

ENGINEERING DOCUMENTATION

Ball Screw Linear Module Engineering Configuration

Dimensional & Integration Guide

DOCUMENT	REVISION / ISSUE	STATUS
DIG-ES-LA-S04-P07	DRAFT-08 / 29 Aug 2026	Engineering Integration Reference

Integration Overview

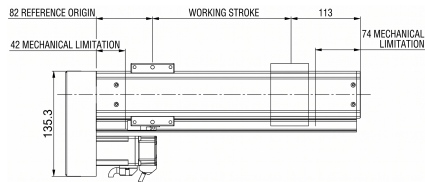
Exact ball-screw linear-module configuration for guided linear motion in automation equipment. This guide supports dimensional layout, mounting, load-path , motor and coupling integration, cable and sensor clearance, maintenance and commissioning for ES-LA-S04-P07.

Key Integration Facts

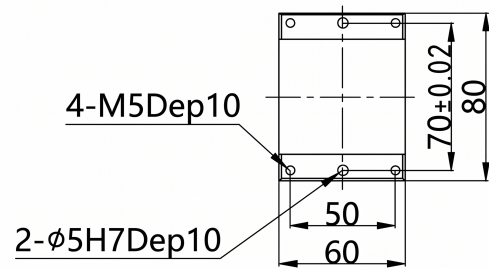
INTEGRATION ITEM	VALUE
Working Stroke	Configuration-dependent (87 records)
Overall Length	
Module Mass	
Mounting Hole Count	
Motor Mounting Style	
Configured Motor Power	750 W

Product Structure & Views

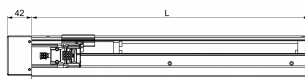
These views present the selected product structure, mounting interfaces and relevant integration geometry for this configuration.



