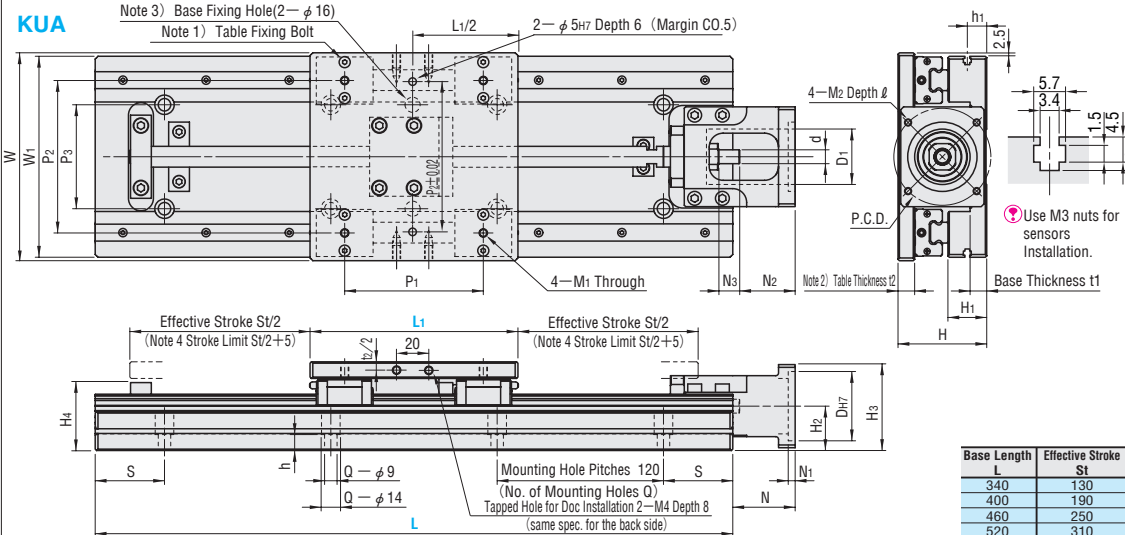




Linear Motion Units

— Single Axis, Stage Type —

CAD Data



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

Notes 1-4 regarding slide guide fixing bolts, work piece fixation, task holes, and stroke limit.

	Base	Table	Motor Bracket	Nut Bracket	Fixed Side Support Unit	Support Side Bearing Holder	Stopper
M	EN AW-6063/AlMg0.7SiT6	EN AW-5052/AlMg2.5P	EN AW-5052/AlMg2.5	EN AW-5052/AlMg2.5	1.1 191/C45E (Ck45)	EN AW-5052/AlMg2.5P	POM (White)
S	Black Anodizing	Black Anodizing	Black Anodizing	Black Anodizing	Black Oxide	Black Anodizing	-

Catalog No.	Selectable		W	H	H1	H2	Ball Screw Catalog No.	Slide Guide	Bearing		Applicable Coupling	
	No.	L							Fixed Side (Support Units)	Support Side (Bearings)		
KUA	1204	340	150	150	55	21	28	BSSZ (Precision Grade C10)	SV2R24	BRWE10	B608ZZ	CPDW25 MCSLC25
	1210	400								BRWE12	B6000ZZ	CPDW40 MCSLC40
	1505	460								BRWE10	B608ZZ	CPDW25 MCSLC25
	1510	520								BRWE12	B6000ZZ	CPDW40 MCSLC40
	1520	580								BRWE12	B6000ZZ	CPDW40 MCSLC40
	1204L	640								BRWE10	B608ZZ	CPDW25 MCSLC25
	1210L	700								BRWE12	B6000ZZ	CPDW40 MCSLC40
	1505L	760								BRWE15	B6002ZZ	CPDW40 MCSLC40
	1510L	820								BRWE15	B6002ZZ	CPDW40 MCSLC40
	1520L	880								BRWE15	B6002ZZ	CPDW40 MCSLC40

For ball screws, refer to P.393~396 For slide guides, refer to P.321~324 For support units, refer to P.404 For couplings, refer to P.559,560 (Coupling is not attached)
 Caution: When CPDW40 is used with 400W motor, instantaneous max torque of the motor may be larger than allowable torque of the coupling.

Catalog No.	Tables								Bases								Base Mounting Hole								Motor Mounting							
	Type	No.	W	t2	M1	P1	P2	W1	H4	t1	h1	P3	h	Q	S	P.C.D.	D	D1	H3	N	N1	N2	N3	d	M2	φ						
KUA	1204	10	150	10	M6	110	145	75	9.5	42	10	13	11.5	L	S	46	30	34	49	37	32	40	15	8	M4	8						

Features

- Single-Axis Unit is ball screw driven unit and fit to various servo motors
- Ball screw diameter, lead, base width, stroke, and table length are selectable.
- Just specify item numbers, and your order will be shipped in only 13 days.

Motor Bracket

Servo Motor Support
It can be assembled with an inlay easily: no shaft center adjustment is required.

