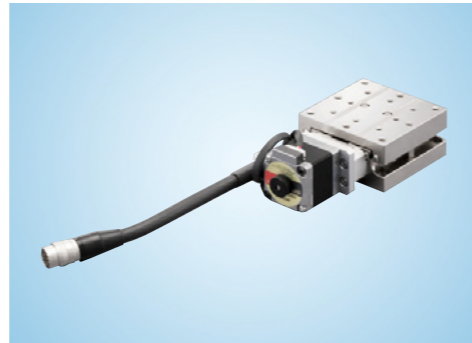
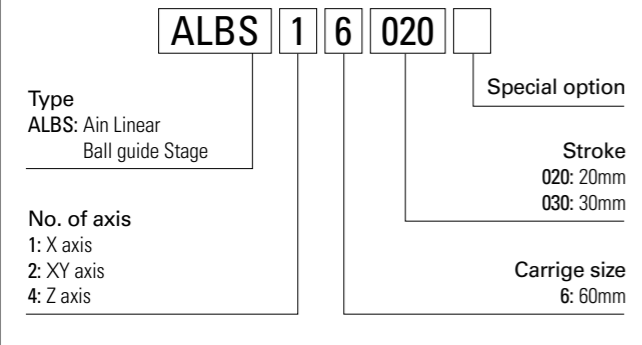


ALBS1-620/630 type

Linear ball guide type

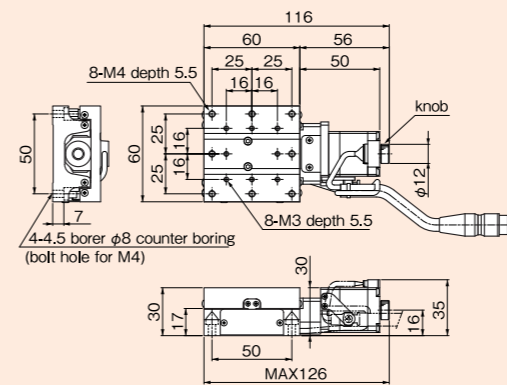
Examples of model number formation



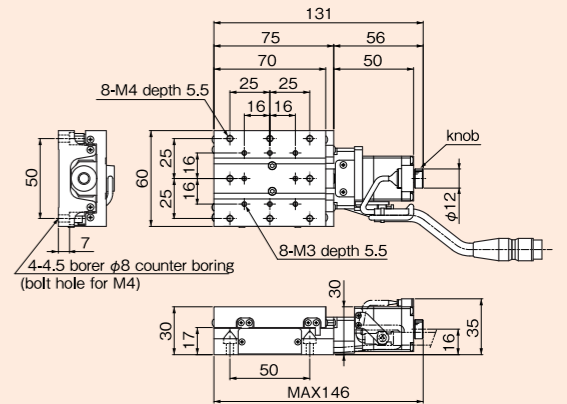
Specification	Model no.	ALBS1-620	ALBS1-630
Table dimension (mm)		60x60	60x70
Stroke (mm)		20	30
Feed screw		Ball screw ø8, Lead 1	
Travel guide		Linear ball guide	
Material		Stainless steel-electroless nickel plating	
Weight (kg)		0.78	0.9
Resolution	Full/Half	2µm/1µm	
	(Pulse) Microstep	0.1µm(MS 1/20)	
Max. speed		20mm/sec	
Positioning for one direction		5µm	
Repeated Positioning		±0.5µm	
Load capacity (kg)		5	
Moment rigidity		Pitching 0.08 / Yawing 0.05 / Rolling 0.05 ["/N-cm]	
Lost motion		1µm	
Backlash		1µm	
Straightness of motion		3µm	
Degree of parallelization		15µm	
Parallelization of motion		10µm	
Pitching/Yawing		20"/15"	
Sensor		Installed	

Note All products can be changed by customer order. please contact AIN for details.

