

ENGINEERING DOCUMENTATION

Ball Screw Linear Module Engineering Configuration

Dimensional & Integration Guide

DOCUMENT	REVISION / ISSUE	STATUS
DIG-ES-LA-S05-P07	DRAFT-08 / 29 Aug 2026	Engineering Integration Reference

Integration Overview

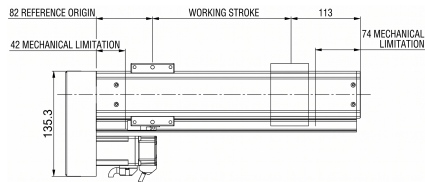
Exact ball-screw linear-module configuration for guided linear motion in automation equipment. This guide supports dimensional layout, mounting, load-path , motor and coupling integration, cable and sensor clearance, maintenance and commissioning for ES-LA-S05-P07.

Key Integration Facts

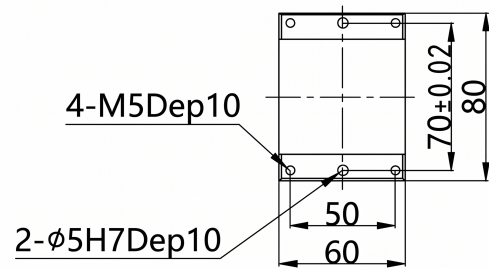
INTEGRATION ITEM	VALUE
Working Stroke	Configuration-dependent (87 records)
Overall Length	
Module Mass	
Mounting Hole Count	
Motor Mounting Style	
Configured Motor Power	750 W

Product Structure & Views

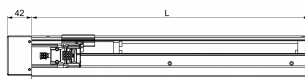
These views present the selected product structure, mounting interfaces and relevant integration geometry for this configuration.



