Hollow Rotary Actuators

Overview

Electric Linear Slides

CASTEP AZ

Electric Cylinders

Qstep AZ EAC

CSTEP AZ DR\$2

DGII Series *ОС* **STEP AZ** Equipped

DGII Series *X* STEP **AZ** Equipped F-42

Hollow Rotary Actuators

DGII Series α STEP AZ Equipped



The **DGII** Series is a line of products that combines a high rigidity hollow rotary table with a Hybrid Control System α Series. It retains the ease of use of an α step, while also allowing for highly accurate positioning of large inertia loads.

- Integrated Actuator and Motor Product Makes Design Easier
- ◆ Large-Diameter Hollow Output Table
 Diameter of Hollow Section is 100 mm (3.94 in.)
- An *QSTEP* Provides Excellent Performance
 - Agile Responsiveness
 - · Stability at Low Speeds
- Tuning-Free



See Full Product Details Online www.orientalmotor.com

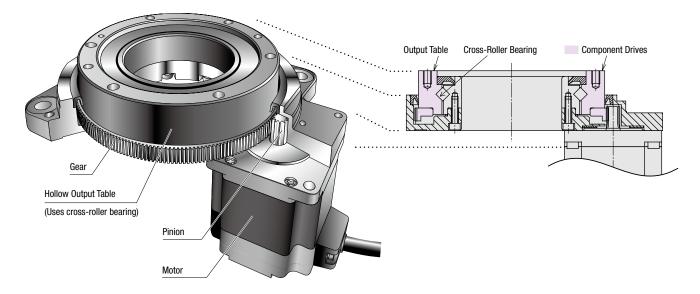
- Manual
- Specifications
- Dimensions
- CAD C
 - Characteristics
- Connection and Operation

Features

Integrated Products

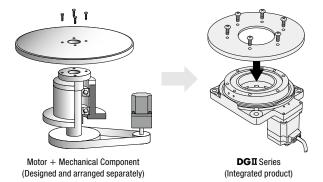
The **DGII** Series is a line of integrated product that combines a hollow rotary table with an α step. The actuator has an internal speed reduction mechanism (gear ratio 18), which makes high power driving possible.

This product achieves both high power and high rigidity by adopting the cross-roller bearing on the hollow output table.



Simplified Design

Tables and arms can be installed directly onto the output table. This saves the hassle and cost of designing an installation mechanism, arranging necessary mechanism parts, adjusting the belt tension, etc., when mechanical components such as a belt and pulley are used for installation.



High Positioning Accuracy with Non-Backlash

- Non-Backlash
- Repetitive Positioning Accuracy ±15 arc seconds (±0.004°) Note

The repetitive positioning accuracy is measured at a constant temperature (normal temperature) under a constant load

Mounting Pedestals (Sold separately) are Available as an Accessory

Mounting pedestal accessories are available to assist with the installation of the DGII Series.





(Sold separately)

Large-Diameter, Hollow Output Table Makes Simple Wiring and Piping Possible

The large diameter hollow hole (through-hole) helps reduce the complexity of wiring and piping, thus simplifying equipment design.





	Frame Size [mm (in.)]	Diameter of Hollow Section [mm (in.)]
DG85R	85 (3.35)	33 (1.3)
DG130R	130 (5.12)	62 (2.44)
DG200R	200 (7.87)	100 (3.94)

Overview

Electric Linear Slides

Electric Cylinders

CASTEP AZ

CASTEP AZ DRS2

High Load and High Rigidity

The standard type uses a cross-roller bearing on the output table bearing, which allows for both high load and high rigidity.

Maximum Permissible Axial Load 4000 N (900 lb.)

Maximum Permissible Moment 100 N·m (880 lb-in)

<Example Operation>

Actuators Name : **DGM200R-AZAC**

Driver : **AZD-CD**Power-Supply Input : 230 VAC
Overhang Distance : 160 mm (6.3 in.)
Installation Direction : Horizontal

High Load

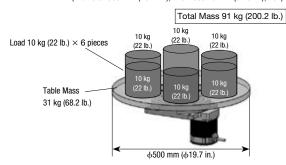
e.g. When operating the actuator in a state where 6 loads are placed on the table.

Load Mass : 91 kg (200.2 lb.)