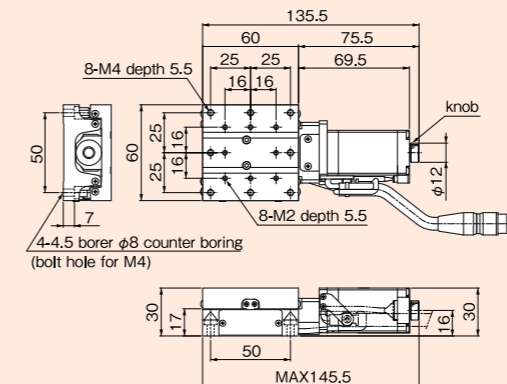
ALBS1-620-Standard



ALBS1-630-Standard



ALBS1-620-High rigidity



ALBS1-630-High rigidity

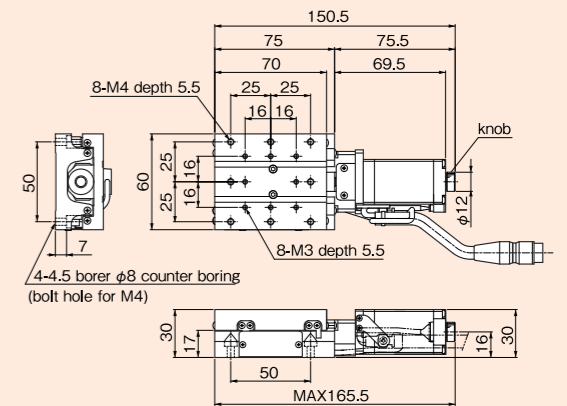
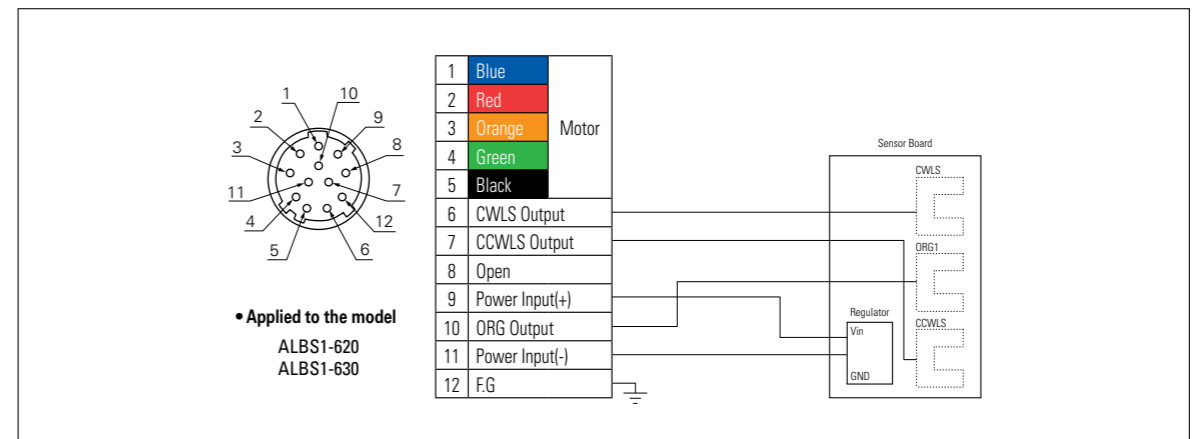


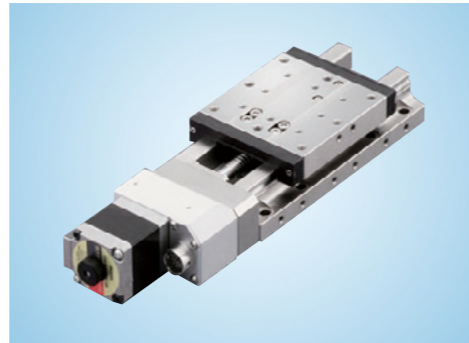
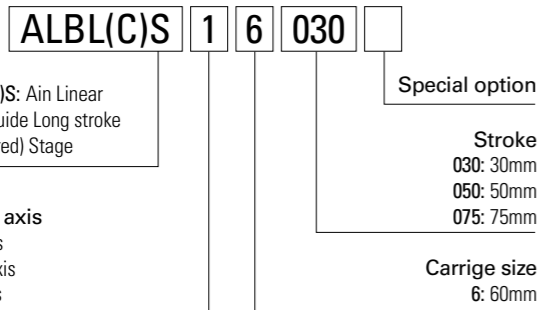
Diagram of connecting wires



ALBL(C)S1-630/650/675 type

Linear ball guide long stroke (Covered) type

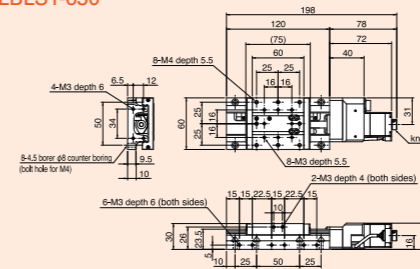
• Examples of model number formation



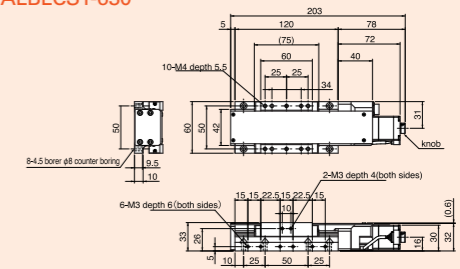
Specification	Model no.	ALBLS1-630	ALBLS1-650	ALBLS1-675
		ALBLCS1-630	ALBLCS1-650	ALBLCS1-675
Table dimension (mm)		60x60		
Stroke (mm)		30	50	75
Feed screw (Ball screw)		ø8 lead 1, ø8 lead 2	ø8 lead 1, ø8 lead 2	ø8 lead 1, ø8 lead 2
Travel guide		Linear ball guide		
Material		Stainless steel-electroless nickel plating		
Weight (Be covered upon)		1.28(1.34)kg	1.40(1.44)kg	1.54(1.60)kg
Resolution	Full/Half	2µm/1µm, 4µm/2µm	2µm/1µm, 4µm/2µm	2µm/1µm, 4µm/2µm
	Microstep	0.1µm(MS 1/20), 0.2µm(MS 1/20)	0.1µm(MS 1/20), 0.2µm(MS 1/20)	0.1µm(MS 1/20), 0.2µm(MS 1/20)
Max. speed		30mm/sec, 35mm/sec	30mm/sec, 35mm/sec	30mm/sec, 35mm/sec
Positioning for one direction		5µm		7µm
Repeated Positioning		±0.5µm		
Load capacity (kg)		12		
Moment rigidity		Pitching 0.05 / Yawing 0.05 / Rolling 0.05 ["/N-cm]		
Lost motion		1µm		
Backlash		1µm		
Straightness of motion		3µm		
Degree of parallelization		15µm		
Parallelization of motion		10µm		
Pitching/Yawing		20"/15"		
Sensor		Installed		

Note All products can be changed by customer order. please contact AIN for details.

