



Global Operation Headquarter No. 357, Sec. 1, Yaofeng Rd., Puxin Township, Changhua County 513004, Taiwan TEL : +886-4-8282825 FAX : +886-4-8282228

Xiushui Office No.3, Ln. 34, Minzhu St., Xiushui Township,

Changhua County ,504009, Taiwan TEL : +886-4-7688327 FAX : +886-4-7688314

GMT Europe GmbH Am Detershof 20 26655 Westerstede Germany TEL : +49(0)4488 761 746 Website : https://gmteurope.de/ Email : sales@gmteurope.de Dongguan Ding Qi Intelligent Automation Technology Ltd. No.8 Factory ,SHUI-BIAN Industrial Zone, Hengli Town, Dongguan City, Guangdong Province, China TEL : 0769-38827988

Dongguan Sales Office

1109, Building B1, Tian'an Digital Mall, Huangjin Middle Road, Nancheng District, Dongguan, Guangdong Province, China TEL : + 86-769-8671-8568

Kunshan Sales Office

Room 805 (Po Yu Plaza), 8F, Building 99, No.335, Chang Jiang North Road, Kunshan City, Zhoushi Town, Jiangsu Province, China TEL: + 86-512-5706-8646

Wuhan Office

C1-901-2, Lianxiang Enterprise Center, Jiangxia District, Wuhan City, Hubei Province, China TEL: + 86-27-8755-1037

Tianjin Office

Room 1006, Ronghui Building, No. 58, Dongting Road, Second Street, Development Zone, Binhai New Area, Tianjin, China TEL: +86-13-30-211-7506



www.gmtglobalinc.com

High-End Optical Communication Application Module







com

. 0

tglo

6

GLOBAL

To improve products and services, we reserve the right to change product engineering. The catalogue is subject to addition, revision and deletion without notice. Please visit website, or contact the regional sales for the latest information.

High-End Optical Communication Application Module

Precautions	Precautions Installation Precautions Warranty Instructions & Trouble Shooting Suggestions	P.2 P.3 P.5
	Straight Line Axis	De
	Straight Line Z-Axis	P.0 P.7
Inspection method	Goniometric Axis	P.8
	Rotation Axis	P.10
	Multi-Point Repeatability Accuracy	P.11
Technology	Technology	P.12
	CXS6020	P.14
	CXS6030	P.16
Product Specification	CXN6030	P.18
		P.20
	AXG6-75VMC	Р.22 Р.24
	AXG6-100VMC	P 26
	AXG6-125VMC	P.28
	AR59	P.32
	ARH60	P.34
	ARH80	P.36
	AZ7010	P.38
	AZ7020	P.40
Electrical	SAX100	P.42
Specification	GXA100	P.44
	GYA100	P.46
	Electrical Specification	

INDEX



Precautions

Unpacking & Safety Precautions

Precautions

The stages in this catalog are high-accuracy products.

For operating them properly, please be familiar with the following precautions before using it.

Before unpacking, please check whether there's damaged appearance, loose screws or components. If there are concerns about structure and appearance, please take photographs as an evidence and e-mail to the responsible unit.

When the packages arrive, please make sure that the specifications and contents are consistent with the order, and check whether any peripheral parts are missing.



For any questions, please contact the responsible unit.

Before placement and use, please make sure that there is sufficient working space around to prevent the possibility of falling and rolling. CAUTION: A violation may result in personal injuries or product damage

For safe installations and operations, please follow the electrical safety instructions. Do not use in any explosive, flammable, corrosive, humid

environments or wet conditions nor near to such materials. Otherwise,



WARNING!

WARNING!

there would be risks of fire and electric shocks. CAUTION: A violation may result in serious personal injuries or product damage.

Please always check that whether the movement space of the motors and mechanisms is enough in operations, and avoid any body parts or clothing accessories being close of / entering into the working areas of the stages. It otherwise will cause dangers as rolling, pinching, and pulling.

CAUTION: A violation may result in personal injuries or product damage

Please turn off the power before starting maintenance to prevent the danger as an electric shock.

 CAUTION: A violation may result in serious personal injuries or product damage.

If the product is used in a vertical direction as Z-axis, please use safety devices to prevent slides or power interruptions are caused due to an overload.

 \rightarrow CAUTION: A violation may result in personal injuries or product damage.





Precautions

Installation & Environment Precautions

Installation Precautions



2



ົວ

5

atio

5

Precautio

SUS

recautions

Installation Precautions

Installation Precautions

Please do not turn off the travel stroke limitation sensors during the operation, it otherwise will cause the deactivations of the sensors, and do not overuse the travel strokes while turning the knob on the back of the motors.

CAUTION: A violation may result in personal injuries or product damage.

While installing the peripheral mechanisms on the upper / lower board of the stage, please have the stage horizontally fixed and then make sure the flatness and the inclination angle of the mounting surface is within 0.01mm and 1° respectively to prevent for the arising of poor precision due to the deformations of the stage.

CAUTION: A violation may result in personal injuries or product damage.

Do not remove any parts of the precision motorized stage arbitrarily to prevent the loss of precision and warranties. If a service is needed, please contact our salespersons.

 \rightarrow CAUTION: A violation may cause damage on product and the precision unable to match the specifications marked on the catalog.

If any screw holes do not fit or need additional screw holes, please contact our salespersons and do not handle it by self to guarantee the precision and warranties.

 \rightarrow CAUTION: A violation may cause damage on product and the precision unable to match the specifications marked on the catalog.

All of the accessories and parts of the product are not water-proof or dust-proof; please do not directly use in oil misty, dusty or humid environments.

 \rightarrow CAUTION: A violation may cause damage on product and the precision unable to match the specifications marked on the catalog.

Installation Procedures:

- 1. Please make sure there is no flash, dust, or dent on the installation surface.
- 2. Please put the product on the installation surface.
- 3. The screw holes should be aligned with the ones located on the installation surface.
- 4. It is suggested to use the screws according to the compliances of the standard specifications.
- 5. Use a torque wrench to tighten screws.

Precautions for product use environments:

Transporting temperature	-10℃ ~ 70℃
Transporting humidity	below 90%RH (non-condensing)
Installation temperature	0°C ~ 40°C
Installation humidity	below 20% ~ 80%RH (non-condensing)
Environmental gases	It must not contain any corrosive, flammable gas, oil mist or dust indoors.



Precautions

Warranty Instructions & Trouble Shooting Suggestions

- Within a warranty period, if any following failures occur, our \rightarrow company will be responsible for the repair.
- \rightarrow The product is warranted for one year, and is started from when the product is delivered to the designated place.
- \rightarrow If any mention below occurs, it will not be covered under warranty:

1. The damage caused by using the product in any unspecified environments or methods.

- 2. The damage caused by unauthorized modifications or repairs.
- 3. The damage caused by natural disasters or misuses.
- 4. The damage caused after the purchase due to the careless uses or motions.
- 5. The malfunctions or damage caused by unauthorized connections with the other machines.
- 6. The malfunctions or damage caused by the violations of precautions and instructions
- \rightarrow If the motors or mechanisms are hit by the external forces, please check whether the properties of screws are in normal.
- \rightarrow Please do not arbitrarily adjust the positions of the origin and both left and right limits to prevent the collisions of machines and the loss of warranties.
- \rightarrow The wires and receptacles of limit switches must be secured to prevent loosening.
- Do not arbitrarily loosen the couplings and transmission structures to guarantee the \rightarrow precision and warranties.
- If any unusual noises or vibrations of the machines \rightarrow occur in operations, for safety, please turn off the power first.
- To see Q&As regarding to the product, please visit our GMT website.







Inspection method

Straight Line Axis



Testing equipment : laser interferometer. The bottom of the stage should be fixed during the operation, only the sliding block is working.

Positioning Accuracy (µm)

Within a predetermined stroke, set a laser interferometer or CMM for the measurement and start the stage from to a target point in one direction. As the motion is done, record the difference has occurred between the actual and target movement values. The difference is referred to as positioning accuracy.

Repeatability Positioning Accuracy (±µm)

At the first half of the test of repeatability precision, the positioning test should have been repeated for seven times. Then record the maximum difference and the path including it to be used to perform the next step. With half value of the difference, test for the other differences at midpoint/both ends of the previous path and thence record the maximum again, which is referred to as a repeatability positioning precision.

Lost Motion (The Losses of Distance due to a Reverse Rotation) (um) Within a predetermined stroke, set a laser interferometer or CMM for the measurement and start working a homing linear stage to an unspecified point by giving a command of positive direction, once the movement is completed, record the difference between the actual and target values. Simultaneously, give a same value of movement command of negative direction with which the stage will be moved back, then record another difference as the motion completed, and continue to do the next repetition.

After the seven repetitions are done, an average value of all the differences recorded is finally referred to as a missed step.

High-End Optical Communication Application Module



Straight Line Z-Axis

Inspection method





Positioning Accuracy (µm)

Within a predetermined stroke, set a laser interferometer or CMM for the measurement and start the stage from to a target point in one direction. As the motion is done, record the difference has occurred between the actual and target movement values. The difference is referred to as positioning accuracy.



Repeatability Positioning Accuracy (±µm)

At the first half of the test of repeatability precision, the positioning test should have been repeated for seven times. Then record the maximum difference and the path including it to be used to perform the next step. With half value of the difference, test for the other differences at midpoint/both ends of the previous path and thence record the maximum again, which is referred to as a repeatability positioning precision.



Lost Motion (The Losses of Distance due to a Reverse Rotation) (µm) Within a predetermined stroke, set a laser interferometer or CMM for the measurement and start working a homing linear stage to an unspecified point by giving a command of positive direction, once the movement is completed, record the difference between the actual and target values. Simultaneously, give a same value of movement command of negative direction with which the stage will be moved back, then record another difference as the motion completed, and continue to do the next repetition.

After the seven repetitions are done, an average value of all the differences recorded is finally referred to as a missed step.



Inspection method

Goniometric Axis

ter interferometer Conometric stage

Positioning Accuracy (°)

Within a predetermined stroke, set a laser interferometer or CMM for the measurement and start the stage from to a target point in one direction. As the motion is done, record the difference has occurred between the actual and target movement values. The difference is referred to as positioning accuracy.

Repeatability Positioning Accuracy (\pm°)

According to the baseline, the moving surface was set as the detection angle position. Rotate and position the object at a fixed angle in a unidirectional (clockwise/counterclockwise) manner, and repeat the measurement seven times. Take half of the maximum error and measure the directions at the center and ends of the moving distance to obtain the maximum value. The value represents the repeatability of the positioning precision accuracy during movement.

Lost Motion (The Losses of Distance due to a Reverse Rotation) (°)

Select a clockwise rotation angle for positioning and detect the position setting (x1). Then, rotate counterclockwise by the same angle for positioning and detect the position setting (y1). Perform seven measurements at arbitrary positions. Measure the directions at the center and ends of the moving distance to find the maximum value, which represents the lost motion.

Lost Motion Calculation Formula:



High-End Optical Communication Application Module

Inspection method

Goniometric Axis



2 Act

GMT GLOBAL INC.