Load 10 kg/piece (22 lb./piece) × 6 pieces

Table 31 kg (68.2 lb.)

(Diameter 500 mm (19.7 in.), thickness 20 mm (0.79 in.), iron)



[Axial Load]

[10 kg (22 lb.) \times 6 pieces + 31 kg (68.2 lb.)] \times 9.807 m/s² \rightleftharpoons 893 N (201 lb.) The axial load for a total mass of 91 kg (200.2 lb.) is 893 N (201 lb.). The permissible axial load of the **DG200R** is 4000 N (900 lb.), so this is within the permissible value.

High Load Driving is Possible

High Rigidity

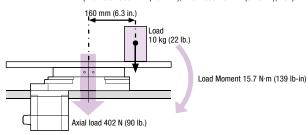
e.g. When operating the actuator in a state where a load is placed at a distance of 160 mm (6.3 in.) from the center of the table.

Load Mass : 41 kg (90.2 lb.)

Load 10 kg/piece (22 lb./piece) \times 1 pieces

Table 31 kg (68.2 lb.)

(Diameter 500 mm (19.7 in.), thickness 20 mm (0.79 in.), iron)



[Load Moment]

10 kg (22 lb.) \times 9.807 m/s² \times 0.16 m (6.3 in.) $\stackrel{.}{=}$ 15.7 N·m (139 lb-in) When a 10 kg (22 lb.) load is placed 160 mm (6.3 in.) from the center of the table, the moment is 15.7 N·m (139 lb-in).

The permissible moment of the DG200R is 100 N·m (880 lb-in), so this is within the permissible value.

[Axial Load]

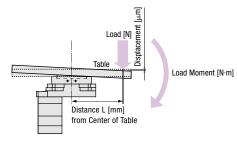
[31 kg (68.2 lb.)+ 10 kg (22 lb.)] \times 9.807 m/s² $\stackrel{=}{=}$ 402 N (90 lb.) The axial load of total mass 41 kg (90.2 lb.) is 402 N (90 lb.).

The permissible axial load of the **DG200R** is 4000 N (900 lb.), so this is within the permissible value.

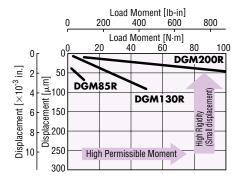
A high-rigidity rotary actuator allows a large load that is far away from the table center to be driven

[Relationship Between Load Moment and Displacement when Distance L=200 mm (7.87 in.) from Center of Table]

The larger the frame size, the received permissible moment increases, but the displacement caused by the load moment decreases.



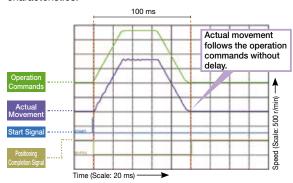
Displacement at Distance L = 200 mm (7.87 in.) from Center of Table



High Performance and High Reliability Unique to Hybrid Control System \mathcal{O}_{STEP}

Short Time Positioning with Agile Responsiveness

The α step enables short distance positioning in short time. The α step operates in synchronization with the pulse commands, and it also has superior performances in acceleration and responsiveness because of its compact size and high torque characteristics.



[Example Operation]

Actuators Name : **DGM200R-AZAC**

 Driver
 :
 AZD-CD

 Power Supply Input
 :
 230 VAC

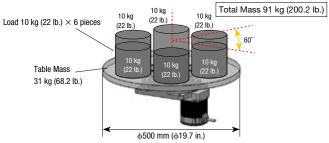
 Load Mass
 :
 91 kg (200.2 lb.)

Load 10 kg/piece (22 lb./piece) imes 6 pieces

Table 31 kg (68.2 lb.)

(Diameter 500 mm (19.7 in.), thickness 20 mm (0.79 in.), iron)

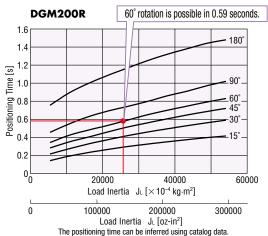
Total inertia of table and load = $26330 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (144000 oz-in²)



Quick Positioning

With the **DGM200R**, 60° rotation of a total mass of 91 kg (200.2 lb.) is possible in 0.59 seconds.

Load Inertia – Positioning Time (Reference value)



Quick positioning is possible even with large loads.

