

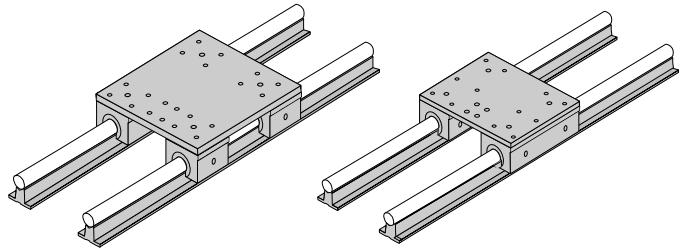
# Continuous Support 1PC

## Linear Guide #6

with Table Top

Fully Supported,

Industry Standard Dimensions



### METRIC

**Double Continuously Supported Linear Guide with 4 Pillow Blocks and Size F Table Top**

**Double Continuously Supported Linear Guide with 2 Twin Pillow Blocks and Size E Table Top**

**Load Rating and Limit by Direction**

	Dynamic Load Rating	Load Limit
$F_c$	C	C
$F_t$	0.5C	0.5C
$F_s$	C	0.5C

Dynamic Load Rating  
Load value used in life calculation.  
Load Limit  
Maximum allowable load applied to bearing.

**Continuously Supported Linear Guide 1PC Double with 4 Pillow Blocks and Table Top (Size F)** (Dimensions in mm)

Part Number	Nom. Dia.	L1	H	H1	A	A1	B	B1	B2	T	T1	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1PC-M12-LWF	12	39	56	28	43	21,5	98	22,5	55	100	100	L-(100)	SPPBO-M12-XS	SRA-M12-XS
1PC-M16-LWF	16	43	65	30	48	24,0	118	27,5	70	125	125	L-(125)	SSEPBO-M16-XS	SRA-M16-XS
1PC-M20-LWF	20	54	79	38	56	28,0	166	32,0	110	175	175	L-(175)	SSEPBO-M20-XS	SRA-M20-XS
1PC-M25-LWF	25	67	92	42	60	30,0	203	42,5	140	225	225	L-(225)	SSEPBO-M25-XS	SRA-M25-XS
1PC-M30-LWF	30	79	108	53	74	37,0	254	47,5	180	275	275	L-(275)	SSEPBO-M30-XS	SRA-M30-XS
1PC-M40-LWF	40	91	130	60	78	39,0	288	57,5	210	325	325	L-(325)	SSEPBO-M40-XS	SRA-M40-XS

**Continuously Supported Linear Guide 1PC Double with 2 Twin Pillow Blocks and Table Top (Size E)** (Dimensions in mm)

Part Number	Nom. Dia.	H	H1	A	A1	B	B1	B2	T	T2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1PC-M12-MWE	12	56	28	43	21,5	98	22,5	55	100	76	L-(76)	SPTWNO-M12-XS	SRA-M12-XS
1PC-M16-MWE	16	65	30	48	24,0	118	27,5	70	125	84	L-(84)	SSETWNO-M16-XS	SRA-M16-XS
1PC-M20-MWE	20	79	38	56	28,0	166	32,5	110	175	104	L-(104)	SSETWNO-M20-XS	SRA-M20-XS
1PC-M25-MWE	25	92	42	60	30,0	203	42,5	140	225	130	L-(130)	SSETWNO-M25-XS	SRA-M25-XS
1PC-M30-MWE	30	108	53	74	37,0	254	47,5	180	275	152	L-(152)	SSETWNO-M30-XS	SRA-M30-XS
1PC-M40-MWE	40	130	60	78	39,0	288	57,5	210	325	176	L-(176)	SSETWNO-M40-XS	SRA-M40-XS

