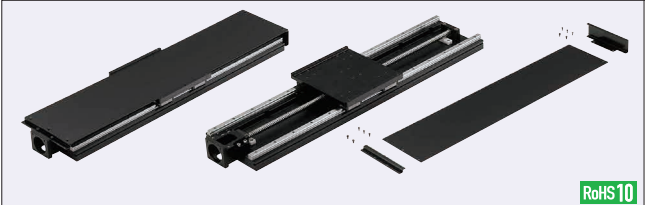


Single Axis Units

Rolled Ball Screws / Precision Ball Screws - Cover Type

■ **Features:** Various Sensor Sets (listed on **P515**.) are available! Single Axis Units driven by Rolled Ball Screws and Precision Ball Screw. Suitable for heavy load transfer.



Rolled Ball Screws
KUAC (Servo Motor Type)
KUBC (Stepping Motor Type)

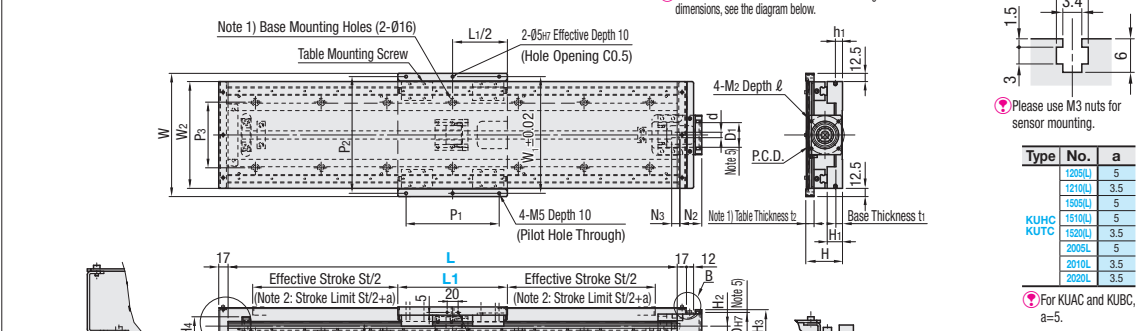
Precision Ball Screw
KUHC (Servo Motor Type)
KUTC (Stepping Motor Type)

Note 1) Access hole is provided when L=340 (except L1=100).
Note 2) Stroke limit is the stroke at the point of contact with the stopper.
Note 3) Do not hang the unit inverted. The cover will sag.
Note 4) Some motor brackets have D dimensions smaller than D1. When selecting couplings, refer to "Coupling Application Examples Parts Numbers" below.

Accessory	Material	Surface Treatment	Quantity	Note
Bracket①	Steel	Electrostatic Paint (Black)	1	-
Bracket②	Steel	Electrostatic Paint (Black)	1	-
Cover③	Aluminum Alloy	Anodize (Black)	1	-
Hex Socket Head Cap Screw M4x8	Steel	Tri-ent Chromate (Black)	6	Cover Mounting Screw
Hex Socket Head Cap Screw M5x10	Steel	Tri-ent Chromate (Black)	4	Bracket Mounting Screw

■ **KUAC/KUHC Motor Installation Interface**

For KUHC/KUTC Motor installation interface drawing and dimensions, see the diagram below.



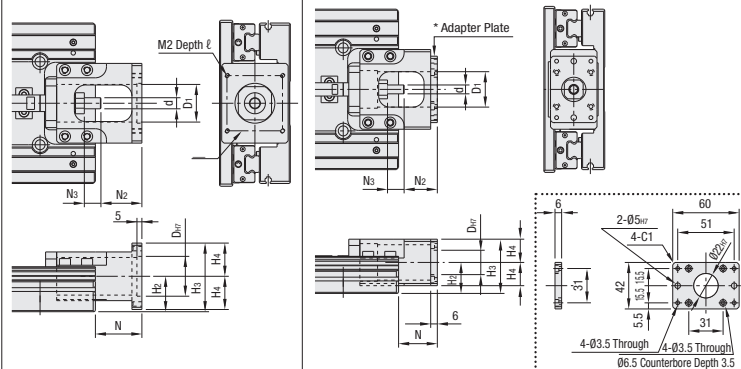
Please use M3 nuts for sensor mounting.

