STAR – Roller Rail™ Systems
Guide Rails

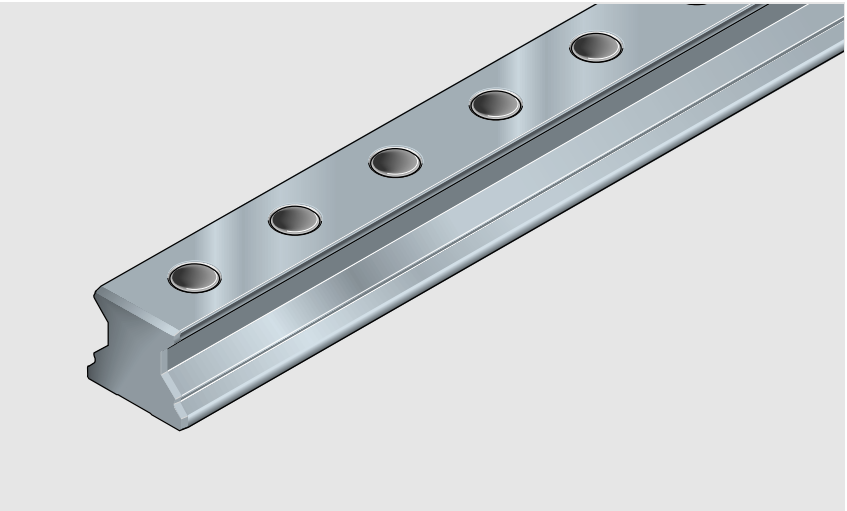
Guide Rail 1805-.5. -

For mounting from above with plastic mounting hole plugs

For special applications:

- Guide rails with steel mounting hole plugs for sizes 25 to 65 in accuracy classes SP, P, H

Part numbers: **1806-.5.-**
Steel mounting hole plugs and mounting jig to be ordered separately. Observe the mounting instructions for steel mounting hole plugs.

