



LGS Stages

High performance linear positioning stages



Stages used in:



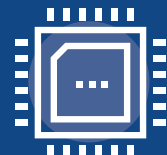
Genomics



Life Sciences



Medical Robotics



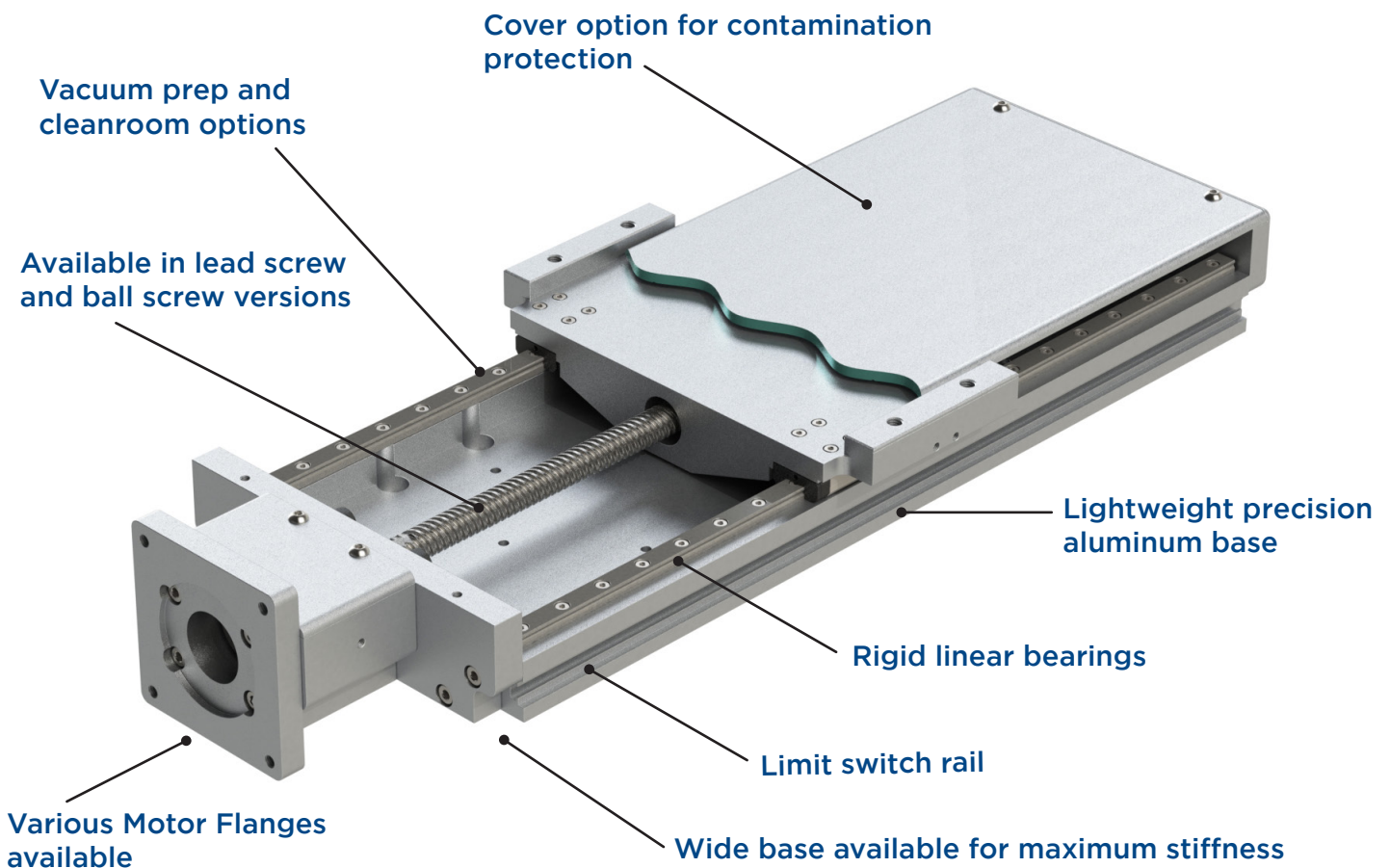
Semiconductor

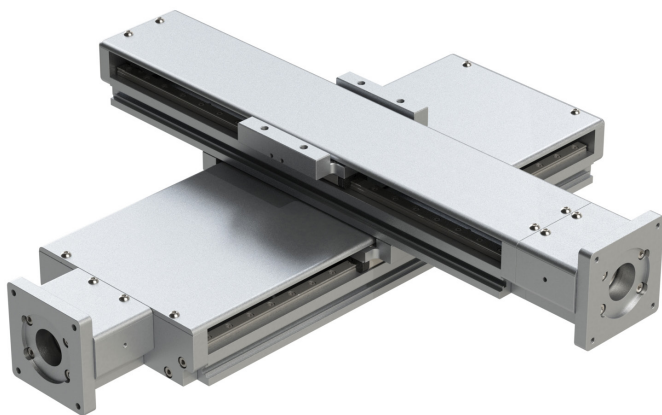
The Novanta LGS Linear Stages are designed and **manufactured in the United States**, allowing us to provide industry-leading lead times and the flexibility to tailor the stages to your specific needs. Our advanced manufacturing facility helps keep product costs low, and we pass those savings directly to our customers.



LGS Stages

- Smooth motion and high load capacity
- Available in lead and ball screw versions
- Cost-effective
- Ideal for demanding applications
- Seamless integration without additional mounting components
- LGSW excellent for increased stiffness applications





Direct mounting, easy to stack for XY.
No additional mounting components.



LGSW33

LGS33

LGS25

LGS Table Comparison

Module Go to Page	Width [mm]	Height [mm] without cover/ with cover	Max Travel [mm]	Max Normal Load [N]	Max Thrust Load [N]	Moment Rigidity [M _r]	Max Linear Speed [mm/s]	Motor Size
LGS25 page 4	50	25 / 31	640	1,000	350	Low	400 (BallscREW) 70 (Leadscrew)	Nema 14/17 40mm
LGS33 page 10	60	33 / 39	910	1,600	890	Medium	800 (BallscREW) 200 (Leadscrew)	Nema 17/23 40-60mm
LGSW33 page 17	120	33 / 39	910	1,600	890	High	800 (BallscREW) 200 (Leadscrew)	Nema 17/23 40-60mm

LGS25 Express Program – Ships in two weeks

The following stages are in-stock solutions engineered for precision and quick delivery.

Part No	Travel [mm]	Screw Type	Efficiency	Pitch	Max Linear Speed	Linear Position Accuracy	Bi-Directional Repeatability
LGS25250IA-120(52)AB223H	52	Lead Screw	79%	0.250"	70mm/s 2.75"/s	±30µm	13µm
LGS25250IA-204(136)AB223H	136					±51µm	
LGS25250IA-288(220)AB223H	220					±72µm	
LGS25250IA-372(304)AB223H	304					±93µm	
LGS25250IA-456(388)AB223H	388					±114µm	
LGS25250IA-540(472)AB223H	472					±135µm	
LGS25250IA-624(556)AB223H	556					±156µm	
LGS25250IA-708(640)AB223H	640					±177µm	

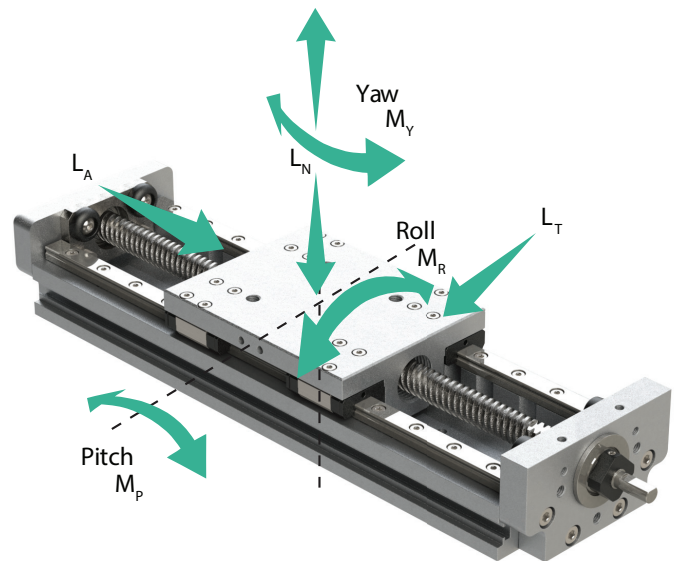
All models come with NEMA 14 motor mount and 3H sensor options.

All Anti-Backlash Nut.

For other options see page 6.

LGS25 - Linear Stage Specifications

	Metric	English
STATIC LATERAL LOAD (L_T)	390N	87.7 lbf
STATIC AXIAL LOAD (L_A)	350N	78.7 lbf
STATIC RADIAL LOAD (L_N)	1,000N	225 lbf
STATIC REVERSE RADIAL LOAD ($-L_N$)	1,000N	225 lbf
ROLL MOMENT RATING (M_R)	36N•m	26.6 lb•ft
PITCH MOMENT RATING (M_P)	48N•m	35.4 lb•ft
YAW MOMENT RATING (M_Y)	20N•m	14.6 lb•ft
DYNAMIC LOAD RATING (C)	3,420N	769 lbf



LGS25 Part Number Configurator

LGS25 050I A - 288(220) A B1 2 2K XXXX

Model No.	LGS25		
Lead	IN (Lead Screw) [Ex. 250I = 0.250"] 050I  063I  250I	M (Ball Screw) [Ex. 02M = 2MM] 02M 03M 010M	
Slide Block	A - Single Long Block		
Base Length (Travel)	A-Block 120 (52) 170 (102) 204 (136) 228 (152) 288 (220) 372 (304) 456 (388) 480 (404) 540 (472) 572 (504) 624 (556) 708 (640)		
	Nut Type - Lead Screw A = Anti-Backlash Lead Screw Nut P = Plain Lead Screw Nut Nut Type - Ball Screw N = Min. Clearance Ball Nut S = Standard Ball Nut	Motor Bracket B0 = No Motor Flange B1 = NEMA 17 Mount B2 = NEMA 14 Mount B3 = Wrap Bracket for NEMA 14, call out orientation code in special options. B4 = Custom Motor Bracket B6 = 40mm Servo Mount B7 = Mini Servo Mount with Through Hole B8 = Mini Servo Mount with Tapped Hole R0 = Exposed Bracket	Sensor Option (See Table 3) 0 = No Sensors 2K = NPN Proximity Sensors Kit (2 NC) 21 = NPN Proximity Sensors Kit (2 NC, 1 NO) 2KP = Proximity Sensors Kit (2 NC) 21P = PNP Proximity Sensors Kit (2 NC, 1 NO) 2H = NPN Photo Sensor Kit (2 Sensors) 3H = NPN Photo Sensor Kit (3 Sensors) 2HP = PNP Photo Sensor Kit (2 Sensors) 3HP = PNP Photo Sensor Kit (3 Sensors) CS = Customer Sensor Configuration
	Cover Option 1 = No Cover 2 = With Cover and other customization options	Special Options C0 = 12 O'clock wrap Bracket orientation C3 = 3 O'clock wrap Bracket orientation C6 = 6 O'clock wrap Bracket orientation C9 = 9 O'clock wrap Bracket orientation Blank = Nothing Special Lubriation* Include Motor* Special Machining*	

