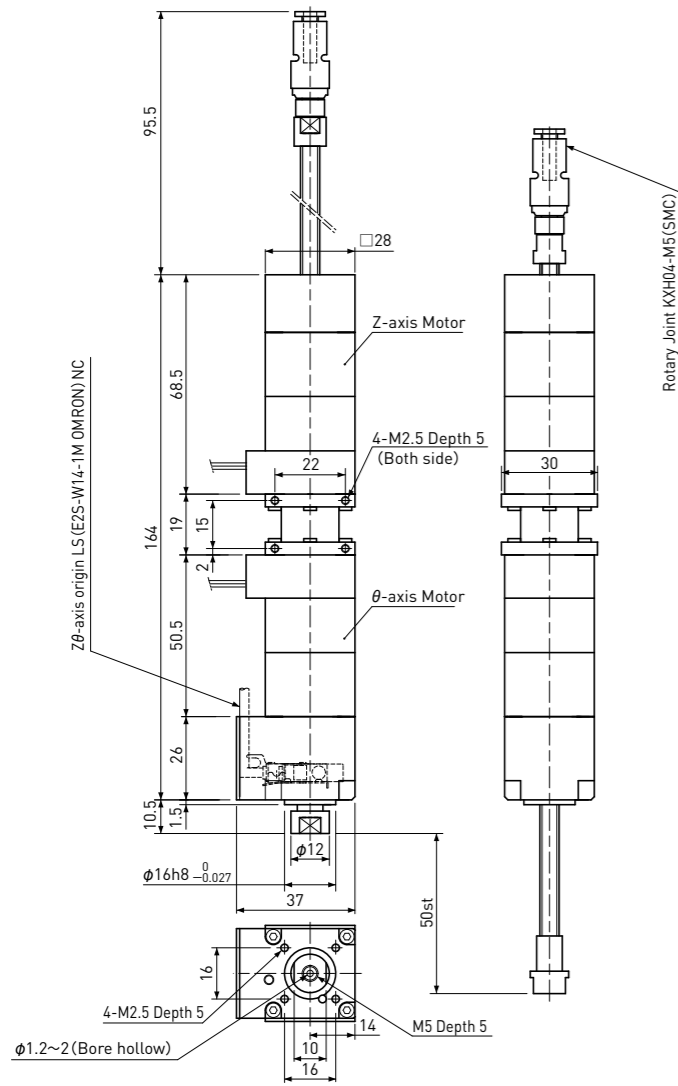


DDA VZ 28 - G 06 050 TW N

□28 2-phase Stepping Motor
Lead 6mm Travel 50mm



Parts List	
Motor	□28 Hollow Stepping Motor 0.67A/phase
Drive Screw	Ball Screw φ6 (Lead 6mm)
Sliding Guide	Ball Spline φ6mm
Sensor (Linear,Rotary)	Proximity Sensor E2S-W14-1M(OMRON)

Motor (Z, θ -axis)	
A	Black
Ā	Green
B	Red
B̄	Blue

UL1061,AWG24 (310mm)

Sensor (Z, θ -axis)	
+12~24V	Brown
LS	Black
GND	Blue

1000mm

● Specifications ※The numbers in table below are reference. Detail dimensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	50mm	± 360°
Repeatability	±0.010mm	±0.03°
Resolution	30 μm (Full Step)	1.8° (Full Step)
Maximum Speed	72mm / sec	1080° / sec
Acceleration & Deceleration time	Min. 0.12sec	Min. 0.04sec
Reference Thrust Force	7N	—
Maximum Permissible Moment	—	0.15 × 10 ⁻⁴ kg·m ² (※)
Mass	540g	
Operating Temperature	0~40°C (No Condensation)	

