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**Hollow Rotary Stages /
Right Angle Reducers**



www.gmtglobalinc.com

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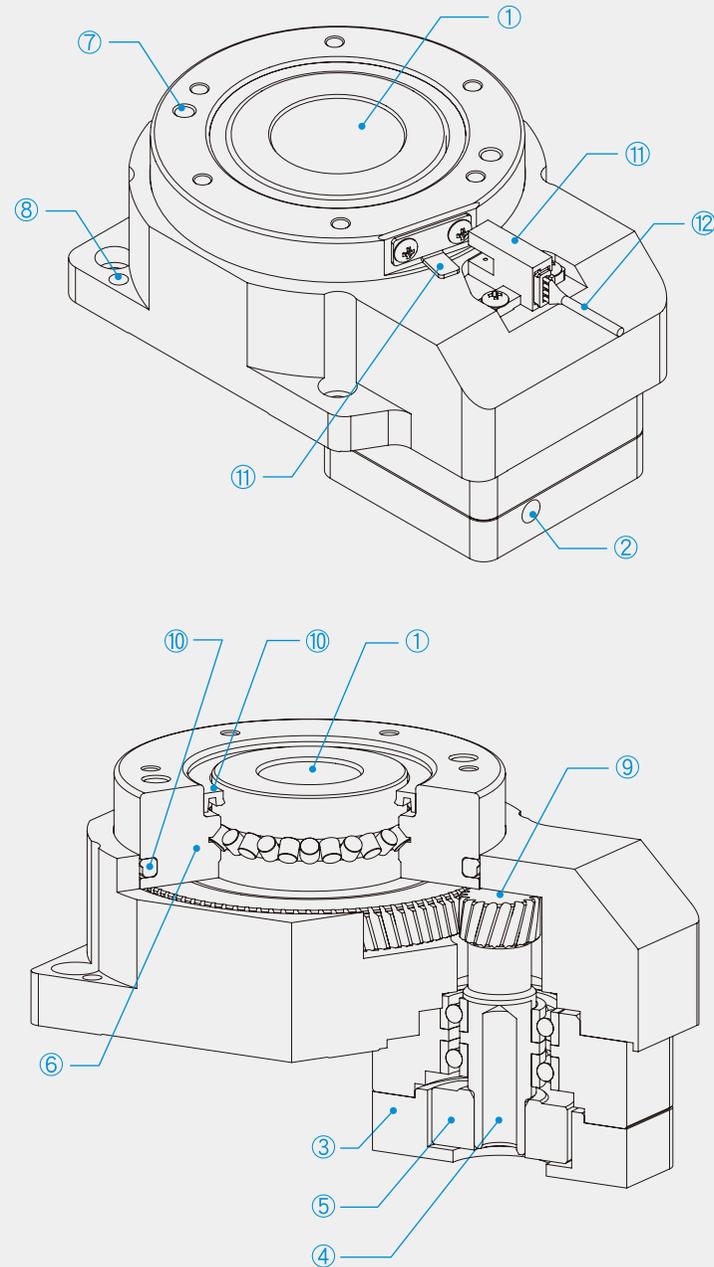
Hollow Rotary Stages

| | | |
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Right Angle Reducers

| | | |
|---------------------------------|--------------|-----------|
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Advantage Introduction of Structure



① Hollow design

The complex piping and wiring can be through the body, neither to be messy nor to be assembled through the external clutter.

② Motor shafts, ③ Motor adapter, ④ Motor shaft mounting hole, ⑤ Motor rings

Adapter design is easy to use the stepper motor or servo motor installed and can made the user to install the motor and also simplify the complex installation wiring problems.

⑥ Cross roller bearings and workbench integrated

Due to the dense crossed roller, the design gains high rigidity and increased load capacity.

⑦ Table positioning hole, ⑧ Base positioning hole

Both lightweight and high-rigidity of aluminum base and steel table are designed with positioning holes. To make your installation and positioning easier.

⑨ Helical gear shaft

Low-noise and high-load product features in high-speed applications. The gear shaft is enlarged and supported by two ball bearings to enhance the rigidity of the drive design which is different from the industry.

⑩ Oil seal

The base and the table each have an oil seal to protect the foreign body from entering the body.

⑪ Connect the line origin sensor and the sensing block (Additional purchase) (Type 60 no such configuration)

As the origin of the connector type sensor, saving you design, manufacturing, procurement time.

⑫ Connecting cable unilateral attachment (Additional purchase) (Type 60 no such configuration)

The connection length of the sensor cable has 1m, 2m, 3m, 5m.

Specification Description

| Model | ARG60-A4PX-□ | ARG85-A4PX-□ | ARG100-A4PX-□ | ARG130-A4PX-□ | ARG200-A4PX-□ |
|---|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 1 Rotational torque (N·m) | 5 | 21 | | | |
| 2 Rotational Inertia (Kg·m ²) | 1179x10 ⁻⁷ | 2591x10 ⁻⁶ | 3048x10 ⁻⁶ | 7207x10 ⁻⁶ | 67089x10 ⁻⁶ |
| 3 Maximum Speed (rpm) | 200 | | | | 110 |
| 4 Axial Load Capacity (N) | 762 | 1170 | 1560 | 2242 | 5919 |
| 5 Deviation Load Capacity (N·m) | 19 | 29 | 39 | 56 | 148 |
| 6 One-Way Remove Positioning Precision | 4' (0.0667°) | | | | |
| 7 Repeatability Positioning Precision | ±15" (±0.004°) | | | | |
| 8 Missed Step | 4' (0.0667°) | | | | |
| 9 Parallelism (µm) | 50 | 30 | | | 50 |
| 10 Dynamic Parallelism (µm) | 30 | 8 | 10 | 11 | 15 |
| 11 Dynamic Concentricity (µm) | 30 | 8 | 10 | 11 | 15 |

1. Rotational Torque

The mechanical strength of the retarder, include acceleration torque and load inertia, must be used within this range.

2. Rotational Inertia

Known as Moment of Inertia, is the value of the mechanism (Except Motor Rotor Inertia).

3. Maximum Speed

The maximum speed changes due to motor and drive matching and the difference between loading mode and weight.

4. Axial Load Capacity

The affordable horizontal force on the table of axial load.

5. Deviation Load Capacity

The affordable horizontal force on the table of deviation load.

6. One-Way Remove Positioning Precision

Within a predetermined testing range, start working a homing rotation stage to move to an unspecified position in a fixed direction (CW or CCW). As the motion is done, record the difference has occurred between the actual and target movement values. The difference is referred to as a positioning precision.

7. Repeatability Positioning Precision

Firstly, set a standard angle aligned with the baseline, and then repeat the measurement for seven repetitions including both clockwise as well as counterclockwise directions and record each difference for obtaining a maximum value and the path including it.

With half value of the difference, test for the other differences at midpoint / both ends of the previous path and thence record the maximum, which is referred to as a repeatability positioning precision.

8. Missed Step (Lost Stroke at Reverse Rotation)

Select clockwise rotation for angle positioning and set a position x1. Continue counterclockwise rotation for angle positioning and set a position y1. Set a custom position for testing seven repetitions. Then record the maximum difference and the path including it, both are used to perform the next step that, test the other differences at midpoint / both ends of the previous path and thence record the maximum, which is referred to as a missed step.

$$\text{Missed Step calculation : } \max \left| \frac{(x1 + x2 + x3 \dots + x7)}{7} - \frac{(y1 + y2 + y3 \dots + y7)}{7} \right|$$

9. Parallelism

Place a homing elevator stage onto granite workbench and set a micrometer to measure the maximum level difference at middle area of the stage (or use Zeiss coordinate measuring machines), and to be referred to as a parallelism.

10. Dynamic Parallelism

Place a homing elevator stage onto granite workbench and set four micrometers to measure the level difference at four angles of the stage (or use Zeiss coordinate measuring machines), and record the maximum value to as a dynamic parallelism.

11. Dynamic Concentricity

Within a predetermined position, set a micrometer to measure the concentricity of circumference of a homing rotation stage rotating in specified / fixed directions (CW and CCW), and record the maximum of the concentric difference to be referred to as a dynamic concentricity.

※Horizontal installation and no load in the state of the test value as described on point 6 to point 11.