Inspection method

Inspection Instrument: Altimeter

During inspection, fix the stage and move the dial indicators.



Rotation Center Height (Unit:mm)

Within the predetermined inspection, the travel stroke starts from an initial position and moves sequentially in a certain direction. Measure the value from the table surface to the actual center of the circle and check whether it falls within the target value. This value is the rotation center height.

Rotation Center Deviation within the Specified Range Rotation Range



Inspection Instrument: Altimeter

During inspection, fix the stage baseplate and move the stage's worktable.



Rotation Center Accuracy (Unit : mm)

Within the predetermined inspection travel stroke range, start from an initial position and move sequentially in a certain direction. The vibration value of the actual center of the circle position of the inspection fixture was measured. The value represents the rotation center accuracy.





www.gmtglobalinc.

8



Inspection method



Positioning Accuracy (°)

According to the baseline, the moving surface was set as the detection angle position. Rotate and position the object at a fixed angle in a unidirectional (clockwise/counterclockwise) manner. Difference between actual and object movements within 360° rotation and taking the maximum error value. The value represents the positioning accuracy during movement.



Repeatability Positioning Accuracy (±°)

For a single unidirectional (clockwise or counterclockwise) arbitrary angle as a reference, measure the deviation of the stopping angle. Repeat the measurement seven times and take half of the maximum error. Measure the directions at the center and ends of the moving distance to obtain the maximum value. The value represents the repeatability positioning accuracy during movement.

Lost Motion (The Losses of Distance due to a Reverse Rotation) (°)

Select a clockwise rotation angle for positioning and detect the position setting (x1). Then, rotate counterclockwise by the same angle for positioning and detect the position setting (y1). Perform seven measurements at arbitrary positions. Measure the directions at the center and ends of the moving distance to find the maximum value, which represents the lost motion.

Lost Motion Calculation Formula :



High-End Optical Communication Application Module



Inspection method

Multi-Point Repeatability Accuracy



Accuracy Measurement Instructions

- 1. Positioning Accuracy: Within the predetermined inspection travel stroke range, start from an initial position and move sequentially in a certain direction for positioning. The difference between the actual and object movement values was taken as the maximum error. The value represents the positioning accuracy.
- 2. Multi-Point Repeatability Positioning Accuracy: Within the predetermined inspection travel stroke range, the position accuracy was measured during the execution of the machine program by repeatedly running the same program code. Calculate the positional deviation generated when repeatedly returning to the same position and obtain the deviation value between these measurements.

Accuracy Introduction Explanation

- 1.GMT high-end detection accuracy method is designed to meet the accuracy requirements of optic fiber alignment systems and semiconductor production processes.
- 2. The GMT high-end optical linear stage module series use a multi-point repeated measurement method for inspection. This method involves measuring multiple points within a fixed travel-stroke range (adjusting the number of points based on the length of the travel stroke) and recording the actual variation in position error during the back-and-forth movement to achieve high reproducibility of accuracy.
- 3. Through non-contact laser interferometer measurements, we can ensure unidirectional positioning within 10µm and multi-point repeatability positioning accuracy within 1.5µm. For higher accuracy requirements, please contact our local sales team.



Technology

High-End Optical Communication Application Module

Technology

GMT developed linear stages and module series by utilizing internally manufactured key components. Quality control begins with product compositional elements: product design, precision machining of key parts and mechanisms, heat treatment processes for mechanism reliability, accuracy performance of product assembly, and factory quality verification systems. Starting from core precision craftsmanship, GMT ensures product stability and customer recognition, demonstrating its commitment to high-accuracy stage and module series.



Definition of Pitch, Yaw and Roll

Technology

Please indicate the "Allowable Torque Load" and "Torque Rigidity" as shown in the following diagram. Please refer to the respective specification tables based on the operating conditions.



Advantages of Solutions



Customized Services

By employing precise machining, crossed roller slide rail set/crossed roller bearing gonio-way technology, ball screw, and meticulous assembly craftsmanship, the accuracy of the stage is significantly enhanced.

GMT high-end stages are mostly made of stainless steel, and they undergo special heat treatment to enhance their rigidity and wear resistance and reduce deformation to reach stable conditions. In short-stroke and high-repetition-frequency movements, the proposed device exhibits wear resistance and accuracy stability.

Precision stages are all made from 6061 aluminum alloy or stainless steel and processed through special heat treatment to ensure material stability and accurate performance.

High-accuracy consistency for each axis meets the accuracy adjustment efficiency requirements for multi-axis assemblies.

Integrating customers' requirements through standardized processes and customized services to create unique value and functionality, maximizing satisfaction of customer needs.

