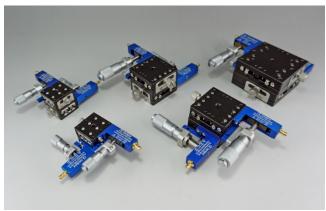
XY-axis stage that allows fine adjustment of 20nm or less by adding a piezo assist mechanism to the manual stage. Ideal for manual stage units and systems that require high resolution position adjustment. Stage sizes 25x25, 40x40, 60x60mm are available.

• A dedicated controller for the piezo assist stage easily perform fine adjustment without any setting. The fine adjustment of the dial type knob can be used without resistance even in combination with a micrometer head.



Outline Drawing (mm) TADC-252WSPA

### Guide

► Use the piezo assist controller (PASC) to adjust the fine movement mechanism. A piezo assist controller connection cable (2m) is included with the piezo assist stage.

RoHS

### Attention

TADC-252WSRPA

▶ When installing the stage, be careful not to give a shock to the micrometer bracket. Otherwise, the piezo assist mechanism may be damaged.

▶ When the power of the piezo assist dedicated controller (PASC) is turned off, the position adjustment of the piezo assist will be changed, and position for fine adjustment will be shifted.

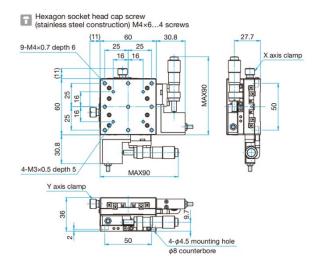
#### Hexagon socket head cap screw (stainless steel construction) M2×4...4 screws Hexagon socket head cap screw ٨ (stainless steel construction) M2×4...4 screws 31 25 21.8 25 6-M2×0.4 depth 3 10 10 M4×0.7 through hole 6-M2×0.4 depth 3 X axis clamp X axis clamp 10,10 MAX52 R R 20 25 22 2 MAX52 M4×0.7 through hole 5 T MAX52 MAX52 Y axis clamp Y axis clamp тÞ 2.8 28 28 20 4-φ2.4 mounting hole 4-\$2.4 mounting hole φ4 counterbore φ4 counterbore TADC-402WSPA TADC-402WSRPA Hexagon socket head cap screw (stainless steel construction) M3×6...4 screws, Spring washers E Hexagon socket head cap screw (stainless steel construction) M3×6...4 screws, Spring washers (11) 40 (11)40 38 25.3 %2-M3×0.5 depth 6 X axis clamp 5-M3×0.5 depth 4 16 16 16 16 X axis clamp 5-M3×0.5 depth 4 [1] **MAX77.5** 5 9 **MAX77** 2-M3×0.5 depth 6 M6×1 depth 5 Π M6×1 depth 5 MAX77.5 Π MAX77. Y axis clamp Y axis clamp O O DE ROD ⊒₽° 9 ORUPERIO 22 32 4-ø3.5 mounting hole 4-φ3.5 mounting hole φ6 counterbore φ6 counterbore

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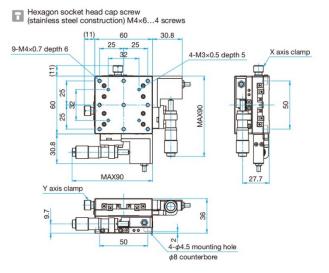


### Outline Drawing (mm)

### TADC-602WSPA



### TADC-602WSRPA



Specifications						
Part Number		TADC-252WSPA	TADC-402WSPA	TADC-602WSPA		
(Opposite Model)		TADC-252WSRPA	TADC-402WSRPA	TADC-602WSRPA		
Stage Size [mm]		25 × 25	40 × 40	60 × 60		
Axes of travel			XY Axis			
Travel of Coarse Drive [mm]		±3	±6.5	±6.5		
Travel of Fine Drive [μm]		>25µm	>30µm	>30µm		
Micrometer Position		Side				
Travel/ rotation [mm]		0.5	0.5	0.5		
Micrometer Readable Resolution [mm]		0.01	0.01	0.01		
Piezo resolution		<20nm	<20nm	<20nm		
Giude Method		Extended Contact Ball Bearing Guide				
Primary Material		Aluminum				
Finish		Black anodized				
Load Cpacity [N]		39.2(4.0kgf)	49(5kgf)	49(5kgf)		
Travel Accuracy / Straightness [µm]		3	3	3		
Max. Moment Capacity	Pitch [N•m]	1.9	2.5	4.9		
	Roll [N•m]	1.9	2.5	4.9		
	Yaw [N•m]	1.9	2.5	4.9		
Moment Stiffness	Pitch [″/N•cm]	4.5	1.22	0.6		
	Roll [″/N•cm]	4.5	1.22	0.6		
Parallelism [µm]		60	50	50		
Orthogonality [µm]		10	10	10		
Running Parallelism [µm]		20	20	20		
Weight [kg]		0.14	0.32	0.5		



## Controller Dedicated for Piezo Assist Stage

PASC RoHS

# Dedicated controller that drives the piezo assist stage series. Lineup includes 1-axis type and 3-axis type.



• The fine adjustment mechanism of the piezo assist stage is operated by turning the dial knob.

### Guide

► Two types of AC adapters are available. The basic performance are same, please select according to the required standards.

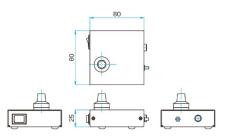
### Attention

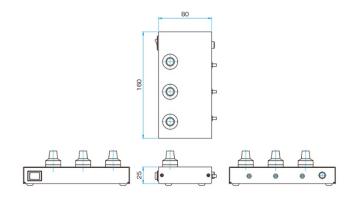
**PASC-103** 

► Applicable size of DC jack is dia.4mm. When preparing the power supply by the customer, pay attention to the plug diameter.

### Outline Drawing (mm)

PADC-101





Specifications							
Part Number	PASC-101	PASC-103	AC-ADP-0618	AC-ADP-0620			
Number of Control Axes	1 Axis	3 Axes	_	—			
Power Voltage	DC6V 0.8A	DC6V 1.8A	DC6V 1.8A	DC6V 2.0A			
Compatible AC Adapter	AC-ADP-0618	AC-ADP-0620	_	—			
Operating temperature	5 - 40°C		_	—			
Storage Temperature	$-20-60^{\circ}$ C		_	_			
Ambient Humidity	20 - 80%RH (without condensation)		_	—			
Dimension (Except projection) [mm]	80x80x25	160x80x25	44x26.5x60	43.5x40.2x60			
DoE Level	—	—	Level IV	Level VI			
ссс	_	_	—	0			
Weight [kg]	0.12	0.28	0.14	0.2			