Model Description

ARG□□ Series

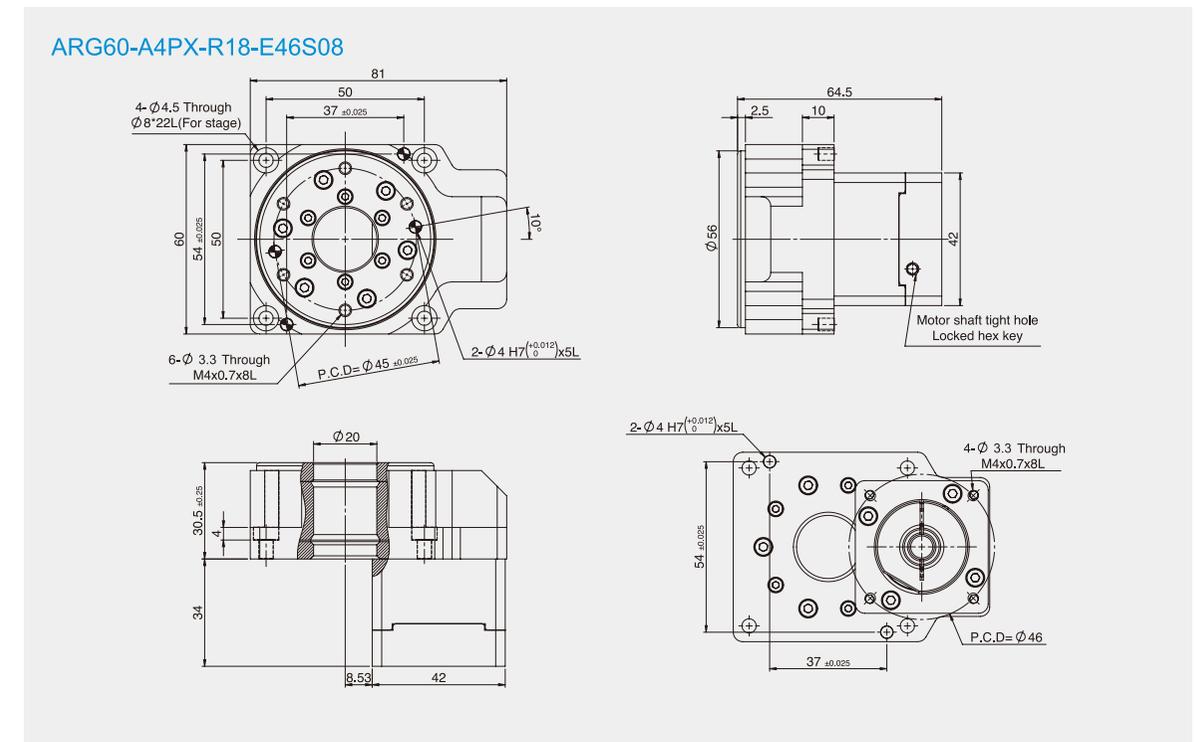
| Model | Base Size | Reduction Ratio | Applicable Motor Type / Moment of Installation | | Applicable Motor Shaft Dia | |
|-------|-----------|-----------------|--|-----------|----------------------------|----|
| ARG | 60 60mm | R05 1/5 | E46 Servo Motor | P.C.D=Ø46 | S08 | Ø8 |
| | 85 85mm | | T31 Stepper Motor | □31 | S05 | Ø5 |

ARG 85 - A 4 P X - R05 - E46 S08

| Material | Drive Type | Accuracy Level | Wiring Method |
|------------------|------------|-------------------|----------------|
| A Aluminum Alloy | 4 Gear | P Precision grade | X Not equipped |

| Model No. | ARG60-A4PX-□ | ARG85-A4PX-□ | |
|---|--|--|---|
| Mechanical Specifications | Base Size (mm) | 60x81 | 85x120 |
| | Table Size (mm) | Ø56 | Ø80 |
| | Hollow Size (mm) | Ø20 | Ø21 |
| | Travel Stroke | 360° | |
| | Drive Type | Gear (Reduction Ratio 1/8, 1/18) R08, R18 | Gear (Reduction Ratio 1/5) R05 |
| | Rail | Crossed-roller guiding | |
| | Stage Material / Surface Treatment | Aluminum alloy / Black anodized Aluminum | Alloy (Steel Countertops) / Black anodized Aluminum |
| | Torque (N·m) | 5 | 21 |
| | Moment of Inertia (Kg·m ²) | 1179x10 ⁻⁷ | 2591x10 ⁻⁶ |
| | Max Speed (rpm) | 200 | 210 |
| Axial Capacity (N) | 762 | 1170 | |
| Deviation Capacity (N·m) | 19 | 29 | |
| Main Unit Weight (Kg) | 0.6 | 1.74 | |
| Precision Specifications | Accuracy Level | P : Precision grade | |
| | Positioning Precision | 4' (0.0667°) | |
| | Repeatability Precision | ±15" (±0.004°) | |
| | Missed Step | 4' (0.0667°) | |
| | Parallelism (µm) | 50 | 30 |
| | Dynamic Straightness (µm) | 30 | 8 |
| Dynamic Parallelism (µm) | 30 | 8 | |
| Equipped with Motor | Servo Motor | Representation E46S08 (Additional Purchase) | |
| | | Reference Watts (W) 50 & 100 | |
| | | Installation Dimensions Moment of Installation : P.C.D=Ø46 ; Suitable Shaft Diameter=8 | |
| | Stepper Motor | Representation T31S05 (Additional Purchase) | |
| | Dimensions □42 | | |
| | Installation Dimensions Moment of installation : □31 ; Suitable Shaft Diameter=5 | | |
| Origin Sensing Kit | Sensor | Photoelectric sensor PM-T65 (Additional Purchase) | |
| | Power Voltage | 20V ±10% | |
| | Control Output | NPN open collector output under 20V 50mA | |
| | Output Control | Testing (sensing or not) : output transistor OFF (closed) | |
| | Shading Panel-beating | Recommended with Servo Motor | |
| | Cable with end of a thread | Origin Sensing Interrupt (Additional Purchase) | |
| | | The length of Cable Below 1m : CN14A-C1 (Additional Purchase) | |
| The length of Cable Below 2m : CN14A-C2 (Additional Purchase) | | | |
| The length of Cable Below 3m : CN14A-C3 (Additional Purchase) | | | |
| | | The length of Cable Below 5m : CN14A-C5 (Additional Purchase) | |

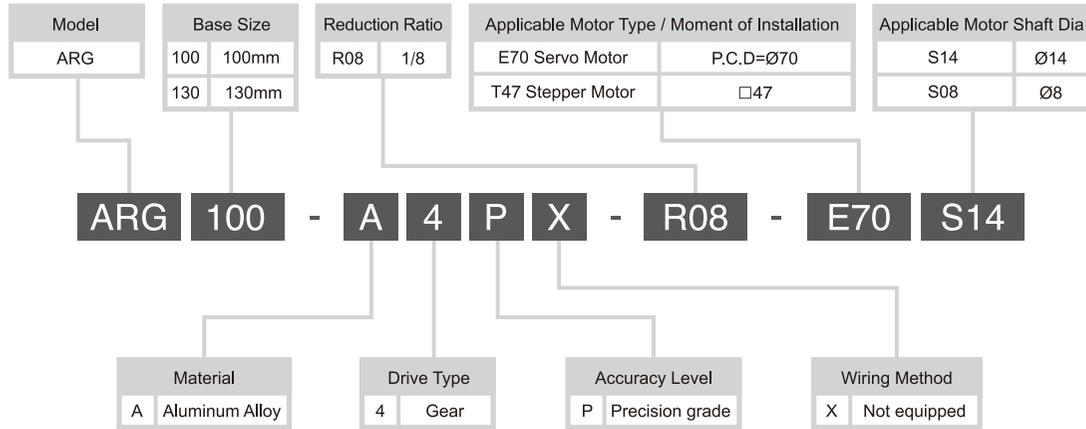
ARG60-A4PX-□



※A Servo Motor Adapter Piston attached.