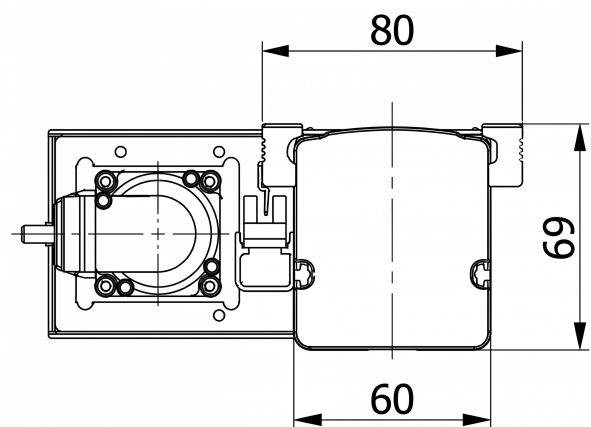
Mechanical View 1



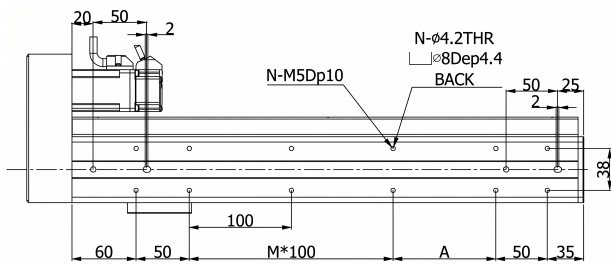
Standard Sliding rack



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: 1000 mm; Motor mounting: Left Side Motor	1000 mm	1343 mm	42.4 kg
Configuration 02 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	600 mm	943 mm	32.7 kg
Configuration 03 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	750 mm	1103 mm	36.3 kg
Configuration 04 - Stroke: 1150 mm; Motor mounting: Left Side Motor	1150 mm	1493 mm	46.1 kg
Configuration 05 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	850 mm	1193 mm	38.8 kg
Configuration 06 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	503 mm	20.7 kg
Configuration 07 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	700 mm	1053 mm	35.1 kg
Configuration 08 - Stroke: 1050 mm; Motor mounting: Left Side Motor	1050 mm	1393 mm	43.6 kg
Configuration 09 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	543 mm	22.9 kg
Configuration 10 - Stroke: 300 mm; Motor mounting: Left Side Motor	300 mm	643 mm	25.3 kg
Configuration 11 - Stroke: 950 mm; Motor mounting: Left Side Motor	950 mm	1293 mm	41.2 kg
Configuration 12 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	300 mm	653 mm	25.3 kg
Configuration 13 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	950 mm	1293 mm	41.2 kg
Configuration 14 - Stroke: 500 mm; Motor mounting: Left Side Motor	500 mm	843 mm	30.2 kg
Configuration 15 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	400 mm	753 mm	27.8 kg
Configuration 16 - Stroke: 1100 mm; Motor mounting: Left Side Motor	1100 mm	1443 mm	44.9 kg
Configuration 17 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1450 mm	1793 mm	53.4 kg
Configuration 18 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1450 mm	1803 mm	53.4 kg
Configuration 19 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	550 mm	893 mm	31.4 kg
Configuration 20 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1100 mm	1453 mm	44.9 kg
Configuration 21 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1100 mm	1443 mm	44.9 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 22 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	550 mm	903 mm	31.4 kg
Configuration 23 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	553 mm	22.9 kg
Configuration 24 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	500 mm	853 mm	30.2 kg
Configuration 25 - Stroke: 100 mm; Motor mounting: Left Side Motor	100 mm	443 mm	18.4 kg
Configuration 26 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1050 mm	1393 mm	43.6 kg
Configuration 27 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	493 mm	20.7 kg
Configuration 28 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1150 mm	1503 mm	46.1 kg
Configuration 29 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	650 mm	993 mm	33.9 kg
Configuration 30 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1000 mm	1353 mm	42.4 kg
Configuration 31 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	450 mm	793 mm	29 kg
Configuration 32 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	850 mm	1203 mm	38.8 kg
Configuration 33 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1000 mm	1343 mm	42.4 kg
Configuration 34 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	350 mm	703 mm	26.6 kg
Configuration 35 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1400 mm	1753 mm	52.2 kg
Configuration 36 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	450 mm	803 mm	29 kg
Configuration 37 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1200 mm	1543 mm	47.3 kg
Configuration 38 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1500 mm	1853 mm	54.6 kg
Configuration 39 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	443 mm	18.4 kg
Configuration 40 - Stroke: 450 mm; Motor mounting: Left Side Motor	450 mm	793 mm	29 kg
Configuration 41 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1400 mm	1743 mm	52.2 kg
Configuration 42 - Stroke: 1350 mm; Motor mounting: Left Side Motor	1350 mm	1693 mm	51 kg
Configuration 43 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	900 mm	1243 mm	40 kg
Configuration 44 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	700 mm	1043 mm	35.1 kg
Configuration 45 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	750 mm	1093 mm	36.3 kg
Configuration 46 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1300 mm	1653 mm	49.7 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 47 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	650 mm	1003 mm	33.9 kg
Configuration 48 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	950 mm	1303 mm	41.2 kg
Configuration 49 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	400 mm	743 mm	27.8 kg
Configuration 50 - Stroke: 850 mm; Motor mounting: Left Side Motor	850 mm	1193 mm	38.8 kg
Configuration 51 - Stroke: 1500 mm; Motor mounting: Left Side Motor	1500 mm	1843 mm	54.6 kg
Configuration 52 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	900 mm	1253 mm	40 kg
Configuration 53 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	250 mm	603 mm	24.1 kg
Configuration 54 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	800 mm	1143 mm	37.5 kg
Configuration 55 - Stroke: 700 mm; Motor mounting: Left Side Motor	700 mm	1043 mm	35.1 kg
Configuration 56 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1150 mm	1493 mm	46.1 kg
Configuration 57 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1300 mm	1643 mm	49.7 kg
Configuration 58 - Stroke: 650 mm; Motor mounting: Left Side Motor	650 mm	993 mm	33.9 kg
Configuration 59 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	600 mm	953 mm	32.7 kg
Configuration 60 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1500 mm	1843 mm	54.6 kg
Configuration 61 - Stroke: 200 mm; Motor mounting: Left Side Motor	200 mm	543 mm	22.9 kg
Configuration 62 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1350 mm	1703 mm	51 kg
Configuration 63 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1200 mm	1553 mm	47.3 kg
Configuration 64 - Stroke: 350 mm; Motor mounting: Left Side Motor	350 mm	693 mm	26.6 kg
Configuration 65 - Stroke: 800 mm; Motor mounting: Left Side Motor	800 mm	1143 mm	37.5 kg
Configuration 66 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1250 mm	1593 mm	48.5 kg
Configuration 67 - Stroke: 1200 mm; Motor mounting: Left Side Motor	1200 mm	1543 mm	47.3 kg
Configuration 68 - Stroke: 1400 mm; Motor mounting: Left Side Motor	1400 mm	1743 mm	52.2 kg
Configuration 69 - Stroke: 900 mm; Motor mounting: Left Side Motor	900 mm	1243 mm	40 kg
Configuration 70 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	250 mm	593 mm	24.1 kg
Configuration 71 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	800 mm	1153 mm	37.5 kg
Configuration 72 - Stroke: 1250 mm; Motor mounting: Left Side Motor	1250 mm	1593 mm	48.5 kg
Configuration 73 - Stroke: 1300 mm; Motor mounting: Left Side Motor	1300 mm	1643 mm	49.7 kg
Configuration 74 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1050 mm	1403 mm	43.6 kg
Configuration 75 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	500 mm	843 mm	30.2 kg