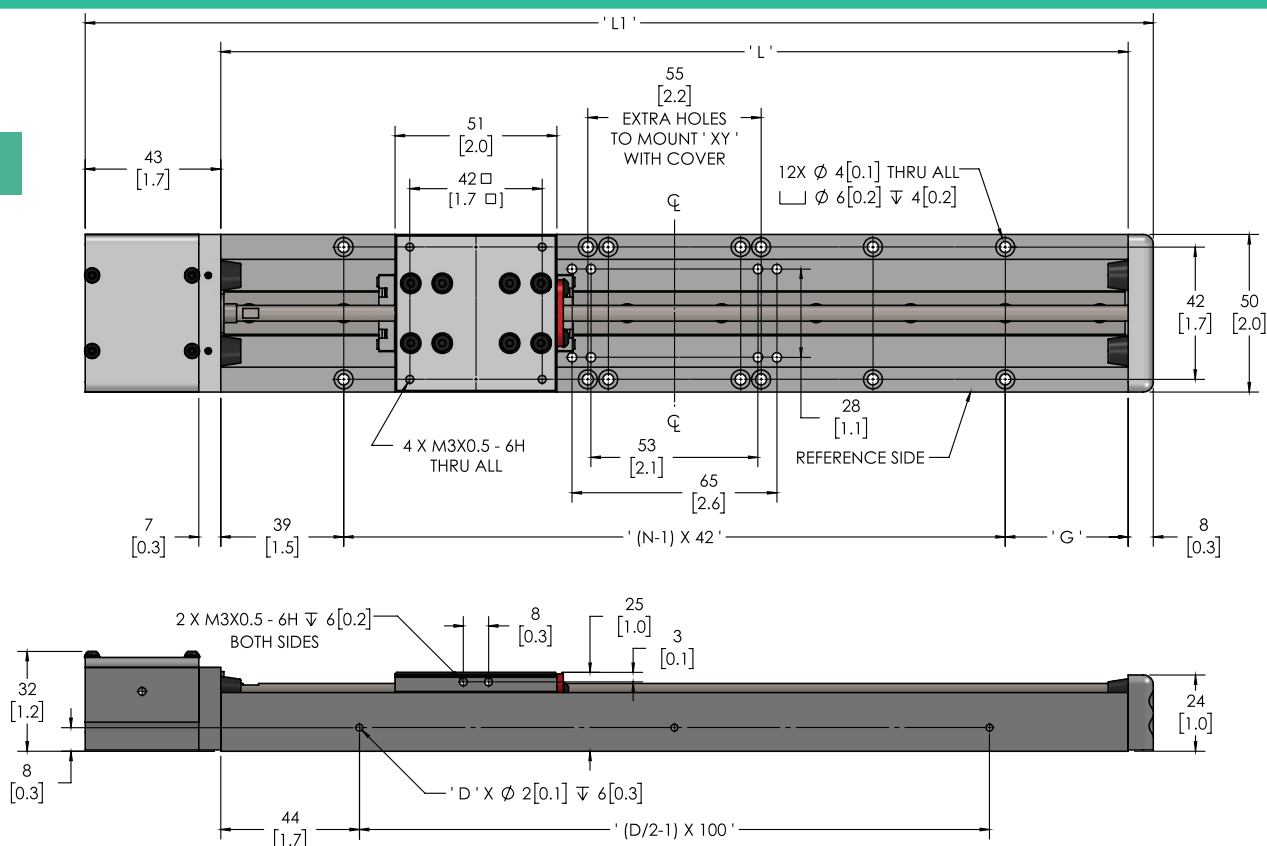
*Consult Novanta for custom length or special modifications.

 Self-Locking Leadscrew; suitable for z-axis with no brake.

LGS25

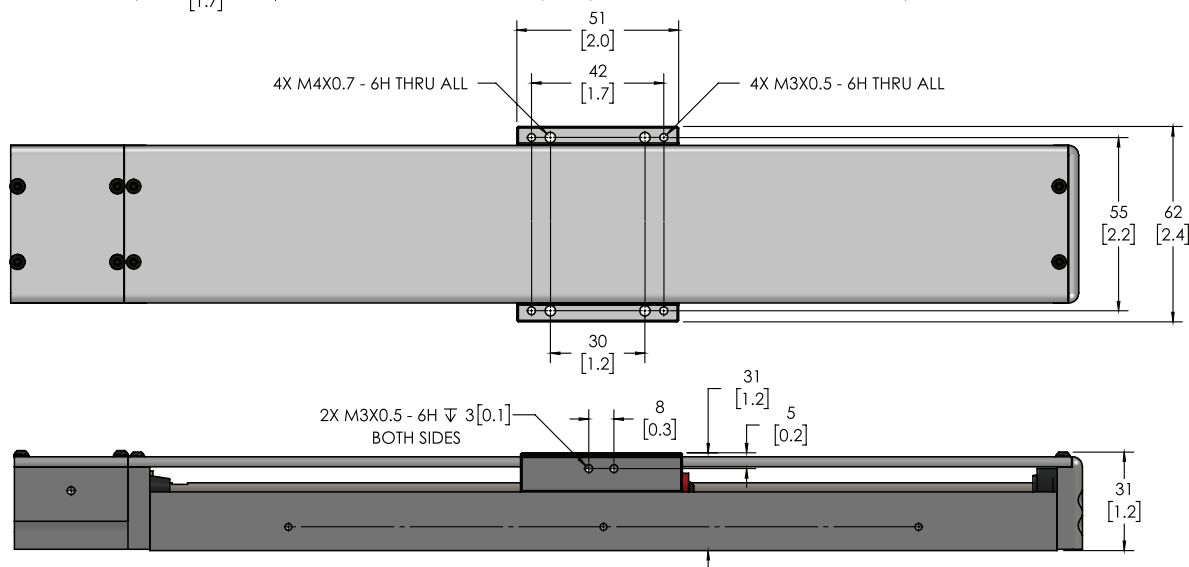
No Cover

Top View



With Cover

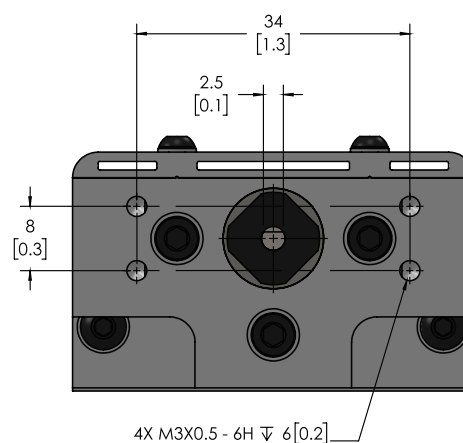
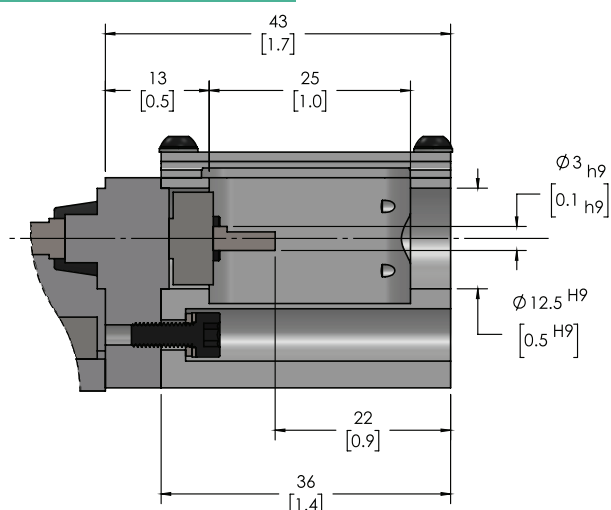
Top View



LGS25 Mechanical Dimensions Units: mm	Rail Length "L"	Overall Length "L1"	# of N Holes	# of D Holes	Mass [kg]	Travel [mm]
	120	171	4	4	0.5	52
	204	255	8	4	0.65	136
	288	339	12	6	0.8	220
	372	423	16	8	0.95	304
	456	507	20	10	1.10	388
	540	591	24	12	1.25	472
	624	675	28	12	1.4	556
	708	759	32	14	1.55	640

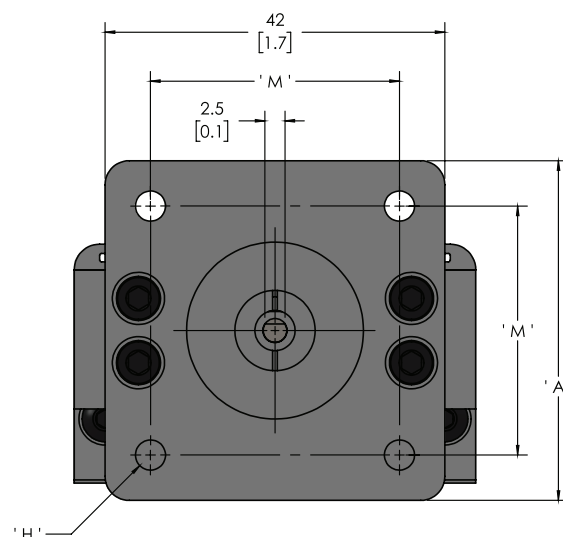
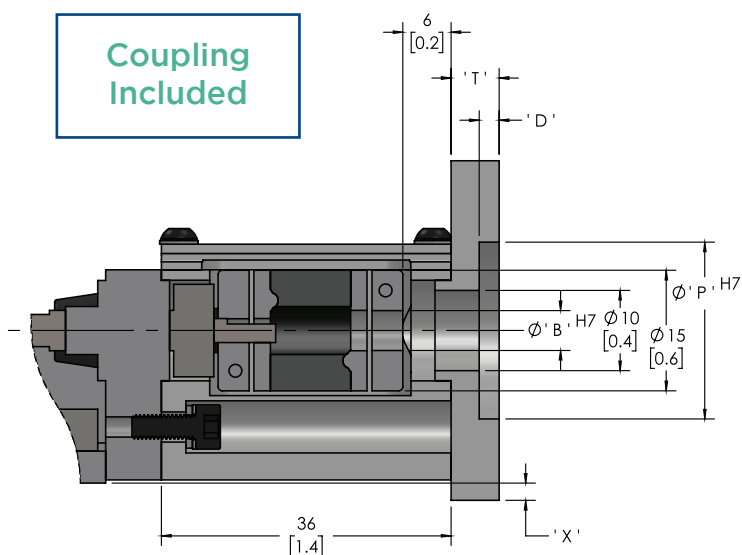
LGS25 - Motor Brackets