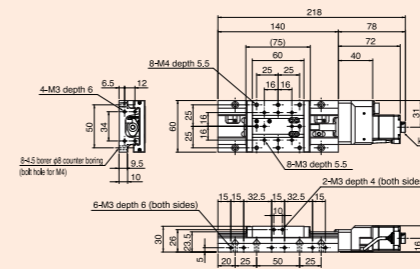
■ ALBLS1-630



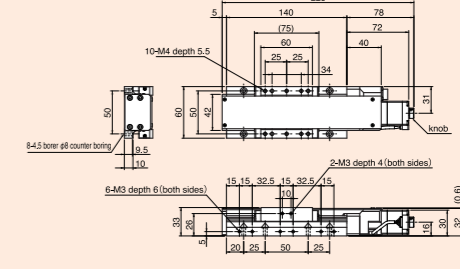
■ ALBLCS1-630



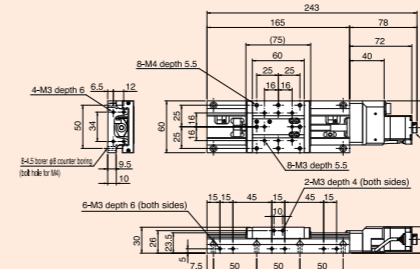
■ ALBLS1-650



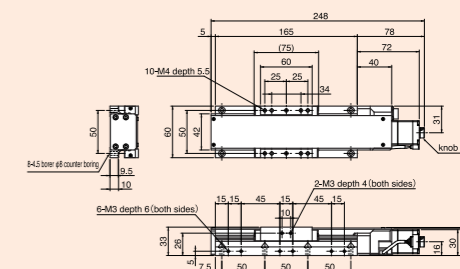
■ ALBLCS1-650



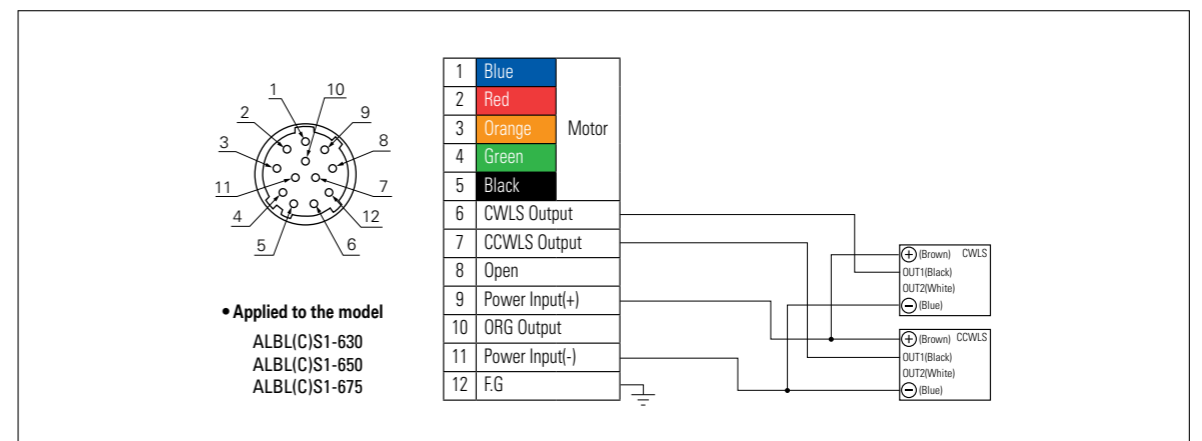
■ ALBLS1-675



■ ALBLCS1-675



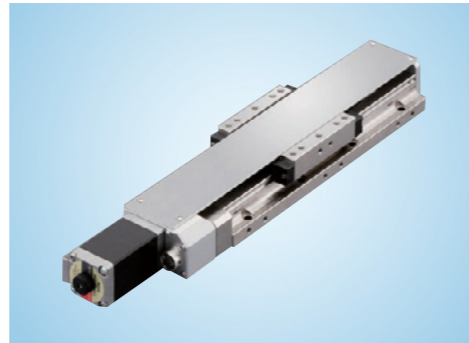
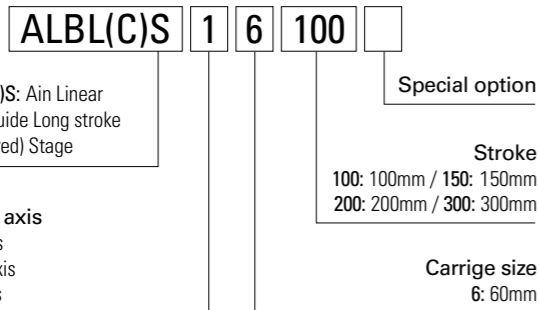
■ Diagram of connecting wires



