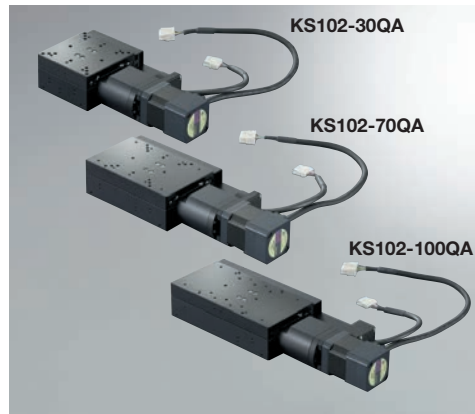
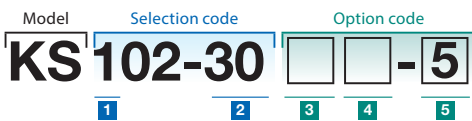


X-axis Cross Roller Guide: KS102

Motorized Stage



RoHS



▶ Cable P.1-207~
▶ Electrical specification P.1-111~

1 Axis

1	X-axis
---	--------

2 Travel

30	30mm
70	70mm
100	100mm

3 Sensor cover location specification

Code	Specification
Blank	L position
R	Opposite hand

4 Motor option

Code	Specification
Blank	Standard
QA	<input type="checkbox"/> 42 α step

* Must be chosen the cable from 2A~5R for QA.

■ Please contact us

- Available motor with electromagnetic brake
- Resolution is 2 μ m (Full) in case of motor with brake

5 Cable option

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

* 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		KS102-30-5	KS102-70-5	KS102-100-5	KS102-30QA	KS102-70QA	KS102-100QA
(Opposite hand)		KS102-30R-5	KS102-70R-5	KS102-100R-5	KS102-30RQA	KS102-70RQA	KS102-100RQA
Mechanical specification	Travel length	30mm	70mm	100mm	30mm	70mm	100mm
	Table size	80×80mm	80×130mm	80×160mm	80×80mm	80×130mm	80×160mm
	Feed screw	Ball screw ϕ 8 lead 1					
	Guide	Crossed roller guide					
Main materials-Finishing		Aluminum – Black almitite finishing					
Weight		1.4kg	1.8kg	2.1kg	1.6kg	2.0kg	2.3kg
Accuracy specification	Resolution (Pulse)	1 μ m/0.5 μ m			1 μ m (Set to 1000P/R)		
	Resolution (Microstep)	0.05 μ m (1/20 on resolution)					
	MAX speed	10mm/sec					
	Uni-directional positioning accuracy	Within 5 μ m		Within 10 μ m	Within 5 μ m		Within 10 μ m
	Repeatability positioning accuracy	Within \pm 0.3 μ m					
	Load capacity	20kgf [196N]					
	Moment stiffness	Pitch 0.07/yaw 0.06/roll 0.02 [$^{\circ}$ /N·cm]	Pitch 0.01/yaw 0.014/roll 0.01 [$^{\circ}$ /N·cm]	Pitch 0.005/yaw 0.011/roll 0.008 [$^{\circ}$ /N·cm]	Pitch 0.07/yaw 0.06/roll 0.02 [$^{\circ}$ /N·cm]	Pitch 0.01/yaw 0.014/roll 0.01 [$^{\circ}$ /N·cm]	Pitch 0.005/yaw 0.011/roll 0.008 [$^{\circ}$ /N·cm]
	Lost motion	Within 1 μ m					
	Backlash	Within 0.5 μ m					
	Parallelism	Within 30 μ m					
Motion parallelism	Within 10 μ m	Within 15 μ m		Within 10 μ m	Within 15 μ m		
Pitching/Yawing	Within 25 $^{\circ}$ /Within 15 $^{\circ}$	Within 25 $^{\circ}$ /Within 20 $^{\circ}$		Within 25 $^{\circ}$ /Within 15 $^{\circ}$	Within 25 $^{\circ}$ /Within 20 $^{\circ}$		
Sensor	Limit sensor	Installed					
	Origin sensor	Installed					
	Slit origin sensor	Installed					
	Provided screw (Hexagon-headed bolt)	4 of M4–20					

* The price includes a driver for α step. Motor cable sold separately. Please order from cable option 2A,5A,2R and 5R. Sensor cable attached only receiving connector. See page ▶ P.1-111~.
 * The controller for α step drive is not supplied.