Model Description

ARG□□□ Series

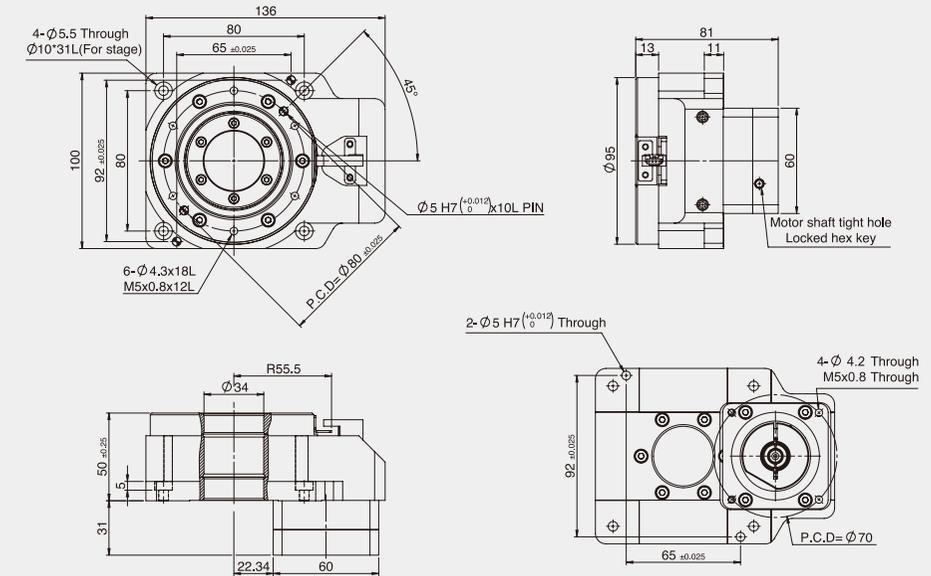


| Model No. | ARG100-A4PX-□ | ARG130-A4PX-□ | |
|---------------------------|--|--|---------------------------------|
| Mechanical Specifications | Base Size (mm) | 100x136 | 130x163 |
| | Table Size (mm) | Ø95 | Ø125 |
| | Hollow Size (mm) | Ø34 | Ø59 |
| | Travel Stroke | 360° | |
| | Drive Type | Gear (Reduction Ratio 1/8) R08 | Gear (Reduction Ratio 1/10) R10 |
| | Rail | Crossed-roller guiding | |
| | Stage Material / Surface Treatment | Alloy (Steel Countertops) / Black Anodized Aluminum | |
| | Torque (N·m) | 21 | |
| | Moment of Inertia (Kg·m ²) | 3048x10 ⁻⁶ | 7207x10 ⁻⁶ |
| | Max Speed (rpm) | 200 | |
| Precision Specifications | Accuracy Level | P : Precision grade | |
| | Positioning Precision | 4' (0.0667°) | |
| | Repeatability Precision | ±15" (±0.004°) | |
| | Missed Step | 4' (0.0667°) | |
| Equipped with Motor | Servo Motor | E70S14 (Additional Purchase) | |
| | Reference Watts (W) | 200 & 400 | |
| | Installation Dimensions | Moment of Installation : P.C.D=Ø70 ; Suitable Shaft Diameter=14 | |
| | Stepper Motor | T47S08 (Additional Purchase) | |
| Dimensions | □57 | | |
| Installation Dimensions | Moment of Installation : □47 ; Suitable Shaft Diameter=8 | | |
| Origin Sensing Kit | Sensor | Photoelectric sensor PM-T65 (Additional Purchase) | |
| | Power Voltage | 20V ±10% | |
| | Control Output | NPN open collector output under 20V 50mA | |
| | Output Control | Testing (sensing or not) : output transistor OFF (closed) | |
| | Shading Panel-beating | Origin Sensing Interrupt (Additional Purchase) | |
| | Cable with end of a thread | The length of Cable Below 1m : CN14A-C1 (Additional Purchase) The length of Cable Below 2m : CN14A-C2 (Additional Purchase) The length of Cable Below 3m : CN14A-C3 (Additional Purchase) The length of Cable Below 5m : CN14A-C5 (Additional Purchase) | |

ARG100-A4PX-□



ARG100-A4PX-R08-E70S14

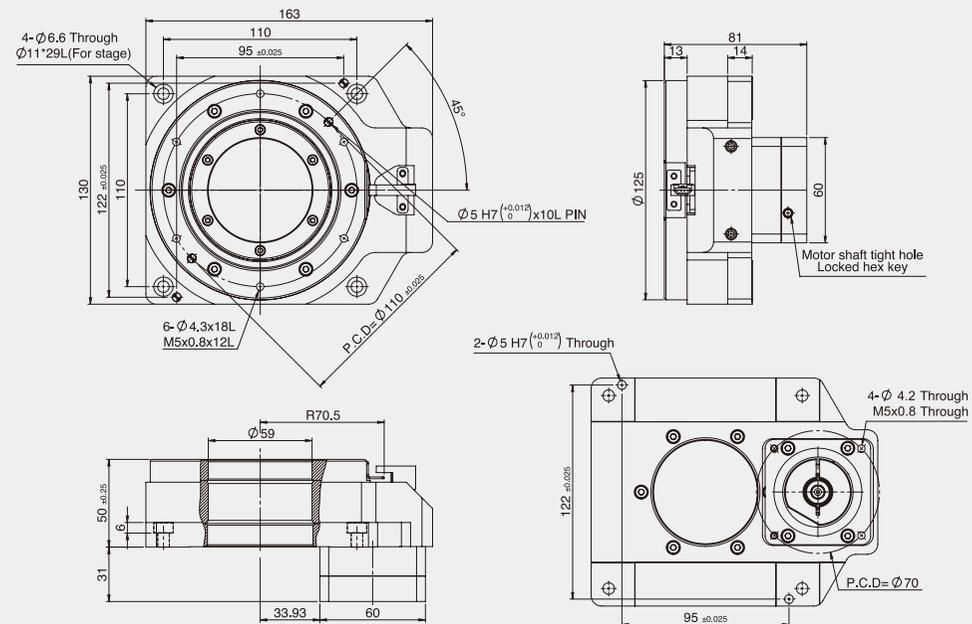


※A Servo Motor Adapter Piston attached.

©ARG130-A4PX-□



ARG130-A4PX-R10-E70S14



Model Description

ARG□□□ Series

| Model | Base Size | Reduction Ratio | Applicable Motor Type / Moment of Installation | | Applicable Motor Shaft Dia | |
|-------|-----------|-----------------|--|-----------|----------------------------|-----|
| ARG | 200 200mm | R10 1/10 | E90 Servo Motor | P.C.D=Ø90 | S19 | Ø19 |
| | | | T70 Stepper Motor | □70 | S14 | Ø14 |

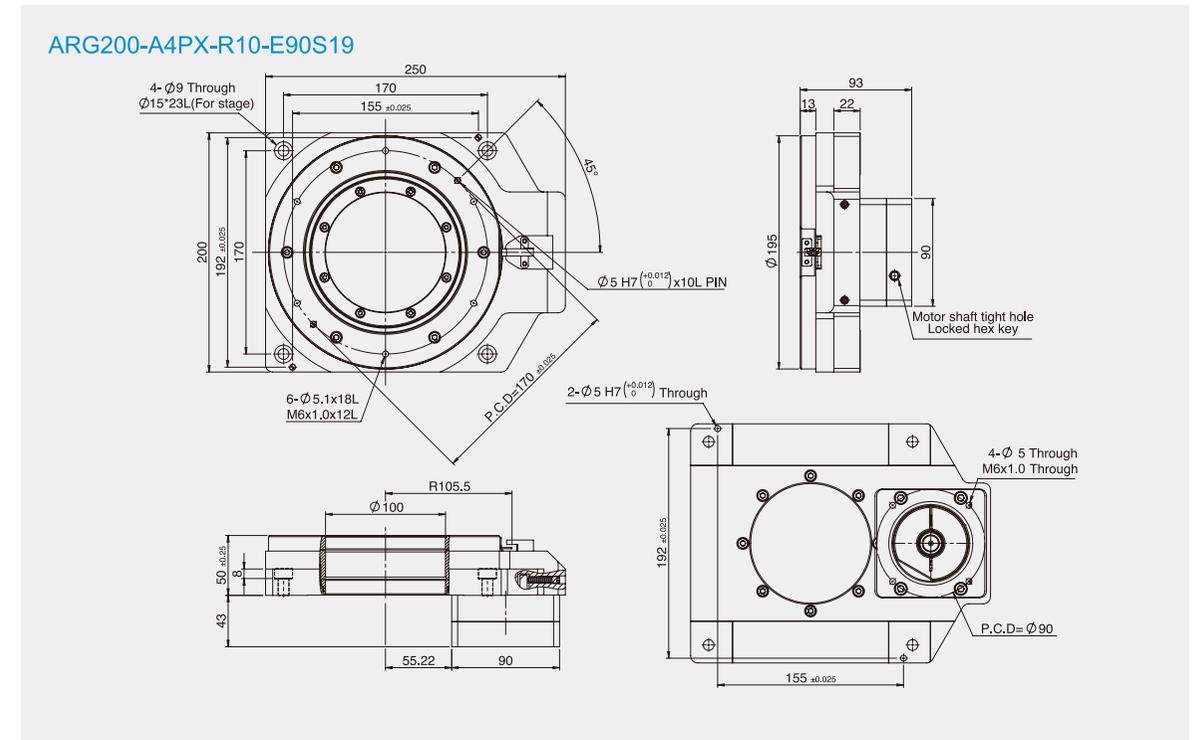
ARG 200 - A 4 P X - R10 - E90 S19

| Material | Drive Type | Accuracy Level | Wiring Method |
|------------------|------------|-------------------|----------------|
| A Aluminum Alloy | 4 Gear | P Precision grade | X Not equipped |

| Model No. | ARG200-A4PX-□ | |
|----------------------------|---|---|
| Mechanical Specifications | Base Size (mm) | 200x250 |
| | Table Size (mm) | Ø195 |
| | Hollow Size (mm) | Ø100 |
| | Travel Stroke | 360° |
| | Drive Type | Gear (Reduction Ratio 1/10) R10 |
| | Rail | Crossed-roller guiding |
| | Stage Material / Surface Treatment | Alloy (Steel Countertops) / Black anodized Aluminum |
| | Torque (N·m) | 21 |
| | Moment of Inertia (Kg·m ²) | 67089x10 ⁻⁸ |
| | Max Speed (rpm) | 110 |
| | Axial Capacity (N) | 5919 |
| | Deviation Capacity (N·m) | 148 |
| Main Unit Weight (Kg) | 7.88 | |
| Precision Specifications | Accuracy Level | P : Precision grade |
| | Positioning Precision | 4' (0.0667°) |
| | Repeatability Precision | ±15" (±0.004°) |
| | Missed Step | 4' (0.0667°) |
| | Parallelism (µm) | 50 |
| | Dynamic Straightness (µm) | 15 |
| Equipped with Motor | Representation | E90S19 (Additional Purchase) |
| | Reference Watts (W) | 750 |
| | Installation Dimensions | Moment of Installation : P.C.D=Ø90 ; Suitable Shaft Diameter=19 |
| | Representation | T70S14 (Additional Purchase) |
| Origin Sensing Kit | Sensor | Photoelectric sensor PM-T65 (Additional Purchase) |
| | Power Voltage | 20V ±10% |
| Cable with end of a thread | Control Output | NPN open collector output under 20V 50mA |
| | Output Control | Testing (sensing or not) : output transistor OFF (closed) |
| | Shading Panel-beating | Origin Sensing Interrupt (Additional Purchase) |
| | | The length of Cable Below 1m : CN14A-C1 (Additional Purchase) |
| | | The length of Cable Below 2m : CN14A-C2 (Additional Purchase) |
| | The length of Cable Below 3m : CN14A-C3 (Additional Purchase) | |
| | The length of Cable Below 5m : CN14A-C5 (Additional Purchase) | |

※A Servo Motor Adapter Piston attached.