ALBL(C)S1-6100/6150/6200/6300 type

Linear ball guide long stroke (Covered) type

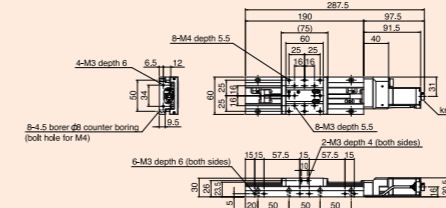
• Examples of model number formation



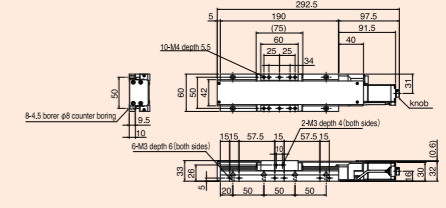
Specification	Model no.	ALBLS1-6100	ALBLS1-6150	ALBLS1-6200	ALBLS1-6300
		ALBLCS1-6100	ALBLCS1-6150	ALBLCS1-6200	ALBLCS1-6300
Table dimension (mm)		60x60			
Stroke (mm)		100	150	200	300
Feed screw		Ballscrew ø8, lead 2			
Travel guide		Linear ball guide			
Material		Stainless steel-electroless nickel plating			
Weight (Be covered upon)		1.8(1.86)kg	2.1(2.16)kg	2.42(2.48)kg	3.02(3.12)kg
Resolution	Full/Half	4µm/2µm			
	(Pulse) Microstep	0.2µm(MS 1/20)			
Max. speed		45mm/sec			
Positioning for one direction		10µm	15µm	15µm	25µm
Repeated Positioning		±0.5µm			
Load capacity (kg)		12			
Moment rigidity		Pitching 0.05 / Yawing 0.05 / Rolling 0.05 ["/N-cm]			
Lost motion		1µm			
Backlash		1µm			
Straightness of motion		5µm	5µm	7µm	7µm
Degree of parallelization		15µm			
Parallelization of motion		10µm	15µm	20µm	25µm
Pitching/Yawing		25"/20"	25"/20"	30"/20"	35"/20"
Sensor		Installed			

Note All products can be changed by customer order. please contact AIN for details.

