Ball Screw-Driven Linear Module

滚珠丝杠驱动线性模块

RG-MZ 40

>> Technie	cal Data 技术数据:					
Standard Ball	screw 标准滚珠螺母	16 x 5				
Optional Ball s	screw 可选滚珠螺母	16 x 10				
No-load Torqu	e for 1605 无负载扭矩(1605)	0.25 Nm				
No-load Torqu	e for 1610 无负载扭矩(1610)	0.44 Nm				
2nd Moment c	f area 二次截面矩	$I_y = 1.4 \times 10^5 \text{ mm}^4$ $I_z = 1.4 \times 10^5 \text{ mm}^4$				
\\/aiabt 香昌	Basic weight with zero stroke 行程为零时的基本重量	1.9 kg				
Weight 重量	Weight/100mm stroke 100mm行程重量	0.37 kg				

Robotics System

机器人系統



定义与用途

和精确度完成。

之一。

机器人的工业应用范围很广。

可自动化控制,可编程序,高度可靠

且有能力达到高速、高荷载和高精准

性均是工业用机器人最吸引人的特征

今天,以先进科技的专门技术为基 础,我们能为多项工业应用例如焊

接、喷漆、组装、捡起和放置(例如

和测试等,提供优质的机器人解决方案,确保所有任务均以高耐力、速度

包装,架装拖盘和SMT),产品检查

RG-MZ 60

>> Technical Data 技术数据:

	Standard Ball	screw 标准滚珠螺母	25 x 10					
	Optional Ball s	crew 可选滚珠螺母	25 x 25					
	No-load Torqu	e for 1605 无负载扭矩(1605)	0.8 Nm					
1)	No-load Torqu	e for 1610 无负载扭矩(1610)	1.4 Nm					
1114	2nd Moment o	f area 二次截面矩	I _y = 6.8 x 10 ⁵ mm ⁴ I _z = 7.0 x 10 ⁵ mm ⁴					
	\\/aiabt 舌昌	Basic weight with zero stroke 行程为零时的基本重量	5.8 kg					
	Weight 重量	Weight/100mm stroke 100mm行程重量	0.93 kg					

Definition & Usage

Robots are used in a wide range of industrial applications.

Automatically controlled, programmable, highly dependable with the capacity to achieve high speed, payload and accuracy are among some of the most desirable characteristics of robots.

Today, with advanced technological expertise, we are able to offer robotics solutions for applications such as welding, painting, assembly, pick and place (such as packaging, palletizing and SMT), product inspection, and testing; all accomplished with high endurance, speed, and precision.

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Cartesian Robot

直角坐标机器人

ORM Series

>> Features

- · Rigid frame and compact size
- Driving type : Ballscrew, Belt Driving type, Rack&Pinion
- DRMP : High Precision with positioning repeatability +/-0.005mm
- DRMC : Clean room specification (Clean class 10)
- DRMD : Dust proof specification
- High accurate positioning : C7(+/- 0.02mm), C5(+/- 0.01mm)
- Stroke : 100~10,000mm (2,000mm at Ballscrew)
- Speed : Max 2,000mm/s
- Payload : Up to 300Kg(Horizontal) / 120Kg(Vertical) Customizing design and various assembly type



>> Model List

• Ball Screw Type (Single Slider)

Series	Base Width	-	Туре	-	Motor	-	Encoder	-	Speed	- Stroke		-	Ор	tio	ns
	50	-		Γ		Γ		-	L05 / L10 / L20	-	100 ~ 1100	-		-	
	60	-		-	80	-		-	L10	-	100 ~ 400	-		-	
	80	-	s	L				Γ						Π	
	115	-	0		200	_		-	L05 / L10 / L20	-	100 ~ 1100	-	11	-	к
DRM	130	-	LP	Ľ	200	[\square	
DRMP	160			Ŀ	400	-	Å	-	L05 / L10 / L20	-	100 ~ 1500	-	L2	Ŀ	R
DIGW	100		RP	-	600	-		-	L10 / L20	-	100 ~ 1500	-	Options - </td <td>_</td>	_	
	200		BP	-	600	-]						L3	Π	В
	200	-	БР		800				L10 / L25 / L50		100 ~ 2000				
1	250			-	800	-		[L10/L25/L50	-	100 - 2000	Γ		[-]	
	230	[1000	Γ	1								