BO - Motor Mount



Bx - Motor Mount

Contact Novanta for Custom Motor Flanges

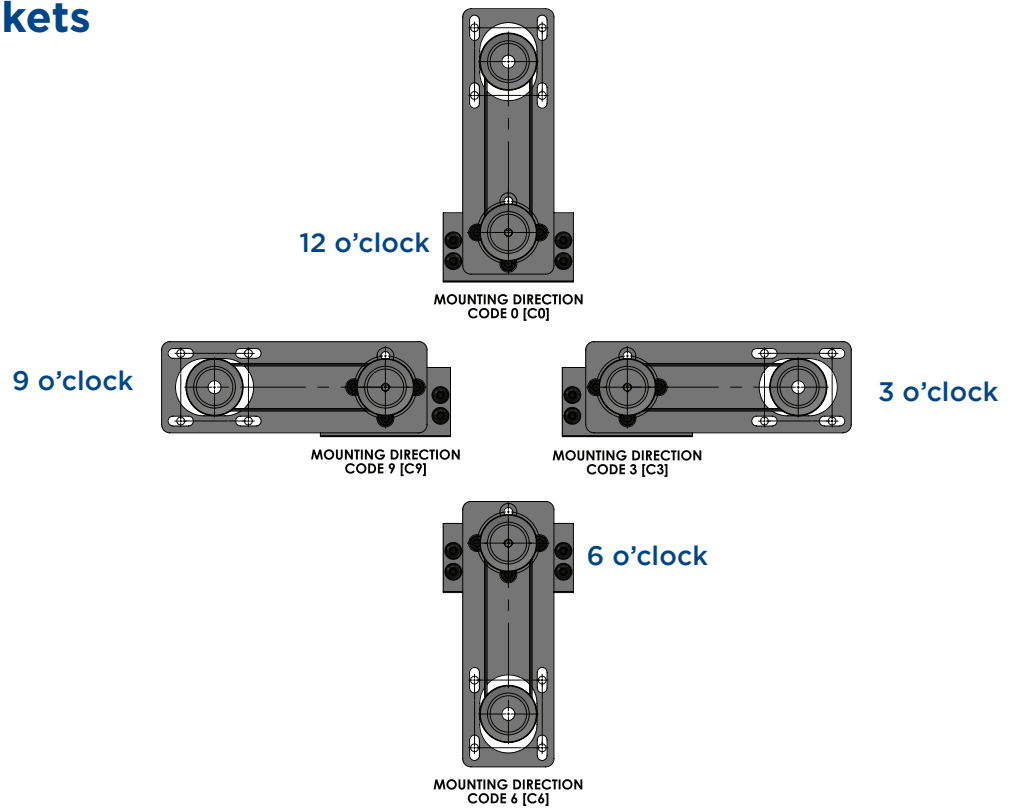


Motor Bracket	Motor Type	A [mm]	M [mm]	P [mm]	B [mm]	X [mm]	D [mm]	T [mm]	H
B1	NEMA 17W / 5mm Shaft	44	31	22	5	2.5	3	6	M3 C'Bore, Farside
B2	NEMA 14W / 5mm Shaft	35	26	22	5	0	2.5	6	M3 C'Bore, Farside
B6	40mm Servo Motor	40	32.5	30	8	0.5	3	6	M3
B7	Mini Servo Motor Through Hole	30	23.3	20	6	0	3	6	M2.5
B8	Mini Servo Motor Tapped	30	23.3	20	6	0	3	6	M3 C'Bore, Farside

LGS25 - Motor Brackets

B3

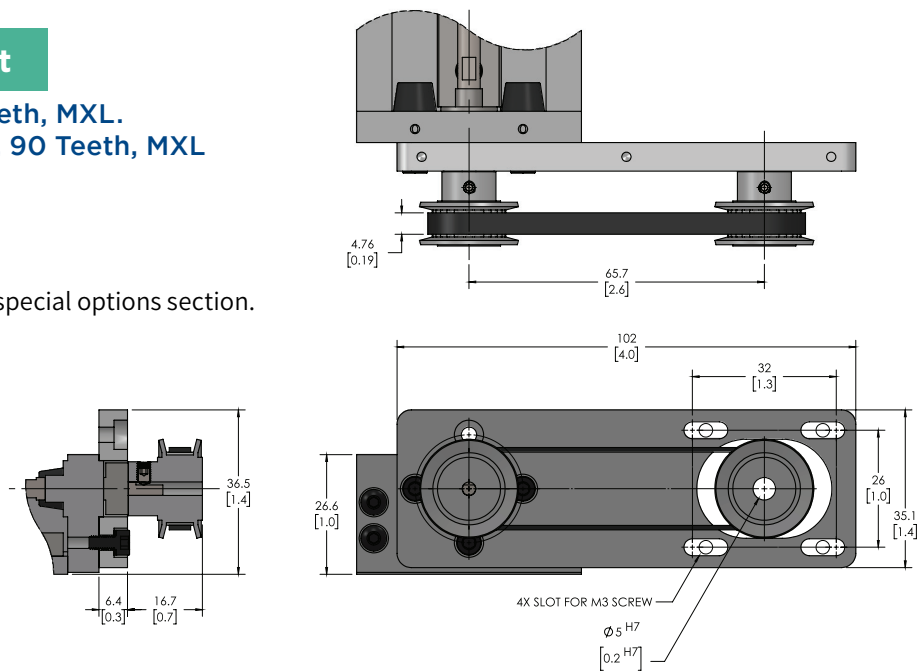
Mounting Orientations



B3 - Motor Mount

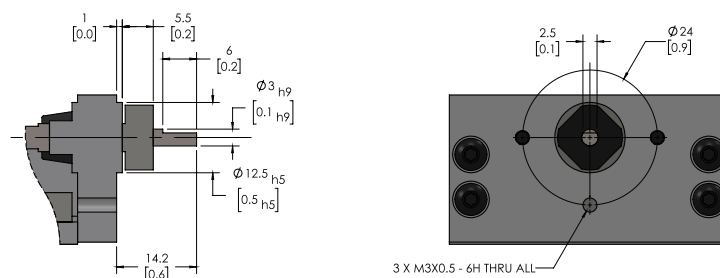
Includes pulleys: 26-Teeth, MXL.
Timing belt: 3/16" Belt, 90 Teeth, MXL

Call out orientation code in special options section.



R0

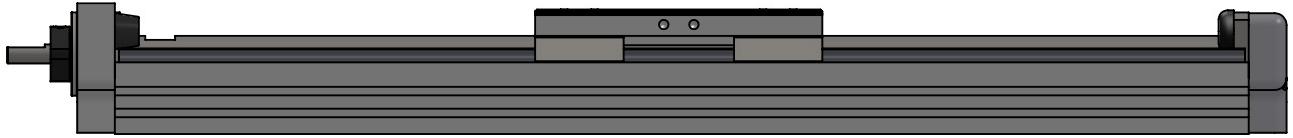
Exposed Bracket



LGS Sensor Options

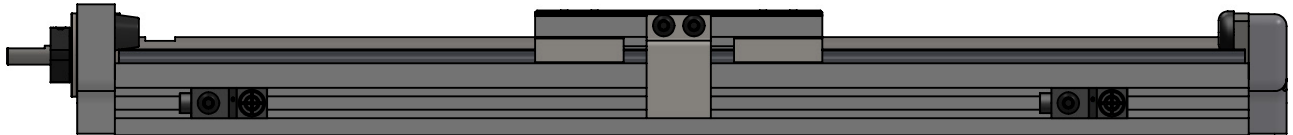
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NO SENSORS



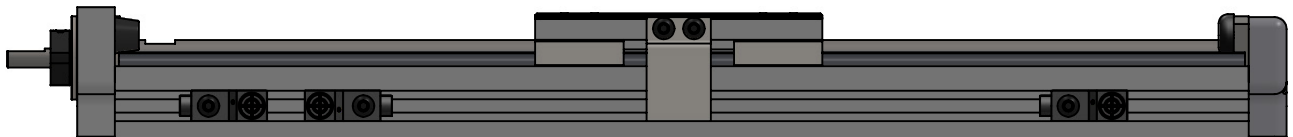
2K / 2KP

NPN / PNP PROXIMITY SENSOR KIT [2 NC]



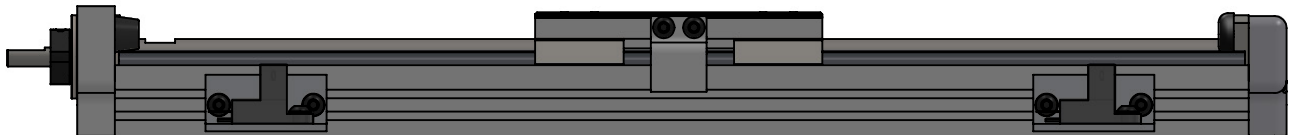
21 / 21P

NPN / PNP PROXIMITY SENSOR KIT [2 NC, 1 NO]



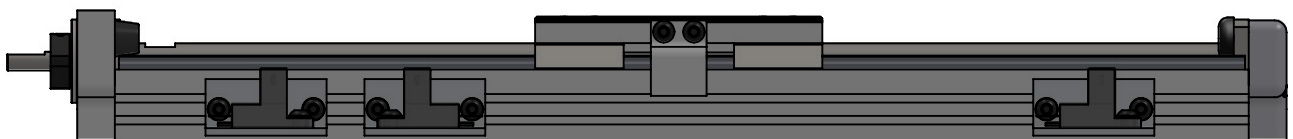
2H / 2HP

NPN / PNP PHOTO SENSOR KIT [2 SENSORS]



3H / 3HP (Standard)

NPN / PNP PHOTO SENSOR KIT [3 SENSORS]



Sensor location adjustable

LGS33 Express Program – Ships in two weeks

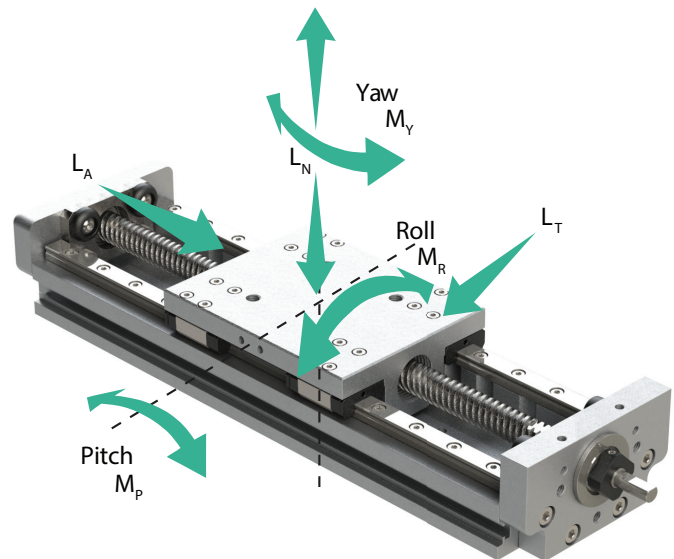
The following stages are in-stock solutions engineered for precision and quick delivery.