◎ARG200-A4PX-□

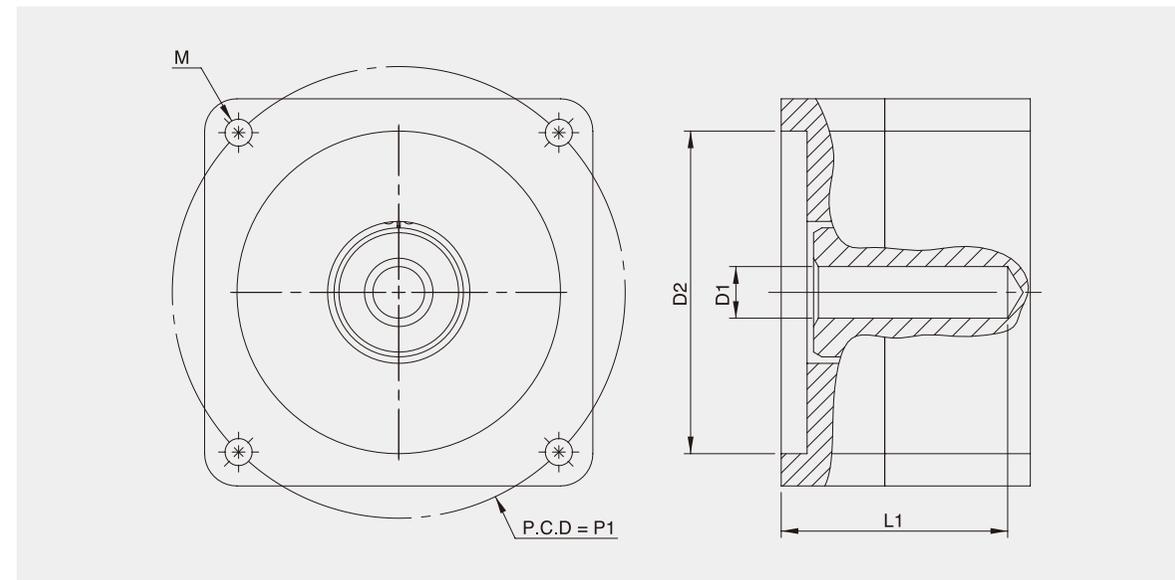


Model Description and Recommended Servo Motor Mounted

| Compatible Servo Motor | | | |
|------------------------|--------------|----------------------|--|
| Model | Watts | Adapter Piston Model | Installation Dimensions |
| 60 | 50W 100W | E46S08 | Moment of installation : P.C.D=46 Suitable Shaft Diameter : Ø8 |
| 85 | | | |
| 100 | 200W 400W | E70S14 | Moment of installation : P.C.D=70 Suitable Shaft Diameter : Ø14 |
| 130 | | | |
| 200 | 750W | E90S19 | Moment of installation : P.C.D=90 Suitable Shaft Diameter : Ø19 |

Unit : mm

Mounted Servo Motor Size Chart



| Compatible Servo Motor | | | | | |
|------------------------|-----------------------|--------------|----------------------|---------------------------|------------------|
| Motor Output Power | Motor Axial Length L1 | Shaft Dia D1 | Mounting Diameter D2 | Moment of Installation P1 | Mounting Holes M |
| 50W | 25 | 8 | 30 | Ø46 | M4 Thread |
| 100W | | | | | |
| 200W | 30 | 14 | 50 | Ø70 | M5 Thread |
| 400W | | | | | |
| 750W | 37 | 19 | 70 | Ø90 | M6 Thread |

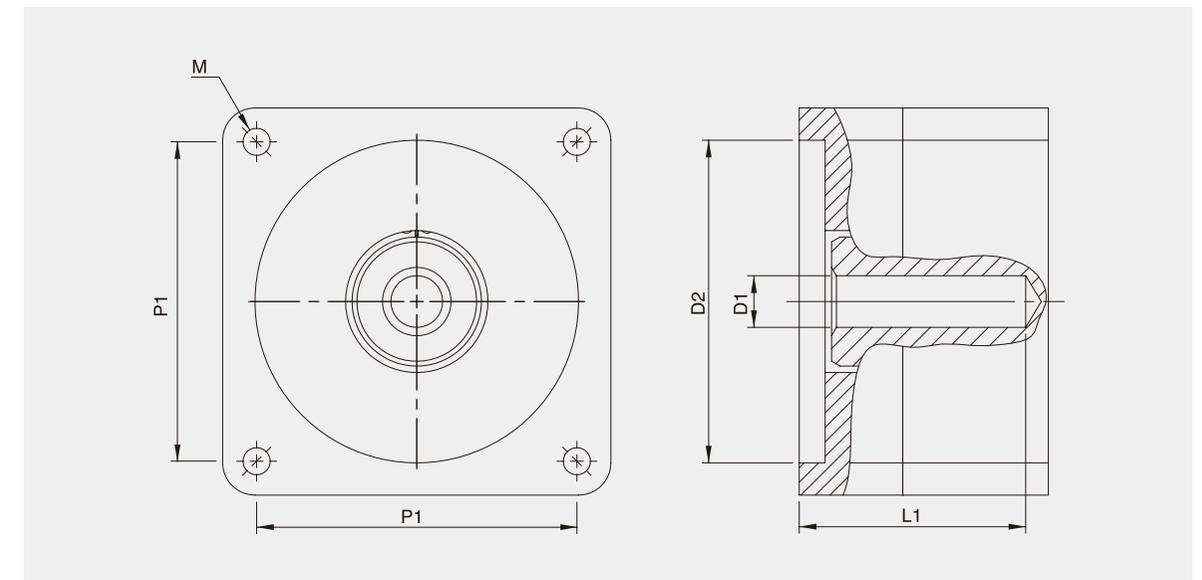
Unit : mm

Model Description and Recommended Stepper Motor Mounted

| Compatible Stepper Motor | | | |
|--------------------------|--------------------------------|----------------------|---|
| Model | Frame Size | Adapter Piston Model | Installation Dimensions |
| 60 | | | |
| 85 | □42 | T31S05 | Moment of installation : P1=□31 Suitable Shaft Diameter : Ø5 ※Output Shaft Below Ø8 Attached Bushing |
| 100 | □57 | T47S08 | Moment of installation : P1=□47 Suitable Shaft Diameter : Ø8 ※Output Shaft Below Ø14 Attached Bushing |
| 130 | | | |
| 200 | □85, □86 Applicable for All | T70S14 | Moment of installation : P1=□70 Suitable Shaft Diameter : Ø14 ※Output Shaft Below Ø19 Attached Bushing |

Unit : mm

Recommended Stepper Motor Size Chart



| Compatible Stepper Motor | | | | | |
|--------------------------|-----------------------|--------------|----------------------|---------------------------|------------------|
| Frame Size | Motor Axial Length L1 | Shaft Dia D1 | Mounting Diameter D2 | Moment of Installation P1 | Mounting Holes M |
| □42 | 20 | 5 | 22 | □31 | M3 Through Hole |
| □57 | 24 | 8 | 38 | □47 | M4 Thread |
| □86 | 37 | 14 | 60 | □70 | M5 Thread |