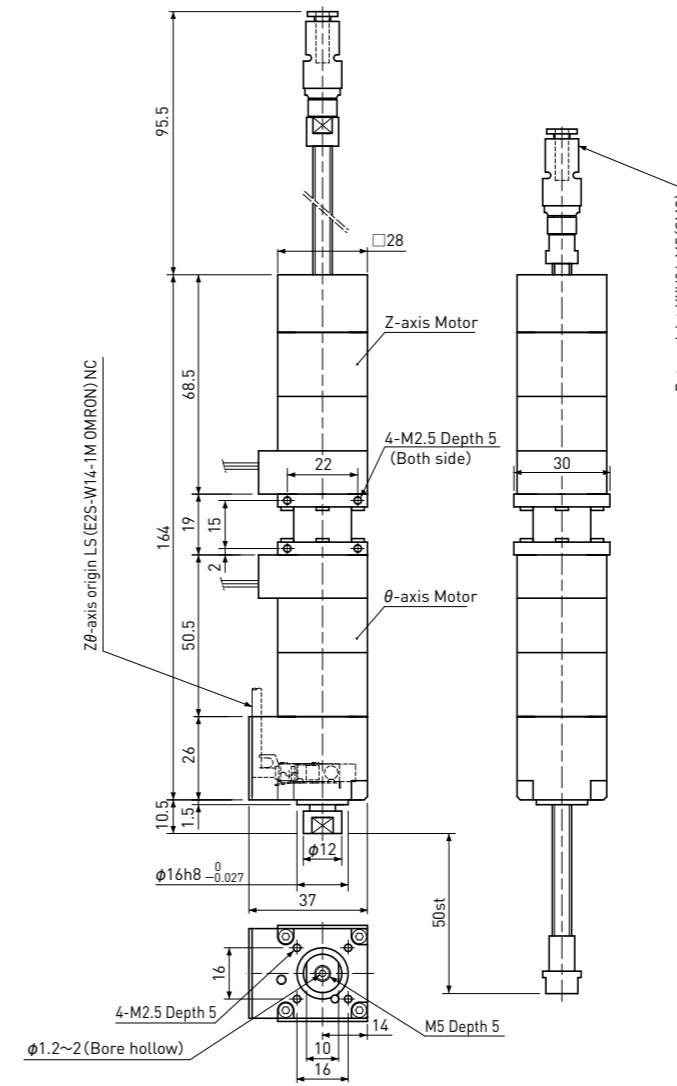
Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
φ20mm	340mm (300g)	120mm (300g)
φ30mm	65mm (130g)	25mm (130g)
φ40mm	20mm (75g)	7.5mm (75g)

Precautions
 1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case Z-axis may free-fall.
 2) Reference of Moment of Inertia table shows the theoretical values. KSS recommends that you should apply actual moment to the machine and confirm the safety operation before use.

※ For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.

DDA VZ 28 - G 10 050 TW N

□28 2-phase Stepping Motor
Lead 10mm Travel 50mm



Parts List	
Motor	□28 Hollow Stepping Motor 0.67A/phase
Drive Screw	Ball Screw φ6 (Lead 10mm)
Sliding Guide	Ball Spline φ6mm
Sensor (Linear,Rotary)	Proximity Sensor E2S-W14-1M(OMRON)

Motor (Z, θ -axis)	
A	Black
Ā	Green
B	Red
B̄	Blue

UL1061,AWG24 (310mm)

Sensor (Z, θ -axis)	
+12~24V	Brown
LS	Black
GND	Blue

1000mm

● Specifications ※The numbers in table below are reference. Detail dimensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	50mm	± 360°
Repeatability	±0.010mm	±0.03°
Resolution	50 μm (Full Step)	1.8° (Full Step)
Maximum Speed	120mm / sec	1080° / sec
Acceleration & Deceleration time	Min. 0.12sec	Min. 0.04sec
Reference Thrust Force	5N	—
Maximum Permissible Moment	—	0.15 × 10 ⁻⁴ kg·m ² (※)
Mass	540g	
Operating Temperature	0~40°C (No Condensation)	