GMT GLOBAL INC



CXS

series

High-End Optical Communication Application Module

CXS6020

	Model Descriptio	n C	XS		<u>50</u>	2	0			
	Material	Drive Type	Accurac	y Level	Wiring Met	hod	Motor Model	Connector	Туре	
	S Stainless steel	2 Ball screw	OP Hig	h-End	N GMT star	ndard	M high resolution	D D-S	UB	
						-1	5-phase	H HR	s	
				C						Δ
		CXS 0		- 5	2 0				ZR	A
Se	Axis & Tab	ble Size	Stroke (mm)	Mult	ti-Point ility Accuracy	(Connecting Cable (Optic	onal)	Driv	er (Optional)
C>	XS Single Axis 60	60*60mm	20	A	1.5µm	Blank	Not equipped		Blank	Not equipped
-				В	1µm	2	2m cable one end loose wire (Bend	ding Cable)	А	5-phase CVD
						4	4m cable one end loose wire (Ben	nding Cable)		
						6	6m cable one end loose wire (Ben	nding Cable)		
						2R	2m cable one end loose wire (High	h-Flex Cable)		
*Ben	nding Cable					4R	4m cable one end loose wire (High	h-Flex Cable)		
*Hig	h-Flex Cable					6R	6m cable one end loose wire (High	h-Flex Cable)		
	Model No.					СХ	S6020			
(A)	Model No. Table Size					CX 60	(S6020 X60 mm			
Me Spe	Model No. Table Size Travel Stroke (m	ım)			Po	CX 60	(S6020 X60 mm 20 mm			
Mecha Specific	Model No. Table Size Travel Stroke (m Drive Type Pail	ım)			Ва	CX 60 2 Il screv	(S6020 X60 mm 20 mm v Ø8 , lead 1mm			
Mechanic Specificati	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface	ım) Treatment			Ba	CX 60 2 Il screv Linear ess Ste	X6020 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating			
Mechanical Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve	im) Treatment			Ba Stainle	CX 60 2 Il screw Linear ess Ste OP :	X6020 X60 mm 20 mm v Ø8 , lead 1mm · ball guiding ·el / Nickel plating High-End			
Mechanical Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method	Treatment			Ba Stainle	CX 60 2 Il screw Linear ess Ste OP : N : GN	X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End IT standard			
Mechanical Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution Full / H	Treatment			Ba Stainle 1 2	CX 60 2 Il screv Linear ess Ste OP : N : GM um (Fu	X60 20 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End 4T standard 11) / 0.5 µm (Half)			
Mechanical Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution Full / H (Pulse) Maximum Speed (Fu	Treatment			Ba Stainle 1 2	CX 60 2 Il screw Linear ess Ste OP : N : GN µm (Fu µm (Fu 15 m	X6020 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End 4T standard II) / 0.5 µm (Half) III) / 1 µm (Half) m / sec			
Mechanical Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution © Full / F (Pulse) Maximum Speed (Fu Positioning Accur	Im)			Ba Stainle 1 2	CX 60 2 II screw Linear ess Ste OP : N : GM µm (Fu µm (Fu 15 m	X60 20 X60 mm 20 mm v Ø8 , lead 1mm v Ø8 , lead 1mm v Ø8 , lead 1mm v Ø8 , lead 1mm v International v International High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) m / sec 5 µm			
Mechanical F Specifications Sp	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution © (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu	Im) Treatment			Ba Stainle 1 2	CX 60 2 II screw Linear ess Ste OP : N : GM µm (Fu µm (Fu 15 m ±0.	X6020 X60 mm 20 mm ball guiding el / Nickel plating High-End 4T standard II) / 0.5 µm (Half) III) / 1 µm (Half) m / sec 5 µm 3 µm			
Mechanical Pre Specifications Specif	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / F (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability	Im) Treatment Id I I III Step) Iracy			Ba Stainle 1 2 A : 1.5	CX 60 2 II screv Linear ess Ste OP : N : GN µm (Fu µm (Fu 15 m ±0. µm	S6020 X60 mm 20 mm ball guiding el / Nickel plating High-End MT standard II) / 0.5 μm (Half) II) / 1 μm (Half) m / sec 5 μm 3 μm / B : 1 μm 7 Kof			
Mechanical Precisi Specifications Specifica	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / Full (Pulse) Full / Full Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion	Im) Treatment			Ba Stainle 1 2 A : 1.5	CX 60 2 II screv Linear ess Ste OP : N : GN µm (Fu µm (Fu 15 m ±0. µm	X6020 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End 1T standard II) / 0.5 μm (Half) II) / 1 μm (Half) II) / 1 μm (Half) m / sec 5 μm 3 μm / B : 1 μm 7 Kgf -0.5 μm			
Mechanical Precision Specifications Specification	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution © Full / H (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity	Im) Treatment			Ba Stainle 1 2 A : 1.5 Pitch 0.08	CX 60 2 Il screw Linear ess Ste OP : N : GM µm (Fu 15 m 15 m 4 ±0. µm	S6020 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End 1T standard II) / 0.5 μm (Half) iII) / 1 μm (Half) m / sec 5 μm 3 μm / B : 1 μm 7 Kgf 0.5 μm v 0.065 / Roll 0.065 ("/N-	-cm)		
Mechanical Precision Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw	am) Treatment el d Half M J ill Step) racy y Accuracy installation) y		F	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under	СХ 60 2 II screv Linear ess Ste OP : N : GN µm (Fu µm (Fu 15 m ±0. µm < 5 / Yaw - 20"	X6020 X60 mm 20 mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 μm (Half) III) / 1 μm (Half) III) / 1 μm (Half) m / sec 5 μm 7 kgf c0.5 μm 0.065 / Roll 0.065 ("/N- / Yaw : under 1	-cm) 15"		
Mechanical Precision Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution Full / H (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Durganic Strighthr	am)		F	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under	CX 60 2 II screv Linear ess Ste OP : N : GN μm (Fu 15 m 15 m 5 / Yaw 20"	X60 20 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 μm (Half) III) / 1 μm (Half) III) / 1 μm (Half) m / sec 5 μm 7 Kgf :0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 μm 2 μm	-cm) 5"		
Mechanical Precision Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution Resolution Full / H (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Paralleli	Imm) Imm Imm Imm		F	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under	CX 60 2 11 screv OP : N : GN um (Fu 15 m ±0. µm 5 / Yaw 20"	X6020 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) III) / 1 µm (Half) III) / 1 µm (Half) m / sec 5 µm 7 Kgf :0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 2 µm 10 µm	-cm) 5"		
Mechanical Precision Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / H (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Parallelism Dynamic Straightr Dynamic Paralleli Maters	Inm) Treatment I I I I I I I I I I I I I I I I I I I	vhase high resolutio	F	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under	CX 60 2 11 screv Linear ss Ste OP : OP : N : GN Jm (Fu Jm (Fu))) (Jm (Fu Jm (Fu))) (Jm (F	X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding lel / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) III) / 1 µm (Half) m / sec 5 µm 7 Kgf :0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 2 µm 10 µm ts J : 5-phase step	-cm) 15" pper motor	/ 28 (double shafts
Mechanical Precision Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / I- (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Paralleli Motor Type / Shaft I	Inm) Treatment Interpretation Interp	ohase high resolution M : Oriental	F on stepper m motor / F	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under pitch : under vt523HPMB	CX 60 2 11 screw Linear ss Ste OP : N : GN um (Fu 15 m 40. 15 m 40. 20" 20" 20" 200 200 200 200 200	X6020 X60 mm 20 mm v Ø8 , lead 1mm ball guiding tel / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) m / sec 5 µm 3 µm / B : 1 µm 7 Kgf 0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 2 µm 10 µm ts J : 5-phase step J : Orient	-cm) 15" pper motor tal motor /	/28 (7 PKP5)	double shafts 23N12B
Mechanical Precision Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / H (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Straightr Brand / M Driver Brand / Motor	mm) Treatment el M Half J Half	whase high resolution M : Oriental	F on stepper m motor / F	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under vitch : under vitc523HPMB Orien	CX 60 21 Iscrev Linear Linear SS Ste OP : N : GN µm (Fu 15 m ±0. µm 5 / Yaw 20" 21 21 21 21 21 21 21 22 22 22	X60 20 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 0.5 µm (Half) m / sec 5 µm 3 µm / B : 1 µm 7 Kgf 0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 20 µm 10 µm hs J : 5-phase stel J : Orient or / 5-phase CVD seriet	-cm) 15" pper motor tal motor / es (optior	/ □28 (/ PKP5: aal)	double shafts 23N12B
Mechanical Precision E Specifications Specifications Spe	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution Full / F (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Load Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Straightr Brand / M Driver Brand / M Driver Brand / M Connector Stage Side C Connector	Inm) Treatment Interval and Int	hase high resolution M : Oriental 15-pin male end	F on stepper m motor / F end connu	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under Noter / 28 do K523HPMB Orien Orien Cor D-SUE	CX 60 1 screvv Linear ss Ste OP : GN 15 m 40. 15 m 40. 14 m 5 / Yaw 20" 15 15 10 10 10 10 10 10 10 10 10 10	X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 0.5 µm (Half) III) / 1 µm (Half) m / sec 5 µm 3 µm / B : 1 µm 7 Kgf 0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 10 µm 12 µm 13 : 5-phase step J : 0rient or / 5-phase CVD seri 12-pin fmmale	-cm) 15" pper motor tal motor / es (optior nale end co	/28 (/ PKP5: hal) connect	double shafts 23N12B tor HRS IRS (optional)
Mechanical Precision Elect Specifications Specific	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution © Full / F (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Lost Motion Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Straightr Dynamic Straightr Brand / Mo Connector Stage Side C Controller Side Origin Se	Imm) Imm) Imm) Treatment Imm) Imm) Imm) Imm) <t< td=""><td>ohase high resolutio M : Oriental 15-pin male d in female end</td><td>Pon stepper m motor / F end connecto</td><td>Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch 0.08 Pitch : under Orien Orien Crisses of D-SUB (op D-SUB (op D-SUB (op</td><td>CX 600 22 11 screate CP : In create CP : CN : GN Pum (Fu Pum (Fu P</td><td>X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) III) / 1</td><td>-cm) [5" pper motor / es (optior nale end c end conne</td><td>/ 28 (/ PKP5) hal) connect ector H</td><td>double shafts 23N12B tor HRS IRS (optional)</td></t<>	ohase high resolutio M : Oriental 15-pin male d in female end	Pon stepper m motor / F end connecto	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch 0.08 Pitch : under Orien Orien Crisses of D-SUB (op D-SUB (op D-SUB (op	CX 600 22 11 screate CP : In create CP : CN : GN Pum (Fu Pum (Fu P	X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1	-cm) [5" pper motor / es (optior nale end c end conne	/ 28 (/ PKP5) hal) connect ector H	double shafts 23N12B tor HRS IRS (optional)
Mechanical Precision Electric: Specifications Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / F (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Paralleli Motor Stage Side C Controller Side Origin Se Limit Ser	Imm) Imm) Treatment Imm)	ohase high resolutio M : Oriental 15-pin male d in female end	on stepper m motor / F end connecto	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch 0.08 Pitch : under Orien Orien Orien Cr D-SUB (op Photoe	CX 600 22 11 screv Linear ess Ste OP : 1 N : GN 15 m 40 20 40 5 / Yaw 20 3 40 15 m 15 15 15 15 15 15 15 15 15 15	X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1	-cm) [5" pper motor / es (optior nale end c end conne	/ 28 d / PKP5 hal) connect ector H	double shafts 23N12B tor HRS IRS (optional)
Mechanical Precision Electrical Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution ◎ Full / F (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Paralleli Motor Stage Side C Connector Connector Stage Side C Origin Se Limit Se Origin Approxima	Im) Treatment I I I I I I I I I I	ohase high resolutio M : Oriental 15-pin male o in female end	on stepper m motor / F end connecto	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch 0.08 Pitch : under Orien Orien Orien Cor J-SUB Orien Photoe	CX 60 2 11 screar Server 0P : N : GN um (Fu um (Fu 15 m ±0. um (Fu 5 / Yaw 5 / Yaw 20" tal mot biological biological biological constant	X6020 X60 mm 20 mm v Ø8, lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) m / sec 5 µm 7 Kgf 0.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 10 µm 12 µm 10 µm 13 : 5-phase stel J : 0 rient or / 5-phase CVD seri 12-pin female of sensor GMT-sensor N / A 4/410%	-cm) 5" pper motor / es (optior nale end c end conno	/ □28 (/ PKP5 hal) connect ector H	double shafts 23N12B tor HRS IRS (optional)
Mechanical Precision Electrical Specifications Specifications	Model No. Table Size Travel Stroke (m Drive Type Rail Stage Material / Surface Accuracy Leve Wiring Method Resolution © Full / F (Pulse) Maximum Speed (Fu Positioning Accur Repeatability Accu Multi-Point Repeatability Accur Load Capacity (Horizontal Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightr Dynamic Straightr Dynamic Paralleli Motor Stage Side C Control on Side Control I Side Origin Approxima Stage Side C Control on Side Origin Se Origin Approxima Sensor	Im) Treatment I I I I I I I I I I	ohase high resolutio M : Oriental 15-pin male end	on stepper m motor / F end connecto	Ba Stainle 1 2 A : 1.5 Pitch 0.08 Pitch : under Pitch : under VK523HPMB Orien ector D-SUE r D-SUE (op Photoe	CX 60 11 screw Linear sess Ste OP : N : GN um (Fu 15 m ±0. 15 m ±0. ym 5 / Yaw 5 20" tal mot 3 btional) lectric : 24 collectric : 24 24 24 24 24 24 24 24 24 24	X60 20 X60 mm 20 mm v Ø8 , lead 1mm ball guiding el / Nickel plating High-End AT standard II) / 0.5 µm (Half) III) / 1 µm (Half) m / sec 5 µm 7 Kgf 30.065 / Roll 0.065 ("/N- / Yaw : under 1 20 µm 10 µm 13 J : 5-phase stel J : 0 rient or / 5-phase CVD seri 12-pin female sensor GMT-sensor N / A 4V±10% or output under 24V 86	-cm) 15" pper motor tal motor / es (optior nale end c end connu mA	/ □28 d / PKP5: al) ionnect ector H	double shafts 23N12B tor HRS IRS (optional)

 \bigcirc When using micro divisions, the resolution should be calculated separately.

○ For specifications of the linear scale, please contact our sales team.

 $\ensuremath{\bigcirc}$ The length of the connector cable is approximately 26 cm.

High-End Optical Communication Application Module

CXS6020





◎ The connector type in this product drawing is D-SUB.

strol

60

Table Size GMT GLOBAL INC.