Overview

Electric Linear Slides

CSTEP AZ

Electric Cylinders

CASTEP AZ

CSTEP AZ DRS2

Hollow Rotary Actuators

> χ_{STEP} ΑΖ DGII

OSTEP AZ Equipped Simple Home Position Setting and Return-to-Home Thanks to Absolute System

The patented Absolute Sensor, a newly developed small mechanical multi-turn sensor. Contributes to improved productivity and cost reduction.



No Home Sensor Required

Because it is an absolute system, no home sensor is required.

Sensor costs and wiring costs can be reduced, allowing for lower system costs.

Wiring is simplified, and the degree of freedom for equipment design is increased.

♦ Not Affected by Sensor Malfunctions

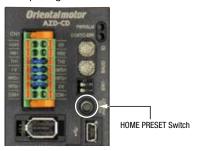
No need to worry about sensor malfunctions, sensor damage or sensor disconnection.

♦ Improved Return-to-Home Accuracy

Home position accuracy is increased because the return-to-home action is performed regardless of any variations in home sensor sensitivity

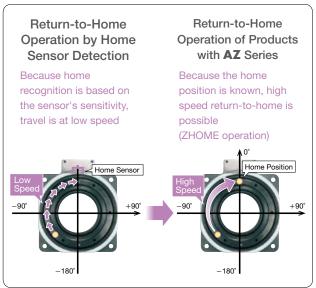
*If no limit sensor is installed, movements that exceed the limit values can be avoided through the use of the limits in the driver software

The home position can be easily set by pressing a switch on the driver's surface, which is saved by the absolute sensor. In addition, home setting is possible with the MEXEO2 Support software or by using an external input signal.



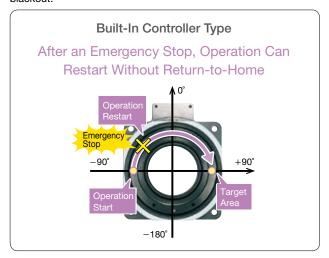
High-Speed Return-to-Home Operation

Because return-to-home is possible without using a home sensor, return-to-home can be performed at high speed without taking the specifications for sensor sensitivity into account, allowing for a shortened machine cycle.



Return-to-Home Not Required

Even if the power shuts down during a positioning operation, the positioning information is retained. Furthermore, for built-in controller types, positioning operations can restart without a return-to-home when recovering from an emergency stop of the production line or a blackout.

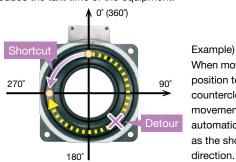


Convenient Functions Thanks to the Use of the AZ Series

Convenient Operation & Setting

By using models with AZ Series functions, coordinate management on the hollow rotary actuator output table can be carried out, and the follow operations are possible.

This is an operation method in which the actuator rotates in the direction that is the shortest distance to the target position. This can reduce the takt time of the equipment.



Example) When moving from the 0° position to 270° position, counterclockwise movement is automatically selected as the shortest rotation

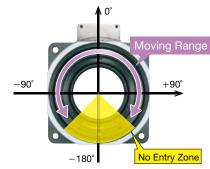
Reduced Equipment Setup Time

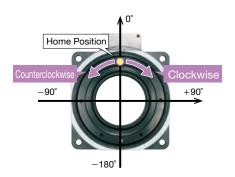
The necessary operation parameters for the hollow rotary actuator are set at the time of shipment, which contributes to reduced equipment setup time.

- Home Position
- Resolution Setting (0.01°/step)
- Output Table Rotation Direction Setting
- Round Setting ±180°
- All initial setting values can be changed.

♦ Simple control by setting no-entry zones

If there are obstructions on the equipment, it is possible to set a region on the output table that will be avoided.





Overview

Electric Linear Slides

Electric Cylinders

CASTEP AZ

CKSTEP AZ DRS2

Applications

- Applications that Require High Rigidity



- Applications that Require High Performance Motors
- ♦ High Positioning Accuracy (Image inspection equipment)



◇Applications with Load Fluctuations (Disc manufacturing equipment)

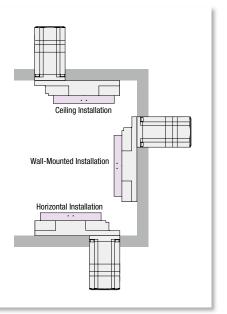


Install in Any Direction

The **DGII** Series can not only be installed horizontally, but can also be ceiling mounted or wall mounted. More options for equipment design.