Part No	Travel [mm]	Screw Type	Nut Type	Efficiency	Pitch	Max Linear Speed	Linear Position Accuracy	Bi-Directional Repeatability
LGS33250IA-200(110)AB223H	110	Lead Screw	Anti-Backlash Nut	70%	0.250"	70mm/s 2.75"/s	±50µm	13µm
LGS33250IA-300(210)AB223H	210						±75µm	
LGS33250IA-400(310)AB223H	310						±100µm	
LGS33250IA-500(410)AB223H	410						±125µm	
LGS33250IA-600(510)AB223H	510						±150µm	
LGS33250IA-700(610)AB223H	610						±175µm	
LGS33250IA-800(710)AB223H	710						±200µm	
LGS33250IA-900(810)AB223H	810						±225µm	
LGS33250IA-1000(910)AB223H	910						±250µm	

All models come with NEMA 17 motor mount and 3H sensor options. For other options see page 20.

LGS33 - Linear Stage Specifications

	Metric	English
STATIC LATERAL LOAD (L_T)	480N	108 lbf
STATIC AXIAL LOAD (L_A)	890N	200 lbf
STATIC RADIAL LOAD (L_N)	1,600N	360 lbf
STATIC REVERSE RADIAL LOAD ($-L_N$)	1,600N	360 lbf
ROLL MOMENT RATING (M_R)	109N•m	80.4 lb•ft
PITCH MOMENT RATING (M_P)	133N•m	98.1 lb•ft
YAW MOMENT RATING (M_Y)	25N•m	18.4 lb•ft
DYNAMIC LOAD RATING (C)	5,120N	1,151 lbf



LGS33 and LGSW33 Part Number Configurator

LGS33 100I A - 300(210) A B1 2 2K XXXX

Model No.
LGS33
LGSW33

Lead	
IN (Lead Screw) [Ex. 250I = 0.250"]	M (Ball Screw) [Ex. 02M = 2MM]
050I	02M
100I	03M
125I	010M
200I	
250I	
500I	
1000I	

Slide Block
A - Single Long Block

Base Length (Travel)
A-Block
200 (110)
300 (210)
400 (310)
500 (410)
600 (510)
700 (610)
800 (710)
900 (810)
1000 (910)

Nut Type - Lead Screw
A = Anti-Backlash Lead Screw Nut
P = Plain Lead Screw Nut
Nut Type - Ball Screw
N = Min. Clearance Ball Nut
S = Standard Ball Nut

Motor Bracket
B0 = No Motor Flange
B1 = NEMA 23 Mount
B2 = NEMA 17 Mount
B3 = Wrap Bracket for NEMA 17
B4 = Custom Motor Bracket
B5 = Short Wrap Bracket for NEMA 17
B6 = 40mm Servo Mount
B7 = NEMA 23 Mount with 3/8" Bore
B8 = NEMA 23 Mount with 1/2" Bore
B9 = Kollmorgen AN
B10 = OMRON 200W
B11 = 60mm Servo Mount
B12 = Wrap Bracket for NEMA 23 with 1/4" Bore
B13 = Wrap Bracket for NEMA 23 with 3/8" Bore
R0 = Exposed Bracket

Cover Option
1 = No Cover
2 = With Cover

Sensor Option (See Table 3)
0 = No Sensors
2K = NPN Proximity Sensors Kit (2 NC)
21 = NPN Proximity Sensors Kit (2 NC, 1 NO)
2KP = Proximity Sensors Kit (2 NC)
21P = PNP Proximity Sensors Kit (2 NC, 1 NO)
2H = NPN Photo Sensor Kit (2 Sensors)
3H = NPN Photo Sensor Kit (3 Sensors)
2HP = PNP Photo Sensor Kit (2 Sensors)
3HP = PNP Photo Sensor Kit (3 Sensors)
CS = Customer Sensor Configuration

Special Options
C0 = 12 O'clock wrap Bracket orientation
C3 = 3 O'clock wrap Bracket orientation
C6 = 6 O'clock wrap Bracket orientation
C9 = 9 O'clock wrap Bracket orientation
Blank = Nothing
Special Lubrication*
Include Motor*
Special Machining*

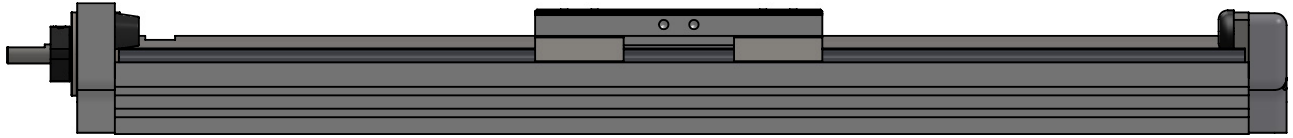
*Consult Novanta for custom length or special modifications.

Self-Locking Leadscrew;
suitable for z-axis with no brake.

LGS Sensor Options

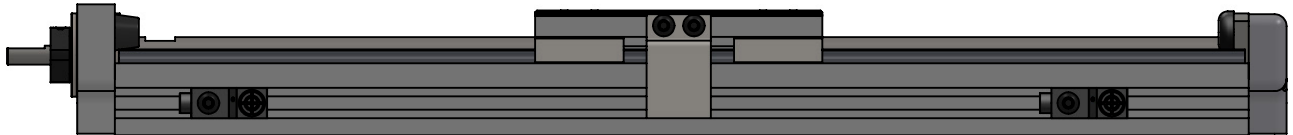
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NO SENSORS



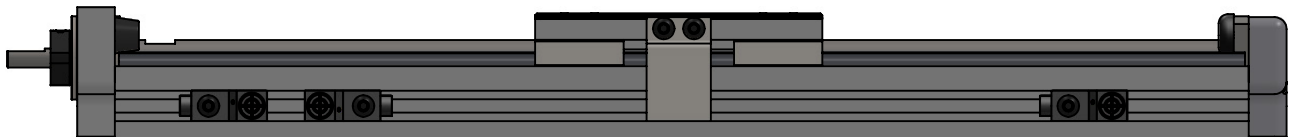
2K / 2KP

NPN / PNP PROXIMITY SENSOR KIT [2 NC]



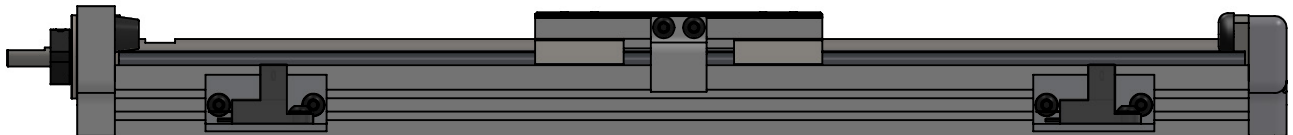
21 / 21P

NPN / PNP PROXIMITY SENSOR KIT [2 NC, 1 NO]



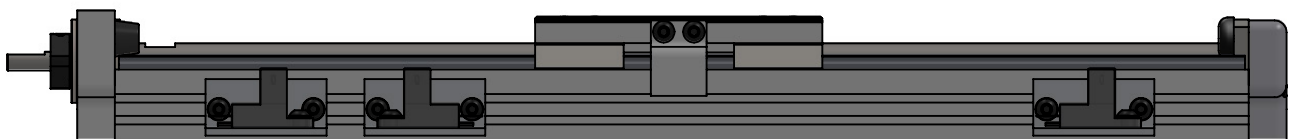
2H / 2HP

NPN / PNP PHOTO SENSOR KIT [2 SENSORS]



3H / 3HP (Standard)

NPN / PNP PHOTO SENSOR KIT [3 SENSORS]