Belt Type

Series	Base Width	-	Туре	-	Motor	-	Encoder	-	Speed	-	Stroke	-	Op	Options	
	90	-		-	400	-		-	1800	-		-		-	
	130	-		-	600	-		-		-	1000 ~ 2500	-	L1	-	к
DRM	160	-	В	Π			A	-	2000	-		-	L2	-	R
	200	-		-	800	-	~	-		-	1000 ~ 4000	-	L3 [-	В
	250	-						-	2500	-	1000 ~ 4500	-		-	

DRMC Series

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Ψ	Series	Base Width	-	Туре	-	Motor	-	Encoder	-	Speed	-	Stroke	-	Ор	tion	IS
		70	-			80	-		-	L10	-	100 ~ 400	-		FT.	
		88	-	s		60			-	L05 / L10 / L20	-	100 ~ 1100	-		-	к
	DRMC	120	-	LP	Π	200			-	L05 / L10 / L20	-	100 ~ 1100	-	L1	П	ĸ
_	DRMCP	140	-	RP	-	200	-		Π	L05 / L10 / L20	Γ	100 ~ 1100			-	R
		180	-	BP	Π	400		A		L05 / L10 / L20		100 ~ 1500		L2		
		160	-		[-]	600	-		-	L10 / L20	-	100~1500	-		-	В
						2000	-		-		-		-	L3	-	D 0
	DRMC	265	-	S	-	2500	Γ-		-	L10 / L20 / L40	F	100 ~ 2500	-		П	RS
					-	3000	-		-		-		Π		(-)	

* Belt type is available.



Cartesian Robot

直角坐标机器人

>> Assorted Combinations & Brackets



>> Applications Palletizing



ic place







pplications such as pick&place, spection on the conveyor syste

Mec

chatronics 机电

Desktop Robot

台式机器人

DTR Series ۲

>> Features

DTR series is designed to combine high precision and accurate positioning functions into compact unit with high rigid structure. DTR series has various models of servo motor with ball screw types and step motor with belt types models of and they are very useful and achieve the best performance.

Compact design

Minimize whole dimension by cable treatment into the Robot and save working space*







DTR3-2205-M series

DTR2(3)-3310/4410-T(ET,S)

* Cables of the model 2205/2210 series and 4 axes (XYZR) of DTR series are exposed

High Rigid Structure

Aluminium extruded material is employed on the base and gantry structure for all models enhance rigidity.

The servo motor and ball screw types of DTR are a good solution for the required applications of high load such as automotive industry.

Various Line-ups

The DTR series provide various products ranges. Belt driven with Encoder Stepper Motor type, belt driven with Stepper Motor type, ball screw drive with Servo Motor type, 2 axes, 3 axes, 4 axes, and Dual-X axes are available.

>> Model List

Quiter	Britan	Ma dal		Arm Len	gth (mm)		
Series	Drive	Model	X axis	Y axis	Z axis*	R axis	Allowable Axis
		2205	200	200	50	-	3 axes (XYZ)
		2210	200	200	100		2 axes (XY)
		2210	200	200	100	-	3 axes (XYZ)
	Belt	3310					2 axes (XY)
	& Stepper	3310	300	300	100	+/- 360°C	3 axes (XYZ)
	motor	3310					4 axes (XYZR)
		4410					2 axes (XY)
		4410	400	400	100	+/- 360°C	3 axes (XYZ)
		4410					4 axes (XYZR)
		2210	200	200	100		2 axes (XY)
		2210	200	200	100	-	3 axes (XYZ)
DTR	Belt	3310					2 axes (XY)
	& Encoder	3310	300	300	100	+/- 360°C	3 axes (XYZ)
	Stepper	3310					4 axes (XYZR)
	motor	4410					2 axes (XY)
		4410	400	400	100	+/- 360°C	3 axes (XYZ)
		4410					4 axes (XYZR)
		3310					2 axes (XY)
		3310	300	300	100	+/- 360°C	3 axes (XYZ)
	Ball	3310					4 axes (XYZR)
	screw &	4410					2 axes (XY)
	Servo motor	4410	400	400	100	+/- 360°C	3 axes (XYZ)
		4410					4 axes (XYZR)
		3510	300/300	500	100	-	4 axes (XYZR)

>> Applications

ligh performance of 2D and 3D near and circular interpolatio saling and adhesion, coating

Dispensin



Fastening and unfastening screws into electric components and





Vision inspection

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Scara Robot

水平多关节机器人

DSM Series

>> Features

This series provides various model range from 250mm to 1000mm in the arm length and up to 20kg in maximum payload. It used absolute and incremental specification used. Standard and clean room/dust proof specifications are available.