Note

A small amount of grease will occasionally seep out of the hollow rotary actuator. If a grease leak would cause a contamination issue near the machine, either perform routine inspections, or install protective equipment such as an oil sump.



AC Single-Phase 100-115 VAC, Single-Phase/

Three-Phase 200-230 VAC

Product Line

DGII Series Hollow Rotary Actuator

Equipped with AZ Series Built-in Battery-Free Absolute Sensor

Equipped with AZ Series Built-in Battery-Free Absolute Sensor								DC 24/48 VDC										
				ŀ	Actua	ators											Driver	Ove
Product Name, Frame Size, Power Supply Input	Electromagnetic Brake	Diameter of Hollow Section [mm(in.)]	Permissible Torque [N-m(lb-in)]	Mc [N	men I·m(I	ssible nt Load lb-in)] 60 80	d]	Perm	nissible [N(II	b.)]	Load 2000 3	8000	Lost Motion [arcmin] (degrees)	Backlash	Angular Transmission Accuracy [arcmin] (degrees)	Repetitive Positioning Accuracy [arcsec] (degrees)	Туре	Ele Lin Slid
DGM85R 85 mm (3.35 in.) AC DC	Not equipped	ф33	4.5										2		4	±15	Built-in Controller FLEX	Q Ez
*	Equipped	(1.3)	(39)	10	0(8	8)		5	00(1	12)			(0.033°)			(±0.004°)	Pulse Input with RS-485 Communication	Ele Cyl
DGM130R 130 mm (5.12 in.)	Not equipped	ф62	12			50					20	000	2	Non-	3	±15	AC DC	Hol Rot
	Equipped	(2.44)				(440						50)	(0.033°)	Backlash	(0.05°)	(±0.004°)	Pulse Input	Act Act
DGM200R 200 mm (7.87 in.)	Not equipped																AC DC Network Compatible Multi-Axis Driver	_
		φ100 (3.94)	50 (440)		10 (88)	80)			:::1	$\left\langle \right\rangle$		000)	2 (0.033°)		2 (0.033°)	±15 (±0.004°)	Ether CAT.	

verview

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CASTEP AZ

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Qstep AZ EAC

CSTEP AZ DR\$2



DC

Equipped

Hollow Rotary Actuators

$oldsymbol{\mathsf{GII}}$ Series lphastep AZ Equipped AC Input

Product Number

Hollow Rotary Actuators

DGM 130 R - AZ A C

1









Driver

AZD -

(1)



Connection Cable Sets/Flexible Connection Cable Sets

CC 050 V Z F B

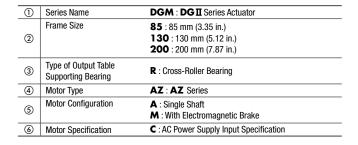
(1)











1	Driver Type	AZD : AZ Series Driver
2	Power Supply Input	A : Single-Phase 100-120 VAC C : Single-Phase /Three-Phase 200-240 VAC
3	Туре	D : Built-in Controller Type X : Pulse Input Type with RS-485 Communication Blank : Pulse Input Type

1		CC : Cable			
	Length	010 : 1 m (3.3 ft.) 020 : 2 m (6.6 ft.)			
<u></u>		030 : 3 m (9.8 ft.) 050 : 5 m (16.4 ft.)			
2		070 : 7 m (23.0 ft.) 100 : 10 m (32.8 ft.)			
		150 : 15 m (49.2 ft.) 200 : 20 m (65.6 ft.)			
3	Reference Number				
4	Applicable Models	Z : AZ Series			
	Cable Type	F : Connection Cable Sets			
(5)		R: Flexible Connection Cable Sets			
	Electromagnetic Brake	Blank : Without Electromagnetic Brake			
6	B : With Electromagnetic Brake				

Product Line

Hollow Rotary Actuators



Frame Size	Product Name	List Price
85 mm (3.35 in.)	DGM85R-AZAC	\$1,752.00
130 mm (5.12 in.)	DGM130R-AZAC	\$1,978.00
200 mm (7.87 in.)	DGM200R-AZAC	\$2,362.00