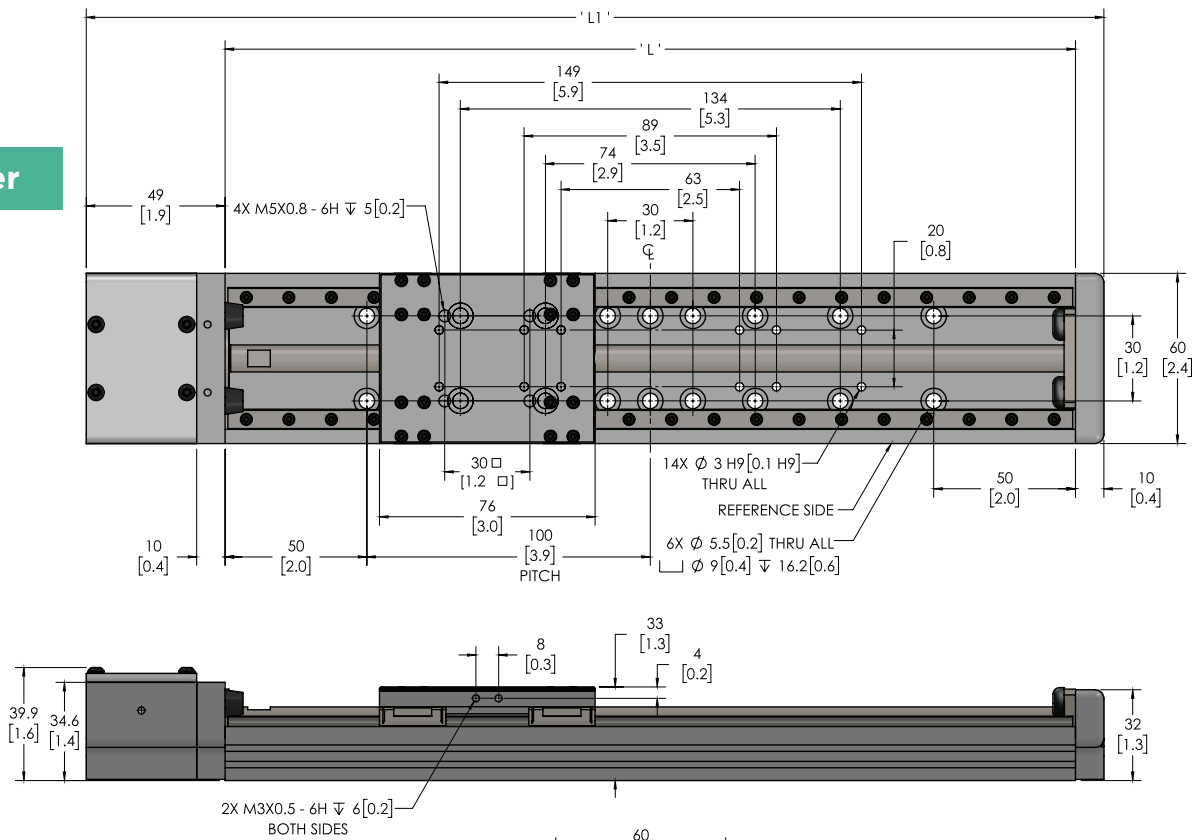


Sensor location adjustable

LGS33

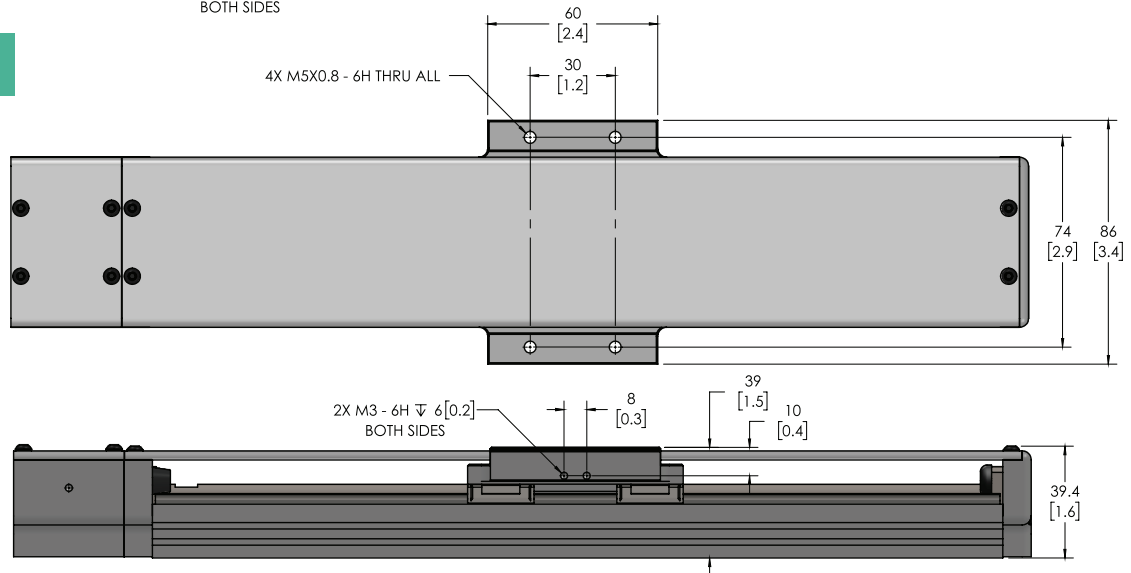
No Cover

Top View



With Cover

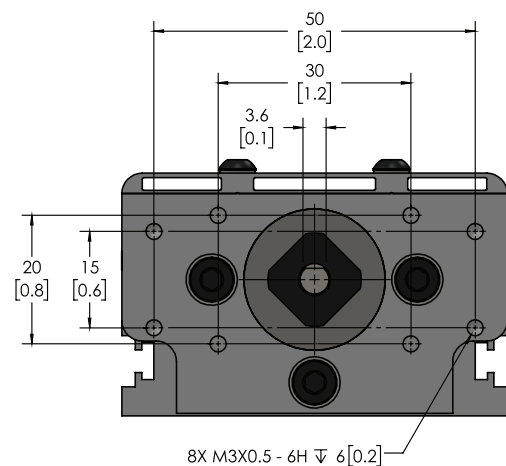
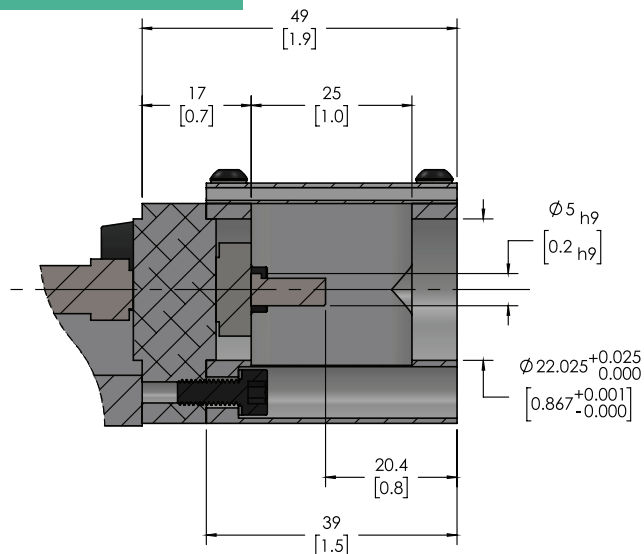
Top View



LGS33 Mechanical Dimensions Units: mm	Rail Length "L"	Overall Length "L1"	# of N Holes	Mass [kg]	Travel [mm]
	200	259	4	1.00	110
	300	359	6	1.50	210
	400	459	8	1.75	310
	500	559	10	2.00	410
	600	659	12	2.25	510
	700	759	14	2.50	610
	800	859	16	2.75	710
	900	859	18	3.25	810
	1000	1059	20	3.5	910

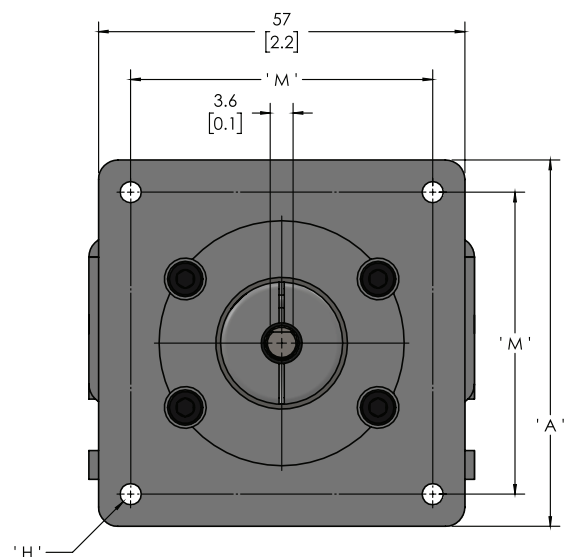
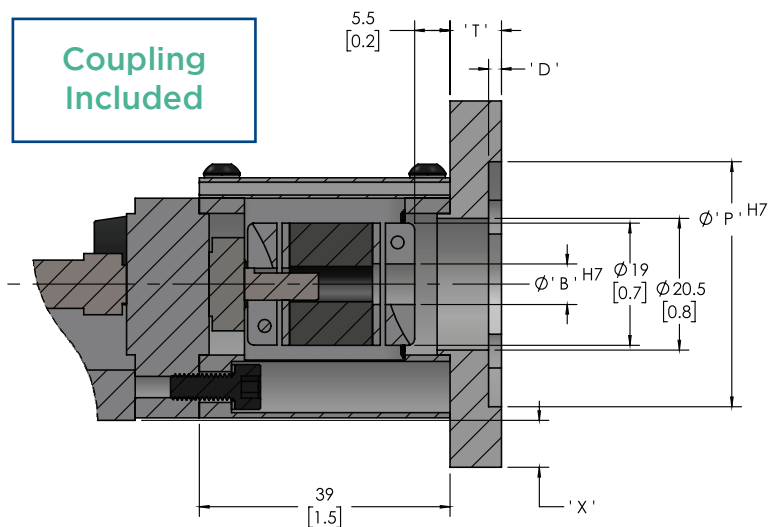
LGS33 - Motor Brackets

BO - Motor Mount



Bx - Motor Mount

Contact Novanta for Custom Motor Flanges

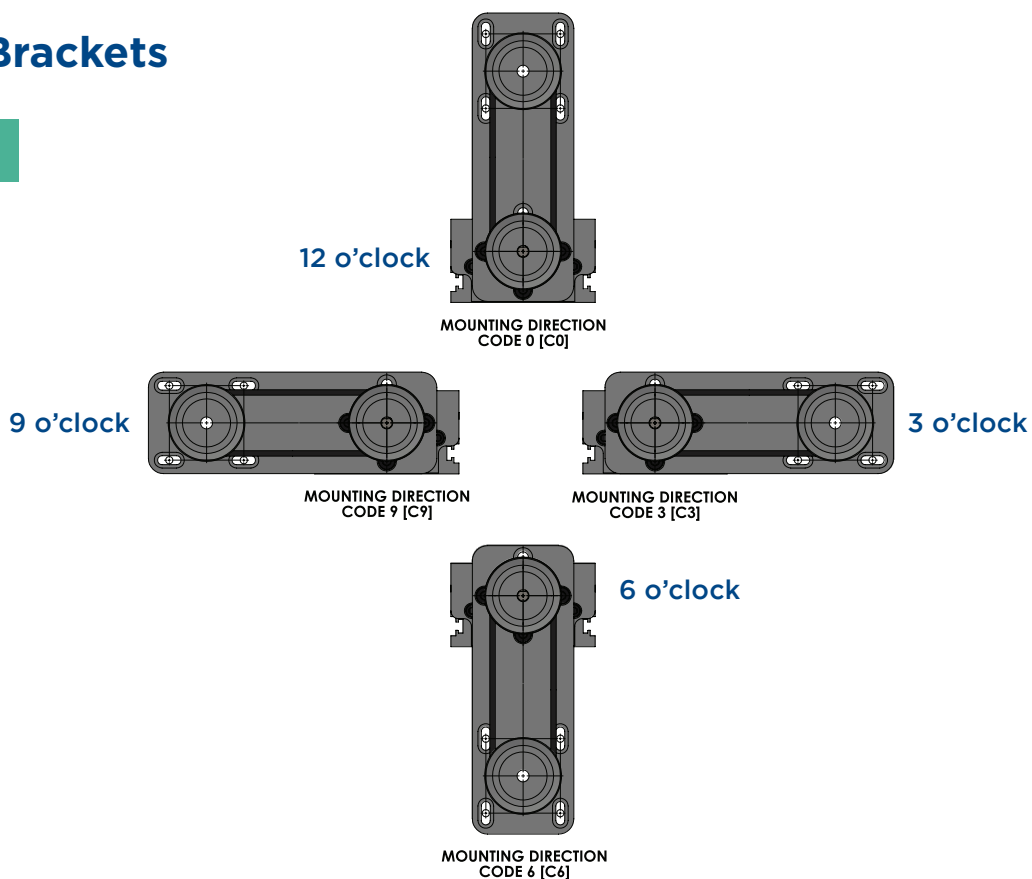


Motor Bracket	Motor Type	A [mm]	M [mm]	P [mm]	B [mm]	X [mm]	D [mm]	T [mm]	H
B1	NEMA 23W / 1/4" Shaft	57	47	38.1	6.35	8	2	8	M4
B2	NEMA 17W / 5mm Shaft	44	31	22	5	0	3	6	M3 C'Bore, Farside
B6	40mm Servo Motor	40	32.5	30	8	0	3	8	M3
B7	NEMA 23W / 3/8" Shaft	57	47	38.1	9.53	8	2	8	M4
B8	NEMA 23W / 1/2" Shaft	57	47	38.1	12.7	8	2	8	M4
B9	Kollmorgen AN	57	44.5	40	9	8	3	8	M4
B10	Omron 200W	60	49.5	50	11	10	3	12	M4
B11	60mm Servo Motor	60	49.5	50	14	10	3	12	M4

