


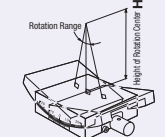
[High Precision] Goniometer Stages - Dovetail Slide, 1-Axis / 2-Axis

■ **Features:** Circular arc motion stages with arc centers located on central perpendicular line above the stage tops. Suitable for large angle positioning applications.

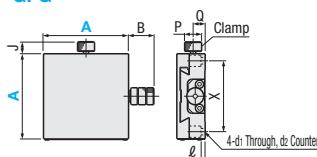
■ 1-Axis



The height of Rotation Center is as shown below.



GFG




Rotation Center

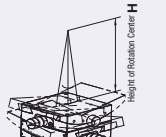
Material: Low Cadmium Brass
Surface Treatment: Black Fluoresin Treatment

RoHS 10

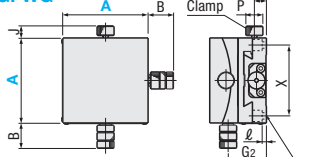
■ 2-Axis



The height of Rotation Center is as shown below.



GFWG



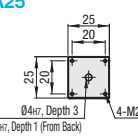
Rotation Center

Material: Low Cadmium Brass
Surface Treatment: Black Fluoresin Treatment

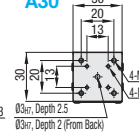
RoHS 10

• **Table Mounting Hole Dimensions**

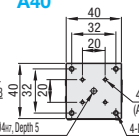
A25



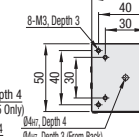
A30



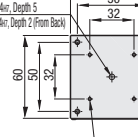
A40



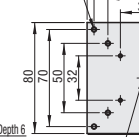
A50



A60



A80



Part Number Type	Front View					Side View					Accessory (4 pcs.) Type M-L	
	A-H	B	J	H ₁	D	G	P	Q	X	ℓ		d ₁
25-20	19	9	15	10	5.5	10	6.2	20	3	2.5	4.2	SCB2-6
25-35	19	9	15	10	6	10	7.7	20	3	2.5	4.2	SCB2-8
30-30	19.5	9	14	10	6.5	6	6.3	13	5	2.3	3.8	SCB3-6
30-44	19.5	9	13	10	6.5	6	6.3	13	5	2.3	3.8	SCB3-8
40-25	17.5	8	15	9	4.8	10	5.8	32	2	3.5	6	SCB4-8
40-40	18	8	20	12	8.5	10	9.7	32	5	3.5	6	SCB4-12
40-60	18	8	20	12	8.5	10	9.7	32	5	3.5	6	
50-50	18	7.7	18	12	7	10	7	40	3	3.5	6	
50-68	18	7.7	18	12	8	10	8	40	3	3.5	6	
50-86	18	7.7	18	12	8	10	8	40	3	3.5	6	
60-35	18	8.6	25	12	9	12	10.5	50	3	4.5	8	
60-60	18	8.6	20	12	7	12	8.5	50	3	4.5	8	
60-80	18	8.6	20	12	7	12	8.5	50	3	4.5	8	
80-100	25	14	30	15	11	15	14	70	7	4.5	8	
80-130	25	14	30	15	11	15	13	70	7	4.5	8	

• **Performance**

Part Number Type	Stage Surface (mm)	Height of Rotation Center (H) (mm)	Travel Distance	Travel per Rotation	Load Capacity (N)	Moment Pitching (N-m)	Load Capacity (N-m) Yawing	Rolling	Weight (kg)	Unit Price
25-20	25x25	20	±15°	≈2.0°	19.6	0.3	0.3	0.3	0.07	
25-35	25x25	35	±10°							
30-30	30x30	30	±10°	≈2.06°	9.8	0.5	0.5	0.5	0.10	
30-44	30x30	44	±10°	≈1.5°					0.18	
40-25	40x40	25	±20°	≈2.2°		0.8	1.0	1.0	0.24	
40-40	40x40	40	±15°	≈1.89°						
40-60	40x40	60		≈1.33°	29.4					
50-50	50x50	50	±10°	≈1.55°						
50-68	50x50	68		≈1.2°		1.0	1.2	1.2	0.36	
50-86	50x50	86	±8°	≈0.97°						
60-35	60x60	35	±25°	≈2.0°					0.72	
60-60	60x60	60	±20°	≈1.3°	58.8	1.5	2.0	2.0	0.58	
60-80	60x60	80	±15°	≈1.0°						
80-100	80x80	100	±18°	≈1.0°	49.0	2.0	3.0	3.0	0.64	
80-130	80x80	130	±15°							