Driver

♦ Built-in Controller Type

	· · ·	
Power Supply Input	Product Name	List Price
Single-Phase100-120VAC	AZD-AD	\$588.00
Single-Phase/Three-Phase200-240VAC	AZD-CD	\$588.00



◇Pulse Input Type

Power Supply Input	Product Name	List Price
Single-Phase100-120VAC	AZD-A	\$531.00
Single-Phase/Three-Phase200-240VAC	AZD-C	\$531.00



Frame Size	Product Name	List Price
85 mm (3.35 in.)	DGM85R-AZMC	\$1,910.00
130 mm (5.12 in.)	DGM130R-AZMC	\$2,181.00
200 mm (7.87 in.)	DGM200R-AZMC	\$2,588.00



♦ Pulse Input Type with RS-485 Communication

Power Supply Input	Product Name	List Price
Single-Phase 100-120VAC	AZD-AX	\$588.00
Single-Phase/Three-Phase200-240VAC	AZD-CX	\$588.00

Connection Cable Sets/Flexible Connection Cable Sets Use a flexible connection cable if the cable will be bent.



For Motor

Product Line	Length m (ft.)	Product Name	Price
	1 (3.3)	CC010VZF	\$35.00
	2 (6.6)	CC020VZF	\$50.00
	3 (9.8)	CC030VZF	\$62.00
0	5 (16.4)	CC050VZF	\$110.00
Connection Cable Sets	7 (23.0)	CC070VZF	\$136.00
	10 (32.8)	CC100VZF	\$176.00
	15 (49.2)	CC150VZF	\$243.00
	20 (65.6)	CC200VZF	\$310.00
	1 (3.3)	CC010VZR	\$84.00
	2 (6.6)	CC020VZR	\$99.00
	3 (9.8)	CC030VZR	\$111.00
Florible Connection Cable Cate	5 (16.4)	CC050VZR	\$141.00
Flexible Connection Cable Sets	7 (23.0)	CC070VZR	\$180.00
	10 (32.8)	CC100VZR	\$236.00
	15 (49.2)	CC150VZR	\$332.00
	20 (65.6)	CC200VZR	\$426.00

♦ For Motor/Encoder/Electromagnetic Brake



Product Line	Length m (ft.)	Product Name	Price	E
	1 (3.3)	CC010VZFB	\$52.00	_ [
	2 (6.6)	CC020VZFB	\$67.00	- 5
	3 (9.8)	CC030VZFB	\$82.00	
Connection Cable Cate	5 (16.4)	CC050VZFB	\$135.00	
Connection Cable Sets	7 (23.0)	CC070VZFB	\$166.00	
	10 (32.8)	CC100VZFB	\$213.00	
	15 (49.2)	CC150VZFB	\$293.00	-
	20 (65.6)	CC200VZFB	\$372.00	- (
	1 (3.3)	CC010VZRB	\$114.00	- 1
Flexible Connection Cable Sets	2 (6.6)	CC020VZRB	\$134.00	
	3 (9.8)	CC030VZRB	\$151.00	
	5 (16.4)	CC050VZRB	\$191.00	- 1
	7 (23.0)	CC070VZRB	\$240.00	- 1

CC100VZRB

CC150VZRB

CC200VZRB

Overview

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ectric ylinders

αstep αz EAC

α_{STEP} AZ DRS2

\$311.00

\$432.00

\$551.00

Included

Actuator

Туре	Included	Operating Manual
Common t	o All Types	1 Copy

Driver

Type Included	Connector	Operating Manual
Common to All Types	Connector for CN4 (1 piece) Connector for CN1 (1 piece) Connector for CN5 (1 piece) Connector Wiring Lever (1 piece)	1 Copy

Connection Cable Sets/Flexible Connection Cable Sets

_	Included	Operating
Туре		Manual
Connection Cable Sets	;	_
Flexible Connection Ca	ble Sets	1 Copy

10 (32.8)