CONFIGURATION	WORKING STROKE	OVERALL LENGTH	MODULE MASS
Configuration 76 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	1250 mm	1603 mm	48.5 kg
Configuration 77 - Stroke: 400 mm; Motor mounting: Left Side Motor	400 mm	743 mm	27.8 kg
Configuration 78 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	453 mm	18.4 kg
Configuration 79 - Stroke: 150 mm; Motor mounting: Left Side Motor	150 mm	493 mm	20.7 kg
Configuration 80 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	1350 mm	1693 mm	51 kg
Configuration 81 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	350 mm	693 mm	26.6 kg
Configuration 82 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	300 mm	643 mm	25.3 kg
Configuration 83 - Stroke: 750 mm; Motor mounting: Left Side Motor	750 mm	1093 mm	36.3 kg
Configuration 84 - Stroke: 250 mm; Motor mounting: Left Side Motor	250 mm	593 mm	24.1 kg
Configuration 85 - Stroke: 600 mm; Motor mounting: Left Side Motor	600 mm	943 mm	32.7 kg
Configuration 86 - Stroke: 550 mm; Motor mounting: Left Side Motor	550 mm	893 mm	31.4 kg
Configuration 87 - Stroke: 1450 mm; Motor mounting: Left Side Motor	1450 mm	1793 mm	53.4 kg

Mounting and Drive Configuration

Mounting and Drive Configuration

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 01 - Stroke: 1000 mm; Motor mounting: Left Side Motor	50 mm	22
Configuration 02 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	18
Configuration 03 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	18
Configuration 04 - Stroke: 1150 mm; Motor mounting: Left Side Motor	200 mm	22
Configuration 05 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	20
Configuration 06 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	12
Configuration 07 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	18
Configuration 08 - Stroke: 1050 mm; Motor mounting: Left Side Motor	100 mm	22
Configuration 09 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	14
Configuration 10 - Stroke: 300 mm; Motor mounting: Left Side Motor	150 mm	14
Configuration 11 - Stroke: 950 mm; Motor mounting: Left Side Motor	200 mm	20
Configuration 12 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	14
Configuration 13 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	20
Configuration 14 - Stroke: 500 mm; Motor mounting: Left Side Motor	150 mm	16
Configuration 15 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	16
Configuration 16 - Stroke: 1100 mm; Motor mounting: Left Side Motor	150 mm	22
Configuration 17 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	26
Configuration 18 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	26
Configuration 19 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	16
Configuration 20 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	22
Configuration 21 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	22
Configuration 22 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	16

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 23 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	14
Configuration 24 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	16
Configuration 25 - Stroke: 100 mm; Motor mounting: Left Side Motor	150 mm	12
Configuration 26 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	22
Configuration 27 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	12
Configuration 28 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	22
Configuration 29 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	18
Configuration 30 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	22
Configuration 31 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	16
Configuration 32 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	20
Configuration 33 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	22
Configuration 34 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	14
Configuration 35 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	26
Configuration 36 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	16
Configuration 37 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	24
Configuration 38 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	26
Configuration 39 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	12
Configuration 40 - Stroke: 450 mm; Motor mounting: Left Side Motor	100 mm	16
Configuration 41 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	26
Configuration 42 - Stroke: 1350 mm; Motor mounting: Left Side Motor	200 mm	24
Configuration 43 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	20
Configuration 44 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	18
Configuration 45 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	18
Configuration 46 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	24
Configuration 47 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	18

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 48 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	20
Configuration 49 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	16
Configuration 50 - Stroke: 850 mm; Motor mounting: Left Side Motor	100 mm	20
Configuration 51 - Stroke: 1500 mm; Motor mounting: Left Side Motor	150 mm	26
Configuration 52 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	20
Configuration 53 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	14
Configuration 54 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	50 mm	20
Configuration 55 - Stroke: 700 mm; Motor mounting: Left Side Motor	150 mm	18
Configuration 56 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	22
Configuration 57 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	24
Configuration 58 - Stroke: 650 mm; Motor mounting: Left Side Motor	100 mm	18
Configuration 59 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	18
Configuration 60 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	26
Configuration 61 - Stroke: 200 mm; Motor mounting: Left Side Motor	50 mm	14
Configuration 62 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	200 mm	24
Configuration 63 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	24
Configuration 64 - Stroke: 350 mm; Motor mounting: Left Side Motor	200 mm	14
Configuration 65 - Stroke: 800 mm; Motor mounting: Left Side Motor	50 mm	20
Configuration 66 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	24
Configuration 67 - Stroke: 1200 mm; Motor mounting: Left Side Motor	50 mm	24
Configuration 68 - Stroke: 1400 mm; Motor mounting: Left Side Motor	50 mm	26
Configuration 69 - Stroke: 900 mm; Motor mounting: Left Side Motor	150 mm	20
Configuration 70 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	100 mm	14
Configuration 71 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	50 mm	20
Configuration 72 - Stroke: 1250 mm; Motor mounting: Left Side Motor	100 mm	24
Configuration 73 - Stroke: 1300 mm; Motor mounting: Left Side Motor	150 mm	24
Configuration 74 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	22
Configuration 75 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	16
Configuration 76 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	100 mm	24

