

# OIL-FREE PLAIN GUIDE RAILS

—STANDARD TYPE (COPPER ALLOY • SKS3)—

# OIL-FREE PLAIN GUIDE RAILS

—BOLT HOLE PITCH DESIGNATION TYPE (COPPER ALLOY)—

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

**RoHS**

**■ Mounting bolt hole : 2**

**■ Mounting bolt hole : 3**

**■ Mounting bolt hole : 4**

**■ Table for Bolt Hole Size**

W	T	d1	d2	t1	ω1
12.5	10 · 15 · 20	8	4.5	5	5
15	10 · 15 · 20 · 25	9.5	5.5	6	6
20	15 · 20	11	6.5	7	9
	25 · 30	14	9	9	
25	20 · 25 · 30 · 35	17	11.5	11	11
30	30 · 35				

Ⓜ GRSZ ... Lubricant is not embedded in the lower surface.  
 Ⓜ All corners C≤1 unless specified.  
 Ⓜ Keep temperature under 80°C or lower.

Part Number	M	H
GRZ	Grade-4 high strength brass (CAC304) (Old JIS : HBSc4) Special solid lubricant embedded	—
GRSZ	SKS3 Special solid lubricant embedded	53~56HRC

Part Number Type	W	T Selection	L	No. of bolt holes	A	B	C			
								Order	Days to Ship	Price
GRZ (Copper alloy CAC304)	12.5	10	40	2	7.5	—	—	Order	Days to Ship	Price
		15	50 60 70	3				Quotation		
		20	80	4				Quotation		
		25	90	4				Quotation		
		30	100	4				Quotation		
		35	150	4				Quotation		
	20	10	40 50 60	2	7.5	—	—	Order	Days to Ship	Price
		15	70 80 90 100 110 120	3				Quotation		
		20	130	4				Quotation		
		25	140	4				Quotation		
		30	150	4				Quotation		
		35	150	4				Quotation		
GRSZ (SKS3)	15	10	40 50 60 70 80 90	2	7.5	—	—	Order	Days to Ship	Price
		15	100 110 120 130 140 150	3				Quotation		
		20	160	4				Quotation		
		25	180	4				Quotation		
		30	200	4				Quotation		
		35	200	4				Quotation		
	20	10	40 50 60 70 80 90	2	10	—	—	Order	Days to Ship	Price
		15	100 110 120 130 140 150	3				Quotation		
		20	160	4				Quotation		
		25	180	4				Quotation		
		30	200	4				Quotation		
		35	200	4				Quotation		

Ⓜ L dimensions enclosed in parentheses are not available for T35.

**RoHS**

**■ Mounting bolt hole : 2 [2H]**

**■ Mounting bolt hole : 3 [3H]**

**■ Mounting bolt hole : 4 [4H]**

**■ Table for Bolt Hole Size**

W	T	d1	d2	t1	ω1
12.5	10 · 15 · 20	8	4.5	5	5
15	10 · 15 · 20 · 25	9.5	5.5	6	6
20	15 · 20	11	6.5	7	9
	25 · 30	14	9	9	
25	20 · 25 · 30 · 35	17	11.5	11	11
30	30 · 35				

Ⓜ All corners C≤1 unless specified.  
 Ⓜ Keep temperature under 80°C or lower.

Part Number	M	H
GRZF-□H	Grade-4 high strength brass (CAC304) (Old JIS : HBSc4) Special solid lubricant embedded	—

Part Number Type	No. (Bolt hole)	W	T Selection	L	Bolt hole pitch 0.5mm increments											
					10mm increments	20mm increments	A		B		C		D			
GRZF (Copper alloy CAC304)	2H	12.5	10	40~70	—	6	B-10	A+10	2H L-6	3H C-10	B+10	3H L-6	C+10	4H L-6		
			15	60~100	—	7	B-11.5	A+11.5	2H L-7	3H C-11.5	B+11.5	3H L-7	C+11.5	4H L-7		
			20	100~150	—	7.5	B-13	A+13	2H L-7.5	3H C-13	B+13	3H L-7.5	C+13	4H L-7.5		
			25	150~200	—	9	B-16	A+16	2H L-9	3H C-16	B+16	3H L-9	C+16	4H L-9		
			30	200~250	—	10.5	B-19	A+19	2H L-10.5	3H C-19	B+19	3H L-10.5	C+19	4H L-10.5		
			35	250~300	—	—	—	—	—	—	—	—	—	—		
		3H	15	10	40~70	—	6	B-10	A+10	2H L-6	3H C-10	B+10	3H L-6	C+10	4H L-6	
				15	60~100	—	7	B-11.5	A+11.5	2H L-7	3H C-11.5	B+11.5	3H L-7	C+11.5	4H L-7	
				20	100~150	—	7.5	B-13	A+13	2H L-7.5	3H C-13	B+13	3H L-7.5	C+13	4H L-7.5	
				25	150~200	—	9	B-16	A+16	2H L-9	3H C-16	B+16	3H L-9	C+16	4H L-9	
				30	200~250	—	10.5	B-19	A+19	2H L-10.5	3H C-19	B+19	3H L-10.5	C+19	4H L-10.5	
				35	250~300	—	—	—	—	—	—	—	—	—	—	
	4H	20	10	40~70	—	6	B-10	A+10	2H L-6	3H C-10	B+10	3H L-6	C+10	4H L-6		
			15	60~100	—	7	B-11.5	A+11.5	2H L-7	3H C-11.5	B+11.5	3H L-7	C+11.5	4H L-7		
			20	100~150	—	7.5	B-13	A+13	2H L-7.5	3H C-13	B+13	3H L-7.5	C+13	4H L-7.5		
			25	150~200	—	9	B-16	A+16	2H L-9	3H C-16	B+16	3H L-9	C+16	4H L-9		
			30	200~250	—	10.5	B-19	A+19	2H L-10.5	3H C-19	B+19	3H L-10.5	C+19	4H L-10.5		
			35	250~300	—	—	—	—	—	—	—	—	—	—		

Ⓜ Specify L dimensions marked\* in 20mm increments.

Order **Part Number** - T - L - A - B - C - D **Days to Ship** **Quotation**

2H GRZF-2H15 - 10 - 70 - A7 - B19  
 3H GRZF-3H15 - 10 - 100 - A7 - B19 - C31  
 4H GRZF-4H15 - 10 - 100 - A7 - B19 - C31 - D43

Price **Quotation**

Alterations

Part Number - T - L - A - B - (MC - CC)  
 GRZF-2H15 - 10 - 70 - A7 - B19 - MC

Quotation

Alterations	Code	Spec.	1Code
	MC	Change to tap hole Ⓜ Applicable to W12.5~25 Details P.684	<b>Quotation</b>
	CC	C chamfering Details P.684	