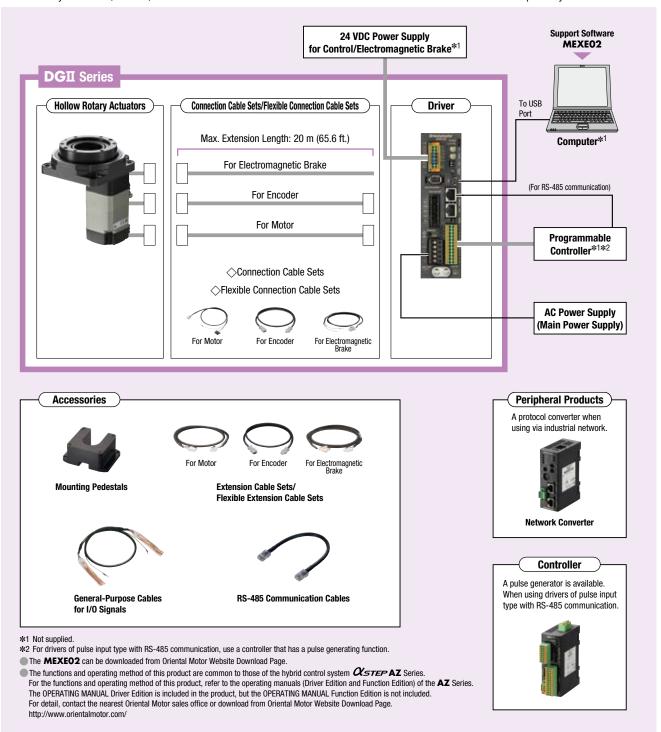
15 (49.2)

20 (65.6)

■System Configuration

Combination of Linear & Rotary Actuator with Electromagnetic Brake, and either Built-in Controller Type Driver or Pulse
 Input Type Driver with RS-485 Communication

This is an example of a configuration using I/O control or RS-485 communication in a built-in controller type driver. Hollow rotary actuators, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.

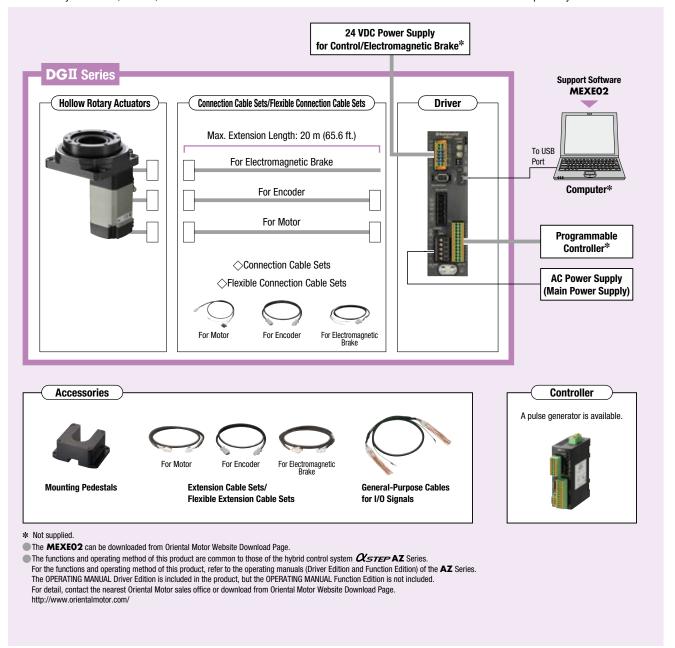


The system configuration shown above is an example. Other combinations are available.
Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

Combination of Linear & Rotary Actuator with Electromagnetic Brake and Pulse Input Type Driver

This is an example of a single-axis system configuration using a programmable controller (with pulse oscillation function). Hollow rotary actuators, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.



The system configuration shown above is an example. Other combinations are available. Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

products, please either refer to our website or contact technical support or your nearest Oriental Motor sales office. www.orientalmotor.com

Overview

Electric Linear Slides

CASTEP AZ

Electric Cylinders

CASTEP AZ

CKSTEP AZ DR\$2

Hollow Rotary Actuators

f GII f Series $m{lpha}_{ extit{STEP}}$ AZ Equipped DC Input

Product Number

Hollow Rotary Actuators

DGM 130 R - AZ A K

1









Frame Size 85:85 mm (3.35 in.) 2 130: 130 mm (5.12 in.) Type of Output Table 3 R: Cross-Roller Bearing Supporting Bearing 4 AZ : AZ Series Motor Type Motor Configuration A : Single Shaft (5) M: With Electromagnetic Brake Motor Specification **K** : DC Power Supply Input Specification