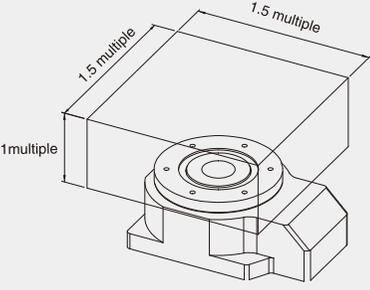
Unit : mm

Recommended Installation Method

Method of the Best Application

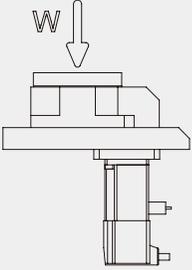
Be Cautious, Existing Risk

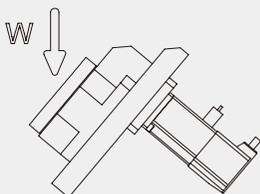
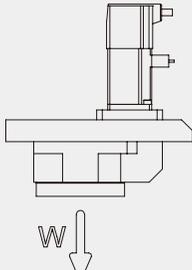
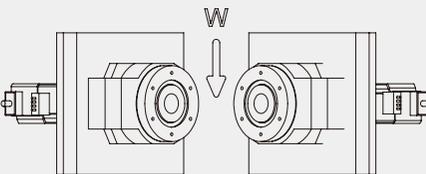
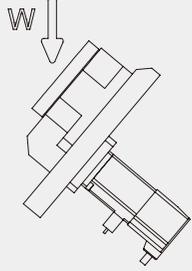
Carrying volume Restrictions Suggestion



Carrier Length : Table Top * 1.5
Carrier Width : Table Top * 1.5
Carrier Height : Table Top * 1

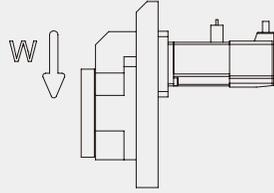
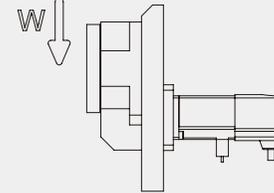
Horizontal Installation : Below



| Slope Installation : Above | Inverted Installation : Above |
|---|--|
|  |  |
| Vertical Installation : Left / Right | Slope Installation : Below |
|  |  |

Recommended Installation Method

Prohibited to use, Existing High Risk

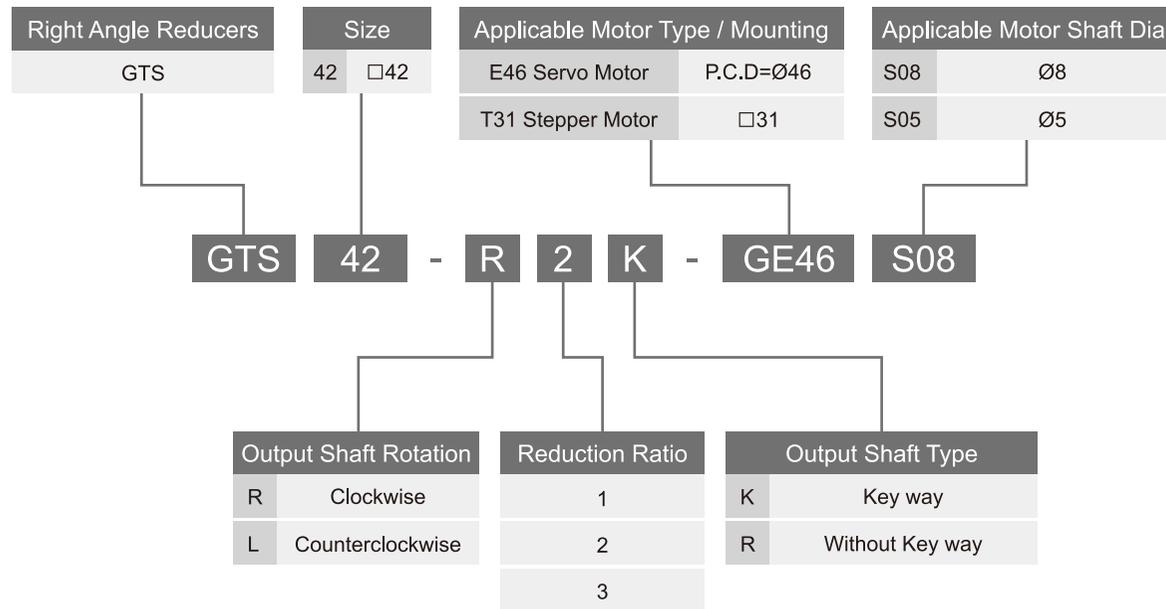
| Vertical Installation : Above | Vertical Installation : Below |
|---|---|
|  |  |

Swing Comparison

| Category | Advantage | Shortcoming |
|-------------------------------------|--|--|
| Hollow Rotary Stage ARG | Medium Responding Speed, High Accuracy, High Rigidity Swing Comparison. | Heavier, Loud Noise, Without Self-locking Not Suitable in High Inertia. |
| AR Series - Precision | Low Reduction Ratio, Medium Accuracy, Seif-locking Stepper Motor Flexible Collocation. | Low Responding Speed, Medium Backlash Not Suitable in High Inertia. |
| AR Series - Standard | Low Reduction Ratio, Seif-locking, Stepper Motor Flexible Collocation. | Low Accuracy, Low Responding Speed, Big Backlash, Not Suitable in High Inertia. |
| Direct Drive Servo Motor (DD Motor) | Hightest Accuracy, Good Responding Speed, No Backlash Drive, Durable. | Large Size, easy to Slipping in high inertia. Need to match the exclusive drive. |

GTS42

Model Description



- ※Suitable for ARG60, ARG85.
- ※Recommended with Servo Motor.
- ※Adapter Piston attached.

| Specification | Reduction Ratio | GTS42 |
|------------------------------|-----------------|-------------------------------|
| Rated Output Torque (N·m) | 1 | 8 |
| | 2 | 7 |
| | 3 | 5.5 |
| Destructive Torque (N·m) | 1~3 | Two Times Rated Output Torque |
| Rated Input RPM (rpm) | | 4000 |
| Standard Backlash (arcmin) | | ≤ 12 |
| Allowable Radial Force (N·m) | | 400 |
| Allowable Axial Force (N·m) | | 200 |
| Main Unit Weight (Kg) | | 0.5 |

Input Shaft Rotation (INPUT)

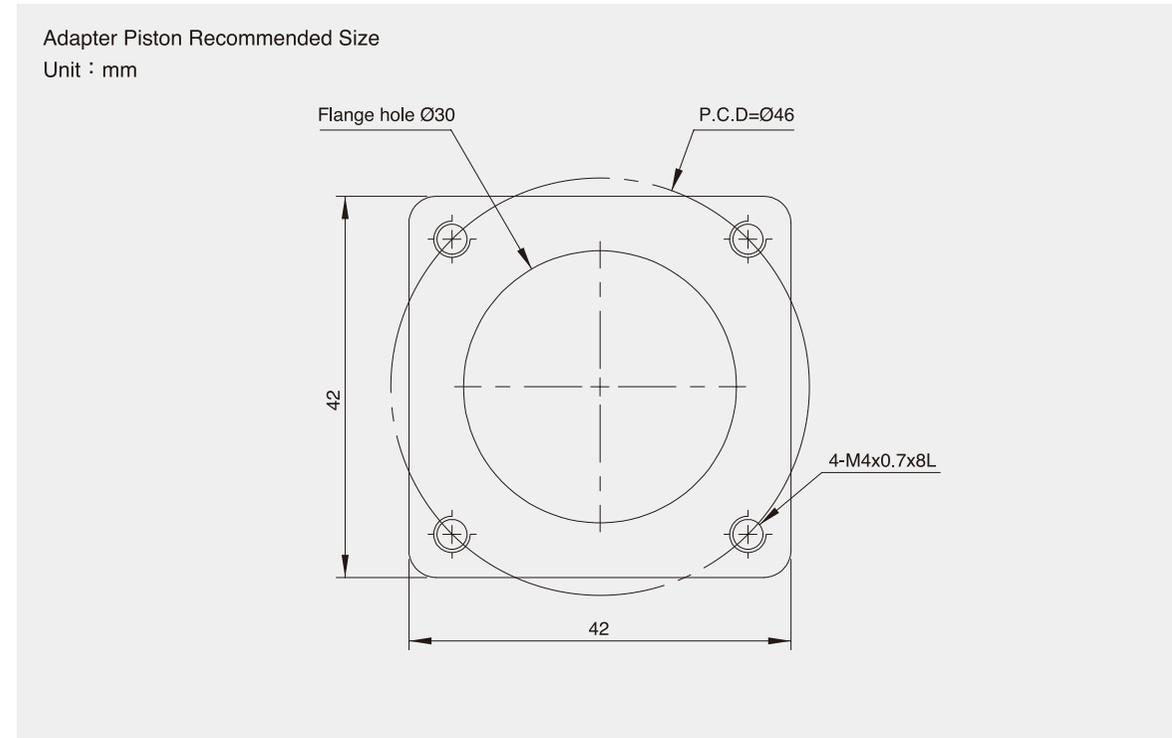
Output Shaft Rotation (OUTPUT)

Dimensions and features shown in drawings:

- Input shaft diameter: $\varnothing 30_{-0.025}$
- Input shaft length: 15, 2
- Input shaft thread: $\varnothing 31_{-0.03}$
- Input shaft P.C.D: $\varnothing 38.5$
- Input shaft thread: 4- $\varnothing 2.5 \times 7.5L$ M3x0.5*6L
- Input shaft length: 1.5, 21
- Input shaft diameter: $\varnothing 8.17$ (±0.015)
- Input shaft length: 77.5
- Output shaft diameter: $\varnothing 24$
- Output shaft length: 2, 11
- Output shaft P.C.D: $\varnothing 46$
- Output shaft feature: 4- $\varnothing 4.5$ Plated Through Hole $\varnothing 7.5 \times 11.5L$
- Output shaft diameter: $\varnothing 45$
- Output shaft length: 36.5, 15, 2
- Output shaft diameter: $\varnothing 30_{-0.025}$