Type	No.	a
KUAC KUBC	1204	5
	1205	3.5
	1210	5
	1505	5
	1510	5
	1520	5
	1204L	5
	1210L	5
	1505L	5
	1520L	5
KUHC KUTC	1204	5
	1205	3.5
	1210	5
	1505	5
	1510	5
	1520	5
	1204L	5
	1210L	5
	1505L	5
	1520L	5

For KUAC and KUHC, a=5.

Base Length	Effective Stroke
L	St
1204	130
340	190
400	250
460	310
520	370
580	430
640	490
700	550
760	610
820	670

■ KUHC/KUTC Motor Installation Interface / NEMA Motor Installation Interface (KUAC/KUBC/KUHC/KUTC)



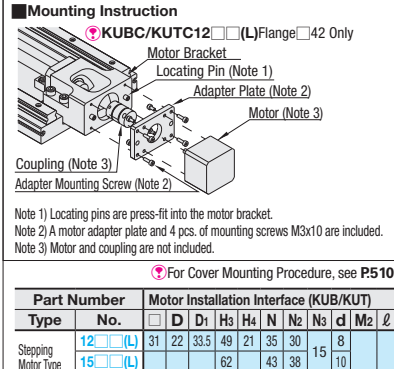
KUHC/KUTC15□□(L)
KUHC/KUTC20□□(L)

KUHC/KUTC12□□(L)

Please see Motor Adapter Plate installation diagram.

■ **Mounting Instruction**

For KUHC/KUTC12□□(L) Flange□42 Only



Coupling (Note 3)
Adapter Mounting Screw (Note 2)

Note 1) Locating pins are press-fit into the motor bracket.
Note 2) A motor adapter plate and 4 pcs. of mounting screws M3x10 are included.
Note 3) Motor and coupling are not included.

For Cover Mounting Procedure, see **P510**

Part Number	Type	No.	D	D1	H2	H3	H4	N	N2	N3	d	M2	ℓ
Stepping Motor Type KUBC KUTC	12□□(L)	31	22	33.5	49	21	35	30	15	8	10	M4	8
	15□□(L)	50	36	35.5	70	30	58	40	18	12	M4	8	
	2005L	50	36	35.5	70	30	58	40	18	12	M4	8	
	2010L	50	36	35.5	70	30	58	40	18	12	M4	8	
	2020L	50	36	35.5	70	30	58	40	18	12	M4	8	

For KUHC/KUTC12□□(L) flanged surface (H3 dimensions) protrudes downward from the base bottom surface by 2mm.

■ NEMA Motor Installation Interface

Type	Part Number		NEMA Motor Installation Interface (KUAC/KUBC/KUHC/KUTC)												
	Type	No.	□	D	D1	H2	H3	H4	N	N2	N3	d	M2	ℓ	
NEMA23	KUAC KUBC KUHC KUTC	12□□(L)	47.1	38.1	35.5	28	58	30	42	37	15	8	M4	8	
		15□□(L)				32	62		43	38		10			
		2005L				34	64		55	37		20			12
		2010L				40	70								
	KUAC/KUBC	2020L				34	64								
	KUHC/KUTC	2020L				40	70								
NEMA34	KUAC/KUBC KUHC/KUTC	15□□(L)	69.6	73.03	45	32	75	43	56	51	15	10	M5	14	
		2005L				34	77		68	50	20	12		15	
		2010L				40	83								
		2020L				34	77								
	KUAC/KUBC	2020L				40	83								
	KUHC/KUTC	2020L				40	83								

* When H2-H4<0, Motor Bracket protrudes from Base Fixing Surface.
* When MCSLC40 is to be applied to NEMA34 series, select Torque 9.0N·m (=1270oz-in) or less.