**Dynamic Load Rating (C) Matrix** (100 km travel)

Linear Guide Assembly Part No.	Dynamic Load Rating, C (N) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Rating, C (N)
1PC-M12-LWF	3000	SPPBO-M12-XS	750
1PC-M16-LWF	8800	SSEPBO-M16-XS	2200
1PC-M20-LWF	16000	SSEPBO-M20-XS	4000
1PC-M25-LWF	26800	SSEPBO-M25-XS	6700
1PC-M30-LWF	33200	SSEPBO-M30-XS	8300
1PC-M40-LWF	54800	SSEPBO-M40-XS	13700

**Dynamic Load Rating (C) Matrix** (100 km travel)

Linear Guide Assembly Part No.	Dynamic Load Rating, C (N) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Rating, C (N)
1PC-M12-MWE	2440	SPTWNO-M12-XS	1500
1PC-M16-MWE	8800	SSETWNO-M16-XS	4400
1PC-M20-MWE	16000	SSETWNO-M20-XS	8000
1PC-M25-MWE	26800	SSETWNO-M25-XS	13400
1PC-M30-MWE	33200	SSETWNO-M30-XS	16600
1PC-M40-MWE	54800	SSETWNO-M40-XS	27400

### Continuously Supported Linear Guide 1PC Benefits:

- Requires only one part number to specify the entire linear guide.
- Includes table top with standard tapped holes for quick and easy mounting of the work piece.
- Includes Ball Screw Assembly attachment holes for ease of assembly and actuation.
- Used in continuously supported applications when rigidity is required.

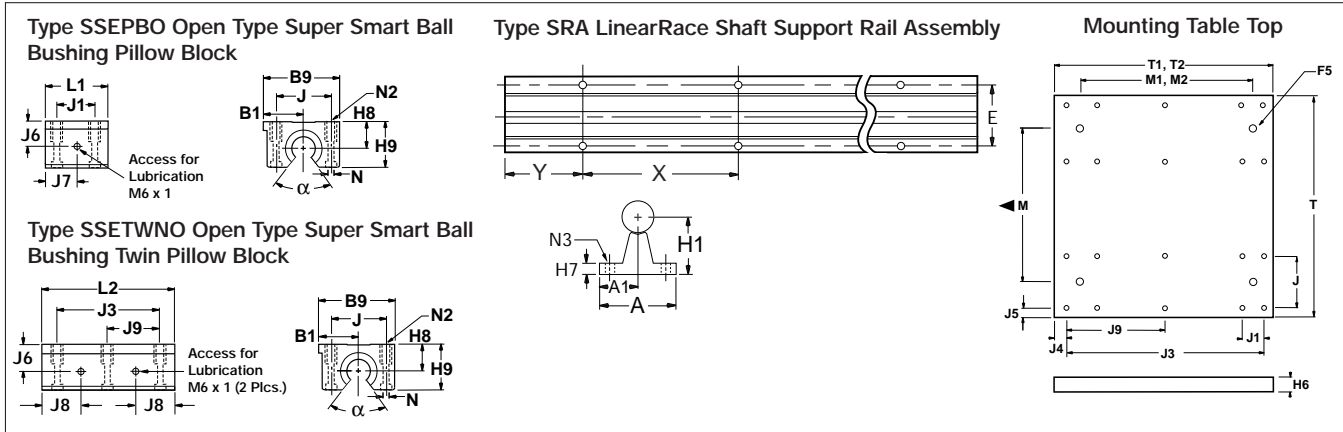
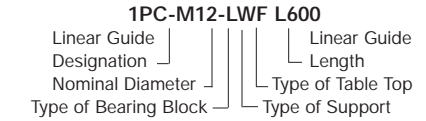
### Continuously Supported Linear Guide 1PC Components:†

- 4 Super Smart Ball Bushing\* open type pillow blocks or 2 Super Smart Ball Bushing open type twin pillow blocks.
- 2 60 Case\* LinearRace\* shaft Support Rail Assemblies.
- 1 mounting table top with work piece and Ball Screw Assembly attachment holes.

#### Specifying a Thomson Linear Guide:

1. Determine the proper system for your load and life requirements.
2. Select the part number.
3. Add the letter "L" followed by the overall length in millimeters, as a suffix to the part number.