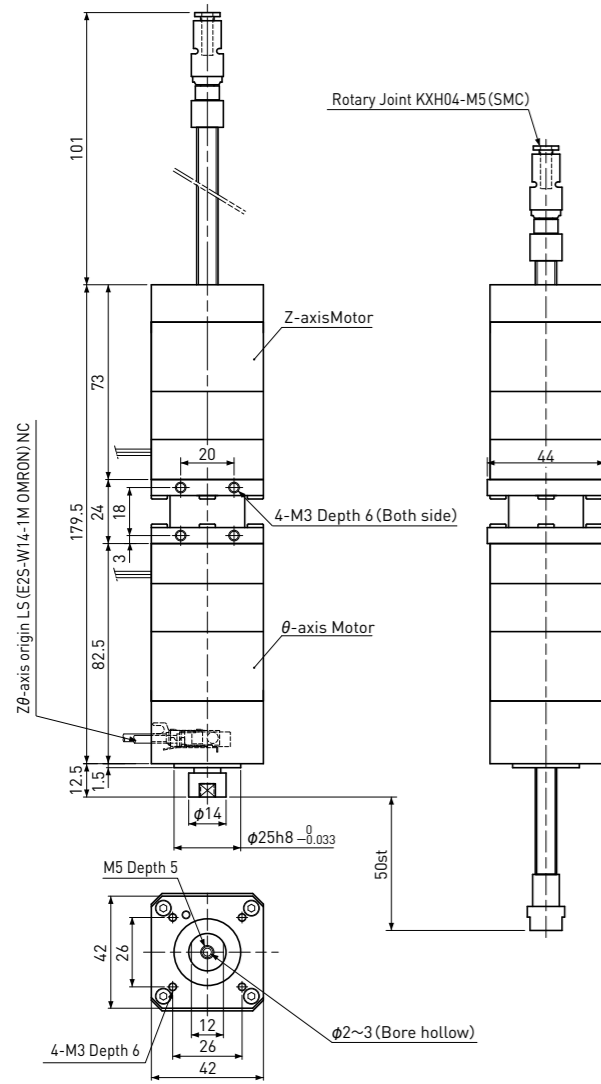
Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
φ20mm	340mm (300g)	120mm (300g)
φ30mm	65mm (130g)	25mm (130g)
φ40mm	20mm (75g)	7.5mm (75g)

Precautions
 1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case Z-axis may free-fall.
 2) Reference of Moment of Inertia table shows the theoretical values. KSS recommends that you should apply actual moment to the machine and confirm the safety operation before use.

※ For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.

DDA VZ 42 - G 05 050 TW N

□42 2-phase Stepping Motor
Lead 5mm Travel 50mm



Parts List	
Motor	□42 Hollow Stepping Motor 1.2A/phase
Drive Screw	Ball Screw φ8 (Lead 5mm)
Sliding Guide	Ball Spline φ8mm
Sensor (Linear, Rotary)	Proximity Sensor E2S-W14-1M(OMRON)

Motor (Z, θ -axis)	
A	Black
A̅	Green
B	Red
B̅	Blue

UL1061,AWG24 (310mm)

Sensor (Z, θ -axis)	
+12~24V	Brown
LS	Black
GND	Blue

1000mm

● Specifications ※The numbers in table below are reference. Detail dimensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	50mm	± 360°
Repeatability	±0.010mm	±0.03°
Resolution	25 μm (Full Step)	1.8° (Full Step)
Maximum Speed	100mm / sec	1080° / sec
Acceleration & Deceleration time	Min. 0.2sec	Min. 0.04sec
Reference Thrust Force	50N	—
Maximun Permissible Moment	—	0.15 × 10 ⁻³ kg·m ² (※)
Mass	1120g	
Operating Temperature	0~40°C (No Condensation)	