CXS

series

www.gmtglobal

www.gmtglobalinc.com



CXS

series

High-End Optical Communication Application Module

CXS6030

	Model	Description	CXS6030	
	M	laterial Drive Ty	pe Accuracy Level Wiring Method Motor Model Connector Type	
	S	Stainless 2 Ball	screw OP High-End N GMT standard M biob resolution D D-SUB	
	0	steel 2 Dan		
Se CX *Ben	Axis & rial Numbe S Single	rs Table Size Axis 60 60*60mr	S 60 30 - S 2 OP A N - M D - 2R A m 30 Multi-Point Repeatability Accuracy A 1.5µm B 1µm Blank Not equipped 2m cable one end loose wire (Bending Cable) Blank Not equipped 4 4m cable one end loose wire (Bending Cable) 4m 5-phase CVD 6 6m cable one end loose wire (High-Flex Cable) 4R 4m cable one end loose wire (High-Flex Cable)	
*Higl	n-Flex C	Cable	6R 6m cable one end loose wire (High-Flex Cable)	
	N	lodel No.	CXS6030	
s –	N	lodel No. Table Size	CXS6030 60X60 mm	
Mec	N	lodel No. Table Size Travel Stroke (mm)	CXS6030 60X60 mm 30 mm Ball screw (Ø8, lead 1mm	
Mecha Specific	N	lodel No. Table Size Travel Stroke (mm) Drive Type Rail	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding	
Mechanica Specificatio	N	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating	
Mechanical Specifications	N Stage	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End	
Mechanical Specifications	N Stage	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 um (Eult) / 0.5 um (Half)	
Mechanical Specifications	M Stage Resolu (Puls	Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method tion ◎ Full / Half M J	CXS6030 60X60 mm 30 mm Ball screw Ø8, lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half)	
Mechanical Specifications	M Stage Resolu (Puls Ma	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method tion ◎ Full / Half M e) Full / Half J ximum Speed (Full Step)	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec	
Mechanical Specifications S	N Stage Resolu (Puls Ma	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method tion □ Full / Half Politioning Accuracy Positioning Accuracy	CXS6030 60X60 mm 30 mm Ball screw Ø8, lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec 5 µm ±0 3 µm	
Mechanical Pr Specifications Spec	M Stage Resolu (Puls Ma F Multi-F	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method tion	CXS6030 60X60 mm 30 mm Ball screw Ø8, lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm	
Mechanical Preci Specifications Specific	N Stage Resolu (Puls Ma F Multi-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wring Method tion ◎ Full / Half J e) Full / Half J ximum Speed (Full Step) Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf	
Mechanical Precision Specifications Specificati	N Stage Resolu (Puls Ma F Multi-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method tion ◎ Full / Half J y Full / Half J Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy Lost Motion	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf <0.5 µm	
Mechanical Precision Specifications Specifications	Kesolu (Puls Ma F Multi-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wring Method tion ◎ Full / Half J ximum Speed (Full Step) Positioning Accuracy Positioning Accuracy Positioning Accuracy Point Repeatability Accuracy Point Repeatability Accuracy Point Repeatability Accuracy Data Repeatability Accuracy Point Repeat	CXS6030 60X60 mm 30 mm Ball screw Ø8, lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 0.5 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf <0.5 µm Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Bitch : under 20"	
Mechanical Precision Specifications Specifications	N Stage Resolu (Puls Ma f Multi-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wining Method tion ◎ Full / Half J ximum Speed (Full Ste) Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy P	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 μm (Full) / 0.5 μm (Half) 2 μm (Full) / 0.5 μm (Half) 2 μm (Full) / 1 μm (Half) 15 mm / sec 5 μm ±0.3 μm A : 1.5 μm / B : 1 μm 7 Kgf <0.5 μm Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch : under 20" / Yaw : under 15" 20 μm	
Mechanical Precision Specifications Specifications	Kesolu (Pulse Ma F Multi-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wining Method tion ◎ Full / Half J Surface Treatment Accuracy Level Wining Accuracy Repeatability Accuracy Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy Paparalelism Dynamic Straightness	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm 7 Kgf <0.5 µm	
Mechanical Precision Specifications Specifications	Kesolu (Pulse Ma F Multi-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wring Method tion ◎ Full / Half J Surface Treatment Accuracy Level Wring Method M J Surface Treatment M J J Surface Treatment M J Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightness Dynamic Parallelism	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1.5 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf <0.5 µm Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 1 under 20" / Yaw : under 15" 20 µm 2 µm 10 µm	
Mechanical Precision Specifications Specifications	N Stage Resolu (Pulse Malti-F Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wring Method tion □ Full / Half J Surface Treatment Accuracy Level Wring Method M J Positioning Accuracy Repeatability Accuracy Positioning Accurac	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 2 µm (Full) / 1 µm (Half) 15 µm / B : 1 µm 7 Kgf < 0.5 µm	
Mechanical Precision Specifications Specifications	N Stage Resolu (Puls Ma I Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method Wiring Method Ming Positioning Accuracy Repeatability Accuracy Positioning Accuracy Repeatability Accuracy Repeatability Accuracy Positioning Accuracy Repeatability Accuracy Repeatab	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1.5 µm (Half) 2 µm (Full) / 1.5 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf Pitch 0.085 / Roll 0.065 ("/N-cm) Pitch 1.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 1.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 1.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 1.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 1.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 1.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Q µm 2 µm 1.20 µm J : 5-phase stepper motor / □28 double shafts M : Oriental motor / PKP523HPMB J : Oriental motor / PKP523N12B <td></td>	
Mechanical Precision Specifications Specifications Sp	N Stage Resolu (Puls, Ma H Load C	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method Wiring Method Ming O Pull / Half g) Positioning Accuracy Repeatability Accuracy Repeatability Accuracy Positional installation) Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightness Dynamic Straightness	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 2 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf <0.5 µm	
Mechanical Precision Ele Specifications Specifications Speci	N Stage Resolu (Puls, Ma I Load C Motor Connector	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method Wiring Method Wiring Method Wiring Accuracy Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy Point Repeatability Accuracy apacity (Horizontal installation) Lost Motion Torque Rigidity Pitch / Yaw Parallelism Upnamic Straightness Dynamic Parallelism Type / Shaft Numbers Brand / Model Stage Side Connector Controller Side Connector	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 2 µm (Full) / 1 µm (Half) 15 mm / sec 5 µm ±0.3 µm A : 1.5 µm / B : 1 µm 7 Kgf Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch : under 20" / Yaw : under 15" 20 µm 2 µm 10 µm M : 5-phase stepper motor / _28 double shafts M : 5-phase stepper motor / PKP523N12B Oriental motor / PK523HPMB M : 5-phase stepper motor / _28 double shafts M : Oriental motor / PK523HPMB M : Oriental motor / PK523HPMB M : Oriental motor / PK523HPMB M : Oriental motor / PK523HPMB <td< td=""><td></td></td<>	
Mechanical Precision Electri Specifications Specifications Specific	N Stage Resolu (Puls- Multi-F Load C Motor	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method Wiring Method Mino Poll / Half M a) Ximum Speed (Full Step) Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy Point Repeatability Accuracy Rapacity (Horizontal installation) Lost Motion Torque Rigidity Pitch / Yaw Parallelism Dynamic Straightness Dynamic Parallelism Type / Shaft Numbers Brand / Model Stage Side Connector Controller Side Connector Controller Side Connector	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 15 µm A : 1.5 pin tesolution stepper motor / □28 double s	
Mechanical Precision Electrical Specifications Specifications Specification	N Stage Resolu (Puls) Ma I Load C Motor Connector	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wiring Method Uring Method Pull / Half M j Ximum Speed (Full Step) Positioning Accuracy Repeatability Accuracy Point Repeatability Accuracy Point Repeatability Accuracy Point Repeatability Accuracy Point Repeatability Accuracy Dynamic Straightness Dynamic Straightness Dynamic Parallelism Type / Shaft Numbers Brand / Model Driver Brand / Model Stage Side Connector Origin Sensor Limit Sensor Origin Sensor	CXS6030 60X60 mm 30 mm Ball screw Ø8 , lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 2 µm (Full) / 1 µm (Half) 2 µm (Full) / 1 µm (Half) 15 µm A : 1.5 µm Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Pitch 0.085 / Yaw 0.065 / Roll 0.065 ("/N-cm) Qi µm 20 µm 2 µm 10 µm J : 5-phase stepper motor / □28 do	
Mechanical Precision Electrical Specifications Specifications	N Stage Resolu (Puls Ma F Multi-F Load C Connector	Iodel No. Table Size Travel Stroke (mm) Drive Type Rail Material / Surface Treatment Accuracy Level Wring Method tion © Full / Half e) Full / Half e) Full / Half e) Full / Half g) Full / Half g) Full / Half g) Full / Half g) Tore Positioning Accuracy Positioning Accuracy Power Voltage Power Voltage	CXS6030 60X60 mm 30 mm Ball screw Ø8, lead 1mm Linear ball guiding Stainless Steel / Nickel plating OP : High-End N : GMT standard 1 µm (Full) / 0.5 µm (Half) 2 µm (Full) / 1 µm (Half) 2 µm (Full) / 1 µm (Half) 1 B : 1 µm 7 Kgf < 5 µm	

Testing (sensing) : output transistor OFF (closed)

High-End Optical Communication Application Module

CXS6030





◎ The connector type in this product drawing is D-SUB.



GMT GLOBAL INC.

CXS

series

 \bigcirc When using micro divisions, the resolution should be calculated separately.

○ For specifications of the linear scale, please contact our sales team.
 ○ The length of the connector scale is approximately 26 cm.

 \odot The length of the connector cable is approximately 26 cm.

Output Control

www.gmtglobalinc.com

ww.gmtglobal



CXN

series

www.gmtglobalinc.com

18

High-End Optical Communication Application Module



Model Description Multi-Point Drive Type Accuracy Level Wiring Method Motor Model Connector Type Material epeatability Accuracy 5-phase S Stainless steel 2 OP High-End А 1.5µm N GMT standard Μ D D-SUB Ball screw high resolution 5-phase stepper motor В H HRS 1µm J CXN 60 30 - S 2 OP A N - M D - P1 - 2R A Axis & Stroke (mm) Table Size Pitch Connecting Cable (Optional) Driver (Optional) CXN Serial Numbers Single Axis (W/O dustproof cover) 60 60*60mm 30 P1 1mm Blank Not equipped Blank Not equipped P2 2mm 2 2m cable one end loose wire (Bending Cable) A 5-phase CVD 4 4m cable one end loose wire (Bending Cable) 6 6m cable one end loose wire (Bending Cable) 2R 2m cable one end loose wire (High-Flex Cable) 4R 4m cable one end loose wire (High-Flex Cable) *Bending Cable *High-Flex Cable 6R 6m cable one end loose wire (High-Flex Cable)

		Table Size		60X60 r	nm			
≥ S		Travel Stroke (mm)	30mm				
Pec		Drive Type		Ball screw Ø8 , lead 1mm	Ball screw Ø8, lead 2mm			
hanic:		Rail		Linear ball	guiding			
	Stage	Material / Surface T	reatment	Stainless Steel / N	Nickel plating			
2 8		Accuracy Level		OP : High	i-End			
·		Wiring Method		N : GMT st	andard			
	Resolu	tion Could the	M	1 μm (Full) / 0.5 μm (Half)	2 µm (Full) / 1 µm (Half)			
	(Puls	e) Full / Hai	J	2 µm (Full) / 1 µm (Half)	4 μm (Full) / 2 μm (Half)			
	Ма	ximum Speed (Full :	Step)	15 mm / sec	30 mm / sec			
		Positioning Accurac	v	5 µm	1			
ŝ	F	Repeatability Accura	cy	±0.3 µn	1			
	Multi-F	oint Repeatability	Accuracy	A : 1.5 µm /	/ B:1µm			
fici	Load C	apacity (Horizontal in	stallation)	12 Kgf				
at Si		Lost Motion		<0.5 µm				
		Torque Rigidity		Pitch 0.06 / Yaw 0.06 / Roll 0.06 ("/N-cm)				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Pitch / Yaw		Pitch : under 20" / Yaw : under 15"				
		Parallelism		20 µm				
		Dynamic Straightne	ss	2 µm				
		Dynamic Parallelisr	n	10 μ	m			
	Motor	Type / Shaft Nu	mbers	M $:$ 5-phase high resolution stepper motor / \Box 28 double shafts	${\sf J}$: 5-phase stepper motor / \Box 28 double shafts			
	WIOTOI	Brand / Moo	lel	M : Oriental motor / PKP523MN07B	J: Oriental motor / PKP523N12B			
	D	river Brand / Model		Oriental motor / s	5-phase CVD series <mark>(optional)</mark>			
Ś	Connector	Stage Side Con	nector	15-pin male end connector D-SUB	12-pin male end connector HRS			
ĕШ.	Connector	Controller Side Co	onnector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional			
i či		Origin Sens	or	Photoelectric sens	or GMT-sensor			
		Limit Sense	or					
n al	Sensor	Origin Approximation	on Sensor	N/A				
o		Power Volta	ge	24V±1	0%			
		Control outp	out	NPN open collector ou	tput under 24V 8mA			
		Output Cont	rol	Testing (sensing) : output	transistor OFF (closed)			

High-End Optical Communication Application Module

CXN6030



* Product photo is for reference only. For detailed specifications, please refer to the catalog.



◎ The connector type in this product drawing is D-SUB.

GMT GLOBAL INC.