⚠ Resolution (Vernier Scale Indication): 0.1°/division
 ⚠ Please note that, when the stage is moved in a travel distance higher than the predetermined value, the top plate may come off.

■ **2-Axis**

Part Number Type	Front View					Side View					Accessory (4 pcs.) Type M-L				
	A-H	B	J	H ₁	H ₂	D	G ₁	Q ₂	P	Q ₁		G ₂	X	ℓ	d ₁
25-20	19	9	15	30	10	6	21.15	10	7.7	20.5	20	3	2.5	4.2	SCB2-6
30-30	19.5	8.7	13	27	10	6.5	19.3	6	6.3	19.5	13	5	2.3	3.8	SCB2-8
40-25	17.5/18*	8	20	35	12	8.5	25.8	10	9.7	24.8	32	5	3.5	6	SCB3-6
40-40	18	8	20	40	12	8.5	29.7	10	9.7	28.5	32	5	3.5	6	SCB3-8
50-50	18	7.7	18	36	12	8	25	10	8	25	40	3	3.5	6	SCB3-6
50-68	18	7.7	18	36	12	8	26	10	8	26	40	3	3.5	6	SCB3-6
60-35	18	8.6	20	45	12	7	30	12	8.5	29	50	3	4.5	8	SCB4-8
60-60	18	8.6	20	40	12	7	28.5	12	8.5	27	50	3	4.5	8	SCB4-8
80-100	25	14	30	60	15	11	44	15	13	41	70	7	4.5	8	SCB4-12

• **Performance**

* GFWG40-25 knob length (B): Top 17.5, Bottom 18mm

Part Number Type	Stage Surface (mm)	Height of Rotation Center (H) (mm)	Travel Distance	Travel per Rotation	Moment Pitching (N-m)	Load Capacity (N) Yawing	Rolling	Load Capacity (N)	Weight (kg)	Unit Price
25-20	25x25	20	(Top)=15°/(Bottom)=10°	(Top)=2.0°/(Bottom)=2.0°	0.3	0.3	0.3	19.6	0.14	
30-30	30x30	30	(Top)=10°/(Bottom)=10°	(Top)=2.06°/(Bottom)=1.5°	0.5	0.5	0.5	9.8	0.20	
40-25	40x40	25	(Top)=20°/(Bottom)=15°	(Top)=2.2°/(Bottom)=1.89°	0.8	1.0	0.8	27.4	0.42	
40-40	40x40	40	(Top)=15°/(Bottom)=10°	(Top)=1.89°/(Bottom)=1.33°	1.0	1.2	1.0	26.4	0.48	
50-50	50x50	50	(Top)=10°/(Bottom)=10°	(Top)=1.55°/(Bottom)=1.2°	1.0	1.2	1.0	24.5	0.72	
50-68	50x50	68	(Top)=10°/(Bottom)=8°	(Top)=1.2°/(Bottom)=0.97°	1.5	2.0	1.5	51.9	1.30	
60-35	60x60	35	(Top)=25°/(Bottom)=20°	(Top)=2.0°/(Bottom)=1.3°	1.5	2.0	1.5	52.9	1.16	
60-60	60x60	60	(Top)=20°/(Bottom)=15°	(Top)=1.3°/(Bottom)=1.0°	2.0	3.0	2.0	42.1	1.28	

⚠ Resolution (Vernier Scale Indication): 0.1°/division

Ordering Example

Part Number: GFG40-25, GFWG60-60

Alterations

Part Number: (NR) GFG40-25, (NR) GFWG60-60

Alteration: Feed Knob Position Change

Spec.: Side Mount - Right/Left Reversed

Code: NR

⚠ See the CAD data for details.