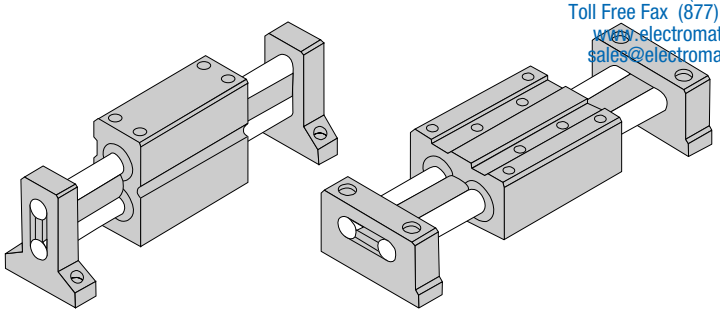
Twin Shaft Web* 2CA

Linear Guide #14

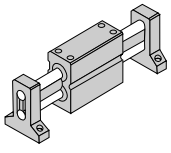
with Universal Carriage

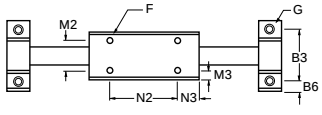
Unpack and Install

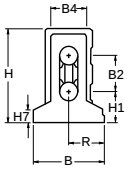


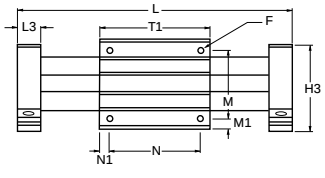
METRIC

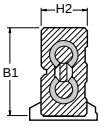
Twin Shaft Web Linear Guide with Universal Carriage Vertical Configuration











Twin Shaft Web Linear Guide End Supported 2CA (Vertical Configuration)													(Dimensions in mm)
Part Number	L3	H	H1	H3	H7	B	R	B2	B3	B4	B6	T1	N
2CA-08-OTH	15	70	22,5	65,0	10,6	55	27,5	28,6	41	28,6	7,5	90	75
2CA-12-OTH	20	92	28,4	87,3	15,4	74	36,9	38,1	56	41,3	10	115	100
2CA-16-OTH	25	117	34,6	114,0	19,6	100	50,0	50,7	76	57,2	12,5	155	135

Twin Shaft Web Linear Guide End Supported 2CA (Vertical Configuration)													(Dimensions in mm)
Part Number	N1	N2	N3	H2	B1	M	M1	M2	M3	F	G	Max. Stroke Length	Twin Shaft Web Part Number
2CA-08-OTH	7,5	60	15	38,1	66,6	50	8,3	25	6,6	M5	M5	L-(120)	TSW-08
2CA-12-OTH	7,5	85	15	50,8	88,9	75	7,0	35	7,9	M6	M6	L-(155)	TSW-12
2CA-16-OTH	10	115	20	63,3	114,1	90	12,0	45	9,0	M8	M8	L-(205)	TSW-16

2CA (Vertical Configuration) Carriage and End Support Part No.		
Linear Guide Part Number	Carriage Part Number	End Support Part Number
2CA-08-OTH	**WC-08-SM**	**WSB-08-VM**
2CA-12-OTH	**WC-12-SM**	**WSB-12-VM**
2CA-16-OTH	**WC-16-SM**	**WSB-16-VM**

Maximum Length is 1800 mm.

Shaft Deflection Note:
Load limit may be below the dynamic load rating due to shaft deflection. Bearings can accommodate up to 1/2º deflection.
See Engineering Section (pg 204) for Deflection calculations.

Twin Shaft Web* Linear Guide 2CA Benefits:

- Used when spanning or bridging a gap.
- Double LinearRace* shaft and welded integral web design maximizes torque and dramatically improves deflection characteristics.
- Prealigned for quick and easy installation.
- Designed to move medium loads with virtually frictionless travel.

Twin Shaft Web Linear Guide 2CA Components: †

- Universal integrated, carriage with 4 open type Super Smart Ball Bushing* bearings.
- Twin welded 60 Case* LinearRace shafts with integral web.
- 2 vertical or horizontal double end supports.

Specifying this Thomson Linear Guide:

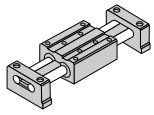
1. Determine the proper Linear Guide for your load and life requirements. **2.** Select the part number. **3.** Add the letter "L" followed by the overall length in millimeters, as a suffix to the part number.

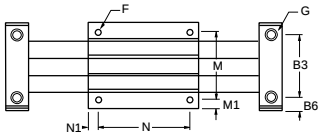
Part Numbering System

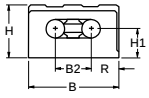
2CA-12-OWH L600

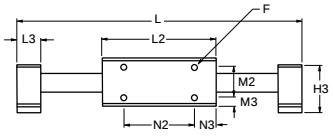
- Linear Guide Designation
- Nominal Diameter
- Type of Support
- Type of Carriage
- Linear Guide Length

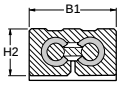
Twin Shaft Web Linear Guide with Universal Carriage Horizontal Configuration











Twin Shaft Web Linear Guide End Supported 2CA (Horizontal Configuration) (Dimensions in mm)

Part Number	L3	H	H1	H3	B	R	B2	B3	B6	T1	N
2CA-08-OWH	15	41	21,9	37,8	65,3	18,5	28,6	50	8	90	75
2CA-12-OWH	20	54	28,6	50,8	88	24,5	38,1	70	8,5	115	100
2CA-16-OWH	25	65	33,5	62,1	114	31,5	50,8	90	12	155	135

Twin Shaft Web Linear Guide End Supported 2CA (Horizontal Configuration) (Dimensions in mm)

Part Number	N1	N2	N3	H2	B1	M	M1	M2	M3	F	G	Max. Stroke Length	Twin Shaft Web Part Number
2CA-08-OWH	7,5	60	15	38,1	66,6	50	8,3	25	6,6	M5	M5	L-(120)	TSW-08
2CA-12-OWH	7,5	85	15	50,8	88,9	75	7,0	35	7,9	M6	M6	L-(155)	TSW-12
2CA-16-OWH	10,0	115	20	63,3	114,1	90	12,0	45	9,0	M8	M8	L-(205)	TSW-16

2CA (Horizontal Configuration) Carriage and End Support Part No.

Linear Guide Part Number	Carriage Part Number	End Support Part Number
2CA-08-OWH	**WC-08-SM**	**WSB-08-HM**
2CA-12-OWH	**WC-12-SM**	**WSB-12-HM**
2CA-16-OWH	**WC-16-SM**	**WSB-16-HM**

Dynamic Load Capacity Matrix (100 km travel)

Linear Guide Assembly Part No.	Dynamic Load Capacity (N) (Even Distribution)	Dynamic Roll Moment Capacity (N • M)
2CA-08-OTH	1290	18.5
2CA-12-OTH	8000	150
2CA-16-OTH	13,350	3385
2CA-08-OWH	1290	18.5
2CA-12-OWH	8000	150
2CA-16-OWH	13,350	340

† Super Ball Bushing* bearings are used in .500 inch size carriages.