

THK is an industry leader in development of the linear motion guide mechanism. Oriental Motor motion control products can be assembled with THK in order to create a linear motion solution.



Creating a Linear Motion Solution

Quick Sizing Guideline KR Series and AZ Series



The LM Guide Actuator **KR Series** is a compact actuator with high rigidity and high precision that has an integrated LM Guide with a ball screw. Reductions in the number of parts and design man-hours can be realized by adopting the LM Guide Actuator.

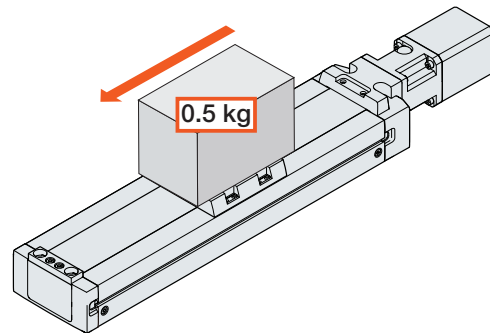


The Alpha Step **AZ Series** stepper motors offers high efficiency, low vibration and incorporates our newly developed Mechanical Absolute Encoder for absolute-type positioning without battery back-up or external sensors to buy. Closed loop performance without hunting or gain tuning.

Application Example:

- Parts feeding system
- Transporting work pieces before assembly

<Operation Example>
 Load mass: 0.5 kg
 Running current: 100%
 Resolution: 0.01 mm/step
 Operating speed: 1.25 mm/s
 Low speed driving: 1.25 mm/s



● Quick Sizing Result:

Product	Part Number
Actuator	KR4610A-790-0-1110
Motor	AZM66AC
Coupling	XGT2-25C-8-10
THK Flange Adapter	10
Max Transportable Load (kg)	65
Max Speed (mm/s)	430
Position Repeatability (mm)	±0.01
Driver Options	AZD-AEP (Ethernet I/P) AZD-AED (EtherCAT) AZD-AD (RS-485) AZD-A (Pulse input) AZD-AX (Pulse input w/RS-485) AZD-APN (Profinet)

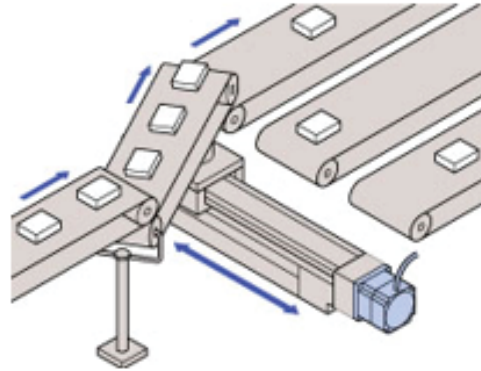
Product Combinations

THK Actuator	Oriental Motor	THK Flange Adapter	Coupling		Lead	Stroke Size, A Type (mm)	Max Transportable load Horizontal usage, A-type(kg)	Max Speed (mm/s)	Position Repeatability Normal grade (mm)
			Miki Pulley Co., Ltd.	Nabeya Bi-tech Kaisha (NBK)					
KR30H	AZM46AC	AR	SFC-010DA2-6B-6B-L32	XGT2-15C-6-6	6	500	35	263	±0.01
					10		28.5	384	
	AZM48AC	SFC-010DA2-6B-8B-L32	XGT2-19C-6-8	6	35		263		
				10	28.5		357		
	AZM66AC	AU	SFC-020DA2-6B-10B	XGT2-25C-6-10	6		35	333	
					10		28.5	416	
KR33	AZM46AC	AR	SFC-010DA2-6B-6B-L32	XGT2-15C-6-6	6	600	43.5	240	
					10		37.5	280	
	AZM48AC	SFC-010DA2-6B-8B-L32	XGT2-19C-6-8	6	43.5		260		
				10	37.5				
	AZM66AC	AU	SFC-020DA2-6B-10B	XGT2-25C-6-10	6		43.5	280	
					10		37.5		
KR45H	AZM66AC	AU	SFC-025DA2-10B-10B-L46	XGL2-25C-10-10	10	800	65	400	
					20		24.5	592	
	AZM69AC	SFC-025DA2-10B-10B-L46	XGL2-25C-10-10	10	65		430		
				20	24.5		592		
KR46	AZM66AC	10	SFC-025DA2-8B-10B-L46	XGT2-25C-8-10	10	790	77	415	
					20		25	607	
	AZM69AC	SFC-025DA2-8B-10B-L46	XGT2-25C-8-10	10	77		430		
				20	25.5		607		
KR55	AZM98AC	A6	SFC-035DA2-12B-14B	XGT2-34C-12-14	20	1200	44	530	±0.012
	AZM911AC								
KR65	AZM98AC	A6	SFC-035DA2-14B-15B	XGT2-34C-14-15	25	1490	61	550	
	AZM911AC								