Compact and rigid design

The DSM series is designed to save the space efficiently.

The cable of the models (DSM-6020/7020/8020/9020/ K1020) is enclosed into the robot and it allows for flexible design and space in the system.

The DSM-2515/3515/4515 series enhanced rigidity in a light weight by comprising aluminium extruded material.

DSM-6020/7020/8020/9020/K1020 series is capable of transferring high load up to 20kg.

Pursuing ease-of-use

The DSM series has standard user tubing and wiring.

DSM-2515/3515/4515 has the same air tubes as Φ 4×3 and 16 wires and DSM-6020 and higher models have as Φ 6×4 and 24 wires

High performance of interpolation

The DSM series can perform three-dimensional arc/pass motions to allow for easy palletizing and dispensing. The robot can also provide tool offset and R axis position compensation function



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♦ DSM Series

>> Model List

Series	Model		Arm	Length	(mm)		Encoder	Maximum	Ontion	
Series	Model	X axis	Y axis	Z axis*	R axis	T axis	Encoder	Payload (kg)	Option	
	2515	125	125				Absolute		05 10	
DSM DSMC	3515	225	125	100 150		-		3		
	4515	250	200							
	6020	300	300		+/- 360°	+/- 360°	Absolute Incremental			
	7020	400	300							
DSM DSM(H)	8020	400	400	200 300				5 (20)**		
Dom(H)	9020	500	400]						
	K1020	500	500							

* Z axis of all models is using a brake motor

** The maximum payload of DSM and DSMH is each 5kg and 20kg.



Single Axis Controller Robot

单轴控制器

♦ iMS-J Series /系列



>> Features

iMS-J series is a single axis controller which is characterized by high speed, high accuracy, and motion stability because it adopts the latest 32bit RISC CPU and intelligent power module.

- 1. All in One Control system including motion control, servo amp, and sequence function
- 2. Various Application Synchronous operation, position transfer by bit Transfer by external pulse without motion operation.
- 3. Easy Application Torque sensing and various outputs by time or interval
- 4. Remote control and programming by RS232/422 interface
- 5. Easy operation and monitoring by touch screen
- 6. Various motor brands compatible (DASA, SAMSUNG, PANASONIC, TAMAGAWA etc.)
- 7. User can set basic input bit and output bit.
- 8. Efficient scalability for feeder unit, IO transmitter, extension IO and so on
- 9. I/O control by CC-Link or ProfiBus converter.

Multi Axis Controller Robot

多轴控制器

� iMS-∑ Series /系列



>> Features

iM-Σ series is characterized by high speed, high accuracy, and motion stability because it adopts high performance of a digital amplifier which is controlled by 16 and 32 bit DSP. It is designed to control from 2-axis robot to 8-axis robot or 8 single axes robot at once.

1. Cost effective of all-in-One functions

The iM- Σ series controller combines the functions of motion control, servo drive, and PLC function into a compact unit.

Therefore, iM- Σ controller offers high performance with cost-effectiveness

2. Possible to control multi axes of Cartesian robots, Desktop robots, SCARA robots, and Linear servo motor Cartesian robots

The iM- Σ series are capable of controlling more number of 2 axes of the DRM, DRMC, DTR (Built-in), DSM and DLM series robots at the same time.

3. Multitasking

The $iM-\Sigma$ controller executes each different 4 robot motion programs with maximum 8axes, simultaneously and independently.

4. Various options and extensive usage

The iM- Σ can connect touch screen, CCD camera, magnetic sensor, photo sensor, solenoid, MPG etc. It accommodates installation of extension board up to 8 axes and network options (CC-Link, ProfiBus) are selectable.

5. User friendly software

The iM- Σ series has different types of software to use easy and enhance system performance. It provides the general purpose software, dispensing software, and screw tightening software, and also PC software.

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