LGS33 - Motor Brackets

B3

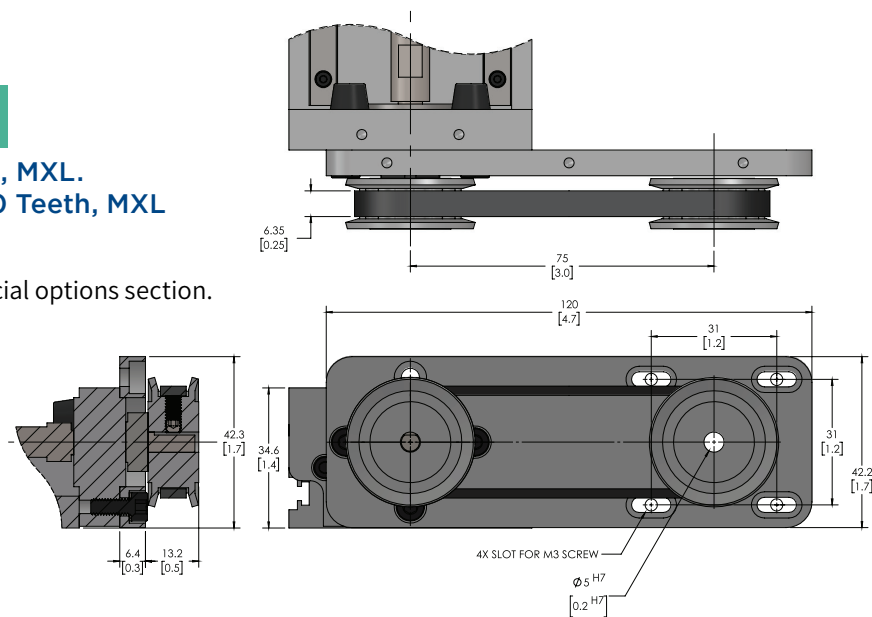
Mounting Orientations



B3 - Motor Mount

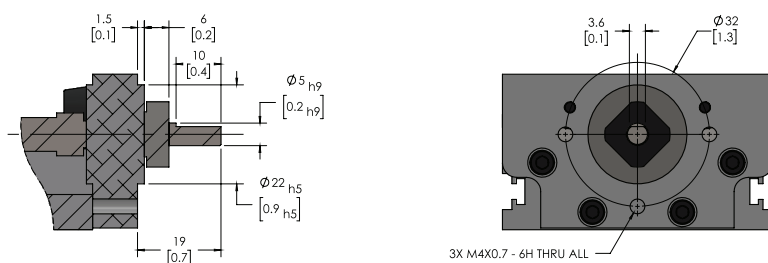
Includes pulleys: 26-Teeth, MXL.
Timing belt: 3/16" Belt, 90 Teeth, MXL

Call out orientation code in special options section.



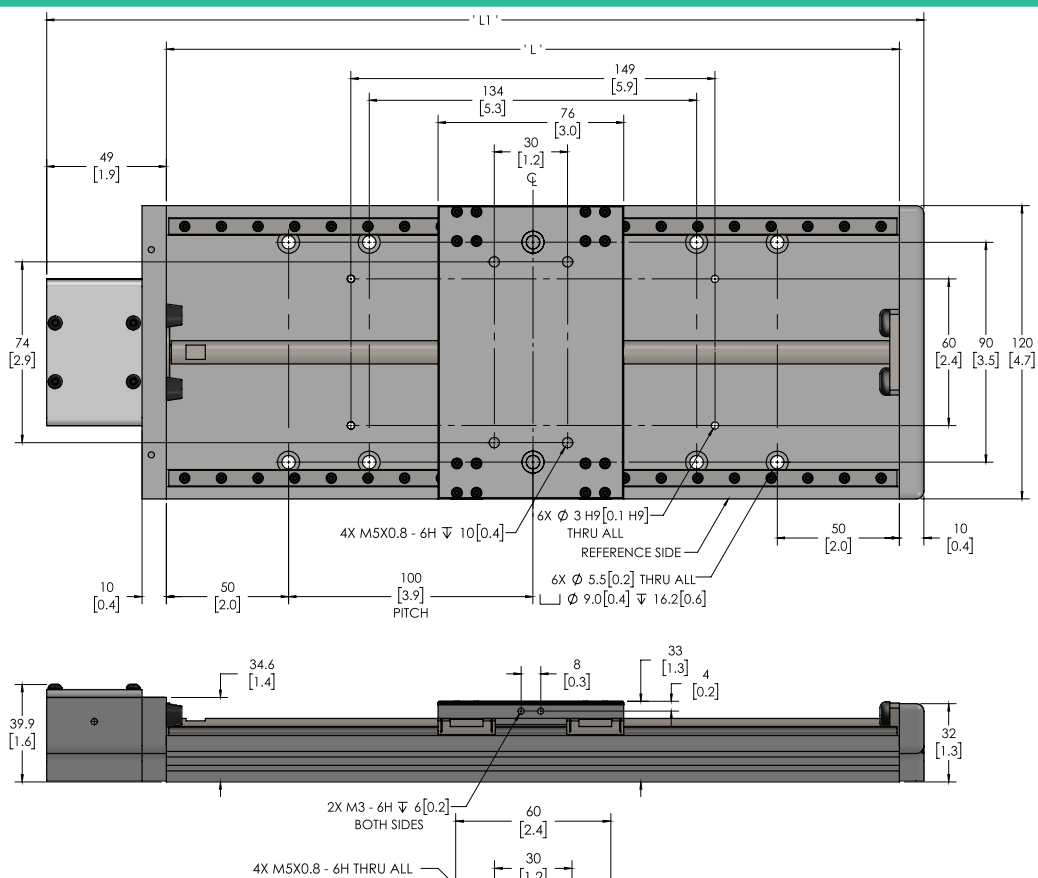
R0

Exposed Bracket

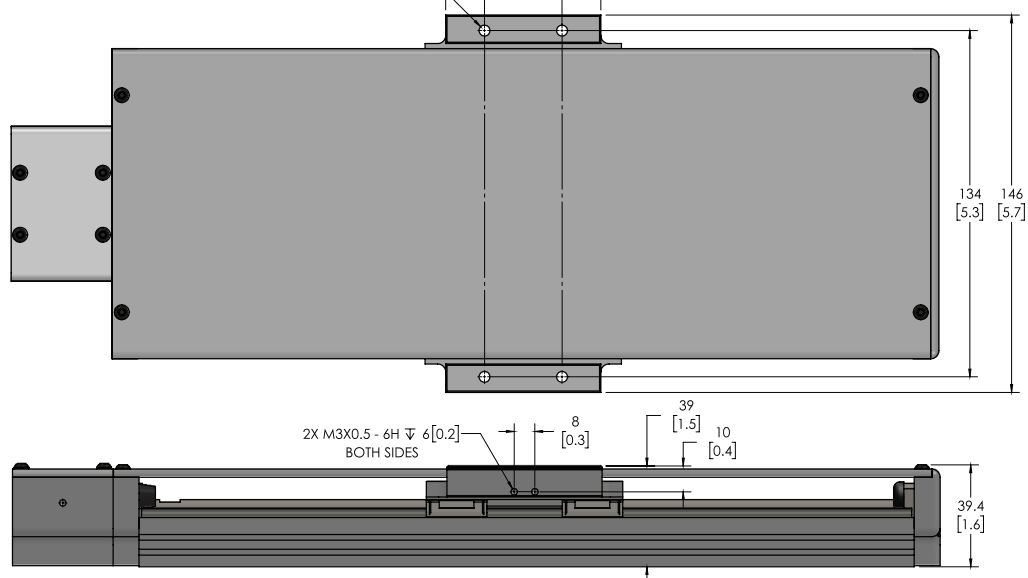


LGSW33

No Cover



With Cover



LGSW33 Mechanical Dimensions Units: mm	Rail Length "L"	Overall Length "L1"	# of N Holes	Mass [kg]	Travel [mm]
	200	259	4	1.65	110
	300	359	6	1.90	210
	400	459	8	2.15	310
	500	559	10	2.40	410
	600	659	12	2.65	510
	700	759	14	2.90	610
	800	859	16	3.15	710
	900	859	18	3.40	810
	1000	1059	20	3.65	910

LGSW33 Express Program – Ships in two weeks

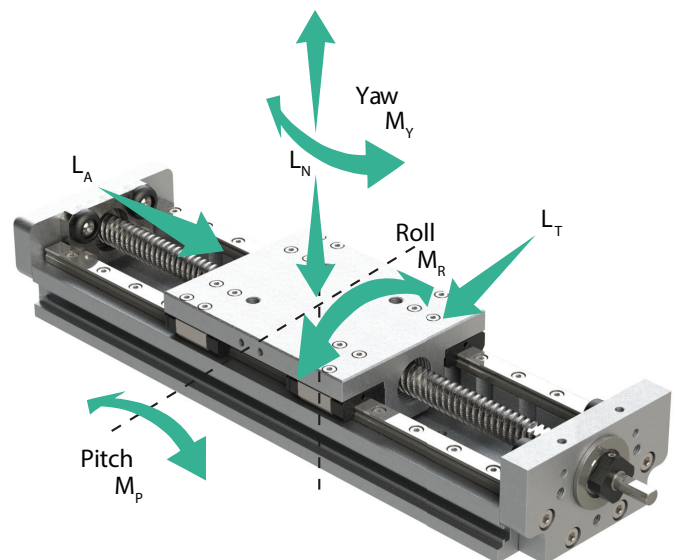
The following stages are in-stock solutions engineered for precision and quick delivery.

