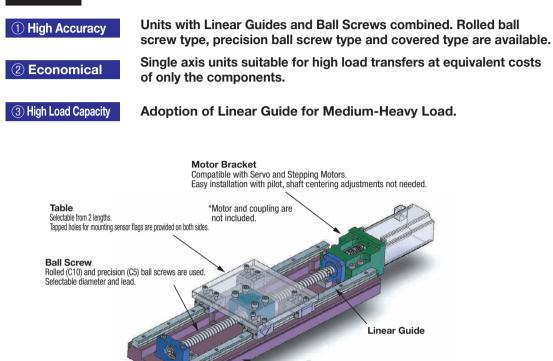
# **Single Axis Units - Overview**

# KU Series for Environmental Measures / Technical Data

Frequently used in-house built mechanisms are standardized. Rolled Ball Screw. Precision Ball Screw and Cover Type are lined up.

# Features



Single Avis Unit List

Shape	Туре	Product Name	Features	Page
	KUA KUB KUH KUT	Rolled / Precision Ball Screw	Single Axis Unit Series Basic Type Rolled Ball Screws (C10) and Precision Ball Screw (C5) are employed. Best suited for heavy load transfer applications.	P.511
	KUAC KUBC KUHC KUTC	Cover Type Rolled / Precision Ball Screw	Cover is provided as standard equipment. Prevents foreign object intrusions offering safety. Easy maintenance.	P.513

Aluminum extrusion base

Width and length are selectable. Slots for sensor mounting are provided on the sides of the base.

## Useful Technical Calculation Software



# Environmental easures

Cover Types are now available for safe use of Single Axis Units to meet customers' work environments. Neither quotation nor delivery management is required. Management costs are considerably reduced.

# Covered Specifications (P.513)

Cover Mounting Procedure

- · Economical: Prevents components from falling off and dripping liquids, and protects machines economically.
- Easy: Ordering procedure and installation are simple. Easy machine cleaning and maintenance.
- Reduction: Reduced machine trouble. More advantages with less cost. Labor saving for customers.

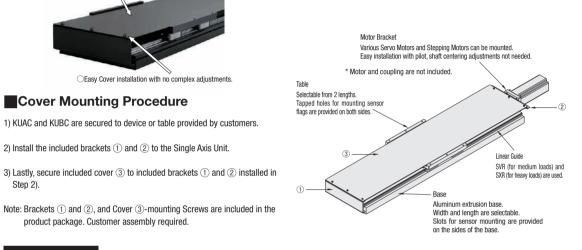


1) KUAC and KUBC are secured to device or table provided by customers.

2) Install the included brackets (1) and (2) to the Single Axis Unit.

product package. Customer assembly required.

Applications: The Covered Series is suitable for use in areas where structural component damages due to small parts falling in, and adhesives and greases dripping are to be avoided.



# Technical Data

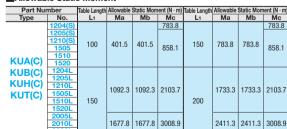
#### Max. Velocity

Step 2).

Part	* Max. Velocity (mm/sec)									
Type No.		L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=760	L=820
	1204(S,L,LS)	265	265	265	265	265	265	-	-	-
	1210(S,L,LS)	651	651	651	651	651	651	651	633	-
Rolled	1505(L)	264	264	264	264	264	264	264	264	264
Ball Screw	1510(L)	527	527	527	527	527	527	527	527	527
KUA(C)	1520(L)	1055	1055	1055	1055	1055	1055	1055	1055	1055
KUB(C)	2005L	200	200	200	200	200	200	200	200	200
	2010L	-	397	397	397	397	397	397	397	397
	2020L	-	-	801	801	801	801	801	801	801

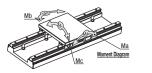
	Part Number		* Max. Velocity (mm/sec)									
20	Туре	No.	L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=760	L=820	
		1205(S,L,LS)	486	486	486	-	-	-	-	-	-	
		1210(S,L,LS)	972	972	972	972	766	611	-	-	-	
Ļ	Precision	1505(L)	389	389	389	389	389	374	-	-	-	
7	Ball Screw	1510(L)	778	778	778	778	778	749	-	-	-	
5	KUH(C)	1520(L)	1556	1556	1556	1556	1556	1498	-	-	-	
)	KUT(C)	2005L	292	292	292	292	292	292	292	292	286	
7		2010L	-	583	583	583	583	583	583	583	517	
1		2020L	-	-	1167	1167	1167	1167	1167	1167	1027	

#### For Terminology, see below Allowable Static Moment



The table above lists reference values in static state.

For actual life calculations, please use our Technical Calculation Software, see P.509



#### Mass KUA/KUB/KUH/KUT



#### Mass KUAC/KUBC/KUHC/KUTC

	No.	Mass (kg)										
		L=340	L=400	L=460	L=520	L=580	L=640	L=700	L=760	L=820		
	12	5.8	6.5	7.0	7.7	8.2	8.9	9.4	10.1	-		
	15	7.1	7.8	8.5	9.2	10.0	10.7	11.4	12.2	12.8		
	12L	7.3	8.0	8.6	9.2	9.8	10.4	11.0	11.7	-		
	15L	8.8	9.6	10.5	11.4	12.2	13.1	13.9	14.8	15.7		
	20 L	12.2	13.4	14.5	15.7	16.9	18.0	19.2	20.4	21.5		

#### Terminology

· Positioning Repeatability Repeatability is measured by positioning seven times to a same point in the same direction

### · Parallelism

An actuator is fixed to a surface plate. Parallelism readings are taken from a carriage center mounted dial indicator (0.01 graduation) setup against the surface plate. Measurement is taken along 20 ~ 30mm from the side of the base.

### Max. Velocity

Values listed on each page are calculated based on critical speed and DN value of ball screws. Note 1-510 that these are not guaranteed data considering motor rotational speed, operating conditions, etc.