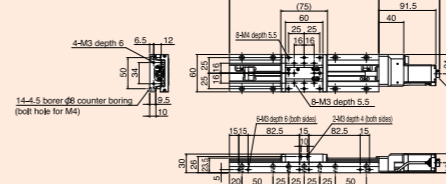
■ ALBLS1-6100



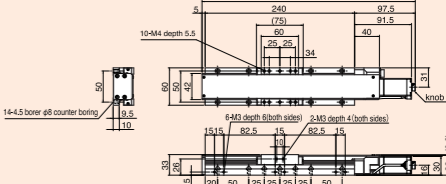
■ ALBLCS1-6100



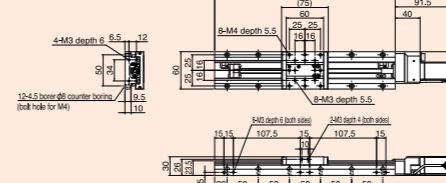
■ ALBLS1-6150



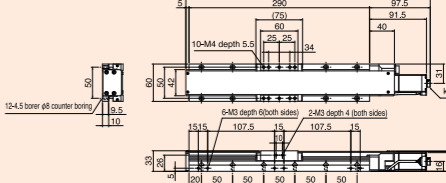
■ ALBLCS1-6150



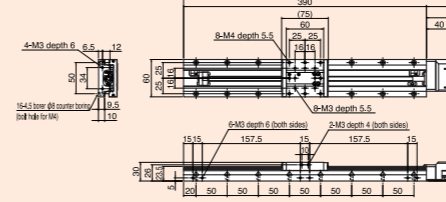
■ ALBLS1-6200



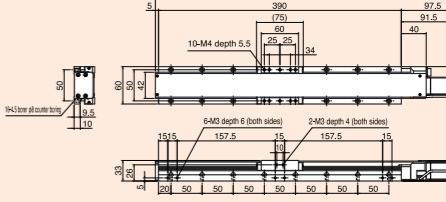
■ ALBLCS1-6200



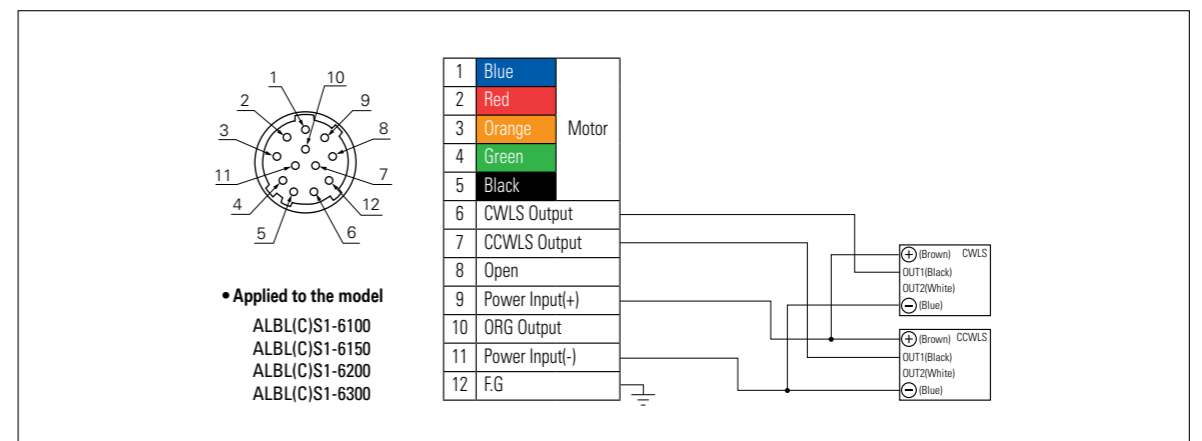
■ ALBLS1-6300



■ ALBLCS1-6300



■ Diagram of connecting wires



ALBSS1-413/513/615/715 type

Linear ball guide sensor type

Examples of model number formation

ALBSS **1** **4** **13**

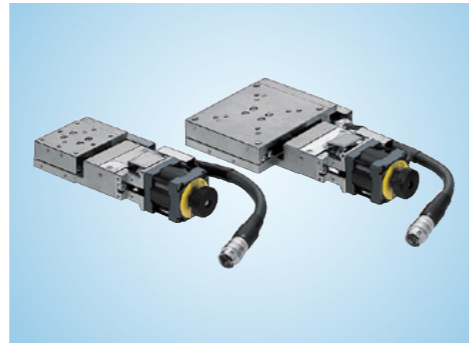
ALBSS: Ain Linear Ball guide Sensor Stage

Special option

Stroke
13: 13mm / 15: 15mm

No. of axis
1: X axis
2: XY axis
4: Z axis

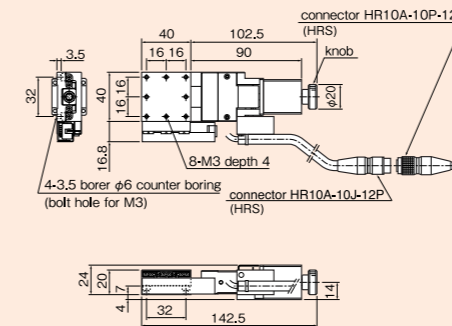
Carrige size
4: 40mm / 5: 50mm
6: 60mm / 7: 70mm



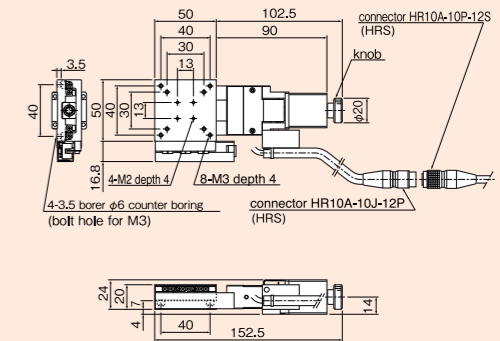
Specification / Model no.	ALBSS1-413	ALBSS1-513	ALBSS1-615	ALBSS1-715
Table dimension (mm)	40x40	50x50	60x60	70x70
Stroke (mm)	13		15	
Feed screw	Ballscrew ø6, lead 1			
Travel guide	Linear ball guide			
Material	Stainless steel-electroless nickel plating			
Weight (kg)	0.5	0.6	0.7	0.9
Resolution (Pulse)	2µm(Full)/1µm(Half)			
Max. speed	10mm/sec			
Positioning for one direction	6µm			
Repeated Positioning	±0.5µm			
Load capacity (kg)	10			
Moment rigidity	Pitching 0.22 / Yawing 0.17 / Rolling 0.12 ["/N-cm]	Pitching 0.14 / Yawing 0.10 / Rolling 0.06 ["/N-cm]	Pitching 0.08 / Yawing 0.07 / Rolling 0.03 ["/N-cm]	Pitching 0.03 / Yawing 0.03 / Rolling 0.01 ["/N-cm]
Lost motion	1µm			
Backlash	0.5µm			
Straightness of motion	1µm			
Degree of parallelization	15µm			
Parallelization of motion	5µm			
Pitching/Yawing	15"/10"			
Sensor	Installed			

Note All products can be changed by customer order. please contact AIN for details.