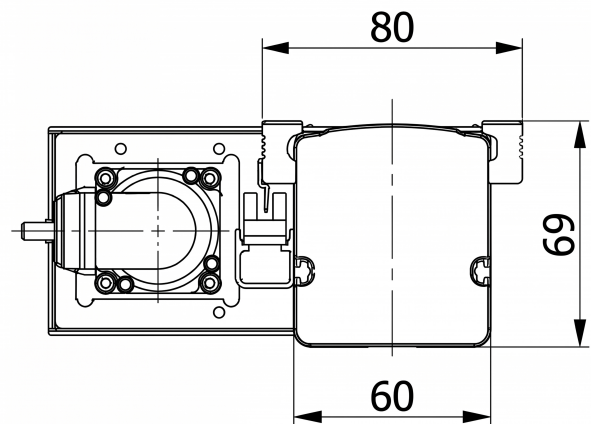
Mechanical View 1



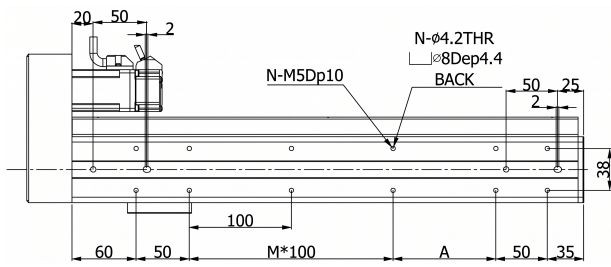
Standard Sliding rack



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: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	950 mm	1303 mm	43.6 kg
Configuration 02 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	750 mm	1093 mm	38.8 kg
Configuration 03 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	350 mm	693 mm	29 kg
Configuration 04 - Stroke: 350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	350 mm	693 mm	29 kg
Configuration 05 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	800 mm	1143 mm	40 kg
Configuration 06 - Stroke: 800 mm; Motor mounting: Left Side Motor; Motor power: 750 W	800 mm	1143 mm	40 kg
Configuration 07 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	400 mm	753 mm	30.2 kg
Configuration 08 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1400 mm	1743 mm	54.6 kg
Configuration 09 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1450 mm	1803 mm	55.8 kg
Configuration 10 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1150 mm	1503 mm	48.5 kg
Configuration 11 - Stroke: 1100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1100 mm	1443 mm	47.3 kg
Configuration 12 - Stroke: 1300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1300 mm	1643 mm	52.2 kg
Configuration 13 - Stroke: 650 mm; Motor mounting: Left Side Motor; Motor power: 750 W	650 mm	993 mm	36.3 kg
Configuration 14 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1000 mm	1353 mm	44.9 kg
Configuration 15 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	450 mm	803 mm	31.4 kg
Configuration 16 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1250 mm	1603 mm	51 kg
Configuration 17 - Stroke: 1150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1150 mm	1493 mm	48.5 kg
Configuration 18 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1300 mm	1643 mm	52.2 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 19 - Stroke: 950 mm; Motor mounting: Left Side Motor; Motor power: 750 W	950 mm	1293 mm	43.6 kg
Configuration 20 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	453 mm	22.9 kg
Configuration 21 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	700 mm	1043 mm	37.5 kg
Configuration 22 - Stroke: 450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	450 mm	793 mm	31.4 kg
Configuration 23 - Stroke: 250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	250 mm	593 mm	26.6 kg
Configuration 24 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	550 mm	893 mm	33.9 kg
Configuration 25 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1100 mm	1443 mm	47.3 kg
Configuration 26 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	300 mm	653 mm	27.8 kg
Configuration 27 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1450 mm	1793 mm	55.8 kg
Configuration 28 - Stroke: 1050 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1050 mm	1393 mm	46.1 kg
Configuration 29 - Stroke: 100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	443 mm	22.9 kg
Configuration 30 - Stroke: 1200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1200 mm	1543 mm	49.7 kg
Configuration 31 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1300 mm	1653 mm	52.2 kg
Configuration 32 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	350 mm	703 mm	29 kg
Configuration 33 - Stroke: 550 mm; Motor mounting: Left Side Motor; Motor power: 750 W	550 mm	893 mm	33.9 kg
Configuration 34 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	650 mm	993 mm	36.3 kg
Configuration 35 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	500 mm	853 mm	32.7 kg
Configuration 36 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1500 mm	1843 mm	57 kg
Configuration 37 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	250 mm	603 mm	26.6 kg
Configuration 38 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	900 mm	1243 mm	42.4 kg
Configuration 39 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	950 mm	1293 mm	43.6 kg
Configuration 40 - Stroke: 700 mm; Motor mounting: Left Side Motor; Motor power: 750 W	700 mm	1043 mm	37.5 kg
Configuration 41 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1350 mm	1703 mm	53.4 kg
Configuration 42 - Stroke: 500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	500 mm	843 mm	32.7 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 43 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	553 mm	25.3 kg
Configuration 44 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1200 mm	1543 mm	49.7 kg
Configuration 45 - Stroke: 1450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1450 mm	1793 mm	55.8 kg
Configuration 46 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	543 mm	25.3 kg
Configuration 47 - Stroke: 750 mm; Motor mounting: Left Side Motor; Motor power: 750 W	750 mm	1093 mm	38.8 kg
Configuration 48 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	503 mm	24.1 kg
Configuration 49 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	250 mm	593 mm	26.6 kg
Configuration 50 - Stroke: 1350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1350 mm	1693 mm	53.4 kg
Configuration 51 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	443 mm	22.9 kg
Configuration 52 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	650 mm	1003 mm	36.3 kg
Configuration 53 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1050 mm	1403 mm	46.1 kg
Configuration 54 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1500 mm	1853 mm	57 kg
Configuration 55 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	750 mm	1103 mm	38.8 kg
Configuration 56 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1350 mm	1693 mm	53.4 kg
Configuration 57 - Stroke: 1400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1400 mm	1743 mm	54.6 kg
Configuration 58 - Stroke: 400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	400 mm	743 mm	30.2 kg
Configuration 59 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1100 mm	1453 mm	47.3 kg
Configuration 60 - Stroke: 300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	300 mm	643 mm	27.8 kg
Configuration 61 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1200 mm	1553 mm	49.7 kg
Configuration 62 - Stroke: 200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	543 mm	25.3 kg
Configuration 63 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1150 mm	1493 mm	48.5 kg
Configuration 64 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	600 mm	953 mm	35.1 kg
Configuration 65 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	400 mm	743 mm	30.2 kg
Configuration 66 - Stroke: 900 mm; Motor mounting: Left Side Motor; Motor power: 750 W	900 mm	1243 mm	42.4 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 67 - Stroke: 150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	493 mm	24.1 kg
Configuration 68 - Stroke: 850 mm; Motor mounting: Left Side Motor; Motor power: 750 W	850 mm	1193 mm	41.2 kg
Configuration 69 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1400 mm	1753 mm	54.6 kg
Configuration 70 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	900 mm	1253 mm	42.4 kg
Configuration 71 - Stroke: 1000 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1000 mm	1343 mm	44.9 kg
Configuration 72 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	500 mm	843 mm	32.7 kg
Configuration 73 - Stroke: 600 mm; Motor mounting: Left Side Motor; Motor power: 750 W	600 mm	943 mm	35.1 kg
Configuration 74 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	850 mm	1193 mm	41.2 kg
Configuration 75 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	700 mm	1053 mm	37.5 kg
Configuration 76 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	450 mm	793 mm	31.4 kg
Configuration 77 - Stroke: 1250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1250 mm	1593 mm	51 kg
Configuration 78 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	600 mm	943 mm	35.1 kg
Configuration 79 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1000 mm	1343 mm	44.9 kg
Configuration 80 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	300 mm	643 mm	27.8 kg
Configuration 81 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1050 mm	1393 mm	46.1 kg
Configuration 82 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	800 mm	1153 mm	40 kg
Configuration 83 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	550 mm	903 mm	33.9 kg
Configuration 84 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1250 mm	1593 mm	51 kg
Configuration 85 - Stroke: 1500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	1500 mm	1843 mm	57 kg
Configuration 86 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	850 mm	1203 mm	41.2 kg
Configuration 87 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	493 mm	24.1 kg

