


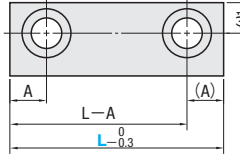
# PLAIN GUIDE RAILS

—NON-OIL GROOVE TYPE • OIL GROOVE TYPE—

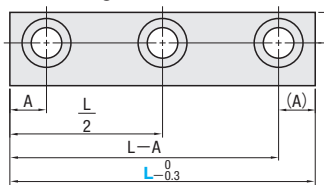
Ⓢ Non JIS material definition is listed on P.1351 - 1352



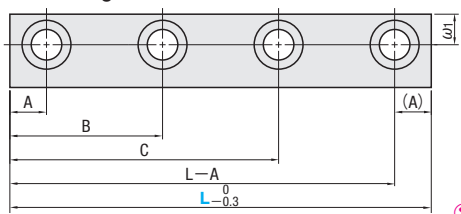
**■ Mounting bolt hole : 2**



**■ Mounting bolt hole : 3**



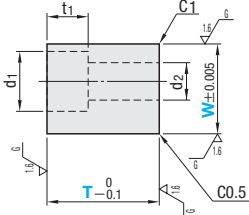
**■ Mounting bolt hole : 4**



**■ Table for Bolt Hole Size**

W	T	d1	d2	t1	ω1
10	5	8	4.5	3.5	4.5
	10 · 15			5	
12.5	5	8	4.5	3.5	5
	10 · 15 · 20			5	
15	5	8	4.5	3.5	6
	10 · 15 · 20 · 25			5.5	
	15 · 20			6	
20	15 · 20	11	6.5	7	9
	25 · 30	14	9	9	
25	20 · 25 · 30 · 35	14	9	9	10
	30 · 35	17	11.5	11	

Ⓢ Bolt hole dimension of T5 is available for Low Head Cap Screw (CBS). Note that standard socket head cap screw is too long to fit in.



Ⓢ All corners C ≤ 1 unless specified.

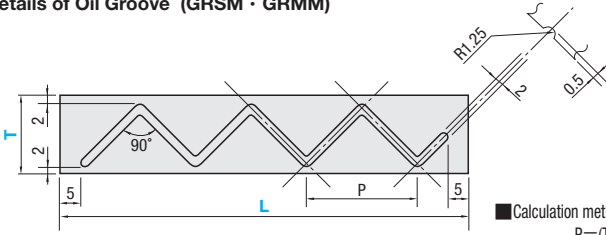
Part Number		M	H
Non-oil groove	Oil groove		
GRS	GRSM	SKS3	53~56HRC
GRM	GRMM	HPM2T equivalent	37~41HRC

**■ Oil Groove Pitch**

T	P
10	8
15	18
20	28
25	38
30	48
35	58

Ⓢ Please note that if L ≤ P + 10, there is the possibility that 1 cycle (1 pitch) of oil groove can not be cut.

**■ Details of Oil Groove (GRSM · GRMM)**



Ⓢ Calculation method for oil groove pitch  
P = (T - 6) × 2

Part Number Type	W	T Selection	L	No. of bolt holes	A	B	C
Non-oil groove GRS (SKS3) GRM (HPM2T equivalent)	10	(5)	30 35 40	2	7.5	—	—
			50 60	3			
		*35 40	2				
		50 60 70	3				
		80	4				
		90	4				
	100	2					
	12.5	(5)	30 35 40	2	7.5	—	—
			50 60	3			
		*35	2				
		40	3				
		50 60 70	4				
80		4					
90	2						
15	(5)	40 50 60	2	7.5	—	—	
		40 50 60	2				
	70 80 90 100 110 120	3					
	130	4					
	140	4					
	150	2					
20	15	40 50 60 70 80 90	2	10	—	—	
		100 110 120 130 140 150	3				
	160	4					
	180	4					
	200	2					
	25	20	40 50 60 70 80 90				2
100 110 120 130 140 150			3				
160		4					
180		4					
200		3					
30		20	120 130 140 150	3	12	—	—
	160		4				
	180	4					
	200	3					
	35	120 130 140 150	3				
		160	4				
30	30	180	4				
		200	4				

Ⓢ T5 is only applicable to GRS  
Ⓢ L35 with \* mark is only applicable to non-oil groove type, GRS and GRM.

**P** Price **Quotation**

Order **Part Number** — **T** — **L**  
GRS15 — 20 — 80

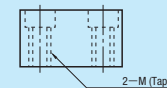
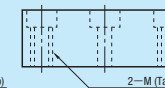

Days to Ship **Quotation**

■ GRSM List of sizes available for 3rd day shipment

Type	W	T	L
GRSM	12.5	15	40 · 50 · 60 · 70 · 80 · 90 · 100
	15	15 · 20	

Alterations **Part Number** — **T** — **L** — (MC)  
GRS15 — 20 — 80 — MC

**Quotation**

Alteration	Code	Spec.	1Code																		
  	MC	Process 2 places of tapping (both ends) for removal. Ⓢ Applicable to W10~25 Ⓢ Not applicable to T5	<b>Quotation</b>																		
		<table border="1"> <thead> <tr> <th>W</th> <th>T</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10 · 15</td> <td>M5</td> </tr> <tr> <td>12.5</td> <td>10 · 15 · 20</td> <td>M5</td> </tr> <tr> <td>15</td> <td>10 · 15 · 20 · 25</td> <td>M6</td> </tr> <tr> <td>20</td> <td>15 · 20</td> <td>M8</td> </tr> <tr> <td>25</td> <td>20 · 25 · 30 · 35</td> <td>M10</td> </tr> </tbody> </table>	W	T	M	10	10 · 15	M5	12.5	10 · 15 · 20	M5	15	10 · 15 · 20 · 25	M6	20	15 · 20	M8	25	20 · 25 · 30 · 35	M10	
W	T	M																			
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