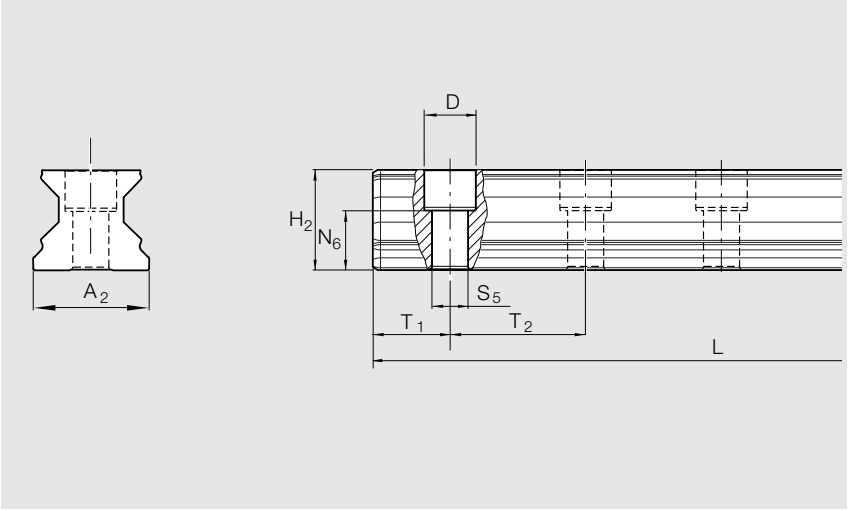


Part numbers and rail lengths

Size	Accuracy class	Guide rail one-piece Part number Rail length L (mm)	Guide rail composite Part number No. of sections, Rail length L (mm)
25	UP	1805-259-31,...	1805-259-3..., ...
	SP	1805-251-31,...	1805-251-3..., ...
	P	1805-252-31,...	1805-252-3..., ...
	H	1805-253-31,...	1805-253-3..., ...
35	UP	1805-359-31,...	1805-359-3..., ...
	SP	1805-351-31,...	1805-351-3..., ...
	P	1805-352-31,...	1805-352-3..., ...
	H	1805-353-31,...	1805-353-3..., ...
45	UP	1805-459-31,...	1805-459-3..., ...
	SP	1805-451-31,...	1805-451-3..., ...
	P	1805-452-31,...	1805-452-3..., ...
	H	1805-453-31,...	1805-453-3..., ...
55	UP	1805-559-31,...	1805-559-3..., ...
	SP	1805-551-31,...	1805-551-3..., ...
	P	1805-552-31,...	1805-552-3..., ...
	H	1805-553-31,...	1805-553-3..., ...
65	UP	1805-659-31,...	1805-659-3..., ...
	SP	1805-651-31,...	1805-651-3..., ...
	P	1805-652-31,...	1805-652-3..., ...
	H	1805-653-31,...	1805-653-3..., ...

Dimensions and weights

Special Version:
Zinc-iron coating, yellow chromated, in accuracy class H.
Part numbers:
1846.-13-3. (end faces uncoated)
1846.-13-4. (end faces coated)

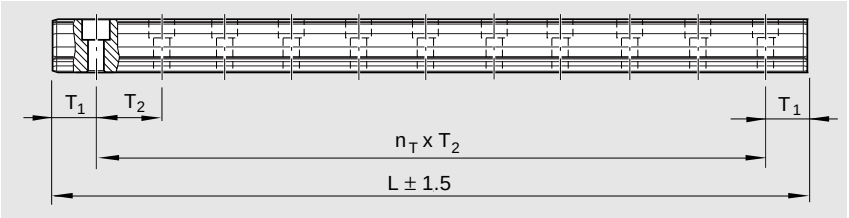


Dimension H_2 without Rail Seal

Size	A_2	H_2 2)	$N_6^{\pm 0.5}$	D	S_5	$T_{1S}^{\pm 0.5}$	$T_{1\ min}$	T_2	L_{max}	Weight kg/m
				Dimensions (mm)						
25	23	23.40	14.3	11	7	13.00	10	30.0	4000	3.1
35	34	30.80	19.4	15	9	18.00	12	40.0	4000	6.3
45	45	38.80	22.4	20	14	24.25	16	52.5	4000	10.3
55	53	47.55	28.7	24	16	28.00	18	60.0	4000	13.1
65	63	57.85	36.5	26	18	35.50	20	75.0	4000	17.4

Ordering a guide rail

Ordering example 1:
Guide rail size 35 with mounting hole plugs,
accuracy class H,
rail length 1756 mm,
(43 · T_2, number of holes n_B = 44)
Ordering data: **1805-353-31, 1756 mm**
(equal T_1 on both ends)



Intermediate lengths

Calculation of rail length L and ordering examples:

- The preferred dimension is T_{1S}
- If T_{1S} cannot be used, then
  - Select an end space T_1 between T_{1S} and $T_{1\ min}$
  - Do not go below the minimum spacing $T_{1\ min}$!

$L = n_B \cdot T_2 - 4$
or
$L = n_{T_2} \cdot T_2 + 2 \cdot T_{1S}$

L	= rail length	(mm)
T_2	= hole spacing*)	(mm)
T_{1S}	= preferred dimension*)	(mm)
n_B	= number of holes	
n_{T_2}	= number of spaces	
	*) see table for values	

Note

- T_1, $T_{1\ min}$, T_{1S} are the same at either end of the rail, unless otherwise specified.

Rail lengths above L_{max} are made up of fitted rail sections mounted end to end.

Ordering example 2 (over L_{max}):
Guide rail size 35 with mounting hole plugs,
Accuracy class H,
Rail length 5036mm, 2 sections

Ordering data:
Part number and number of sections,
length
T_1 / $n_{T_2} \cdot T_2$ / T_1 (mm)
1805-353-31, 5036 mm
18 / 125 · 40 / 18 mm