

Z-axis Cross Roller Guide: KS301-30

RoHS

KS301-30LC



KS301-30LMS



KS301-30RC



KS301-30RMS



Model Selection code Option code
KS 301-30LC-5

▶ Cable P.1-207~
 ▶ Electrical specification P.1-107~

1 Axis

3	Z-axis
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2 Travel

30	30mm
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3 Sensor cover location specification

Code	Specification
L	L position
R	Opposite hand

4 Motor option

C	Standard
MS	<input type="checkbox"/> 38 Microstep

5 Cable option

Code	Specification	Cable type
Blank	2m	D214-2-2E
1	2m One end loose	D214-2-2EK
2	4m	D214-2-4E
3	4m One end loose	D214-2-4EK
4	Only connector (Cable is not included)	—
5	Cable is not included (Standard)	—
6	Robot cable 2m	D214-2-2R
7	Robot cable 4m	D214-2-4R
8	Robot cable 4m one end loose	D214-2-4RK
9	Robot cable 2m one end loose	D214-2-2RK

* One end loose position to only stage opposite side.
 * If you choose the option specification, please add the difference to standard price.
 * See page P.1-207, 209~ for more cable details.
 * Please select "blank, 2, 6 and 7" when connect with stepping motor controller(DS102/112).

SPEC				
Model	KS301-30LC-5		KS301-30LMS-5	
(Opposite hand)	KS301-30RC-5		KS301-30RMS-5	
Mechanical specification	Travel length	30mm		
	Table size	60×70mm		
	Feed screw	Ball screw φ8 lead 1		
	Guide	Crossed roller guide		
	Main materials-Finishing	Aluminum—Black almite finishing		
Accuracy	Weight	0.89kg	1.07kg	
	Resolution (Pulse)	Full/Half 2μm/1μm	1μm/0.5μm	
	MAX speed	—	0.05μm (1/20 on resolution)	
	Load capacity (Excitation)	20mm/sec	10mm/sec	
	Vertical degree	3.0kgf [29.4N]		
Sensor	Pitching/Yawing	Within 15μm/Full stroke		
	Limit sensor	Within 25°/Within 20°		
	Origin sensor	Installed		
	Slit origin sensor	Installed		
	Provided screw (Hexagon-headed bolt)	—		
Single axis accuracy specification	Uni-directional positioning accuracy	4 of M4—16		
	Repeatability positioning accuracy	Within 5μm		
	Lost motion	Within ±0.3μm		
	Backlash	Within 1μm		
	Straightness	Within 0.5μm		

Motorized Stage

X

XY

Z

Horizontal Z

XYZ

Goniometer

Rotary

Unit

Controller

Linear Ball

CAVE-X Linear ball

Cross Roller

Slide Guide

φ40

φ50

φ60

φ70

φ80

φ100

φ120

Other