#### Part Numbering System



Type SSEPBO Pillow Blocks (Dimensions in mm)														
Part Number	Nom. Dia.	L1	H8	H9	B1	B9	J6	J7	J	J1	N Dia.	N2	α Deg	Mass kg
SPPBO-M12-XS	12	39	18	28	21,5	43	16,7	19,5	32	23	4,3	M5	66	0,11
SSEPBO-M16-XS	16	43	22	35	26,5	53	22,0	21,5	40	26	5,3	M6	66	0,17
SSEPBO-M20-XS	20	54	25	41	30,0	60	25,0	27,0	45	32	6,6	M8	60	0,30
SSEPBO-M25-XS	25	67	30	50	39,0	78	31,5	33,5	60	40	8,4	M10	60	0,57
SSEPBO-M30-XS	30	79	35	60	43,5	87	33,0	39,5	68	45	8,4	M10	60	0,87
SSEPBO-M40-XS	40	91	45	77	54,0	108	43,5	45,5	86	58	10,5	M12	60	1,62

Housing Material: Aluminum Alloy Grey Anodized

Type SSETWNO Pillow Blocks						
Part Number	Nom. Dia.	L2	J3	J8	J9	Mass kg
SPTWNO-M12-XS	12	76	56	19,5	28	0,22
SSETWNO-M16-XS	16	84	64	21,5	32	0,34
SSETWNO-M20-XS	20	104	76	27,0	38	0,63
SSETWNO-M25-XS	25	130	94	33,6	47	1,18
SSETWNO-M30-XS	30	152	106	39,5	53	1,70
SSETWNO-M40-XS	40	176	124	45,5	62	3,18

Housing Material: Aluminum Alloy Grey Anodized

Type SRA LinearRace Shaft Support Rail Assembly (Dimensions in mm)										
Part Number	Nom. Dia.	H1	H7	A	A1	E	X	Y	N3 Dia.	Mass kg/m
SRA-M12-XS	12	28	5	43	21,5	29	75	37,5	4,5	4,1
SRA-M16-XS	16	30	5	48	24,0	33	100	50	5,5	6,2
SRA-M20-XS	20	38	6	56	28,0	37	100	50	6,6	9,5
SRA-M25-XS	25	42	6	60	30,0	42	120	60	6,6	13,7
SRA-M30-XS	30	53	8	74	37,0	51	150	75	8,6	20,0
SRA-M40-XS	40	60	8	78	39,0	55	200	100	8,6	32,5

LinearRace Shaft Support Rail Material: Aluminum Alloy Grey Anodized

Maximum length of LinearRace Shaft Support Rail is 600 mm. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Thomson **Linear Guide** application engineering department.

Mounting Table Top (Dimensions in mm)																
System	All Table Tops					Table Top Size F					Table Top Size E					
	T	M	J	H6	F5 <sup>(2)</sup>	T1	J1	J4	J5	M1	T2	J3	J4	J5	J9	M2
1PC-M12	100	55	32	10	M6	100	23	8,0	6,5	55	76	56	10	6,5	28	40
1PC-M16	125	70	40	13	M6	125	26	10,0	7,5	70	84	64	10	7,5	32	45
1PC-M20	175	110	45	16	M8	175	32	11,0	10,0	110	104	76	14	10,0	38	55
1PC-M25	225	140	60	20	M8	225	40	13,5	12,5	140	130	94	18	12,5	47	65
1PC-M30	275	180	68	20	M8	275	45	17,0	13,5	180	152	106	23	13,5	53	75
1PC-M40	325	210	86	25	M10	325	58	16,5	14,5	210	176	124	26	14,5	62	85

Material: Aluminum Alloy Grey Anodized

<sup>(2)</sup> Customer Mounting hole.

† Super Plus Ball Bushing\* bearings are used in 12 mm size pillow blocks.