

Compact Linear Sets, R1027
closed, standard or corrosion-resistant

Compact Linear Sets, R1028
adjustable, standard

Structural Design

- Precision housing (aluminum)
- Compact Linear Bushing
- Two internal seals
- **Lubricated with Dynalub 510**



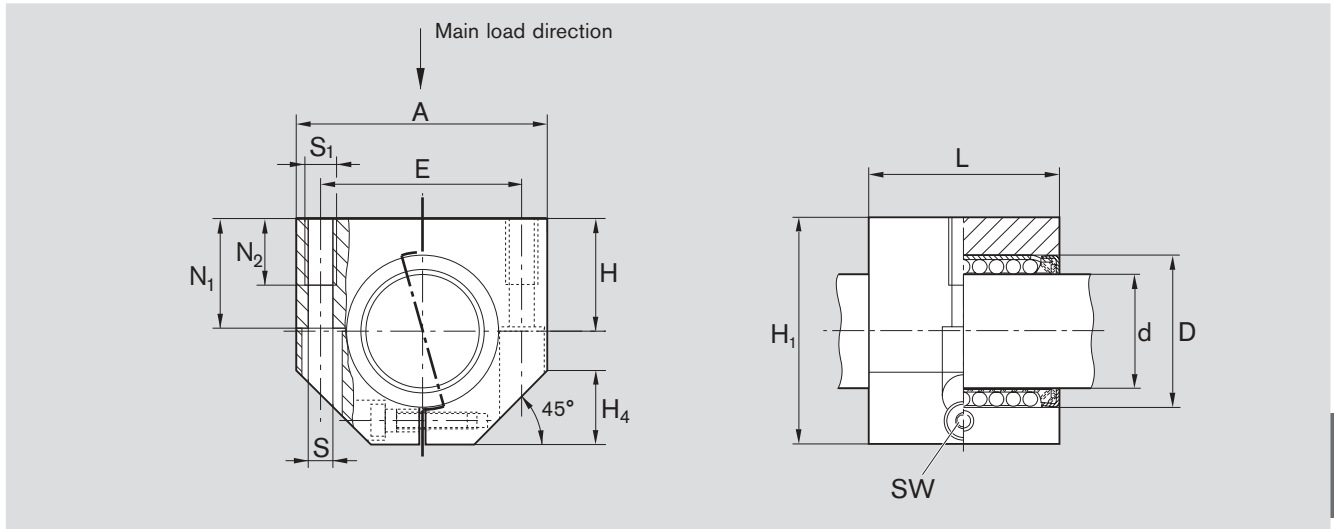
Shaft Ø d [mm]	Part numbers		Mass [kg]
	standard	corrosion-resistant ¹⁾	
12	R1027 212 44	R1027 212 34	0.08
16	R1027 216 44	R1027 216 34	0.11
20	R1027 220 44	R1027 220 34	0.15
25	R1027 225 44	R1027 225 34	0.27
30	R1027 230 44	R1027 230 34	0.40
40	R1027 240 44	R1027 240 34	0.75
50	R1027 250 44	R1027 250 34	1.20

¹⁾ Linear Bushing, corrosion-resistant (anti-friction bearing steel to ISO 683-17 / EN 10088)



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	standard	
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16	R1028 216 44	0.11
20	R1028 220 44	0.15
25	R1028 225 44	0.27
30	R1028 230 44	0.40
40	R1028 240 44	0.75
50	R1028 250 44	1.20

Dimensions



Ø d	D	H	H ₁	A	Dimensions [mm]			S ¹⁾	S ₁	N ₁	N ₂	H ₄	SW
					L	E	±0.15						
12	19	17	33	40	28	29	4.3	M5	16	11	11	2.5	
16	24	19	38	45	30	34	4.3	M5	18	11	13	2.5	
20	28	23	45	53	30	40	5.3	M6	22	13	15	3	
25	35	27	54	62	40	48	6.6	M8	26	18	17	4	
30	40	30	60	67	50	53	6.6	M8	29	18	19	4	
40	52	39	76	87	60	69	8.4	M10	38	22	24	5	
50	62	47	92	103	70	82	10.5	M12	46	26	30	6	

Shaft Ø d [mm]	Radial clearance [µm]		Tolerance for H ²⁾ [µm]	Load capacity ³⁾ [N]			
	R1027 h6	R1028 h7		standard		Corrosion-resistant	
				dyn. C	stat. C ₀	dyn. C	stat. C ₀
12	+32 0	+37 +2	±12	810	490	570	390
16	+32 0	+37 +2	±12	1050	570	730	460
20	+33 -1	+38 +2	+13 -12	1410	900	990	720
25	+36 0	+42 +2	+13 -12	2930	1950	2050	1560
30	+36 0	+42 +2	+13 -12	3850	2790	2700	2230
40	+42 -1	+48 +2	+14 -12	6380	4650	4470	3720
50	+42 -1	+48 +2	+14 -12	7180	5350	5030	4280

Adjusted to zero-clearance on h5 shaft (lower limit) prior to delivery

¹⁾ Mounting screws to ISO 4762-8.8.

²⁾ Relative to shaft nominal dimension d.

³⁾ The load capacities stated are minimum values as the position and direction of load cannot always be precisely defined. If the loading direction is not the main load direction, multiply the capacity numbers by the following factors:
 Shafts-Ø 12 and 16: f = 0.90 f₀ = 0.86
 Shafts-Ø 20 and 50: f = 0.79 f₀ = 0.68

The figures for dynamic load carrying capacity have been calculated assuming a nominal travel of 100,000 m. For a nominal travel of 50,000 m, the "C" figures in the table must be multiplied by a factor of 1.26.