CXN series

www.gmtglobalinc.com

19



CXN

series

High-End Optical Communication Application Module

CXN6050



	Ν	Model No.		CXN6	050			
		Table Size		60X60 mm				
SS	Travel Stroke (mm)			50mm				
Pec		Drive Type		Ball screw Ø8, lead 1mm	Ball screw Ø8, lead 2mm			
ha		Rail		Linear ball	guiding			
nic	Stage N	Material / Surface	Treatment	Stainless Steel / N	Nickel plating			
<u>, 8</u>		Accuracy Leve	el	OP : High	n-End			
		Wiring Method	ł	N : GMT st	andard			
	Resolutio	n O	M	1 μm (Full) / 0.5 μm (Half)	2 µm (Full) / 1 µm (Half)			
	(Pulse)) Full / Ha	J	2 µm (Full) / 1 µm (Half)	4 μm (Full) / 2 μm (Half)			
	May	vimum Speed (Fu	III Sten)	15 mm / sec	30 mm / sec			
	ivid./	Positioning Accur	acv	5 µm				
Ś	R	epeatability Accu	iracy	±0.3 µm				
P	Multi-P	oint Repeatabilit	y Accuracy	A : 1.5 µm /	B:1µm			
E C	Load Capacity (Horizontal installation)			12 Kgf				
nat isi		Lost Motion		<0.5 µm				
ğ ă	Torque Rigidity			Pitch 0.06 / Yaw 0.06 / Roll 0.06 ("/N-cm)				
<i>i</i> n		Pitch / Yaw		Pitch : under 20" / Yaw : under 15"				
		Parallelism		20 µm				
	[Dynamic Straightr	ness	2 µm				
		Dynamic Parallel	ism	10 µ	m			
	Matan	Type / Shaft	Numbers	M : 5-phase high resolution stepper motor / 28 double shafts	J \div 5-phase stepper motor / \Box 28 double shafts			
	IVIOLOI	Brand / M	Model	M : Oriental motor / PKP523MN07B	J: Oriental motor / PKP523N12B			
	D	river Brand / Moo	del	Oriental motor /	5-phase CVD series (optional)			
n	C	Stage Side C	Connector	15-pin male end connector D-SUB	12-pin male end connector HRS			
ΒШ	Connector	Controller Side	Connector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional			
		Origin Se	ensor	Photoelectric sens	or GMT-sensor			
nic I		Limit Se	ensor					
	Sensor	Origin Approxim	ation Sensor	N/A	4			
5	0011001	Power Vo	oltage	24V±1	0%			
		Control c	output	NPN open collector ou	tput under 24V 8mA			
		Output C	ontrol	Testing (sensing) : output	transistor OFF (closed)			

High-End Optical Communication Application Module

CXN6050



◎ The connector type in this product photo is HRS.

* Product photo is for reference only. For detailed specifications, please refer to the catalog.



P1

Ø4.5 ; Ø8

PxN

◎ The connector type in this product drawing is D-SUB.



www.gmtglobalinc.com

GMT GLOBAL INC.

CXN series

 \odot The length of the connector cable is approximately 26 cm.



CXN

series

www.gmtglobalinc.com

22

High-End Optical Communication Application Module

CXN60100



		Tab	le Size		60X60 n	nm		
S >	Travel Stroke (mm)				100mm			
ec lec		Driv	е Туре		Ball screw Ø8 , lead 1mm	Ball screw Ø8, lead 2mm		
ific		F	Rail		Linear ball guiding			
ati ni	Stage	Material /	Surface Trea	tment	Stainless Steel / N	lickel plating		
<u>n a</u>		Accura	acy Level		OP : High	-End		
0		Wiring	g Method		N : GMT sta	Indard		
	Baselu			М	1 μm (Full) / 0.5 μm (Half)	2 µm (Full) / 1 µm (Half)		
	(Puls	ilion ie)	Full / Half	J	2 µm (Full) / 1 µm (Half)	4 μm (Full) / 2 μm (Half)		
	Ma	ximum Sr	eed (Full Ste	(a:	15 mm / sec	30 mm / sec		
		Positionir	ng Accuracy	-/	10 µm			
S	Repeatability Accuracy				±0.3 μm			
Pr	Multi-I	Point Rep	eatability Acc	uracy	A:1.5 µm /	B:1µm		
Cific	Load Capacity (Horizontal installation)			lation)	12 Kgt	f		
at sio	Lost Motion				<0.5 µm			
	Torque Rigidity				Pitch 0.06 / Yaw 0.06 / Roll 0.06 ("/N-cm)			
20	Pitch / Yaw				Pitch : under 20" / Yaw : under 15"			
		Para	allelism		20 µm			
		Dynamic	Straightness		4 µm			
		Dynamic	Parallelism		10 µr	n		
	Motor	Туре	/ Shaft Numl	bers	M : 5-phase high resolution stepper motor / \Box 28 double shafts	J : 5-phase stepper motor / □28 double shafts		
		E	Brand / Model		M:Oriental motor / PKP525MN07B	J : Oriental motor / PKP525N12B		
	I	Driver Bra	nd / Model		Oriental motor / 5	i-phase CVD series (optional)		
ຽ	Connector	Stage	e Side Conne	ector	15-pin male end connector D-SUB	12-pin male end connector HRS		
ĕ ⊞		Contro	ller Side Con	nector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional		
fig		0	rigin Sensor		Photoelectric sense	or GMT-sensor		
		l	Limit Sensor					
	Sensor	Origin Ap	oproximation	Sensor	N/A			
ō		Po	ower Voltage		24V±1	0%		
		0	ontroi output		NPN open collector out	tput under 24V 8mA		
		0	utput Control		Testing (sensing) : output	transistor OFF (closed)		

High-End Optical Communication Application Module

CXN60100



 $\ensuremath{\bigcirc}$ The connector type in this product photo is HRS.

* Product photo is for reference only. For detailed specifications, please refer to the catalog.





Stroke

100

◎ The connector type in this product drawing is D-SUB.

Ρ

190 296.5 50 1 50

Ν

L1

P1

P2

20



series

High-End Optical Communication Application Module



	Model No.			AXG6-75VI	MC-20P	
()	Table Size			60X60	mm	
pe		Travel Stroke		±6°		
ĉif		Drive Type		Ball scre	ew Ø8	
ican		Rail		Crossed-rolle	er guiding	
tio	Stage I	Material / Surface Tre	eatment	Aluminum alloy /	Black anodized	
ns II		Accuracy Level		OP : Hig	h-End	
		Wiring Method		R: Right wiring (Inventory s	pecification) / L: Left wiring	
	Resolu	tion	М	0.00071°/0	0.000355°	
	(Pulse	e)	J	0.00142°/0	.00071°	
(0)	Ma	ximum Speed (Full S	tep)	7.1°/s	ec	
бъ		Positioning Accuracy	,	0.02°		
či re	F	Repeatability Accurac	y	±0.002°		
ica	Load Ca	apacity (Horizontal inst	allation)	5Kgf		
itio n		Lost Motion		<0.002°		
ns		Torque Rigidity		Pitch 0.3 / Yaw 0.12 / Roll 0.15 ("/N-cm)		
	He	eight of Rotation Cen	ter	75±0.1mm		
	Acc	uracy of Rotation Ce	nter	<0.01	nm	
	Motor	Type / Shaft Nur	nbers	M : 5-phase high resolution stepper motor / \Box 28 double shafts	J : 5-phase stepper motor $/$ \Box 28 double shafts	
	motor	Brand / Mod	el	M : Oriental motor / PK523HPMB	J : Oriental motor / PKP523N12B	
	0	Driver Brand / Model		Oriental motor /	5-phase CVD series (optional)	
S	Connector	Stage Side Conr	nector	15-pin male end connector D-SUB	12-pin male end connector HRS	
ы	Connocion	Controller Side Co	nnector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional)	
i i i i i i i i i i i i i i i i i i i		Origin Senso	or	Photoelectric sens	or GMT-sensor	
rica		Limit Senso	r			
<u>lo</u> n	Sensor	Origin Approximatio	n Sensor	N /	A	
S	0011001	Power Voltag	le	24V±1	0%	
		Control outp	ut	NPN open collector o	utput under 24V 8mA	
		Output Contr	ol	Testing (sensing) : output	it transistor OFF (closed)	

OFor specifications of the linear scale, please contact our sales team. ©The length of the connector cable is approximately 26 cm.

High-End Optical Communication Application Module

AXG series



◎ The connector type in this product photo is HRS.

* Product photo is for reference only. For detailed specifications, please refer to the catalog.

AXG6-75VMC-20PR







AXG

series

com

www.gmtglobalinc.



series

High-End	Optical	Communication	Application	Module
AXG series				



	Model No.			AXG6-100VI	MC-20P		
(0	Table Size			60X60 r	nm		
ğ≤		Travel Stroke		±5°			
ect		Drive Type		Ball screv	v Ø8		
fici		Rail		Crossed-rolle	r guiding		
atic	Stage I	Material / Surface Tre	atment	Aluminum alloy /	Black anodized		
al		Accuracy Level		OP : High-	End		
C		Wiring Method		R: Right wiring (Inventory spe	ecification) / L: Left wiring		
	Resolut		М	0.00055°/0	.000275°		
	(Puls	e) Full / Half	J	0.0011°/0	.00055°		
(0)	Max	kimum Speed (Full St	ep)	5.4°/se	ec		
β _Γ		Positioning Accuracy		0.02	0		
eci	F	epeatability Accuracy	y	±0.002°			
fica	Load Ca	apacity (Horizontal insta	allation)	5Kgf			
iti or		Lost Motion		<0.002°			
Ins		Torque Rigidity	idity Pitch 0.3 / Yaw 0.12 / Roll 0.15 ("/N-cm)				
	He	eight of Rotation Cent	er	100±0.1mm			
	Acc	uracy of Rotation Cer	nter	<0.01mm			
	Motor	Type / Shaft Num	nbers	M : 5-phase high resolution stepper motor / 28 double shafts	J:5-phase stepper motor $/$ \Box 28 double shafts		
		Brand / Mode	el	M : Oriental motor / PK523HPMB	J: Oriental motor / PKP523N12B		
	[Driver Brand / Model		Oriental motor / 5	5-phase CVD series (optional)		
S	Connector	Stage Side Conn	ector	15-pin male end connector D-SUB	12-pin male end connector HRS		
pe⊡		Controller Side Cor	nnector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional)		
cifi		Origin Senso	r	Photoplastria cons	or CMT concor		
cat		Limit Sensor	r	Filotoelectite sens	of GMT-sensor		
ior a	Sensor	Origin Approximation	n Sensor	N / /	A		
รเ	001301	Power Voltage	е	24V±1	0%		
		Control output	ut	NPN open collector out	put under 24V 8mA		
		Output Contro	ol	Testing (sensing) : output t	ransistor OFF (closed)		
©The ©For ©The	e value w specific e length o	vill be halved whe ations of the line of the connector	en the r ar scale cable is	notor is changed to a high-resolution motor. ३, please contact our sales team. s approximately 26 cm.			

High-End Optical Communication Application Module AXG series



◎ The connector type in this product photo is HRS.

* For detailed specifications, please refer to the catalog. Product photo is for reference only.