DGM : DGII Series Actuator

Series Name

Driver

AZD - K D

1



Connection Cable Sets/Flexible Connection Cable Sets

CC 050 V Z F B 2

1











1	Driver Type	AZD : AZ Series Driver
2	Power Supply Input	K : 24/48 VDC
3	Туре	D : Built-in Controller Type X : Pulse Input Type with RS-485 Communication Blank : Pulse Input Type

1		CC : Cables	
2	Length	010:1 m (3.3 ft.) 020:2 m (6.6 ft.) 030:3 m (9.8 ft.) 050:5 m (16.4 ft.) 070:7 m (23.0 ft.) 100:10 m (32.8 ft.) 150:15 m (49.2 ft.) 200:20 m (65.6 ft.)	
3)	Reference Number		
4)	Applicable Models	Z : AZ Series	
9	Cable Type	F : Connection Cable Sets R : Flexible Connection Cable Sets	
6)	Electromagnetic Brake	Blank : Without Electromagnetic Brake B : With Electromagnetic Brake	
7	Cable Specifications	2 : DC Power Supply Input	

Product Line

Hollow Rotary Actuators



Frame Size	Product Name	List Price
85 mm (3.35 in.)	DGM85R-AZAK	\$1,752.00
130 mm (5.12 in.)	DGM130R-AZAK	\$1,978.00





◇Built-in Con [®]	troller Type	
Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KD	\$441.00



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Power Supply Input	Product Name	List Price
24/48 VDC	AZD-K	\$384.00



♦ With Electromagnetic Brake

Frame Size	Product Name	List Price
85 mm (3.35 in.)	DGM85R-AZMK	\$1,910.00
130 mm (5.12 in.)	DGM130R-AZMK	\$2,181.00



○ Pulse Input Type with RS-485 Communication

Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KX	\$441.00

Connection Cable Sets/Flexible Connection Cable Sets Use a flexible connection cable set if the cable will be bent.





Product Line	Length m (ft.)	Product Name	List Price
	1 (3.3)	CC010VZF2	\$35.00
	2 (6.6)	CC020VZF2	\$50.00
	3 (9.8)	CC030VZF2	\$62.00
Connection	5 (16.4)	CC050VZF2	\$110.00
Cable Sets	7 (23.0)	CC070VZF2	\$136.00
	10 (32.8)	CC100VZF2	\$176.00
	15 (49.2)	CC150VZF2	\$243.00
	20 (65.6)	CC200VZF2	\$310.00
	1 (3.3)	CC010VZR2	\$84.00
	2 (6.6)	CC020VZR2	\$99.00
	3 (9.8)	CC030VZR2	\$111.00
Flexible Connection	5 (16.4)	CC050VZR2	\$141.00
Cable Sets	7 (23.0)	CC070VZR2	\$180.00
	10 (32.8)	CC100VZR2	\$236.00
	15 (49.2)	CC150VZR2	\$332.00
	20 (65 6)	CC200V7P2	\$426.00

♦For Motor/Encoder/Electromagnetic Brake



For Encoder For Electromagnetic Brake

Product Line	Length m (ft.)	Product Name	List Price
	1 (3.3)	CC010VZFB2	\$52.00
	2 (6.6)	CC020VZFB2	\$67.00
	3 (9.8)	CC030VZFB2	\$82.00
Connection	5 (16.4)	CC050VZFB2	\$135.00
Cable Sets	7 (23.0)	CC070VZFB2	\$166.00
	10 (32.8)	CC100VZFB2	\$213.00
	15 (49.2)	CC150VZFB2	\$293.00
	20 (65.6)	CC200VZFB2	\$372.00
	1 (3.3)	CC010VZRB2	\$114.00
	2 (6.6)	CC020VZRB2	\$134.00
	3 (9.8)	CC030VZRB2	\$151.00
Flexible Connection	5 (16.4)	CC050VZRB2	\$191.00
Cable Sets	7 (23.0)	CC070VZRB2	\$240.00
	10 (32.8)	CC100VZRB2	\$311.00
	15 (49.2)	CC150VZRB2	\$432.00
	20 (65.6)	CC200VZRB2	\$551.00

Overview

Electric Linear Slides

Electric Cylinders

CASTEP AZ

CSTEP AZ DRS2

Included

Actuator

Type	Operating Manual
Common to All Types	1 Copy

Driver

Included Type	Connector	Operating Manual
Common to All Types	Connector for CN4 (1 piece) Connector for CN1 (1 piece)	1 Copy