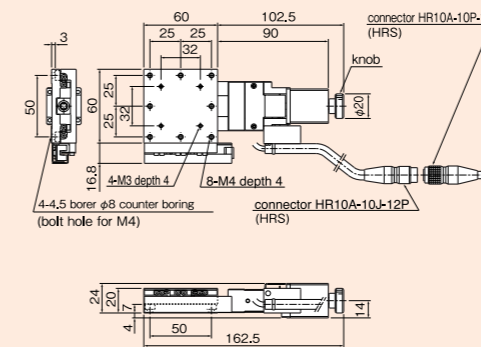
ALBSS1-413



ALBSS1-513



ALBSS1-615



ALBSS1-715

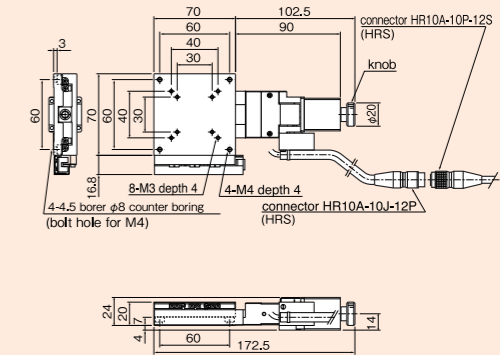
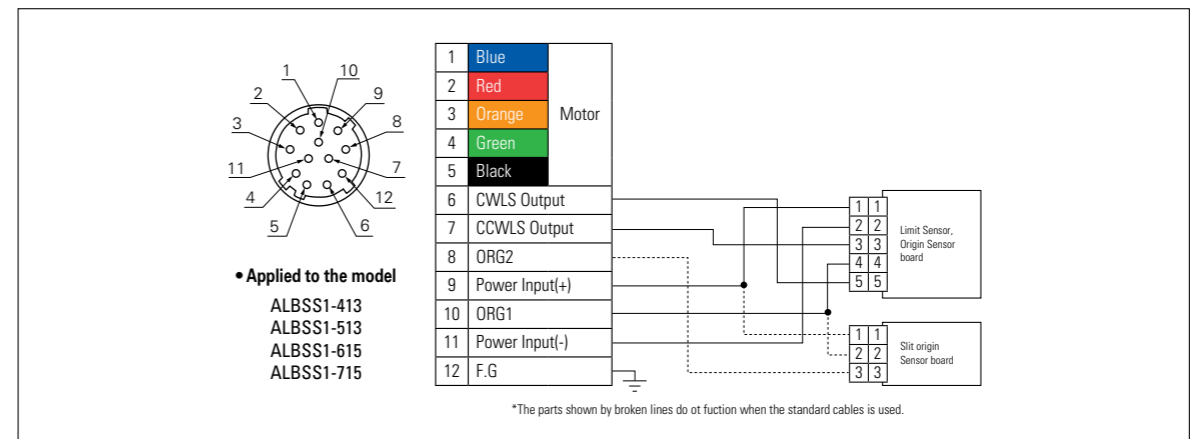


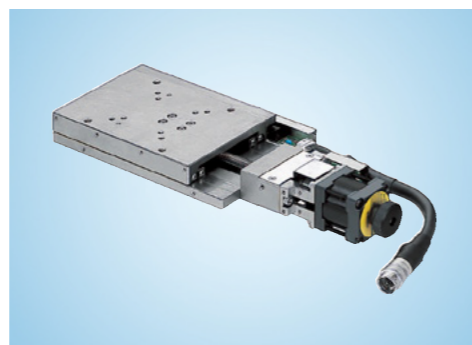
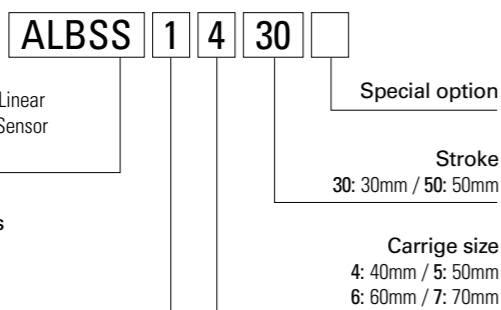
Diagram of connecting wires



ALBSS1-430/530/650/750 type

Linear ball guide sensor type

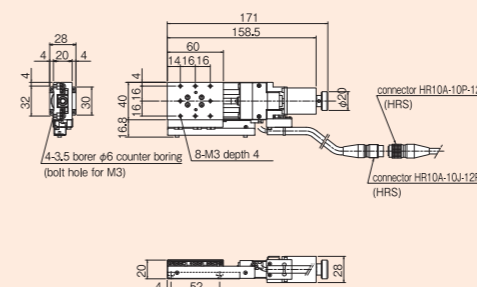
Examples of model number formation



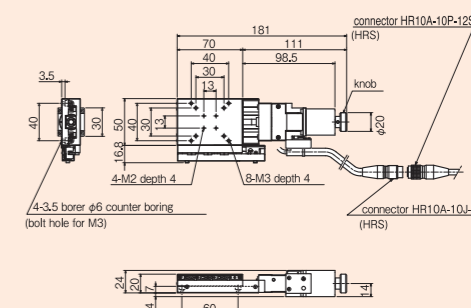
Specification	Model no.	ALBSS1-430	ALBSS1-530	ALBSS1-650	ALBSS1-750
Table dimension (mm)		40x40	50x50	60x60	70x70
Stroke (mm)		30		50	
Feed screw		Ballscrew ø6, lead 1			
Travel guide		Linear ball guide			
Material		Stainless steel-electroless nickel plating			
Weight (kg)		0.6	0.8	1.1	1.2
Resolution (Pulse)		2µm(Full)/1µm(Half)			
Max. speed		10mm/sec			
Positioning for one direction		12µm			
Repeated Positioning		±0.5µm or less			
Load capacity (kg)		10			
Moment rigidity		Pitching 0.24 / Yawing 0.18 / Rolling 0.26 ["/N-cm]	Pitching 0.12 / Yawing 0.13 / Rolling 0.11 ["/N-cm]	Pitching 0.05 / Yawing 0.05 / Rolling 0.05 ["/N-cm]	Pitching 0.03 / Yawing 0.03 / Rolling 0.03 ["/N-cm]
Lost motion		1µm			
Backlash		0.5µm			
Straightness of motion		2µm			
Degree of parallelization		15µm			
Parallelization of motion		10µm			
Pitching/Yawing		20"/15"			
Sensor		Installed			