Compatible Servo Motor and Stepper Motor Adapter Piston Recommended

Compatible Servo Motor



Motor Output Power :

50W, 100W

Model of Right Angle Reducers Adapter Piston :

E46S08

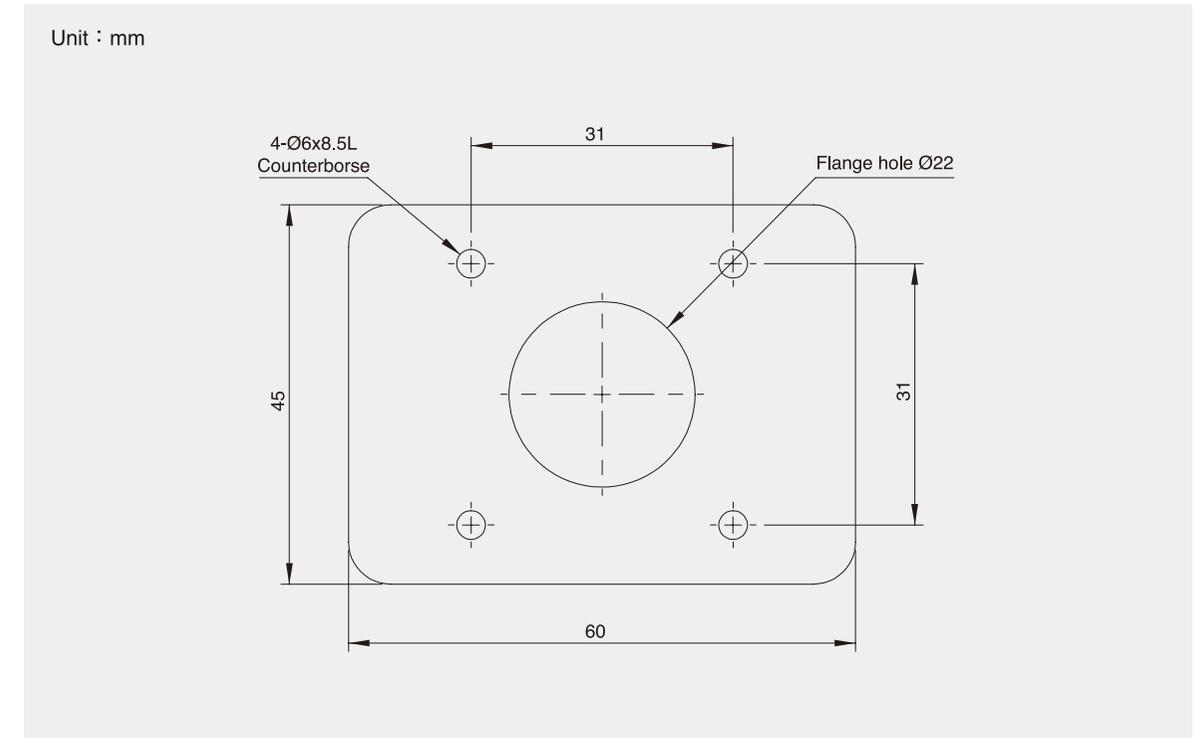
Installation Dimensions :

Mounting : P.C.D=Ø46

Suitable Shaft Diameter : Ø8

Thickness of Adapter Piston : 16.5mm

Compatible Stepper Motor



Model of Motor :

□42

Model of Right Angle Reducers Adapter Piston :

T31S05

Installation Dimensions :

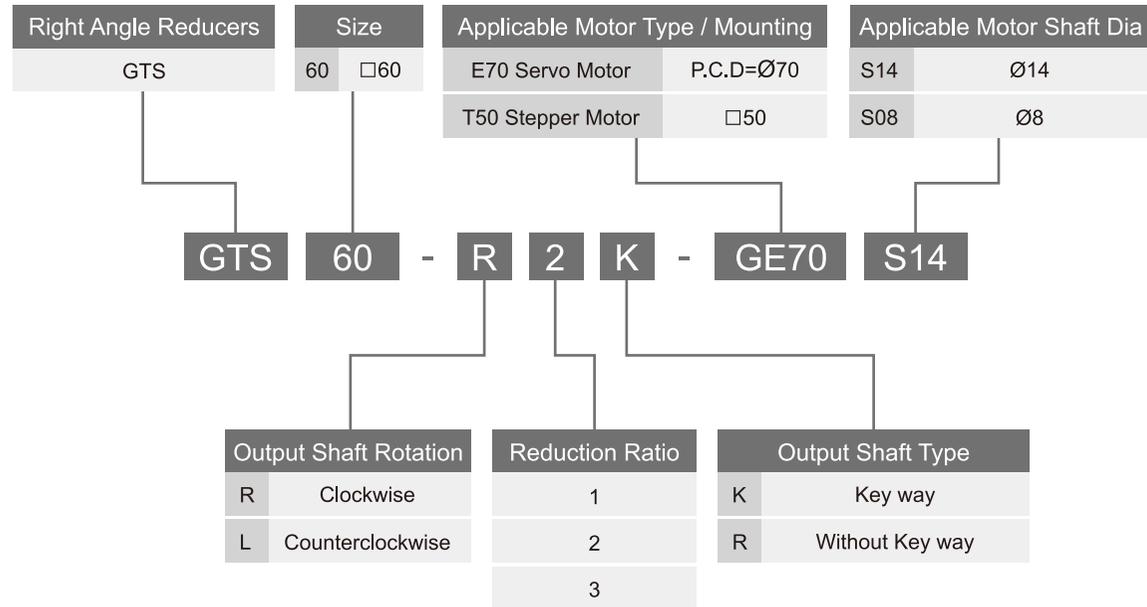
Mounting : P1=□31 Suitable Shaft Diameter : Ø5

※Output Shaft Below Ø8 Attached Bushing

Thickness of Adapter Piston : 15mm

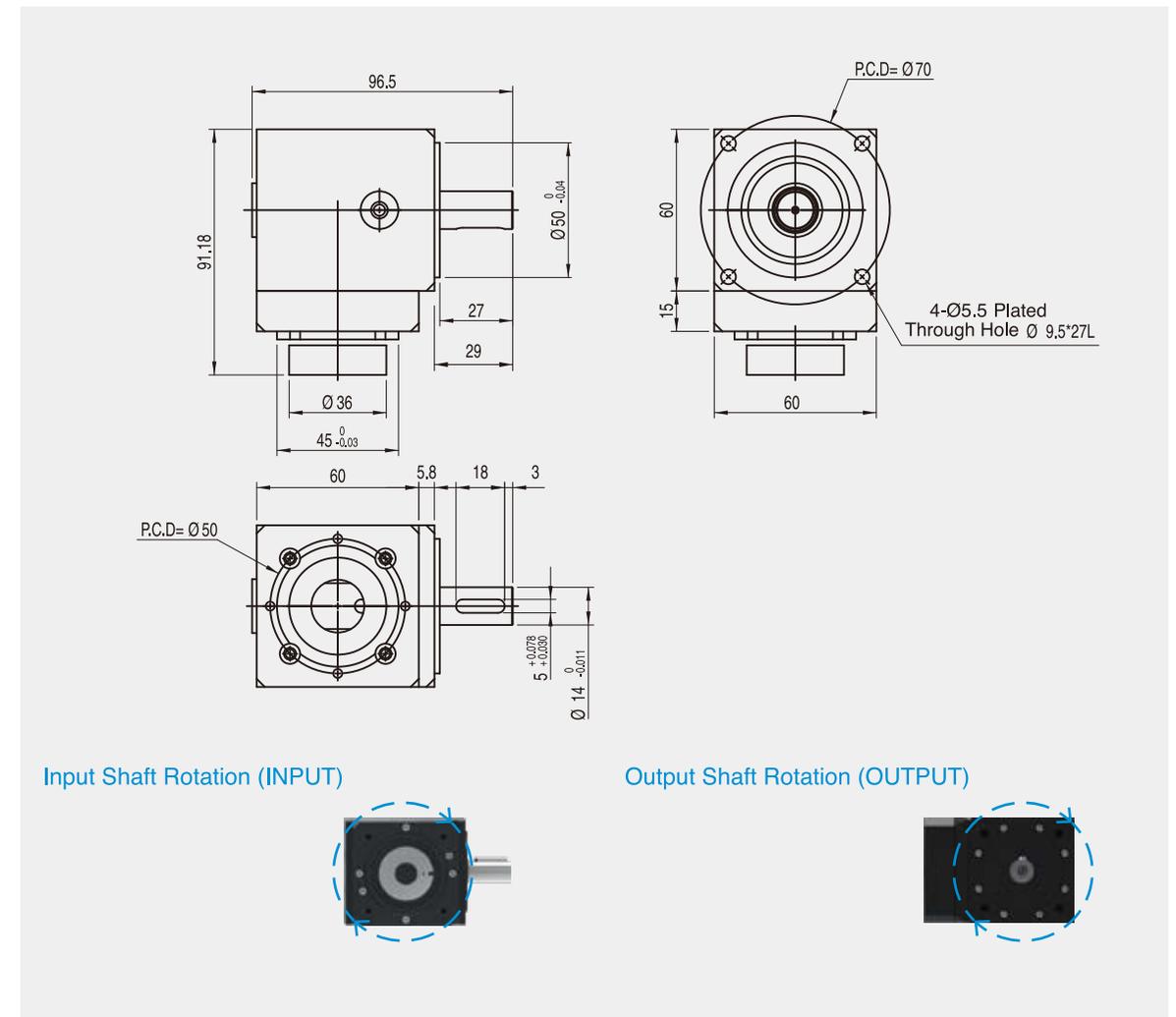
GTS60

Model Description



- ※Suitable for ARG100, ARG130.
- ※Recommended with Servo Motor.
- ※Adapter Piston attached.

