Cross Roller

**CAVE-X** 

φ100 φ120

Other

CAVE-X POSITIONER

## XY-axis Linear Ball Guide: KYL06030/KYL06050/KYL06075





Cable P.1-207  $\sim$  Electrical specification P.1-077  $\sim$ 

RoHS

1	Travel length	4	Motor option

030	30mm			Code	Specification		
050	50mm			С	Standard		
075	75mm			F	High-torque		
				G High resolution			
2 Covertype			MA	With electromagnetic brake (Driver set)			
			PA	α Step (Driver set)			
N	Uncovered		U	Servo motor (Amplifier set)			
IV			*	* Code MA · PA · U is the set of driver a			

and cable

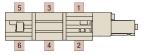
\* See page P.1-077~ for details of motor option.

## 5 Origin sensor option

Code	Specification
Blank	None
1	CCW right side
2	CCW left side
3	Center right side
4	Center left side
5	CW right side
6	CW left side

\* See page > P.1-079~ for details of origin sensor option.

Position of origin sensor option (Please choose one position )



## 6 Cable option

Code	Specification	Cable type	
Α	2m	D214-2-2E	
В	2m One end loose	D214-2-2EK	
С	4m	D214-2-4E	
D	4m One end loose	D214-2-4EK	
Е	Only connector (Cable is not included)	-	
F	Robot cable 2m	D214-2-2R	
G	Robot cable 2m one end loose	D214-2-2RK	
Н	Robot cable 4m	D214-2-4R	
J	Robot cable 4m one end loose	D214-2-4RK	
M	Cable for electromagnetic brake		
Р	Cable for $\alpha$ step	_	
U	Cable for servo motor		
Blank	Cable is not included (Standard)	_	

\* One end loose position to only stage opposite side.

\* The price includes M, P and U.

Not available non-cable.

\*See page P1-207,209~ for details of cable.

\*Please select "Code A, C, F or H" when connect with stepping motor controller(DS102/112).

[Note] Please check available cable from compatibility list. Not included cable for a main body. Please choose the code as

	Motor code	Cable code		
	C,F,G	Blank, A∼H,J		
Motor/cable products list		M		
products list	PA	Р		
	II.	U		

	SPEC								
Model		Uncovered	KYL06030-N1-C	KYL06030-N2-C	KYL06050-N1-C	KYL06050-N2-C	KYL06075-N1-C	KYL06075-N2-C	
		Covered	KYL06030-C1-C	KYL06030-C2-C	KYL06050-C1-C	KYL06050-C2-C	KYL06075-C1-C	KYL06075-C2-C	
Mechanical specification	Travel length		30mm		50mm		75mm		
	Table size		60×60mm						
	Feed screw (Ball screw)		$\varphi$ 8 lead 1	$\varphi$ 8 lead 2	arphi8 lead 1	arphi8 lead 2	arphi8 lead 1	arphi8 lead 2	
	Guide		Linear ball guide						
	Main materials-Finishing		Stainless—Opposite side of the end face finishing						
	Woight	Uncovered	2.5	2.56kg 2.8kg		Bkg	3.08kg		
	Weight	Covered	2.6	8kg	2.88kg		3.32kg		
Accuracy specification	Resolution (Pulse)	Full/Half	2μm/1μm	4μm/2μm	2μm/1μm	4μm/2μm	2μm/1μm	4μm/2μm	
		Microstep	$0.1\mu m$ (1/20 on resolution)	$0.2\mu m$ (1/20 on resolution)	$0.1\mu$ m (1/20 on resolution)	$0.2\mu m$ (1/20 on resolution)	$0.1\mu$ m (1/20 on resolution)	$0.2\mu$ m (1/20 on resolution)	
	MAX speed		30mm/sec	35mm/sec	30mm/sec	35mm/sec	30mm/sec	35mm/sec	
	oad capacity		10kgf [98N]						
9	Perpendicularity		Within 15 $\mu$ n	n/Full stroke	Within 25µm/Full stroke		Within 37.5 $\mu$ m/Full stroke		
Sensor	Limit sensor			Installed					
	Origin sensor		** Attachable in origin sensor option						
9	Slit origin sensor								
Provided screw (Hexagon-headed bolt) 8 of M4—14				·					

$\frac{1}{2} \frac{1}{2} \frac{1}$						
Eost motion Within 1μm						
Lost motion   Within 1μm	Within 1 $\mu$ m					
Straightness Within 3μm	Within 3μm					
Pitching/Yawing Within 15"	Within 20"/Within 15"					

Might be changed specification due to motors. See page ▶ P.1-213~ for details.

XY

Horizontal Z

2

С

3 Ball screw lead selection

Lead 1mm

Unit

Controller