Part No	Travel [mm]	Screw Type	Nut Type	Efficiency	Pitch	Max Linear Speed	Linear Position Accuracy	Bi-Directional Repeatability
LGSW33250IA-200(110)AB223H	110	Lead Screw	Anti-Backlash Nut	70%	0.250"	70mm/s 2.75"/s	±50µm	13µm
LGSW33250IA-300(210)AB223H	210						±75µm	
LGSW33250IA-400(310)AB223H	310						±100µm	
LGSW33250IA-500(410)AB223H	410						±125µm	
LGSW33250IA-600(510)AB223H	510						±150µm	
LGSW33250IA-700(610)AB223H	610						±175µm	
LGSW33250IA-800(710)AB223H	710						±200µm	
LGSW33250IA-900(810)AB223H	810						±225µm	
LGSW33250IA-1000(910)AB223H	910						±250µm	

All models come with NEMA 17 motor mount and 3H sensor options. For other options see page 20.

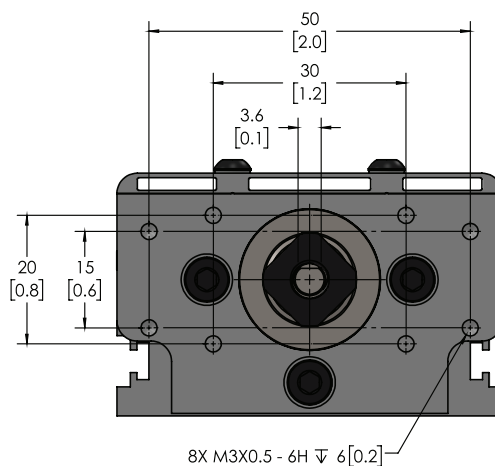
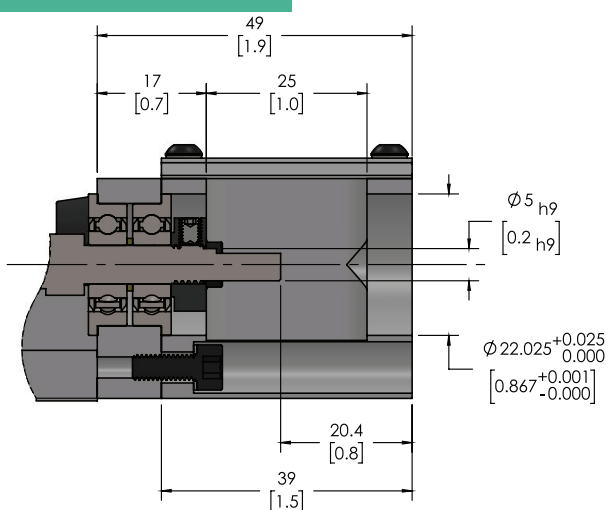
LGSW33 - Linear Stage Specifications

	Metric	English
STATIC LATERAL LOAD (L_T)	480N	108 lbf
STATIC AXIAL LOAD (L_A)	890N	200 lbf
STATIC RADIAL LOAD (L_N)	1,600N	360 lbf
STATIC REVERSE RADIAL LOAD ($-L_N$)	1,600N	360 lbf
ROLL MOMENT RATING (M_R)	218N•m	160.8 lb•ft
PITCH MOMENT RATING (M_P)	133N•m	98.1 lb•ft
YAW MOMENT RATING (M_Y)	25N•m	18.4 lb•ft
DYNAMIC LOAD RATING (C)	5,120N	1,151 lbf



LGS33 and LGSW33 - Motor Brackets

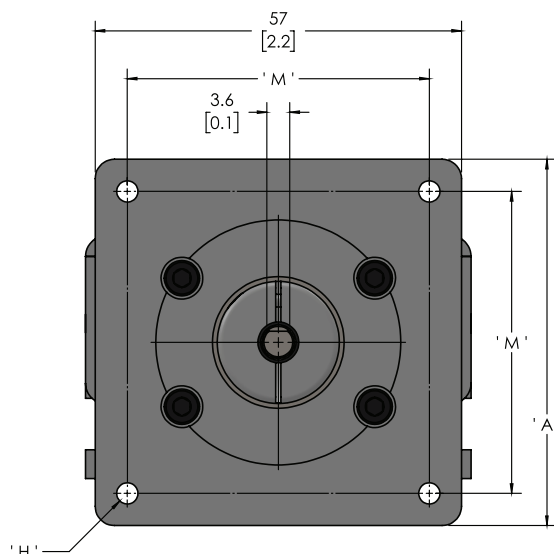
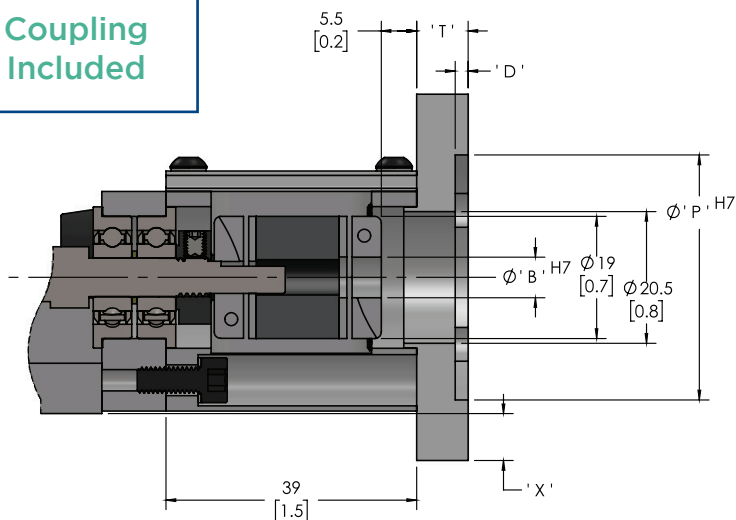
B0 - Motor Mount



Bx - Motor Mount

Contact Novanta for Custom Motor Flanges

Coupling
Included

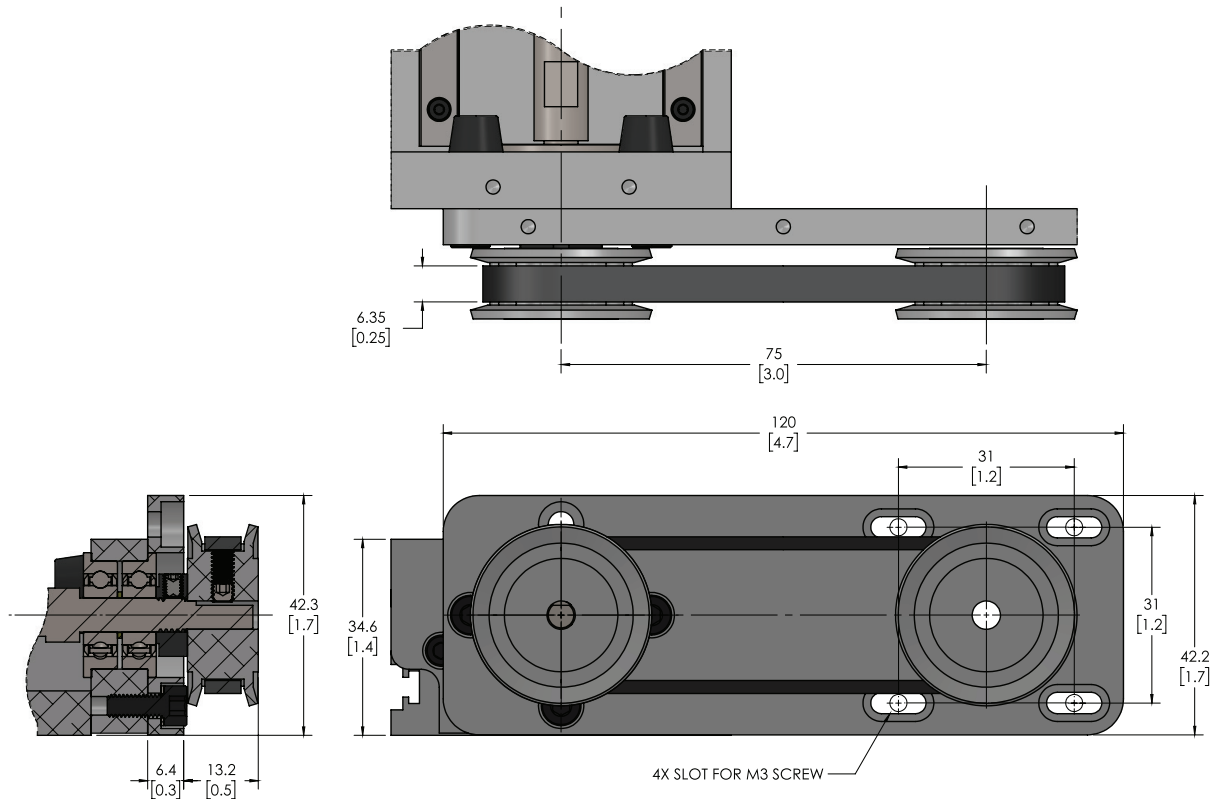


Motor Bracket	Motor Type	A [mm]	M [mm]	P [mm]	B [mm]	X [mm]	D [mm]	T [mm]	H
B1	NEMA 23W / 1/4" Shaft	57	47	38.1	6.35	8	2	8	M4
B2	NEMA 17W / 5mm Shaft	44	31	22	5	0	3	6	M3 C'Bore, Farside
B6	40mm Servo Motor	40	32.5	30	8	0	3	8	M3
B7	NEMA 23W / 3/8" Shaft	57	47	38.1	9.53	8	2	8	M4
B8	NEMA 23W / 1/2" Shaft	57	47	38.1	12.7	8	2	8	M4
B9	Kollmorgen AN	57	44.5	40	9	8	3	8	M4
B10	Omron 200W	60	49.5	50	11	10	3	12	M4
B11	60mm Servo Motor	60	49.5	50	14	10	3	12	M4

