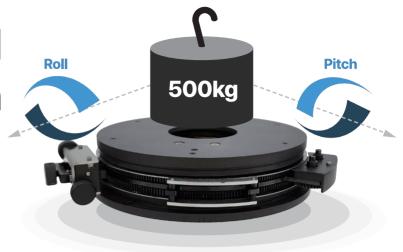


Innovative Parallel Setting Solution



Applications

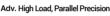


Dispensing Process Display Manufacturing





Bonding Process Semiconductor Manufacturing





Punching Press Sealin Adv. High Load, Parallel Precision



Thermal Conductivity Process Semiconductor,
Display Manufacturing

Adv. Parallel Precision



Micro LED Manufacturing Process Display Manufacturing

Adv. High Load, Parallel Precision



Precision Machining/ Manufacturing Adv. High Load, Parallel Precision



Bonding Process Semiconductor, Display Manufacturing

Adv. Parallel Precision



Industrial Robots Adv. Parallel Precision



Precision Measuring Instrument

Adv. Parallel Precision

Product	BA275SC05	BA213SC05	BN275SC05	BN213SC05	BS212SC05	BS131SC05
Specifications						
Size	270Ø / H70mm	210Ø / H52mm	270Ø /H70mm	210Ø / H52mm	210Ø / H45mm	130Ø / H32mm
Stroke	±1.0°	±1.0°	±1.0°	±1.0°	±1.0°	±1.0°
Accuracy	8µrad (=0.001)°	8µrad (=0.001)°	8µrad (=0.001)°	8µrad (=0.001)°	43µrad(=0.005)°	43µrad (=0.005)°
Repeatability	less than ±2µm					
Load Capacity *max	500kg	300kg	500kg	300kg	200kg	100kg
Weight	12kg	6kg	12kg	6kg	3.5kg	1.8kg
Material	Steel	Steel	Steel	Steel	Steel	Steel

Motor Type Encoder Resolution Stroke *absolute

Servo Motor Step Motor	Servo Motor Step Motor		
PLC/PC	PLC/PC		
31,000ppr	31,000ppr		



^{*}Custom specifications available upon request.

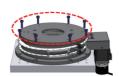
Installation Method





Align the stage's bottom positioning pin grooves with the installation surface for secure placement

Ensure precise center alignment along the X and Y axes.



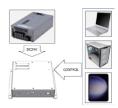
Fix the stage to the installation surface

Tighten the bolts in a '+' pattern, ensuring uniform pressure is applied.



Connect the stage to the controller.

Encoder's cable → Controller's port Both ends of the motor cable → Motor of the stage and the controller's port Origin sensor's cable → Controller's port



Connect to the main controller and power supply

Compatible Devices: PC, Tablet, Mobile Phone Communication Types: RS232, RS485, WIFI Operating Voltage: DC24V

How to Use

User-Friendly, Fast and Highly Precise

Achieve 5µm precision in under 1 minute



Measurement

Measure the heights(Z) of three points, P1, P2, and P3, on the reference surface to check the slope.

Calculate the precise position value

Input the measured height values(Z) of the three points into the app or PC program to calculate the position to move.



3

Adjust the Wheel Position

Move the two wheels to the calculated positions. Measure the heights(Z) of the three points, P1, P2, P3, again to verify the results.

*manual/automatic



History Management

History can be managed by period or date.





Patent

Patent Registration

11.02.18 Casting Roll Alignment Adjustment Device and Its Adjustment Method 10-1071624 14.03.19 Automated Dimension Measuring Device and Method for Molded Products 10-1378587

22.07.13 Balance Stage 10-2422225

22.10.11 Automatic Adjustment Balance Stage for Enhanced Stability 10-245462922.11.02 Manual Adjustment Balance Stage 10-2463976

23.07.14 Balance Stage 10-2557173

23.10.23 Rotational Support Structure of the Balance Stage 10-259468

Copyright

Balance Stage Setting Value Calculation Program (3P2W) C-2023-026700 Surface-Support Balance Stage Dedicated Alignment Application C-2024-015426 PC Program for Manual/Automatic Control of Balance Stage C-2024-016414

Trademark

23.08.10 BALANCE STAGE(Taiwan) BPP2023-0219TW

24.05.13 BALANCE STAGE(USA) 18709018

24.07.31 BALANCE STAGE(Germany) 112022005748.3 **24.08.02** BALANCE STAGE(China) 202280084332.5

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