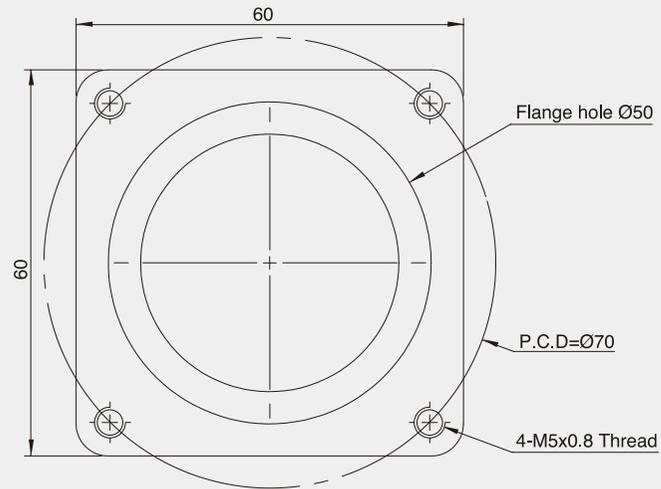
| Specification | Reduction Ratio | GTS60 |
|------------------------------|-----------------|-------------------------------|
| Rated Output Torque (N·m) | 1 | 15 |
| | 2 | 12 |
| | 3 | 10 |
| Destructive Torque (N·m) | 1~3 | Two Times Rated Output Torque |
| Rated Input RPM (rpm) | | 3500 |
| Standard Backlash (arcmin) | | ≤12 |
| Allowable Radial Force (N·m) | | 600 |
| Allowable Axial Force (N·m) | | 300 |
| Main Unit Weight (Kg) | | 1.3 |



Compatible Servo Motor and Stepper Motor Adapter Piston Recommended

Compatible Servo Motor

Unit : mm



Motor Output Power :

200W, 400W

Model of Right Angle Reducers Adapter Piston :

E70S14

Installation Dimensions :

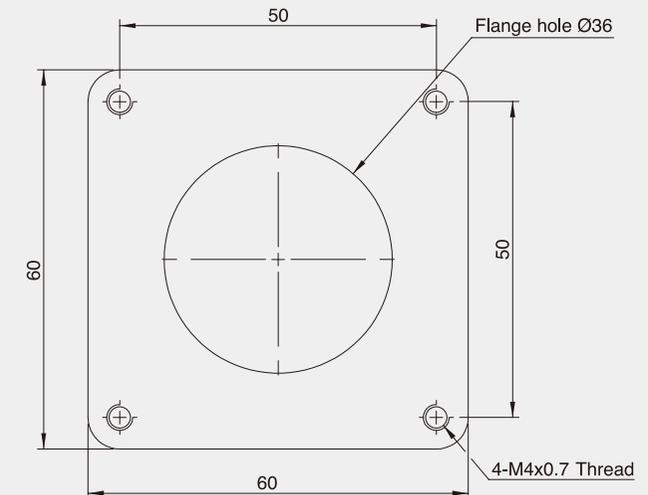
Mounting : P.C.D=Ø70

Suitable Shaft Diameter : Ø14

Thickness of Adapter Piston : 20mm

Compatible Stepper Motor

Unit : mm



Model of Motor :

□60

Model of Right Angle Reducers Adapter Piston :

T50S08

Installation Dimensions :

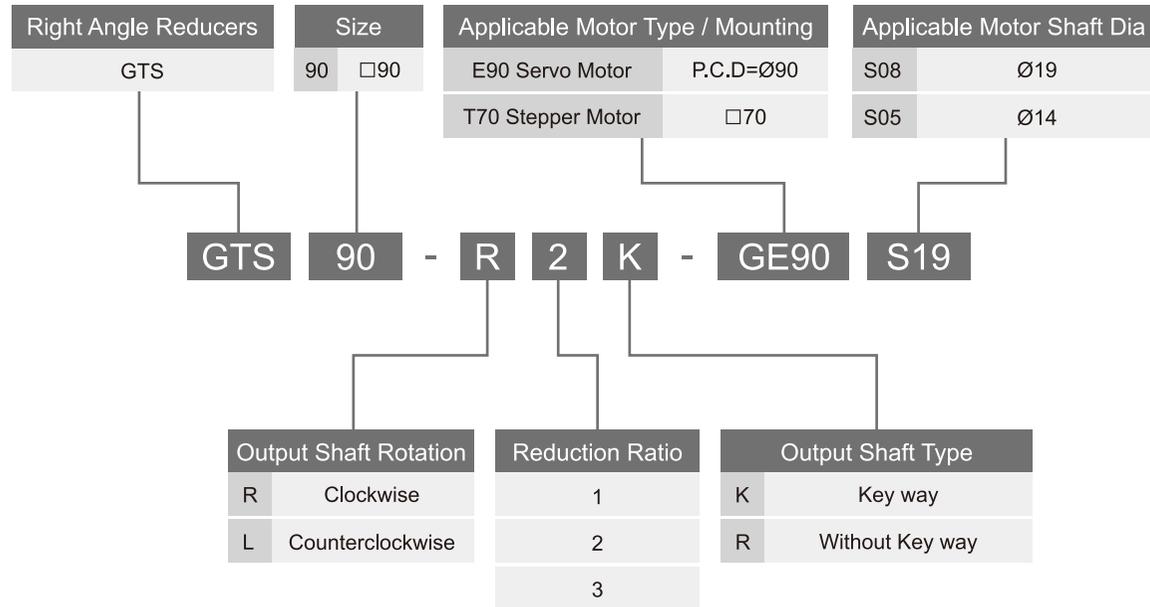
Mounting : P1=□50 Suitable Shaft Diameter : Ø8

