

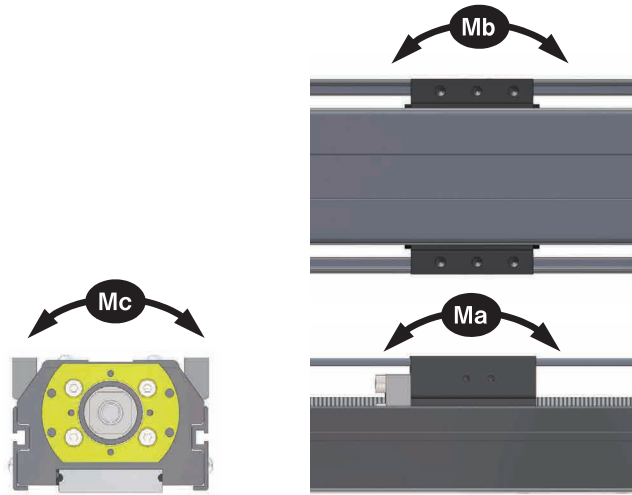


Load Rating

Type	Rail			Ball Screw						Bearing (fixed side) Axial Direction		Belt
	Basic Dynamic Load Rating C (N)	Basic Static Load Rating Co (N)	Radial Clearance (μm)	Basic Dynamic Load Rating Ca (N)	Basic Static Load Rating Coa (N)	Shaft Dia. (mm)	Lead (mm)	Root Dia. (mm)	Ball Center Dia. (mm)	Basic Dynamic Load Rating Ca (N)	Static Load Capacity Poa(N)	Allowable Tension (N)
LS1002	3500	5300	0~15	1200	2100	10	2	9.21	10.41	471.4	195.7	-
LS1004	3500	5300	0~15	1600	3400	10	4	8.68	10.68	471.4	195.7	-
LS1205	5800	8500	0~15	1800	4100	12	5	9.8	12.3	650	281.4	-
LS1210	5800	8500	0~15	2000	3500	12	10	9.8	12.3	650	281.4	-
LST10	4900	9700	-4~4	-	-	-	-	-	-	-	-	200

Allowable Static Moment

Type	Allowable Static Moment (N·m)		
	Ma	Mb	Mc
LS10	20.6	22.3	52.1
LS12	40.2	43.6	148
LST10	48.4	48.4	75.7



Material

Material: LS10 / LS12

Components	Base (Main Body)	Rail (Guide)	Table	Block	Motor Bracket	Cover	Stopper	Ball Screw (Rolled)
[M] Material	A6063	Carbon Steel	A6061	A6061	A6061	A6063	POM / Stainless Steel	S55C
[S] Surface Treatment	Black Anodize	-	Black Anodize	Black Anodize	Gold Anodize	Black Anodize	-	-
[H] Hardness	-	HRC58 or more	-	-	-	-	-	HRC58~62

Material: LST10

Components	Base (Main Body)	Rail (Guide)	Table	Block	Motor Bracket	Cover	Stopper	Belt	Pulley
[M] Material	A6063	Carbon Steel	A6063	A6061	A6061	A6063	POM	Polyurethane / Steel Cord	A2017
[S] Surface Treatment	Black Anodize	-	Black Anodize	Black Anodize	Gold Anodize	Black Anodize	-	-	Clear Anodize
[H] Hardness	-	HRC58~62	-	-	-	-	-	-	-

Total Mass

Type	Stroke (mm)												
	60	100	140	220	300	380	460	500	600	700	800	900	1000
LS10	1.20	1.33	1.47	1.73	2.00	-	-	-	-	-	-	-	-
LS12	2.30	2.49	2.68	3.06	3.44	3.82	4.20	-	-	-	-	-	-
LST10	-	-	-	-	-	-	-	3.3	3.7	4.1	4.5	4.9	5.3

Moment of Inertia

(10-4kg•cm²)

Type	Stroke (mm)												
	60	100	140	220	300	380	460	500	600	700	800	900	1000
LS1002	188	218	249	310	371	-	-	-	-	-	-	-	-
LS1004	197	228	259	320	381	-	-	-	-	-	-	-	-
LS1205	400	464	527	654	781	908	1035	-	-	-	-	-	-
LS1210	461	525	588	715	842	969	1096	-	-	-	-	-	-
LST10	-	-	-	-	-	-	-	4135	4139	4143	4146	4150	4154

Maximum Travel Speed

(mm/sec)

Type	Stroke												
	60	100	140	220	300	380	460	500	600	700	800	900	1000
LS1002	233	233	233	233	233	-	-	-	-	-	-	-	-
LS1004	467	467	467	467	467	-	-	-	-	-	-	-	-
LS1205	486	486	486	486	486	479	351	-	-	-	-	-	-
LS1210	972	972	972	972	972	958	702	-	-	-	-	-	-
LST10	-	-	-	-	-	-	-	400	400	350	350	300	300

Allowable Rotational Speed

Type	Stroke (mm)	Allowable Rotational Speed (min-1)
LS10	60~300	7000
	60~300	5800
LS12	380	5700
	460	4200
LST10	500•600	400
	700•800	350
	900•1000	300

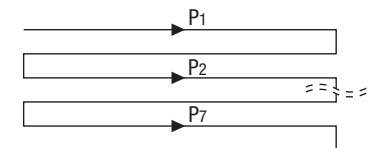
Accuracy Standards Table

Type	Positioning Repeatability (mm)	Running Parallelism (mm)	Starting Torque (N/cm)
LS10	±0.02	±0.02	2
LS12	±0.02	±0.02	7
LST10	±0.05	±0.05	-

Accuracy Standards

Positioning Repeatability

Repeat positioning and measurement seven times at the same point in a specified direction. 1/2 of the maximum difference with "±" in front is defined as the measurement value. See Accuracy Standards Table for design values.



Maintenance

Routine Inspections:

- Perform inspection once per 3 to 6 months.
- Check for proper lubrication conditions, clean-up and refill grease.
- Check the mounting screws for looseness.