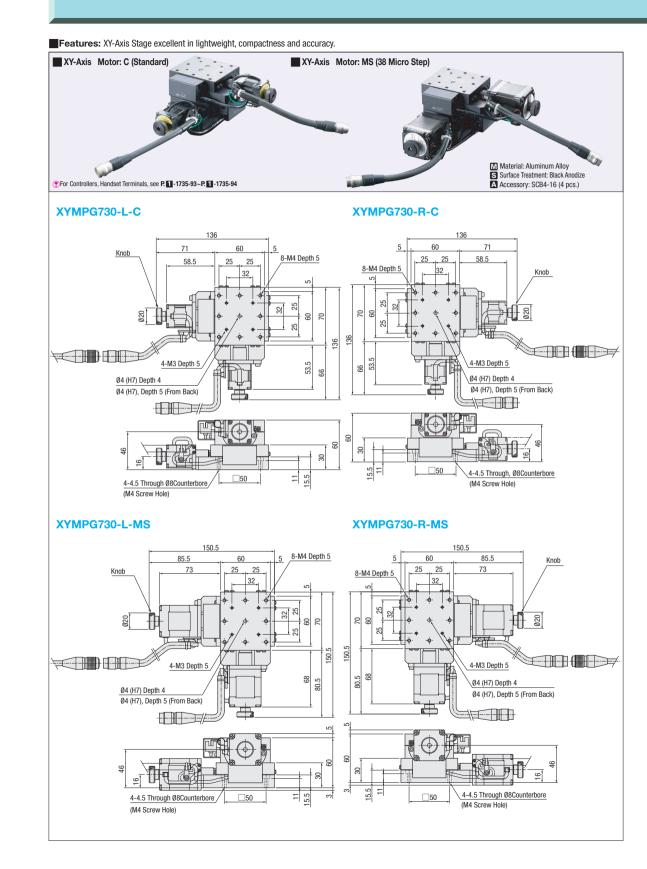
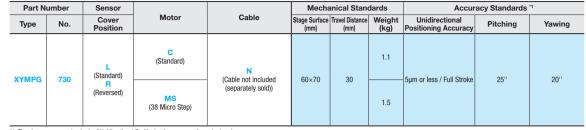
MOTORIZED STAGES XY-AXIS CROSS ROLLER GUIDE [High Precision] Motorized XY-Axis - Cross Roller



For CAD data, see the MISUMI website.





*1. The above accuracy standards of Unidirectional Positioning Accuracy are for a single axis.

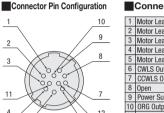


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Common Specifications

Common Specifications					
Feed	Screw	Ball Screw Ø8, Lead 1			
Gu	ide	Cross Roller Guide			
	Full	2µm(1µm)*3			
Resolution *2	Half	1μm(0.5μm)* ³			
	Fine Feed (upon 1/20 partitioned)	0.05µm			
Max. Speed *4		20mm/sec			
Positioning repeatability		Within ±0.3µm			
Load Capacity		44.1N			
Lost Motion		1µm or less			
Backlash		0.5µm or less			
Straig	htness	3µm or less			
Paral	lelism	30µm or less			
Motion P	arallelism	10µm or less			
*2. This represents the travel distance of stage per one pulse signal.					



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	Connecting	Diagram		Deserver		
1	Motor Lead	Blue \	MOTOR	Brown Black	Ð	CWLS
2	Motor Lead			Diduk	OUT1	
3	Motor Lead	Orange		Blue	OUT2	
4	Motor Lead	Green		Diue	Θ	
5	Motor Lead	Black J		Drown		
6	CWLS Output			Brown Black	Ð	CCWLS
7	CCWLS Output			DIdUK	OUT1	
8	Open			Blue	OUT2	
9	Power Supply (+)		+	Diue	Θ	
10	ORG Output		+	Duran		
11	Power Supply (-)		+	Brown	Ð	ORG
12	F.G	E-1		Black	OUT1	
		<u> </u>		Dive	OUT2	
		_		Blue	Θ	

*3. The values in () are for Motor Option MS (Micro Step).

*4 This represents the max speed that can be driven by the recommended

controller switched to Full Step mode, with the max. load applied.

(The value differs depending on the current driving controller and the current load.)

The value differs depending on the motor option

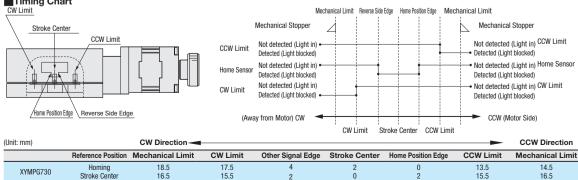
The above specifications table is for a single axis stage placed flatly.

Electrical Specifications

Part Number		С	MS		
		Standard	38 Micro Step		
	Туре	5-Phase Stepping Motor 0.75A	Phase (Oriental Motor Co., Ltd.)		
Motor	Part Number	PMM33BH2-C16-1(28mm)	C7214-9015-1(38mm)		
WOLDI	Step Angle	0.72°	0.36°		
	Driver Part Number	-			
Connector	Part Number	HR10A-10J-12P (73) (Hirose Electric Co., LTD.)			
	Applicable Receptacle Connector	HR10A-10P-12S (73) (Hirose Electric Co., LTD.)			
	Contact Part Number	-			
	Applicable Receptacle Contact Part Number	-			
	Limit Sensor	Provided			
	Slit Home Origin Sensor	Provided			
	Home Sensor	-			
	Part Number	Photomicrosensor: PM-L25 (Panasonic Industrial Devices SUNX Co., Ltd			
Sensor	Power Supply Voltage	DC5~24V or less ±10%			
Sensor	Current Consumption	45mA or less (15mA	mA or less per Sensor)		
		NPN Open Collector Output DC30V or less, 50mA or less			
	Control Output	Residual Voltage 2V or less (when load current is 50mA)			
		Residual Voltage 1V or less (when load current is 16mA)			
	Output Logic	Detecting (Dark): Output Transistor OFF (Non-Conducting)			

Sensors with Part Number PM-24 are to be discontinued and replaced by next-generation products with Part Number PM-__25 from April 2017

Timing Chart



Homing Routine Above: When DS102/DS112 Series controller is used and when the Homing Routine Type 3 is executed. The coordinates shown are design values. There may be approx. ±0.5mm misalignment on the physical dimensions. For details about Homing, see P 1.735-97