AXG6-100VMC-20PR







AXG

series

com

www.gmtglobalinc.



High-End Optical Communication Application Module	<u>,</u>
AXG series	



	Model No.		AXG6-125VMC-20P		
(0)		Table Size	60X60 mm		
b ^d S		Travel Stroke	±4°		
eci		Drive Type	Ball screw Ø8		
fica		Rail	Crossed-roller guiding		
atic	Stage N	Naterial / Surface Treatmer	Aluminum alloy / Black anodized		
al		Accuracy Level	OP : High-End		
		Wiring Method	R: Right wiring (Inventory specification) / L: Left wiring		
	Resolu	Ition	0.00044°/0.00022°		
	(Puls	e)	0.00088°/0.00044°		
	Мах	imum Speed (Full Step)	4.4°/sec		
Sp -	1	Positioning Accuracy	0.02°		
eci	R	epeatability Accuracy	±0.002°		
fici	Load Ca	pacity (Horizontal installation	5Kgf		
atic		Lost Motion	<0.002°		
ns		Torque Rigidity	Pitch 0.3 / Yaw 0.12 / Roll 0.15 ("/N-cm)		
•	He	ight of Rotation Center	125±0.1mm		
	Acc	uracy of Rotation Center	<0.01mm		
	Motor	Type / Shaft Numbers	M : 5-phase high resolution stepper motor / 28 double shafts J : 5-phase stepper motor / 28 double shafts		
	motor	Brand / Model	M : Oriental motor / PK523HPMB J : Oriental motor / PKP523N12B		
	0	Priver Brand / Model	Oriental motor / 5-phase CVD series (optional)		
G	Connector	Stage Side Connector	15-pin male end connector D-SUB 12-pin male end connector HRS		
pé⊡	Connoctor	Controller Side Connect	15-pin female end connector D-SUB (optional) 12-pin female end connector HRS (optional)		
cifi		Origin Sensor	Photoelectric sensor GMT-sensor		
cat	Sensor	Limit Sensor			
lior		Origin Approximation Sen	or N / A		
รเ	0011001	Power Voltage	24V±10%		
		Control output	NPN open collector output under 24V 8mA		
		Output Control	Testing (sensing) : output transistor OFF (closed)		
©The ○ For ○ The	value v specific length	vill be halved when the cations of the linear so of the connector cat	e motor is changed to a high-resolution motor. cale, please contact our sales team. e is approximately 26 cm.		



* Product photo is for reference only. For detailed specifications, please refer to the catalog.

AXG6-125VMC-20PR





series

com

.gmtglobalinc.



AXG series

High-End Optical Communication Application Module

AXG Distance Between Fulcrum

AXG-VMC-2OP Distance Between Fulcrum

Moving Angle (°)=arcSin (Input Pulse / Distance Between Fulcrum) / Number of Divisions



5-phase stepper motor division numbers: Full step 500 divisions; half step 1000 divisions

Distance Between Fulcrum : Distance between center of rotation and bearing

Model	Distance Between Fulcrum
AXG6-75VMC-2OP	80.9 mm
AXG6-100VMC-20P	105.9 mm
AXG6-125VMC-2OP	130.9 mm

High-End Optical Communication Application Module

AXG Calculation Formula



Calculation Formula:

Table Rotation Angle: $\theta = \sin^{-1}(\frac{L}{R})$

Ball screw feeding distance: L'= $R x \sin \theta$ R = Distance Between Fulcrum θ = Table Rotation Angle

L' = Ball Screw feeding distance calculation

a-Axis

	model	AXG6-75VMC	AXG6-100VMC	AXG6-125VMC	
Code	R	80.9	105.9	130.9	
	θ	12°	10°	8°	

例:AXG6-75VMC Table rotation angle calculation $\theta = \sin^{-1}(\frac{1}{80.9}) = 0.708^{\circ}$

例:AXG6-75VMC Ball Screw feeding distance calculation

 $L' = 80.9 X \sin(0.708^{\circ}) = 1$

Note: Actual values may have slight discrepancies due to trigonometric function conversions.

GMT GLOBAL INC.

*Bending Cable

*High-Flex Cable

High-End Optical Communication Application Module

AR 59

AR59 Model Description Drive Type Motor Model Motor Model Material Wiring Method Accuracy Level A Aluminum alloy worm & worm gear D-SUB Precision D 3 Р N GMT standard C 5-phase stepper grade HRS н X Not equipped AR 59 - A 3 P N - C D - 2R C Axis & Serial Numbers Table Size Connecting Cable (Optional) Driver (Optional) AR θ-Axis 59 Ø59mm Blank Not equipped Blank Not equipped 2m cable one end loose wire (Bending Cable) C GMT standard 2 4 4m cable one end loose wire (Bending Cable)

	N	lodel No.	AK09-A0FN-CD		
		Table Size	Ø59		
S		Travel Stroke	360°		
be		Drive Type	Worm & worm gear (ratio 1 / 180)		
i i i i i i i i i i i i i i i i i i i		Rail	Assembled deep groove ball bearing		
lica	Stage N	Naterial / Surface Treatment	Aluminum alloy / Black anodized		
atic		Main Unit Weight	0.62 Kg		
ong al		Coupling	FAMMS12-5*6		
		Accuracy Level	P: Precision grade		
		Wiring Method	N: GMT Standard		
		Resolution (Pulse)	0.004° (Full) / 0.002° (Half)		
	Max	timum Speed (Full Step)	20 deg / sec		
sp -		Positioning Accuracy 0.05°			
eci	R	epeatability Accuracy	±0.01°		
fic	Load Ca	apacity (Horizontal installation)	3 Kgf		
ati		Lost Motion	0.05°		
on n		Parallelism	30 µm		
S	C	ynamic Concentricity	30 µm		
		Dynamic Parallelism	20 µm		
	Motor	Type / Shaft Numbers	5-phase stepper motor / 28 double shafts		
	WOLDI	Brand / Model	SANYO / SH5281-7211		
	D	river Brand / Model	GTR515B		
S		Stage Side Connector	15-pin male end connector D-SUB / 12-pin male end connector HRS		
Б Ш	Connector	Controller Side Connector	15-pin female end connector D-SUB / 12Pin-pin female end connector HRS (optional)		
cifi		Origin Sensor	Dhataalaatria aaaaan CMT aaaaan		
cat		Limit Sensor	Photoelectric sensor GMT-sensor		
lior al		Origin Approximation Sensor	N/A		
รเ	Sensor	Power Voltage	24V±10%		
		Control output	NPN open collector output under 24V 8mA		
		Output Control	Testing (sensing) ; output transistor OFF (closed)		

6

2R

6m cable one end loose wire (Bending Cable)

2m cable one end loose wire (High-Flex Cable) 4R 4m cable one end loose wire (High-Flex Cable)

6R 6m cable one end loose wire (High-Flex Cable)

O GMT standard wiring method has no distinction between left and right wiring.

◎ The standard connector types for the product are D-SUB and HRS.





* Product photo is for reference only. For detailed specifications, please refer to the catalog.

118 60 58 AR59-A 50 <u>3-ø4.5;ø8x4L</u> 20 20 16 16 20 4 ___ 30 ø30/ \ø34 H7x5L 8-M3x5.5L ø59 35 24.5 GMT

www.gmtglobalinc.com 33

GMT GLOBAL INC.

AR 59

GLOBAL INC.

ARH 60

High-End Optical Communication Application Module

ARH60

Model Des	cription								
	Mate A ^{Alu}	erial minum alloy	Driv 2 Ba	ve Type all Screw	Accuracy Lev OP High-Enc	el 1	Wiring Method N Right wiring (general wiring) L Left wiring		
Axis &	ARH	60 -	- A	Motor Model	Connector Type	M	D - 2R A	Drive	er (Optional)
Axis & Serial Numbers ARH 0-Axis	ARH 60	Table Size	- A	Motor Model S-phase bick resultion	Connector Type	Cc Blank	D - 2R A	Drive	er <mark>(Optional</mark>) Not equippe
Axis & Serial Numbers ARH θ-Axis	60 80	60 - Table Size Ø60mm Ø80mm Ø80mm	- A	Motor Model 5-phase high resolution 5-phase	Connector Type D D-SUB H HRS	Cc Blank 2	D - 2R A	Drive Blank A	er <mark>(Optional</mark> Not equipp 5-phase CV
Axis & Serial Numbers ARH θ-Axis	60 80	60 Table Size Ø60mm Ø80mm	- A	Motor Model 5-phase high resolution 5-phase stepper motor	Connector Type D D-SUB H HRS	Cc Blank 2 4	D - 2R A connecting Cable (Optional) Not equipped 2m cable one end loose wire (Bending Cable) 4m cable one end loose wire (Bending Cable)	Drive Blank A	er <mark>(Optional</mark> Not equipp 5-phase C ¹
Axis & Serial Numbers ARH θ-Axis	60 80	60 Table Size Ø60mm Ø80mm	M J	Motor Model 5-phase high resolution 5-phase stepper motor	Connector Type D D-SUB H HRS	Ccc Blank 2 4 6	D - 2R A onnecting Cable (Optional) Not equipped 2m cable one end loose wire (Bending Cable) 4m cable one end loose wire (Bending Cable) 6m cable one end loose wire (Bending Cable)	Drive Blank A	er (Optional Not equipp 5-phase CV
Axis & Serial Numbers ARH θ-Axis	60 80	60 Table Size Ø60mm Ø80mm	M J	Motor Model 5-phase high resolution 5-phase stepper motor	Connector Type D D-SUB H HRS	Cc Blank 2 4 6 2R	D - 2R A onnecting Cable (Optional) Not equipped 2m cable one end loose wire (Bending Cable) 4m cable one end loose wire (Bending Cable) 6m cable one end loose wire (Bending Cable) 2m cable one end loose wire (High-Flex Cable)	Drive Blank A	er (Optional Not equipp 5-phase C
Axis & Serial Numbers ARH 0-Axis	60 80	60 - Table Size Ø60mm Ø80mm	M J	Motor Model 5-phase high resolution 5-phase stepper motor	PN-	Cc Blank 2 4 6 2R 4R	D - 2R A meeting Cable (Optional) Not equipped 2m cable one end losse wire (Bending Cable) 4m cable one end losse wire (Bending Cable) 5m cable one end losse wire (Bending Cable) 2m cable one end losse wire (High-Flex Cable) 4m cable one end losse wire (High-Flex Cable)	Drive Blank A	er (Optional Not equipp 5-phase C

	Mo	odel No.	ARH60-A	20PN					
(0		Table Size	Ø60 n	ım					
bĕ₹		Travel Stroke	±7.5°						
ect		Drive Type	Ball Screw						
lica		Rail	deep groove ball bearing						
atic ci	Stage Ma	aterial / Surface Treatment	Aluminum alloy /	Black anodized					
al		Accuracy Level	OP : Hig	h-End					
		Wiring Method	N: GMT Standard (Right	wiring) / L: Left wiring					
	Resoluti	on ◎ Full / Half M	0.00105° (Full) / 0	.00055° (Half)					
	(Pulse) J	0.0021° (Full) / 0	0.0021° (Full) / 0.0011° (Half)					
	Maxir	num Speed (Full Step)	10.5° /	10.5° / sec					
sp_	P	ositioning Accuracy	0.03°						
ec	Re	peatability Accuracy	±0.003°						
ifici	Load Cap	acity (Horizontal installation)	8 Kgf						
ati		Lost Motion	<0.00	<0.003°					
on n		Torque Rigidity	0.32("/\	l-cm)					
S		Parallelism	30 µ	m					
	Dy	namic Concentricity	30 µ	m					
	D	ynamic Parallelism	10 µ	m					
	Motor	Type / Shaft Numbers	M : 5-phase high resolution stepper motor / \Box 28 double shafts	J \vdots 5-phase stepper motor / \Box 28 double shafts					
S		Brand / Model	M : Oriental motor / PK523HPMB	J : Oriental motor / PKP523N12B					
e⊡	D	river Brand / Model	Oriental motor / 5-phase C	VD series (optional)					
cifi	Connector	Stage Side Connector	15-pin male end connector D-SUB	12-pin male end connector HRS					
Ca	Connector	Controller Side Connector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional)					
tio al	Power Voltage		24V±1	0%					
ns	Sensor	Control output	NPN open collector output	ut under 24V 8mA					
		Output Control	Testing (sensing) : output tra	insistor OFF (closed)					

◎The value will be halved when the motor is changed to a high-resolution motor.
◎For specifications of the linear scale, please contact our sales team.

