.
- Verify coupling bore, engagement, concentricity, axial position and tightening controls, then check smooth travel at zero energy.
- Provide cable slack, bend radius, strain relief and sensor clearance across the complete motion envelope.

Maintenance, Contamination and Service Envelope

- Prevent chips, fibers, cleaning residue and moisture from entering the ball screw, guide, sensor and coupling interfaces.
- Provide access for lubrication, inspection, sensor adjustment, fastener verification and specified removal.
- Stop and inspect after binding, impact, abnormal noise, rising temperature, unexpected friction or protection damage.

Commissioning and Safety

- Commission in stages with the host guide, limits, guards and cable routing installed; verify each boundary before increasing speed or load.
- At low energy verify travel direction, home and limit behavior, command polarity, stroke and sensor state.
- Verify emergency stop, fault response, recovery behavior and safe holding requirements for the installed orientation.

Integration Checklist

- 01 Confirm the exact SKU, parameters and selected mechanical-view configuration.
- 02 Verify working stroke, overall length, module mass, mounting-hole count and service clearance.
- 03 Establish the complete axial, side-load and moment load path for the host structure.
- 04 Validate horizontal, wall and vertical installation cases using the actual payload center and duty cycle.
- 05 Match motor mounting style, configured motor power, adapter and coupling dimensions.
- 06 Verify coupling alignment, engagement, tightening and smooth travel before applying drive power.
- 07 Provide cable slack, bend radius, strain relief and sensor clearance across the full motion envelope.
- 08 Protect the ball screw, guide, sensors and coupling from contamination and moisture.
- 09 At low energy verify direction, home, limits, stroke, speed and fault-stop behavior.
- 10 Request current 2D, STEP, motor-interface, wiring, lubrication and maintenance data before final integration.

[View SKU Product Datasheet](#)[Request controlled 2D drawing](#)[Request controlled STEP review](#)[Request a Quote](#)

Engineering Use and Verification Notice

01. This Dimensional & Integration Guide applies only to EmbodyStack SKU ES-LA-S05-P06 and is intended for dimensional evaluation and preliminary integration. It is not a applicable manufacturing drawing, module or motor selection approval, payload or safety approval, wiring final integration, machinery risk assessment or integration planning document and must not be used as the sole basis for machining, host-structure design, coupling manufacture, fastener selection, cable assembly or final integration. Before design freeze, assembly or commissioning, verify dimensions, interface geometry, mounting holes, travel and collision envelope, load path, orientation, payload center, speed, acceleration, motor, adapter, coupling, sensors, cable routing, limits, thermal behavior, contamination control and maintenance requirements against the applicable EmbodyStack engineering data for this exact SKU and selected configuration. Where this guide and applicable product documentation differ, the applicable product documentation governs. Validate the complete module, motor, guide, host structure, motion cycle, guarding, fault cases and applicable regulatory requirements under intended operating conditions.