Mounting and Drive Configuration

Mounting and Drive Configuration

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 01 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	20
Configuration 02 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	18
Configuration 03 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	14
Configuration 04 - Stroke: 350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	14
Configuration 05 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	20
Configuration 06 - Stroke: 800 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	20
Configuration 07 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	16
Configuration 08 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	26
Configuration 09 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	26
Configuration 10 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	22
Configuration 11 - Stroke: 1100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	22
Configuration 12 - Stroke: 1300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	24
Configuration 13 - Stroke: 650 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	18
Configuration 14 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	22
Configuration 15 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	16
Configuration 16 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	24
Configuration 17 - Stroke: 1150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	22
Configuration 18 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	24
Configuration 19 - Stroke: 950 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	20
Configuration 20 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	12

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 21 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	18
Configuration 22 - Stroke: 450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	16
Configuration 23 - Stroke: 250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	14
Configuration 24 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	16
Configuration 25 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	22
Configuration 26 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	14
Configuration 27 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	26
Configuration 28 - Stroke: 1050 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	22
Configuration 29 - Stroke: 100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	12
Configuration 30 - Stroke: 1200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	24
Configuration 31 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	24
Configuration 32 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	14
Configuration 33 - Stroke: 550 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	16
Configuration 34 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	18
Configuration 35 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	16
Configuration 36 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	26
Configuration 37 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	14
Configuration 38 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	20
Configuration 39 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	20
Configuration 40 - Stroke: 700 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	18
Configuration 41 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	24
Configuration 42 - Stroke: 500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	16
Configuration 43 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	14
Configuration 44 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	24

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 45 - Stroke: 1450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	26
Configuration 46 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	14
Configuration 47 - Stroke: 750 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	18
Configuration 48 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	12
Configuration 49 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	14
Configuration 50 - Stroke: 1350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	24
Configuration 51 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	12
Configuration 52 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	18
Configuration 53 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	22
Configuration 54 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	26
Configuration 55 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	18
Configuration 56 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	24
Configuration 57 - Stroke: 1400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	26
Configuration 58 - Stroke: 400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	16
Configuration 59 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	22
Configuration 60 - Stroke: 300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	14
Configuration 61 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	24
Configuration 62 - Stroke: 200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	14
Configuration 63 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	22
Configuration 64 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	18
Configuration 65 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	16
Configuration 66 - Stroke: 900 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	20
Configuration 67 - Stroke: 150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	200 mm	12
Configuration 68 - Stroke: 850 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	20

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 69 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	26
Configuration 70 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	20
Configuration 71 - Stroke: 1000 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	22
Configuration 72 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	16
Configuration 73 - Stroke: 600 mm; Motor mounting: Left Side Motor; Motor power: 750 W	50 mm	18
Configuration 74 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	20
Configuration 75 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	18
Configuration 76 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	16
Configuration 77 - Stroke: 1250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	100 mm	24
Configuration 78 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	18
Configuration 79 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	22
Configuration 80 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	14
Configuration 81 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	22
Configuration 82 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	20
Configuration 83 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	16
Configuration 84 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	24
Configuration 85 - Stroke: 1500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	150 mm	26
Configuration 86 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	20
Configuration 87 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	12

Motor Interface Configuration

Motor Interface Configuration

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 01 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 02 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 03 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 04 - Stroke: 350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 05 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 06 - Stroke: 800 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 07 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 08 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 09 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 10 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 11 - Stroke: 1100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 12 - Stroke: 1300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 13 - Stroke: 650 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 14 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 15 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 16 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 17 - Stroke: 1150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 18 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 19 - Stroke: 950 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 20 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 21 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 22 - Stroke: 450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 23 - Stroke: 250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 24 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 25 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 26 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 27 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 28 - Stroke: 1050 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 29 - Stroke: 100 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 30 - Stroke: 1200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 31 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 32 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 33 - Stroke: 550 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 34 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 35 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 36 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 37 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 38 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 39 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 40 - Stroke: 700 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 41 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 42 - Stroke: 500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 43 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 44 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 45 - Stroke: 1450 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 46 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 47 - Stroke: 750 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 48 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 49 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 50 - Stroke: 1350 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 51 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 52 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 53 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 54 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 55 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 56 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 57 - Stroke: 1400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 58 - Stroke: 400 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 59 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 60 - Stroke: 300 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 61 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 62 - Stroke: 200 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 63 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 64 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 65 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 66 - Stroke: 900 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 67 - Stroke: 150 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 68 - Stroke: 850 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 69 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 70 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 71 - Stroke: 1000 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 72 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 73 - Stroke: 600 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 74 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 75 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 76 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 77 - Stroke: 1250 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 78 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 79 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 80 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 81 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 82 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 83 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 84 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 85 - Stroke: 1500 mm; Motor mounting: Left Side Motor; Motor power: 750 W	Left Side Motor
Configuration 86 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 87 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right 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-P07 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.