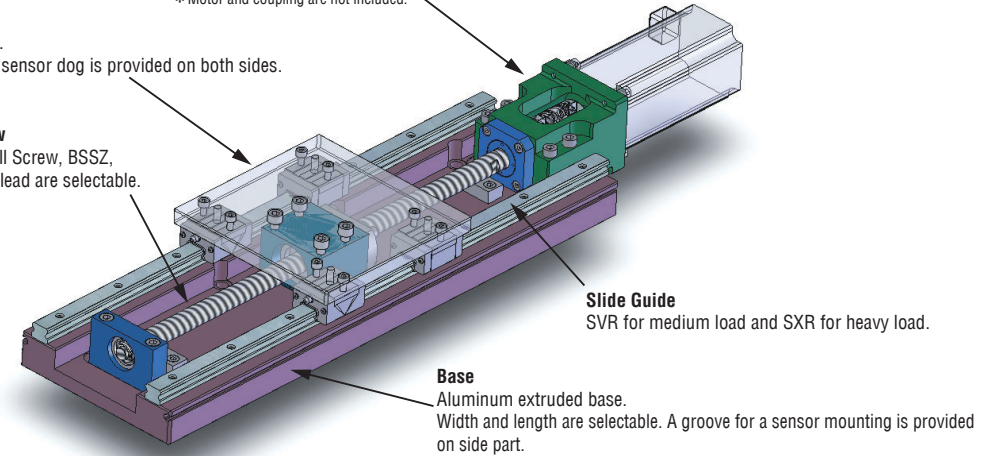
* Motor and coupling are not included.

Table

Two length options.
A tapped hole for a sensor dog is provided on both sides.

Ball Screw

Roller Ball Screw, BSSZ.
Diameter, lead are selectable.



Slide Guide

SVR for medium load and SXR for heavy load.

Base

Aluminum extruded base.
Width and length are selectable. A groove for a sensor mounting is provided on side part.



Catalog No.	Unit Price Qty. 1~2							
	L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=820
KUA 1204	984.00	1012.00	1075.00	1127.00	1178.00	1230.00	—	—

Allowable Static Load, Allowable Static Moment

Catalog No.	Allowable Static Load (kg)		Allowable Static Moment (N·m)	
	Horizontal	Vertical	L1	L2
KUA 1204	138.0	138.0	100	150

Moment of Inertia, Mass

Catalog No.	Moment of Inertia (kg·cm ²)							
	L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=820
KUA 12	0.658	0.667	0.677	0.686	0.696	0.706	0.715	0.725

Mass (kg)

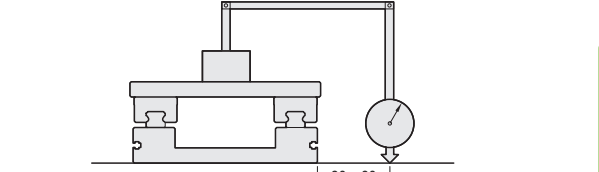
Catalog No.	Mass (kg)							
	L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=820
KUA 12	5.3	5.9	6.4	7.0	7.5	8.1	8.6	9.2

Precision, Max. Velocity

Catalog No.	Repetitive Positioning (mm)		Max. Velocity (mm/s)							
	±0.03	±0.05	L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=820
KUA 1204	±0.03	±0.05	265	265	265	265	265	265	265	265

① Precision of Repetitive Positioning
Conduct unidirectional positioning and measuring for seven times.
To determine the precision value, obtain the maximum difference divided by 2, and then add a ± mark to it.

② Parallelism
Fix a dial gauge to the top of measuring block, let it drop from the table center to the block, and read the dial gauge (0.01 scale reading). Use this value as the measurement.
Measuring position is the position at 20mm~30mm from base end.



③ Max. Velocity
Values in the table are calculated on basis of critical speed and DN value of ball screws.
Note that this calculation does not take motor revolution frequency and driving condition into account.
(DN= Allowable maximum revolutions see page 2102)

Applicable Motors

Catalog No.	Manufacturers	Product Number	Output (W)	Square Flange
KUA12□□(L)	Yaskawa Electric Corporation	SGMAH-A3	30	□40
		SGMAH-A5	50	
		SGMAH-01	100	
	Mitsubishi Electric Corporation	HC-MFS053	50	
		HC-MFS13	100	
		P30B04003	30	
	Sanyo Denki Co., Ltd.	P30B04005	50	
		P30B04010	100	
		R88M-W03030	30	
		R88M-W05030	50	
KUA15□□(L) KUA20□□(L)	Omron Corporation	R88M-W10030	100	□60
		R88M-W20030	200	
	Yaskawa Electric Corporation	SGMAH-02	200	
		SGMAH-04	400	
	Mitsubishi Electric Corporation	HC-KFS23	200	
		HC-KFS43	400	
Sanyo Denki Co., Ltd.	HC-KFS43	400		
	P30B06020	200		
	P30B06040	400		
	R88M-W20030	200		

Order Example
Catalog No. KUA1204 — L — L1 — 340 — 150

Delivery Time 13 Days