Sample Applications

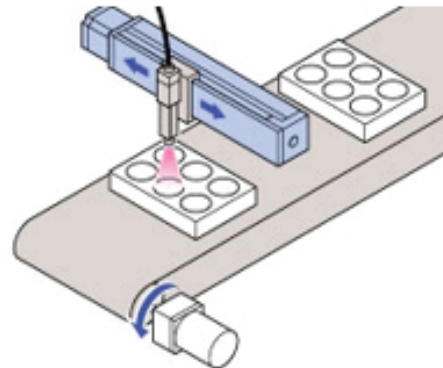
● Work Distribution on Conveyor

KR Series with **AZ Series** is used to sort the work pieces on the conveyor. High-precision positioning allows the work piece to be distributed to the appropriate conveyor.

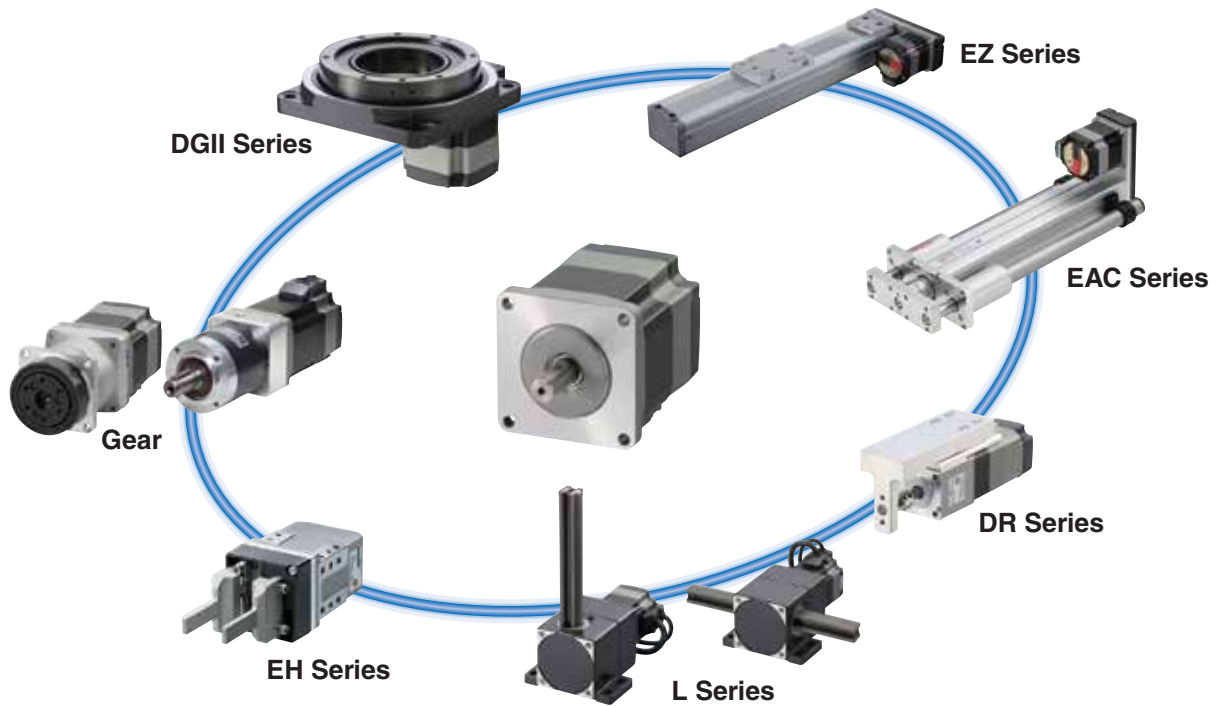


● Liquid Injection

KR Series with **AZ Series** is used to move the injector left and right. With high-precision positioning operation, you can inject at the target position.



α STEP AZ Series Family of Products



Industrial Networks Drivers:

EtherNet/IP EtherCAT
 PROFINET Modbus



- The AZ Series with Mechanical Absolute Encoder is the right motor for your linear slide application.
- No sensors are required. Positioning information is retained during a power loss.
- Let us help you size your next application.



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