Note All products can be changed by customer order. please contact AIN for details.

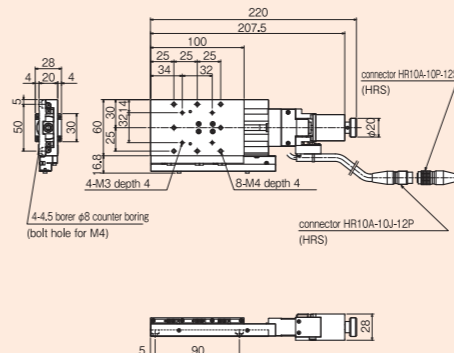
ALBSS1-430



ALBSS1-530



ALBSS1-650



ALBSS1-750

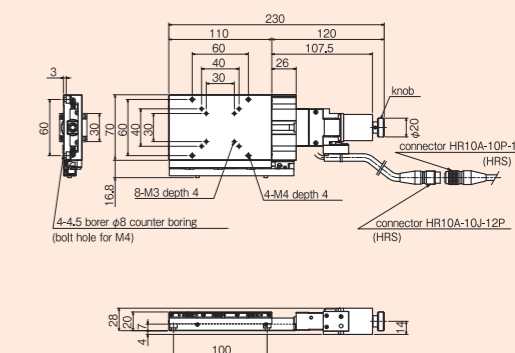
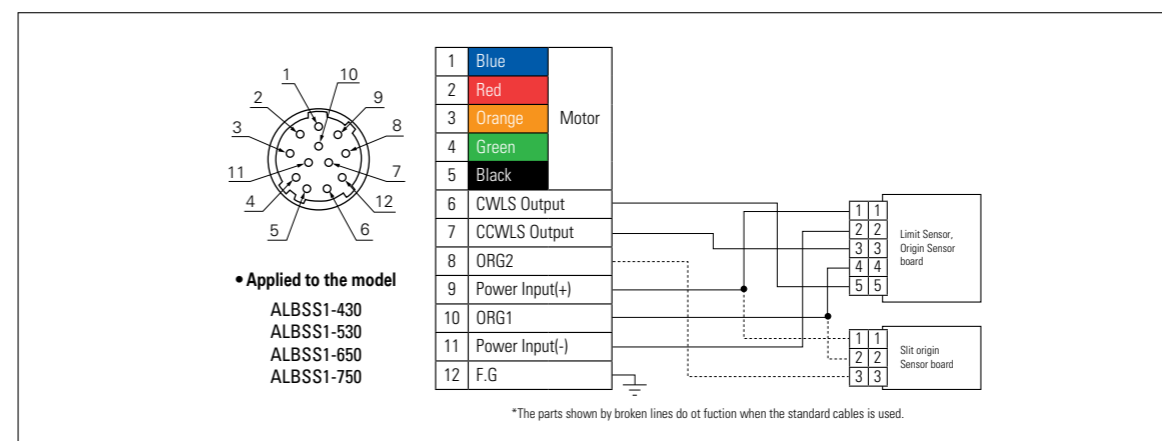