LGSW33 - Motor Brackets

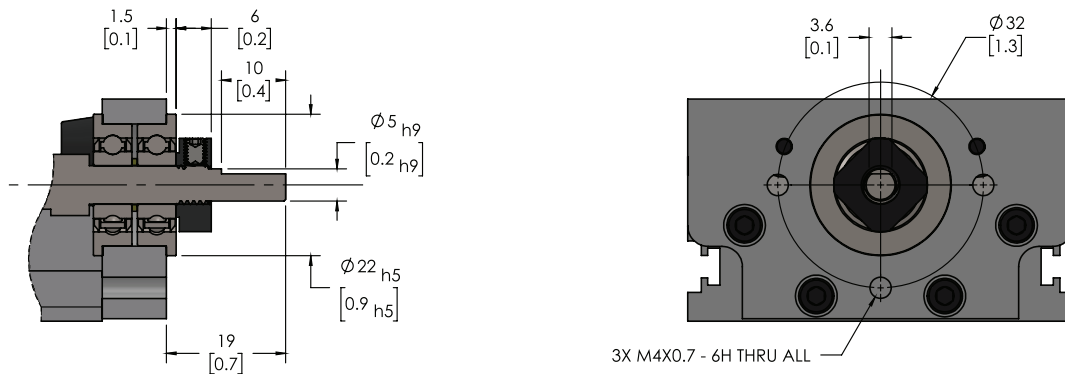
B3

Includes pulleys: 18-Teeth, XL. Timing belt: 1/4" Belt, 46 Teeth, XL

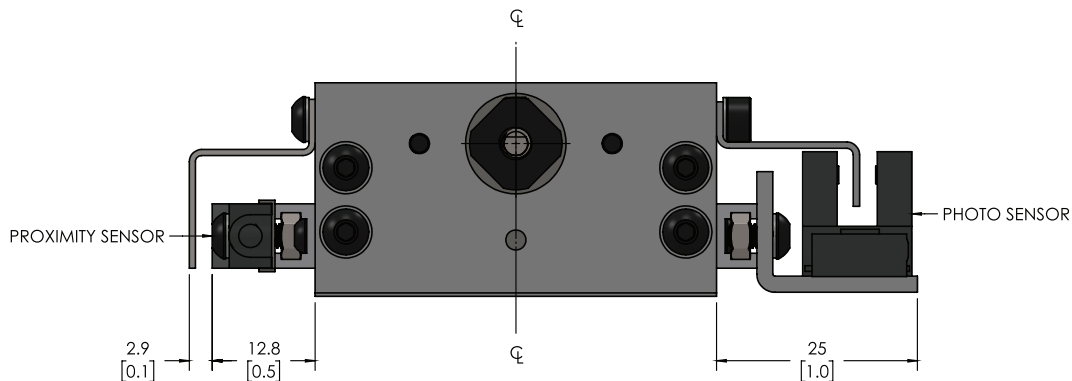


RO

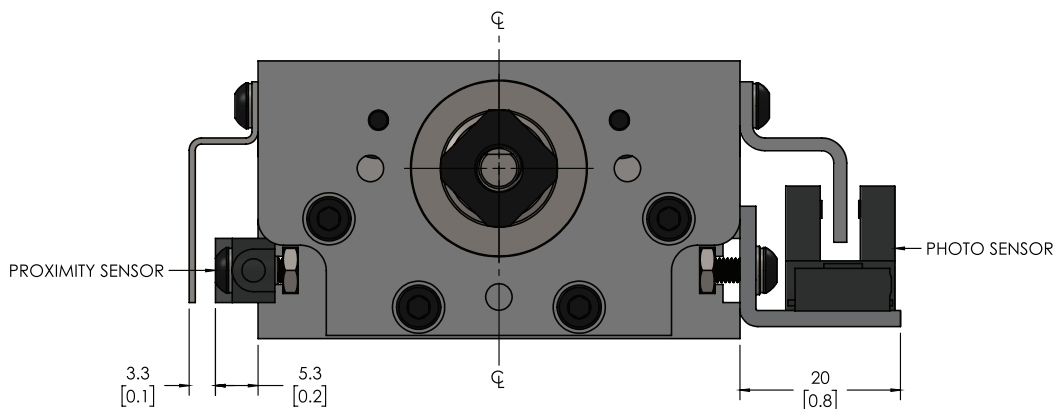
Exposed Bracket



LGS25 Sensor Drawing



LGS33 and LGSW33 Sensor Drawing



All sensor kits are mounted on the right side of the stage from the factory, but can be used on either side of the actuator.

Brown	12-24 VDC
Blue	GND(OV)
Black	Output

Brown	5-24 VDC
Pink	L +24 VDC = NC
Blue	GND(OV)
Black	Output

Sensor Options	Omron Part No.
2K = NPN Proximity Sensor Kit*	E2SW241M (2)
2I = NPN Proximity Sensor Kit*	E2SW241M (2) & E2SW23B1M (1)
2KP = PNP Proximity Sensor Kit*	E2SW261M (2)
2IP = PNP Proximity Sensor Kit*	E2SW261M (2) & E2SW25B1M (1)
2H = NPN Photo Sensor Kit**	EE-SX674 (2) & EE-1006 (2)
3H = NPN Photo Sensor Kit**	EE-SX674 (3) & EE-1006 (3)
2HP = PNP Photo Sensor Kit**	EE-SX674P (2) & EE-1006 (2)
3HP = PNP Photo Sensor Kit**	EE-SX674P (3) & EE-1006 (3)

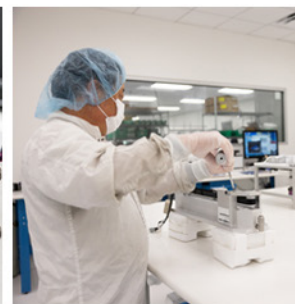
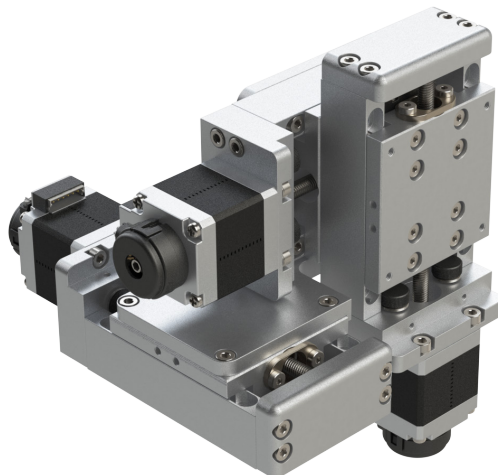
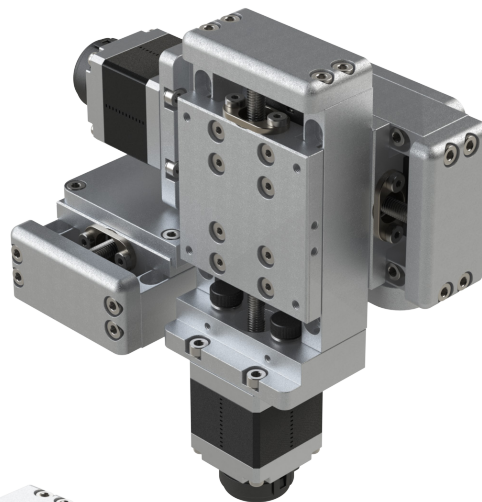
* Proximity Sensors come with integrated 1 meter cables

** Photo Sensors come with detachable 2 meter cables

Motor Coupling Cross Reference														
Motor Type				Rated Current	Holding Torque		Flange Size mm	Motor Bracket						
Manufacturer	Series	Motor Size	Part No		LGS25			LGSW33						
					oz-IN	N-cm		B1	B2	B3	B1	B2	B3	
DC Stepper Motor	Novanta IMS	Hybrid Stepper Motors	NEMA 14	M-1410-0.75S	0.75 A	10.0	7.0	□ 36.0	---	●	●	---	---	---
				M-1410-0.75D	0.75 A	10.0	7.0	□ 36.0	---	●	●	---	---	---
			NEMA 17	M-1713-1.5S	1.5 A	32.0	23.0	□ 42.0	●	---	---	---	●	●
				M-1713-1.5D	1.5 A	32.0	23.0	□ 42.0	●	---	---	---	●	●
				M-1713-1.5ES	1.5 A	32.0	23.0	□ 42.0	●	---	---	---	●	●
				M-1713-1.5ED	1.5 A	32.0	23.0	□ 42.0	●	---	---	---	●	●
				M-1715-1.5S	1.5 A	60.0	42.0	□ 42.0	●	---	---	---	●	●
				M-1715-1.5D	1.5 A	60.0	42.0	□ 42.0	●	---	---	---	●	●
				M-1715-1.5ES	1.5 A	60.0	42.0	□ 42.0	●	---	---	---	●	●
				M-1715-1.5ED	1.5 A	60.0	42.0	□ 42.0	●	---	---	---	●	●
				M-1719-1.5S	1.5 A	75.0	53.0	□ 42.0	●	---	---	---	●	●
				M-1719-1.5D	1.5 A	75.0	53.0	□ 42.0	●	---	---	---	●	●
				M-1719-1.5ES	1.5 A	75.0	53.0	□ 42.0	●	---	---	---	●	●
				M-1719-1.5ED	1.5 A	75.0	53.0	□ 42.0	●	---	---	---	●	●
			NEMA 23	M-2218-2.4S	2.4 A	90.0	64.0	□ 57.0	---	---	---	●	---	---
				M-2222-2.4S	2.4 A	144.0	102.0	□ 57.0	---	---	---	●	---	---
				M-2231-2.4S	2.4 A	239.0	169.0	□ 57.0	---	---	---	●	---	---
				M-2218-3.0S	3.0 A	90.0	64.0	□ 57.0	---	---	---	●	---	---
				M-2218-3.0D	3.0 A	90.0	64.0	□ 57.0	---	---	---	●	---	---
				M-2218-3.0ES	3.0 A	90.0	64.0	□ 57.0	---	---	---	●	---	---
				M-2218-3.0ED	3.0 A	90.0	64.0	□ 57.0	---	---	---	●	---	---
				M-2222-3.0S	3.0 A	144.0	102.0	□ 57.0	---	---	---	●	---	---
				M-2222-3.0D	3.0 A	144.0	102.0	□ 57.0	---	---	---	●	---	---
				M-2222-3.0ES	3.0 A	144.0	102.0	□ 57.0	---	---	---	●	---	---
				M-2222-3.0ED	3.0 A	144.0	102.0	□ 57.0	---	---	---	●	---	---
				M-2231-3.0S	3.0 A	239.0	169.0	□ 57.0	---	---	---	●	---	---
				M-2231-3.0D	3.0 A	239.0	169.0	□ 57.0	---	---	---	●	---	---
				M-2231-3.0ES	3.0 A	239.0	169.0	□ 57.0	---	---	---	●	---	---
				M-2231-3.0ED	3.0 A	239.0	169.0	□ 57.0	---	---	---	●	---	---
				M-2218-6.0S	6.0 A	100.0	71.0	□ 57.0	---	---	---	●	---	---
				M-2218-6.0ES	6.0 A	100.0	71.0	□ 57.0	---	---	---	●	---	---
				M-2218-6.0ED	6.0 A	100.0	71.0	□ 57.0	---	---	---	●	---	---
				M-2222-6.0S	6.0 A	150.0	106.0	□ 57.0	---	---	---	●	---	---
				M-2222-6.0ES	6.0 A	150.0	106.0	□ 57.0	---	---	---	●	---	---
				M-2222-6.0ED	6.0 A	150.0	106.0	□ 57.0	---	---	---	●	---	---
				M-2231-6.0S	6.0 A	257.0	181.0	□ 57.0	---	---	---	●	---	---
				M-2231-6.0ES	6.0 A	257.0	181.0	□ 57.0	---	---	---	●	---	---
				M-2231-6.0ED	6.0 A	257.0	181.0	□ 57.0	---	---	---	●	---	---

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