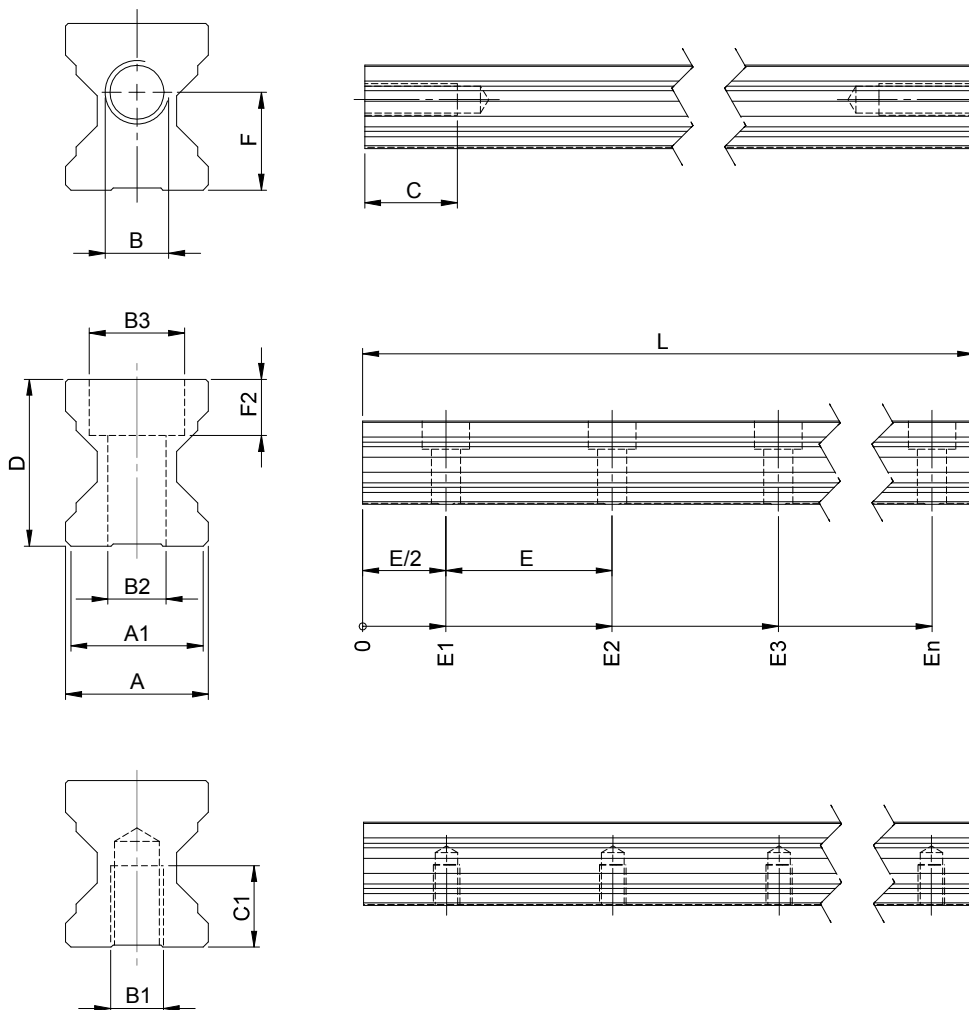


### 3.1.3.10 lifgo® guide rails • Dimension sheet

Guide rails are available with or without holes for screw attachment from the "top" or the "bottom." The hole spacings correspond to those of the lifgo® linear gear racks. The guide rails, with guide cars, are used in parallel with lifgo® or lifgo® linear. Multiple guide rails can be laid end-to-end. The gear rack protection on pages 72 and 74 can be used for these guide rails.



**!** For multi-part guide rails, the “E2” dimensions must be maintained at both ends of the rail (**symmetry**).

For multi-part guide rails, the parting joints of the rail and the substructure must not be in line.

When using the guide rail, consider the load capacity of the screws.

lifgo® guide rail	Unit	5.0	5.1	5.3	
A	mm	23	27	48	
A1	mm	21	25	46	
B	mm	M10	M12	M20	
B1	mm	M10	M10	M12	
B2	mm	Ø 9	Ø 11	Ø 13,5	
B3	mm	Ø 15	Ø 18	Ø 20	
C	mm	30	35	50	
C1	mm	15	15	20	
D	mm	26	31,5	48,5	
(E = Ze x m x Pi)	E	mm	62,831853	62,831853	109,955743
(example result for lower calculation)	E1	mm	31,42	31,42	54,98
	E2	mm	94,25	94,25	164,93
	E3	mm	157,08	157,08	274,89
Hole spacing from front end	En	mm	En = Ze x m x Pi x (n - 1/2)		
	F	mm	16	18,5	26,5
	F2		8,6	10,6	12,6
Total length	L	mm	as per customer data		
Number of teeth between two holes	Ze	each	20	8	14
Module	m	mm	1,0	2,5	2,5
Moment of inertia	Ix	mm <sup>4</sup>	18660	31938	303725
Moment of inertia	Iy	mm <sup>4</sup>	32149	65956	438696
Polar moment of inertia	Ip	mm <sup>4</sup>	50810	97895	742422
Weight	Hole at front	kg/m	4,02	5,40	15,43
	Screwed from above	kg/m	3,70	4,82	14,80
	Screwed from below	kg/m	3,90	5,25	14,26

Article number		5.0	5.1	5.3
lifgo® guide rail	Hole at front	500 101	500 102	500 103
lifgo® guide rail	Screwed from above	500 105	500 106	500 107
lifgo® guide rail	Screwed from below	500 109	500 110	500 111