CONFIGURATION	MOUNTING HOLE SPACING	MOUNTING HOLE COUNT
Configuration 77 - Stroke: 400 mm; Motor mounting: Left Side Motor	50 mm	16
Configuration 78 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	150 mm	12
Configuration 79 - Stroke: 150 mm; Motor mounting: Left Side Motor	200 mm	12
Configuration 80 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	24
Configuration 81 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	200 mm	14
Configuration 82 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	150 mm	14
Configuration 83 - Stroke: 750 mm; Motor mounting: Left Side Motor	200 mm	18
Configuration 84 - Stroke: 250 mm; Motor mounting: Left Side Motor	100 mm	14
Configuration 85 - Stroke: 600 mm; Motor mounting: Left Side Motor	50 mm	18
Configuration 86 - Stroke: 550 mm; Motor mounting: Left Side Motor	200 mm	16
Configuration 87 - Stroke: 1450 mm; Motor mounting: Left Side Motor	100 mm	26

Motor Interface Configuration

Motor Interface Configuration

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 01 - Stroke: 1000 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 02 - Stroke: 600 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 03 - Stroke: 750 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 04 - Stroke: 1150 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 05 - Stroke: 850 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 06 - Stroke: 150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 07 - Stroke: 700 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 08 - Stroke: 1050 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 09 - Stroke: 200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 10 - Stroke: 300 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 11 - Stroke: 950 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 12 - Stroke: 300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 13 - Stroke: 950 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 14 - Stroke: 500 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 15 - Stroke: 400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 16 - Stroke: 1100 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 17 - Stroke: 1450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 18 - Stroke: 1450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 19 - Stroke: 550 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 20 - Stroke: 1100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 21 - Stroke: 1100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 22 - Stroke: 550 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 23 - Stroke: 200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 24 - Stroke: 500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 25 - Stroke: 100 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 26 - Stroke: 1050 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 27 - Stroke: 150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 28 - Stroke: 1150 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 29 - Stroke: 650 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 30 - Stroke: 1000 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 31 - Stroke: 450 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 32 - Stroke: 850 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 33 - Stroke: 1000 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 34 - Stroke: 350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 35 - Stroke: 1400 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 36 - Stroke: 450 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 37 - Stroke: 1200 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 38 - Stroke: 1500 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 39 - Stroke: 100 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 40 - Stroke: 450 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 41 - Stroke: 1400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 42 - Stroke: 1350 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 43 - Stroke: 900 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 44 - Stroke: 700 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 45 - Stroke: 750 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 46 - Stroke: 1300 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 47 - Stroke: 650 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 48 - Stroke: 950 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 49 - Stroke: 400 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 50 - Stroke: 850 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 51 - Stroke: 1500 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 52 - Stroke: 900 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 53 - Stroke: 250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 54 - Stroke: 800 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 55 - Stroke: 700 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 56 - Stroke: 1150 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 57 - Stroke: 1300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 58 - Stroke: 650 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 59 - Stroke: 600 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 60 - Stroke: 1500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 61 - Stroke: 200 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 62 - Stroke: 1350 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 63 - Stroke: 1200 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 64 - Stroke: 350 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 65 - Stroke: 800 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 66 - Stroke: 1250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 67 - Stroke: 1200 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 68 - Stroke: 1400 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 69 - Stroke: 900 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 70 - Stroke: 250 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 71 - Stroke: 800 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 72 - Stroke: 1250 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 73 - Stroke: 1300 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 74 - Stroke: 1050 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 75 - Stroke: 500 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 76 - Stroke: 1250 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling

CONFIGURATION	MOTOR MOUNTING STYLE
Configuration 77 - Stroke: 400 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 78 - Stroke: 100 mm; Motor mounting: External Direct Coupling; Motor power: 750 W	External Direct Coupling
Configuration 79 - Stroke: 150 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 80 - Stroke: 1350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 81 - Stroke: 350 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 82 - Stroke: 300 mm; Motor mounting: Right Side Motor; Motor power: 750 W	Right Side Motor
Configuration 83 - Stroke: 750 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 84 - Stroke: 250 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 85 - Stroke: 600 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 86 - Stroke: 550 mm; Motor mounting: Left Side Motor	Left Side Motor
Configuration 87 - Stroke: 1450 mm; Motor mounting: Left Side Motor	Left Side Motor

Overall Dimensions and Mounting Interface

PARAMETER	VALUE	UNIT
Ball Screw Diameter	25	mm

- 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-S04-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.