High-End Optical Communication Application Module

ARH60



* Product photo is for reference only. For detailed specifications, please refer to the catalog.







www.gmtglobalinc.com

ARH 60

GMT GLOBAL INC.

High-End Optical Communication Application Module

ARH 80

Мс	del Desc	ription	A								
		Mate	arial Iminum alloy	Driv 2 Ba	ill Screw	A OF	ccuracy Leve	1	Wiring Method N Right wiring (general wiring) L Left wiring		
	A	RH	80	- A	20	P	N -	M	D - 2R A		
A Serial	A xis &	RH	80 Table Size	- A	A 2 O	Con	N -	Cc	D - 2R A	Drive	er (Optional)
A Serial ARH	A xis & Numbers θ-Axis	RH 40	Table Size Ø40mm	- A	A 2 0	Conr	N -	Cc Blank	D - 2R A	Drive Blank	er <mark>(Optional)</mark> Not equipped
A Seria ARH	A xis & Numbers θ-Axis	40 60	80 Table Size Ø40mm Ø60mm	- А М Ј	Motor Model 5-phase high resolution 5-phase stepper motor	Conr D H	N -	Cc Blank 2	D - 2R A	Drive Blank A	er (Optional) Not equipped 5-phase CVE
A Seria ARH	A xis & Numbers θ-Axis	40 60 80	80 Table Size Ø40mm Ø60mm Ø80mm	- A	Motor Model 5-phase high resolution 5-phase stepper motor	Conr D H	N -	Ccc Blank 2 4	D - 2R A mnecting Cable (Optional) Not equipped 2m cable one end loose wire (Bending Cable) 4m cable one end loose wire (Bending Cable)	Drive Blank A	er (Optional) Not equipped 5-phase CVI
A Seria ARH	A xis & Numbers θ-Axis	40 60 80	80 Table Size Ø40mm Ø60mm Ø80mm	- A	Motor Model 5-phase high resolution 5-phase stepper motor	Conr D H	N - nector Type D-SUB HRS	Ccc Blank 2 4 6	D - 2R A onnecting Cable (Optional) Not equipped 2m cable one end losse wire (Bending Cable) 4m cable one end losse wire (Bending Cable) 5m cable one end losse wire (Bending Cable)	Drive Blank A	er <mark>(Optional)</mark> Not equipped 5-phase CVI
A Serial ARH	A xis & Numbers θ-Axis	40 60 80	80 Table Size Ø40mm Ø60mm Ø80mm	- A	Motor Model 5-phase high resolution 5-phase stepper motor	Coni D H	N -	Ccc Blank 2 4 6 2R	D - 2R A	Drive Blank A	er (Optional) Not equipper 5-phase CVI
A Serial ARH	A xis & Numbers θ-Axis g Cable	40 60 80	Table Size Ø40mm Ø60mm Ø80mm	- A	Motor Model 5-phase high resolution 5-phase stepper motor	Conr D H	N -	Cc Blank 2 4 6 2R 4R	D - 2R A meeting Cable (Optional) Not equipped 2m cable one end losse wire (Bending Cable) 4m cable one end losse wire (Bending Cable) 5m cable one end losse wire (Bending Cable) 2m cable one end losse wire (High-Flex Cable) 4m cable one end losse wire (High-Flex Cable)	Drive Blank A	er (Optional) Not equipped 5-phase CVI

	Мс	del No.		ARH80-A2OPN						
(0		Table Size		Ø80 i	nm					
pĕ₹		Travel Stroke		±10°						
ect		Drive Type		Ball Screw						
lica		Rail		deep groove ball bearing						
iti ci	Stage Mat	erial / Surface Tre	eatment	Aluminum alloy /	Black anodized					
ns al	1	Accuracy Level		OP : Hig	Jh-End					
		Wiring Method		N: GMT Standard (Right	wiring) / L: Left wiring					
	Resolutio	n 🔘 🛛 Full / Hal	f IVI	0.0009° (Full) / 0	0.00045° (Half)					
	(Puise)	0 1/5 10	J	0.0018° (Full) / (0.0009° (Half)					
<i>(</i> 0	Maxim	im Speed (Full S	tep)	11° / sec						
θ _Γ	Pos	itioning Accuracy	/	10.003°						
eci	Кер	eatability Accurac	y .	±0.003° 40.064						
fici	Load Capa	city (Horizontal Ins	(allation)	10 Kgf						
atio		LOSI WOUOI		<0.00 0.05/"/l	5 					
nc Suc		Daralloliom		0.25(/N-cm)						
0,	Dvn		h./	30 µ	m					
	Dyn	amic Parallelism	.y	10 µ	m					
	2,	Tupo / Shoft N	umboro	$M : E$ phase high resolution stopper mater / \square 28 double shofts	L: 5-phase stepper motor / 28 double shafts					
	Motor	Brand / M	unibers dol	M : Oriental mater / PK525HDMP	L: Oriental mater / DKDE25N12P					
ъ В Е		Dianu / Ivic	,	Oriental motor / 5-nhase C	VD series (ontional)					
eci	Dri	/er Brand / Mode	1	15-pin male and connector D-SUB	12-pin male end connector HRS					
fic	Connector	Stage Side Co	Connector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional)					
atic	Controller Side Connec			24V+10	%					
) I	Sanaar	Control out	aye	NPN open collector outp	ut under 24V 8mA					
0,	Sensor	Output Cor	itrol	Testing (sensing) : output tr	ansistor OFF (closed)					
		Output COI		· coung (consing) · ouput a						

◎The value will be halved when the motor is changed to a high-resolution motor. OFor specifications of the linear scale, please contact our sales team.

High-End Optical Communication Application Module

ARH80



* Product photo is for reference only. For detailed specifications, please refer to the catalog.



⊐≓d ⊫



GMT GLOBAL INC.

ARH 80



AZ7010

High-End Optical Communication Application Module

AZ7010

www.gmtglobalinc.com

38

Model Description Accuracy Level Wiring Method Motor Model Drive Type Connector Type Material 5-phase high resolution 5-phase stepper motor Stainless steel Μ D D-SUB s OP High-End R Right wiring Ball screw and 6 Slide wedge L Left wiring J H HRS Α Aluminum alloy AZ 7010 - A 6 OP R - M D - 2R A Axis & Serial Numbers Table Size / Travel Stroke Connecting Cable (Optional) Driver (Optional) Blank Not equipped AZ Z-Axis 7010 70*70mm / 10mm Blank Not equipped 2 2m cable one end loose wire (Bending Cable) A 5-phase CVD 4 4m cable one end loose wire (Bending Cable) 6 6m cable one end loose wire (Bending Cable) *Bending Cable 2R 2m cable one end loose wire (High-Flex Cable) *High-Flex Cable 4R 4m cable one end loose wire (High-Flex Cable) *Please contact our sales team if 6R 6m cable one end loose wire (High-Flex Cable) you request for stainless steel material.

	M	odel No.		AZ7010-/	A6OPR			
		Table Size		70X7	0 mm			
S ≤	Т	ravel Stroke (mm)		10mm				
leci		Drive Type		Ball Screw Ø8 , Lead 1mm				
har		Rail		Crossed-roller guiding				
atio	Stage Ma	aterial / Surface Treat	tment	Aluminum alloy / Black anodized				
ns al		Accuracy Level		OP:Hig	gh-End			
		Wiring Method		R: Right wiring (Standar	d stock) / L: Left wiring			
Pre	Resoluti	on Full / Half	М	0.25 µm(Full) /	0.125 µm (Half)			
	(Pulse	:)	J	0.5 μm(Full) / 0.25 μm (Half)				
	Maxir	num Speed (Full Ste	p)	5mm / sec				
	P	ositioning Accuracy		5 µm				
	Re	peatability Accuracy		±0.5 µm				
ifica	Load Cap	acity (Horizontal install	ation)	8 Kgf				
ation		Lost Motion		1 µm				
'ns		Torque Rigidity		Pitch 0.15 / Yaw 0.05 / Roll 0.12 ("/N-cm)				
		Parallelism		20 µm				
	Dy	namic Straightness		5	μm			
	D	ynamic Parallelism		25	μm			
	Motor	Type / Shaft Num	bers	M : 5-phase high resolution stepper motor / \Box 42 double shafts	J:5-phase stepper motor / \Box 42 double shafts			
	WOUN	Brand / Mode		M: Oriental motor / PKP544MN18B	J: Oriental motor / PKP544N18B			
ы S M	D	river Brand / Model		Oriental motor / 5-phase	e CVD series (optional)			
lec		Stage Side Conne	ector	15-pin male end connector D-SUB	12-pin male end connector HRS			
icat	Connector	Controller Side Con	nector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional)			
tion		Power Voltage		24V±	.10%			
S	Sensor	Control output	t	NPN open collector of	utput under 24V 8mA			
		Output Contro	1	Testing (sensing) : outpu	t transistor OFF (closed)			

© The length of the connector cable is approximately 26 cm.

High-End Optical Communication Application Module

AZ7010





* Product photo is for reference only. For detailed specifications, please refer to the catalog.

AZ7010-A6OPR





AZ7010-A60P 1.8 190 AZ7010-S60P 3.3 175.7

GMT GLOBAL INC.