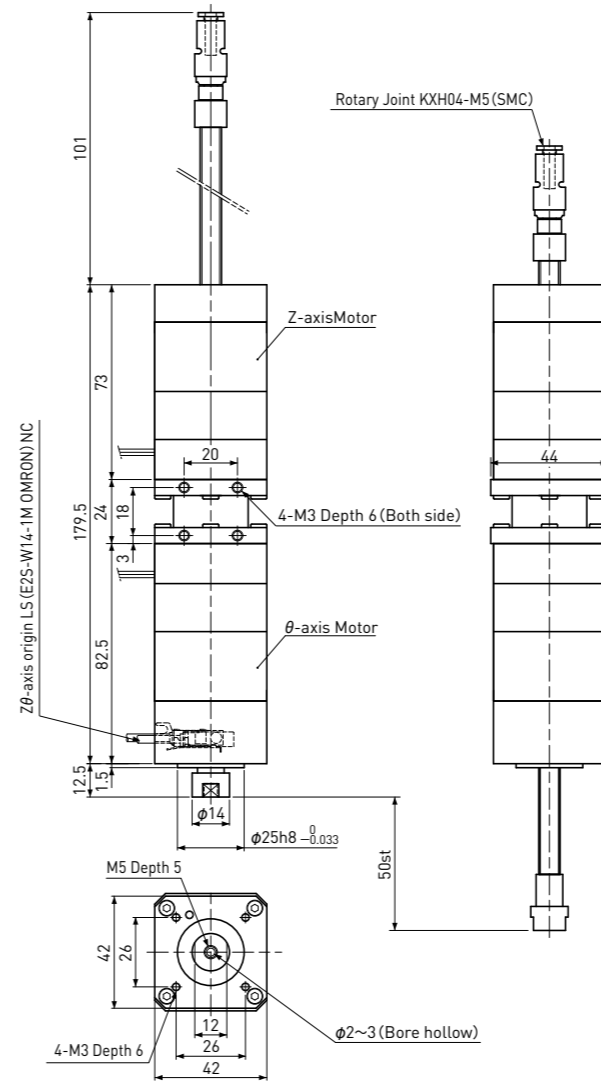
Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
φ30mm	670mm (1300g)	240mm (1300g)
φ50mm	85mm (460g)	30mm (460g)
φ100mm	5mm (110g)	1.5mm (90g)

Precautions
 1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case Z-axis may free-fall.
 2) Reference of Moment of Inertia table shows the theoretical values. KSS recommends that you should apply actual moment to the machine and confirm the safety operation before use.

※ For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.

DDA VZ 42 - G 10 050 TW N

□42 2-phase Stepping Motor
Lead 10mm Travel 50mm



Parts List	
Motor	□42 Hollow Stepping Motor 1.2A/phase
Drive Screw	Ball Screw φ8 (Lead 10mm)
Sliding Guide	Ball Spline φ8mm
Sensor (Linear, Rotary)	Proximity Sensor E2S-W14-1M(OMRON)

Motor (Z, θ -axis)	
A	Black
A̅	Green
B	Red
B̅	Blue

UL1061,AWG24 (310mm)

Sensor (Z, θ -axis)	
+12~24V	Brown
LS	Black
GND	Blue

1000mm

● Specifications ※The numbers in table below are reference. Detail dimensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	50mm	± 360°
Repeatability	±0.010mm	±0.03°
Resolution	50 μm (Full Step)	1.8° (Full Step)
Maximum Speed	200mm / sec	1080° / sec
Acceleration & Deceleration time	Min. 0.2sec	Min. 0.04sec
Reference Thrust Force	25N	—
Maximun Permissible Moment	—	0.15 × 10 ⁻³ kg·m ² (※)
Mass	1120g	
Operating Temperature	0~40°C (No Condensation)	

Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
φ30mm	670mm (1300g)	240mm (1300g)
φ50mm	85mm (460g)	30mm (460g)
φ100mm	5mm (110g)	1.5mm (90g)

Precautions
 1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case Z-axis may free-fall.
 2) Reference of Moment of Inertia table shows the theoretical values. KSS recommends that you should apply actual moment to the machine and confirm the safety operation before use.

※ For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.