※Output Shaft Below Ø14 Attached Bushing

Thickness of Adapter Piston : 20mm

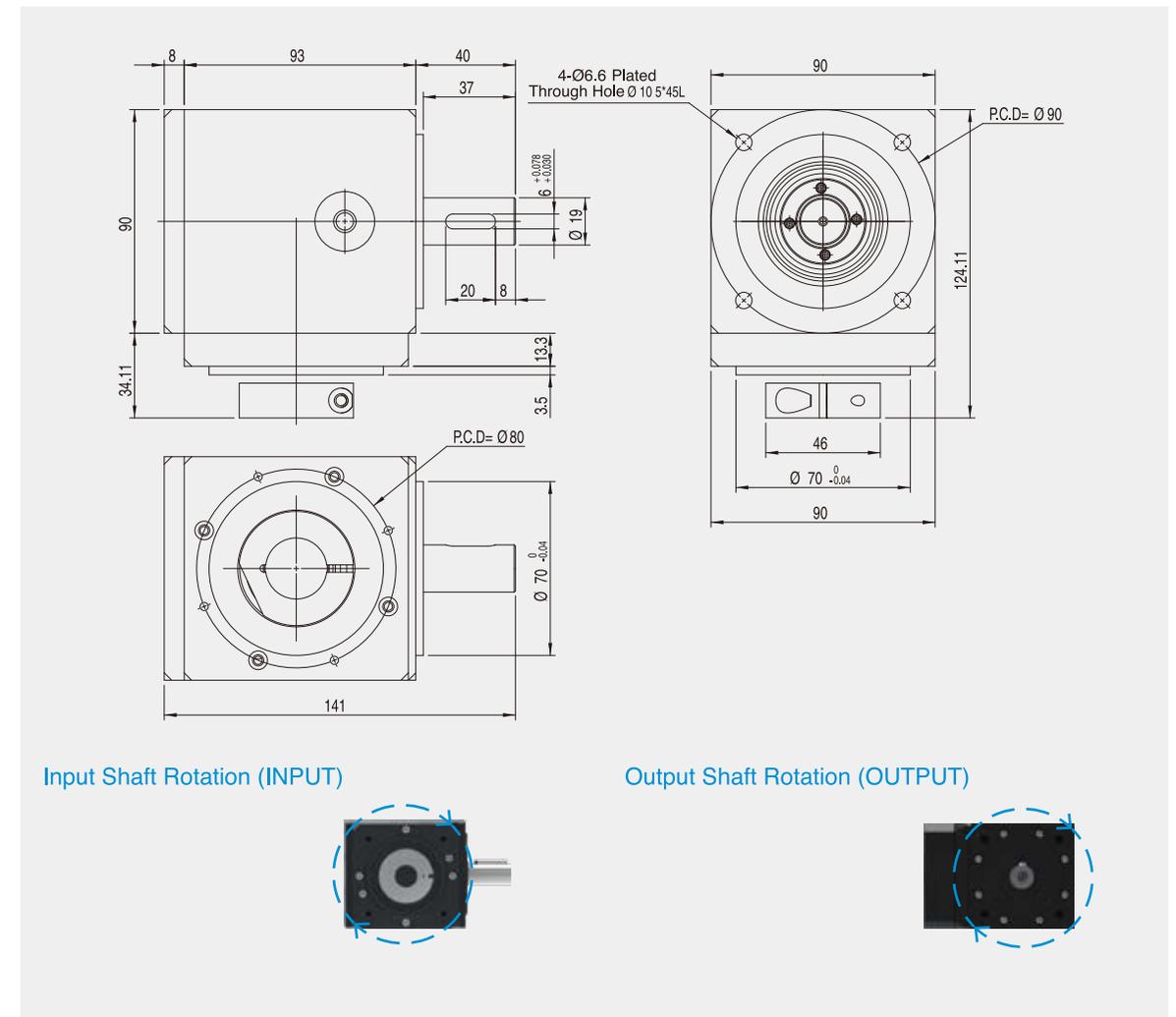
GTS90

Model Description

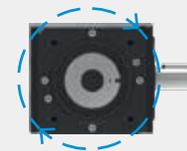


- ※Suitable for ARG200.
- ※Recommended with Servo Motor.
- ※Adapter Piston attached.

| Specification | Reduction Ratio | GTS90 |
|------------------------------|-----------------|-------------------------------|
| Rated Output Torque (N·m) | 1 | 45 |
| | 2 | 42 |
| | 3 | 33 |
| Destructive Torque (N·m) | 1~3 | Two Times Rated Output Torque |
| Rated Input RPM (rpm) | | 3000 |
| Standard Backlash (arcmin) | | ≤12 |
| Allowable Radial Force (N·m) | | 1200 |
| Allowable Axial Force (N·m) | | 600 |
| Main Unit Weight (Kg) | | 3.2 |



Input Shaft Rotation (INPUT)

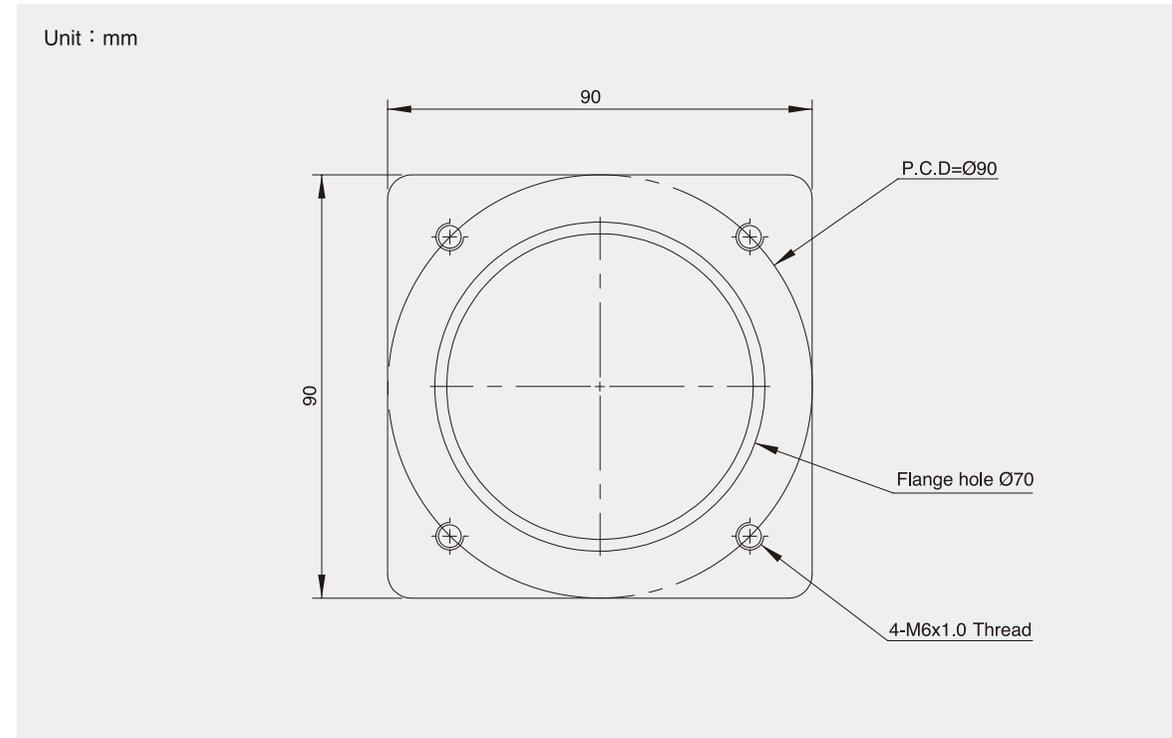


Output Shaft Rotation (OUTPUT)



Compatible Servo Motor and Stepper Motor Adapter Piston Recommended

Compatible Servo Motor



Motor Output Power :

750W

Model of Right Angle Reducers Adapter Piston :

E90S19

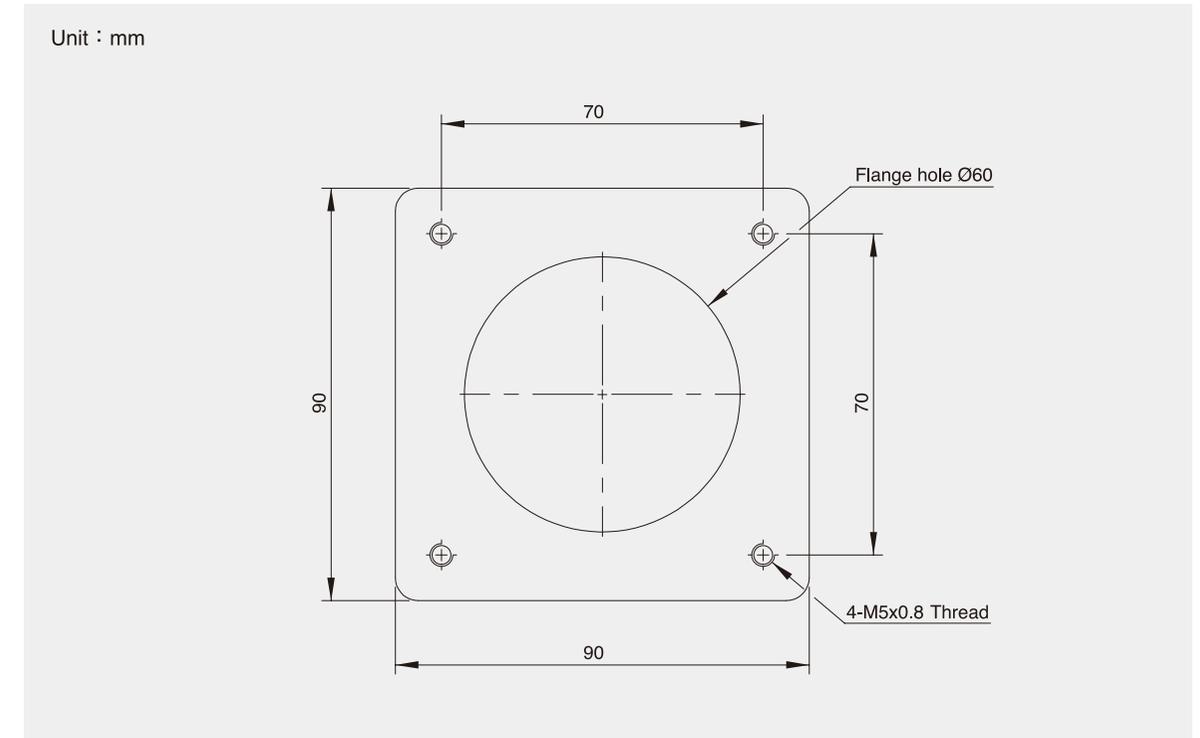
Installation Dimensions :

Mounting : P.C.D=Ø90

Suitable Shaft Diameter : Ø19

Thickness of Adapter Piston : 25mm

Compatible Stepper Motor



Model of Motor :

□85

Model of Right Angle Reducers Adapter Piston :

T70S14

Installation dimensions :

Mounting : P1=□70 Suitable Shaft Diameter : Ø14

※Output Shaft Below Ø19 Attached Bushing

Thickness of Adapter Piston : 25mm