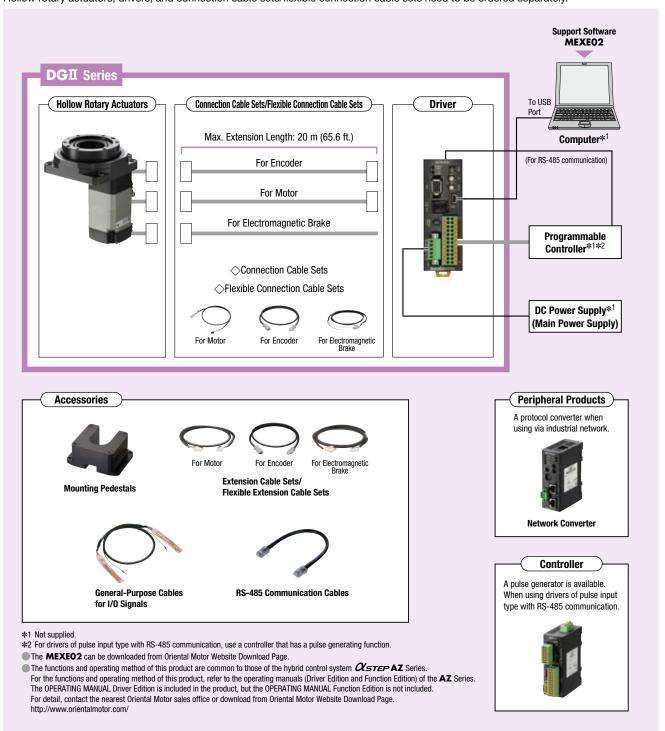
Connection Cable Sets/Flexible Connection Cable Sets

Туре	Included	Operating Manual
Connection Cable Sets		_
Flexible Connection Cable Sets		1 Copy

■System Configuration

Combination of Linear & Rotary Actuator with Electromagnetic Brake, and either Built-in Controller Type Driver or Pulse
 Input Type Driver with RS-485 Communication

This is an example of a configuration using I/O control or RS-485 communication in a built-in controller type driver. Hollow rotary actuators, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.

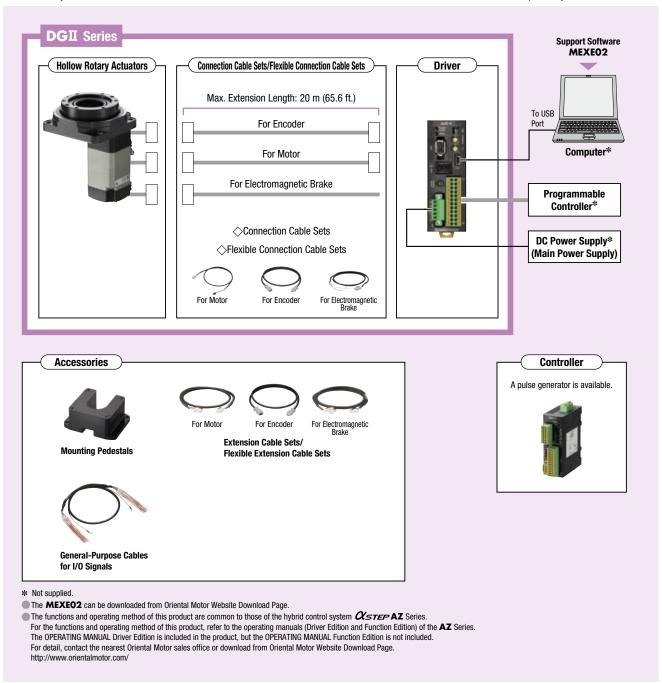


The system configuration shown above is an example. Other combinations are available.
Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

Combination of Linear & Rotary Actuator with an Electromagnetic Brake and Pulse Input Type Driver

This is an example of a single-axis system configuration using a programmable controller (with pulse oscillation function). Hollow rotary actuators, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.



The system configuration shown above is an example. Other combinations are available. Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

products, please either refer to our website or contact technical support or your nearest Oriental Motor sales office.

Electric Linear

Overview

Slides

CASTEP AZ

Electric Cylinders

CASTEP AZ

CKSTEP AZ DR\$2