Part Number		Selection		Ball Screw			W	W ₁	H	H ₁	H ₂	Table				Coupling Application Examples		Part Numbers								
Type	No.	L Base Length	L ₁ Table Length	Type	Diameter	Lead	Width		Height	Guide Height	Shaft Center Height	W	t ₂	W ₁	P ₁ , P ₂	KUAC/KUHC	KUBC/KUTC									
Rolled Ball Screw KUAC KUBC	1204	340	100 150	Rolled		4	170	159	65	21	28	170	20	159	<table><tr><td>L₁</td><td>P₁</td><td>P₂</td></tr><tr><td>100</td><td>70</td><td></td></tr><tr><td>150</td><td>120</td><td>158</td></tr></table>	L ₁	P ₁	P ₂	100	70		150	120	158	CPDW25 MCSLC25	CPDW19 MCSLC20
	L ₁			P ₁	P ₂																					
	100			70																						
	150			120	158																					
	1205			Precision	12	5																				
1210		10																								
1505	Precision / Rolled	15	5																							
1510		10																								
Precision Ball Screw KUHC KUTC	1520	460 520 580 640 700 760 820	150 200	Rolled		4	220	209	74	28	32	220	20	209	<table><tr><td>L₁</td><td>P₁</td><td>P₂</td></tr><tr><td>150</td><td>120</td><td></td></tr><tr><td>200</td><td>170</td><td>208</td></tr></table>	L ₁	P ₁	P ₂	150	120		200	170	208	CPDW40 MCSLC40	CPDW32 MCSLC32
	L ₁			P ₁	P ₂																					
	150			120																						
	200			170	208																					
	1204L			Precision	12	5																				
	1205L				10																					
	1210L			Precision / Rolled	15	5																				
	1505L				10																					
	1510L			Precision / Rolled	15	10																				
	1520L				20																					
2005L	Precision / Rolled	20	5																							
2010L		10																								
2020L	Precision	20	78	28	34																					
			89	39	40																					
			78	28	34																					
			89	39	40																					

⚠ Cautions are required when CPDW is used for 400W Servo Motors. Motor peak torque may exceed coupling allowable torque.

Part Number		Base				Base Mounting Hole						* Motor Installation Interface (KUAC/KUHC)												
Type	No.	W ₂	H ₄	t ₁	h ₁	P ₃	h	Q			S			P.C.D.	D	D ₁	H ₃	N	N ₁	N ₂	N ₃	d	M ₂	ℓ
Rolled Ball Screw KUAC KUBC	1204	145	42	10	13	75	9.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8
	W=170 W=220								W=170 W=220															
	340								6	6	340		50	50										
	400								6	8	400		80	20										
	460								8	8	460		50	50										
Precision Ball Screw KUHC KUTC	1510	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8
	W=170 W=220								W=170 W=220															
	340								6	6	340		50	50										
	400								6	8	400		80	20										
	460								8	8	460		50	50										
	520								8	10	520		80	20										
	580								10	10	580		50	50										
	640								10	12	640		80	20										
	700								12	12	700		50	50										
	760								12	14	760		80	20										
820	14	14	820	50	50																			
1204L	195	42	10	13	120	9.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
1205L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
1505L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
1510L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
1520L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2005L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2010L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.5	L	Q			L	S			46	30	34	49	37	32	8	M4	8	
W=170 W=220								W=170 W=220																
340								6	6	340		50	50											
400								6	8	400		80	20											
460								8	8	460		50	50											
520								8	10	520		80	20											
580								10	10	580		50	50											
640								10	12	640		80	20											
700								12	12	700		50	50											
760								12	14	760		80	20											
820	14	14	820	50	50																			
2020L	195	49	12	20	120	11.																		

Ordering Example KUHC1205 - 340 - 150

Part Number		Unit Price 1 ~ 2 pc(s).								
Type	No.	L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=760	L=820
Rolled Ball Screw KUAC	1204							-	-	-
	1210									-
	1505									-
	1510									-
	1520									-
	1204L							-	-	-
	1210L									-
	1505L									-
	1510L									-
	1520L	-	-							
KUBC	2005L									
	2010L	-								
	2020L	-	-							

Part Number	Unit Price 1 ~ 2 pc(s).				
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