AZ7010



AZ7020

High-End Optical Communication Application Module

AZ7020

www.gmtglobalinc.com

40

Model Description Motor Model Material Drive Type Accuracy Level Wiring Method Connector Type M 5-phase high resolution J 5-phase stepper motor Stainless D D-SUB S OP High-End R Right wiring Ball screw and 6 steel Slide wedge н HRS L Left wiring Α Aluminum alloy AZ 7020 - A 6 OP R - M D - 2R A Axis & Serial Numbers Table Size / Travel Stroke Connecting Cable (Optional) Driver (Optional) AZ Z-Axis 7010 70*70mm / 20mm Blank Not equipped Blank Not equipped A 5-phase CVD 2 2m cable one end loose wire (Bending Cable) 4 4m cable one end loose wire (Bending Cable) 6 6m cable one end loose wire (Bending Cable) *Bending Cable 2m cable one end loose wire (High-Flex Cable) 2R *High-Flex Cable 4R 4m cable one end loose wire (High-Flex Cable) *Please contact our sales team if 6R 6m cable one end loose wire (High-Flex Cable) you request for stainless steel material.

	M	odel N	No.		AZ7020-/	A6OPR				
		Tabl	e Size		70X7	'0 mm				
SdS		Travel St	troke (mm)		20	mm				
lec		Drive	е Туре		Ball Screw Ø8 , Lead 1mm					
har		F	Rail		Crossed-roller guiding					
lica	Stage N	laterial /	Surface Trea	atment	Aluminum alloy /	Black anodized				
ns		Accura	acy Level		OP : Hig	h-End				
		Wiring	Method		R: Right wiring (Inventory sp	ecification) / L: Left wiring				
	Resolut	ion [©]	Full / Half	Μ	0.25 µm(Full) /	0.125 µm (Half)				
	(Pulse	e)	i un / i un	J	0.5 µm(Full) /	0.25 µm (Half)				
	Max	imum Sp	eed (Full Ste	ep)	5mm	I / sec				
SD_	F	Positionin	ng Accuracy		5 µm					
Pre	R	epeatabi	lity Accuracy		±0.5 µm					
fica	Load Ca	pacity (Ho	orizontal insta	llation)	8 Kgf					
atio		Lost	Motion		1 µm					
ns		Torque	e Rigidity		Pitch 0.15 / Yaw 0.05 / Roll 0.12 ("/N-cm)					
		Para	Illelism		20 µm					
	D	ynamic S	Straightness		5 μ	m				
	[Dynamic	Parallelism		25 µ	Im				
	Motor	Туре	/ Shaft Num	bers	M : 5-phase high resolution stepper motor / \Box 42 double shafts	J \div 5-phase stepper motor / \Box 42 double shafts				
	motor	В	rand / Mode		M: Oriental motor / PKP544MN18B	J: Oriental motor / PKP544N18B				
Sра	D	river Bra	nd / Model		Oriental motor / 5-phase	e CVD series (optional)				
lec		Stage	e Side Conne	ector	15-pin male end connector D-SUB	12-pin male end connector HRS				
icat	Connector	Control	ler Side Con	nector	15-pin female end connector D-SUB (optional)	12-pin female end connector HRS (optional)				
lion		P	ower Voltage	;	24V±	10%				
S	Sensor	C	Control outpu	t	NPN open collector or	utput under 24V 8mA				
		C	utput Contro	bl	Testing (sensing) : outpu	t transistor OFF (closed)				
© The	value w	ill be h	alved whe	en the	motor is changed to a high-resolution motor.					

For specifications of the linear scale, please contact our sales team.
 The length of the connector cable is approximately 26 cm.

High-End Optical Communication Application Module

AZ7020



* Product photo is for reference only. For detailed specifications, please refer to the catalog.

AZ7020-A6OPR-MD







GMT GLOBAL INC.

AZ7020



SAX100-75-A2OP

Мо	odel Description	SA					
A	Material Aluminum alloy 2 SAX 10	Drive Type Act Ball screw OP	Curacy Level High-End	Viring Meth R Right wirin L Left wiring	od Motor Model M ^{5-phase} high resolution M H - 2F	Connea H H	ctor Type IRS
Axis	& Serial Numbers	Table Size	Travel Stroke		Connecting Cable (Optional)	Dr	iver (Optional)
SAX	linear stage_single ax	^{iis} 120*100mm	75mm	Blank	Not equipped	Blank	Not equipped
				2	2m cable one end loose wire (Bendir	ng Cable) A	5-phase CVD
				4	4m cable one end loose wire (Bendi	ng Cable)	
				6	6m cable one end loose wire (Bendi	ng Cable)	
				2R	2m cable one end loose wire (High-F	Flex Cable)	
*Dandi	na Cabla			4R	4m cable one end loose wire (High-F	Flex Cable)	
*High-	Flex Cable			6R	6m cable one end loose wire (High-F	Flex Cable)	

	М	odel No.	SAX100-75-A2OPR	SAX100-75-A2OPL						
		Table Size	120X100 m	ım						
Mec		Travel Stroke	±37.5 mm	1						
han		Drive Type	Ball screw Ø8 , lead 1mm							
ical		Rail	Precision crossed-roller guiding							
Spe	Stage N	laterial / Surface Treatment	Aluminum alloy / Original co	lor matte anodized						
ecifi		Weight	2Kg							
atio		Coupling	FAMMS12-5	i*5						
suc		Accuracy Level	OP:High-Er	nd						
		Wiring Method	R: Right wiring (Standard stock)	R: Right wiring (Standard stock) / L: Left wiring						
		Resolution (Pulse)	1 μm (Full) / 0.5 μm (Half)							
	Max	imum Speed (Full Step)	20 mm / sec							
Ρ		Positioning Accuracy	10 µm							
reci	R	epeatability Accuracy	±0.3 µm							
sion	Load Ca	pacity (Horizontal installation)	30 Kgf							
Sp		Lost Motion	≦1µm							
ecifi		Torque Rigidity	0.017 ("/N-	cm)						
cati	Pitch / Ya	aw (single axis accuracy spec.)	25"/20"							
suc		Parallelism	20 µm							
	[ynamic Straightness	3 µm							
		Dynamic Parallelism	10 µm							
Sp =	Motor	Type / Shaft Numbers	5-phase high resolution stepper r	motor /						
ecifi	WOUDI	Brand / Model	Oriental motor / PK	P544MN18B						
trica	[Driver Brand / Model	Oriental motor	CVD518-K						
suc		Connector Type	12-pin male end co	nnector HRS						

High-End Optical Communication Application Module

SAX100-75-A2OP



* Product photo is for reference only. For detailed specifications, please refer to the catalog.







www.gmtglobalinc.com

42

GMT GLOBAL INC.

SAX100-75-A2OP



GXA100-100-A2OP

High-End Optical Communication Application Module

GXA100-100-A2OP

Model D	escription	G)									
A Aluminu	n alloy 2	Drive Type Ball screw	Acc OP	uracy Level High-End	Wirin R L	ng Metho Right wiring Left wiring	d N	Motor Model 5-phase high resolution		Connect	or Type RS
GXA	100	- 100	Α	20	Ρ	R-	M	E - E	2R A	A	
Axis & Seria	al Numbers	Table Size		Travel Strok	ke		Connee	cting Cable (Optio	nal)	Driv	ver (Optional)
GXA linear	stage_single ax	^{tis} 100mm	1	100mm	١	Blank		Not equipped		Blank	Not equipped
						2	2m cable	one end loose wire (B	ending Cable)	A	5-phase CVD
						4	4m cable	one end loose wire (B	Bending Cable)		
						6	6m cable	one end loose wire (B	Bending Cable)		
						2R	2m cable	one end loose wire (H	ligh-Flex Cable)	
*Dending Oak						4R	4m cable	one end loose wire (H	ligh-Flex Cable)	
*High-Flex C	able					6R	6m cable	one end loose wire (H	ligh-Flex Cable)	

Model No.			GXA100-100-A2OPR	GXA100-100-A2OPL
Mechanical Specifications	Table Size		100X100 mm	
	Travel Stroke		±50 mm	
	Drive Type		Ball screw Ø8 , lead 2.0mm	
	Rail		Precision Miniature Linear Guide Rail	
	Stage Material / Surface Treatment		Aluminum alloy / Original color matte anodized	
	Weight		3.5Kg	
	Coupling		FACCS21-5*5	
	Accuracy Level		OP:High-End	
	Wiring Method		R: Right wiring (Standard stock) / L: Left wiring	
Precision Specifications	Resolution (Pulse)		2 μm (Full) / 1 μm (Half)	
	Maximum Speed (Full Step)		20 mm / sec	
	Positioning Accuracy		8 µm	
	Repeatability Accuracy		±0.5 µm	
	Load Capacity (Horizontal installation)		20 Kgf	
	Lost Motion		0.5 μm	
	Torque Rigidity		0.04"/N · cm	
	Pitch / Yaw (single axis accuracy spec.)		25"/20"	
	Parallelism		20µm	
	Dynamic Straightness		3μm	
	Dynamic Parallelism		15µm	
	Perpendicularity (dual axes accuracy spec.)			
Electric: Specificat	Motor	Type / Shaft Numbers	5-phase high resolution stepper	motor / 242 double shafts
	WOLUI	Brand / Model	Oriental motor / PK	P544MN18B
	Driver Brand / Model		Oriental motor CVD518-K	
al	Connector Type		12-pin male end connector HRS	

High-End Optical Communication Application Module

GXA100-100-A2OP



* Product photo is for reference only. For detailed specifications, please refer to the catalog.

GXA100-100-A20PR





GMT GLOBAL INC.



GYA100-100-A2OP



Model No.			GYA100-100-A2OPR	GYA100-100-A2OPL
Mechanical Specifications	Table Size		100X100 mm	
	Travel Stroke		±50 mm	
	Drive Type		Ball screw Ø8 , lead 2.0mm	
	Rail		Precision Miniature Linear Guide Rail	
	Stage Material / Surface Treatment		Aluminum alloy / Original color matte anodized	
	Main Unit Weight		3.5Kg	
	Coupling		FACCS21-5*5	
	Accuracy Level		OP:High-End	
	Wiring Method		R: Right wiring (Standard stock) / L: Left wiring	
Precision Specifications	Resolution (Pulse)		2 μm (Full) / 1 μm (Half)	
	Maximum Speed (Full Step)		20 mm / sec	
	Positioning Accuracy		8 µm	
	Repeatability Accuracy		±0.5 μm	
	Load Capacity (Horizontal installation)		16Kgf	
	Lost Motion		0.5 μm	
	Torque Rigidity		0.08″/N · cm	
	Pitch / Yaw (single axis accuracy spec.)		25"/20"	
	Parallelism		30µm	
	Dynamic Straightness		3µm	
	Dynamic Parallelism		25µm	
	Perpendicularity (dual axes accuracy spec.)		10µm	
Electrica Specificati	Motor	Type / Shaft Numbers	5-phase high resolution stepper	motor / 242 double shafts
	WOOD	Brand / Model	Oriental motor / P	YKP544MN18B
	Driver Brand / Model		Oriental motor CVD518-K	
al ons	Connector Type		12-pin male end connector HRS	

High-End Optical Communication Application Module

GYA100-100-A2OP



GYA100-100-A2OP

Z-Axis



* Product photo is for reference only. For detailed specifications, please refer to the catalog.



46

www.gmtglobalinc.com