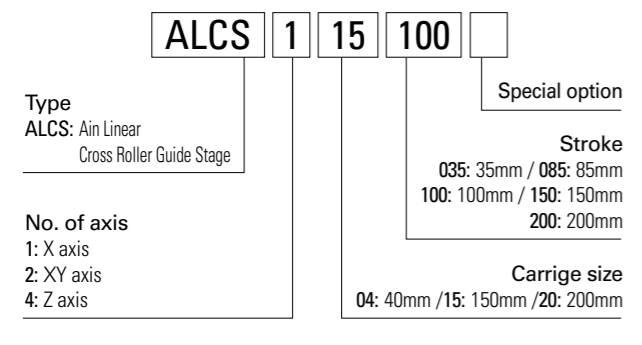
Diagram of connecting wires



ALCS1-1510/1515/1520/2020 type

Cross Roller Guide type

Examples of model number formation



Specification	Model no.	ALCS1-1510	ALCS1-1515	ALCS1-1520	ALCS1-2020
Table dimension (mm)		150x220	150x270	150x320	200x320
Stroke (mm)		100	150	200	200
Travel guide		Ball screw ϕ 12, Lead5, Cross roller guide			B/S ϕ 15, L5, C/R
Resolution (mm)		0.01/Pulse(Full step)			
Max. speed		50mm/sec[5kHz]	50mm/sec[5kHz]	50mm/sec[5kHz]	50mm/sec[5kHz]
Accuracy		10 μ m	10 μ m	12 μ m	12 μ m
Uni-repeatability		\pm 3 μ m	\pm 3 μ m	\pm 3 μ m	\pm 3 μ m
Bi-repeatability		\pm 5 μ m	\pm 5 μ m	\pm 5 μ m	\pm 5 μ m
Pitching		70°	70°	80°	80°
Yawing		50°	50°	60°	60°
Flatness (mm)		0.03	0.03	0.03	0.03
Running parallelism (mm)		0.02	0.02	0.03	0.03
Straightness (mm)		0.008	0.008	0.001	0.001
Load capacity (kg)		25	25	25	25
Material		Aluminum(Option. SUS)			
Weight (kg)		9	12	15	20
Motor model		PK-566-NB(5P STEP)			
Drive model		DFC5114-P			
Sensor		1 Home sensor, 2 Limit sensor			
Connector spec.		SRCN6A21-16P			

Note All products can be changed by customer order. please contact AIN for details.

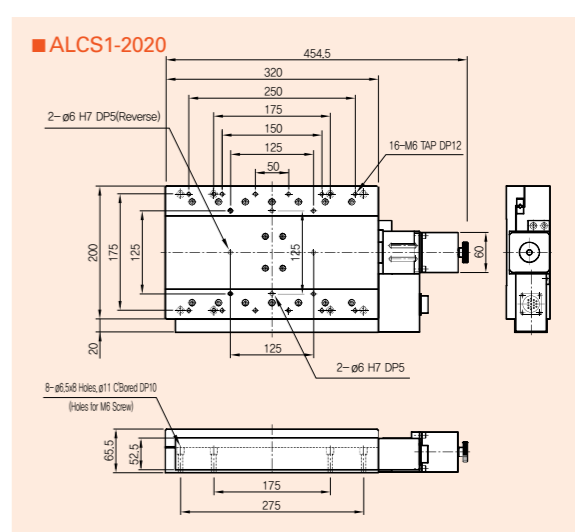
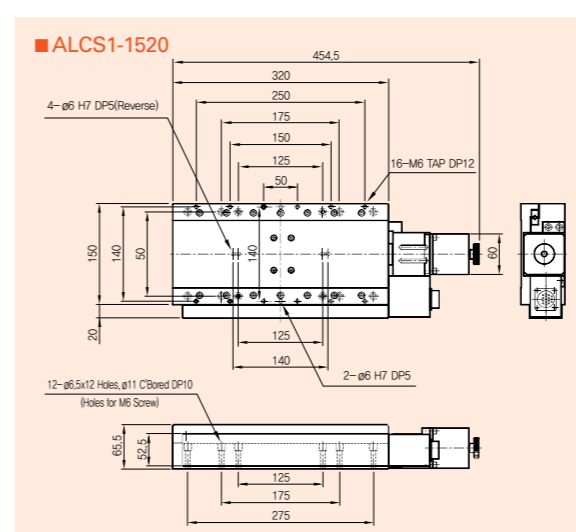
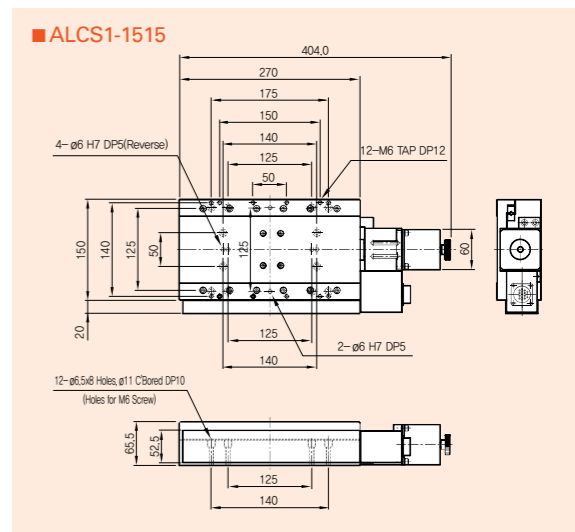
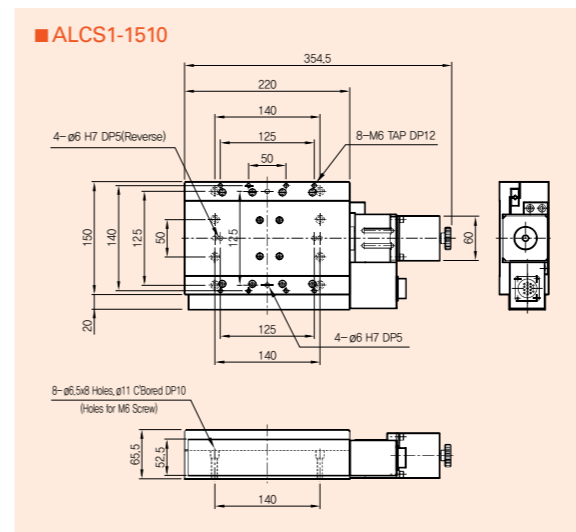
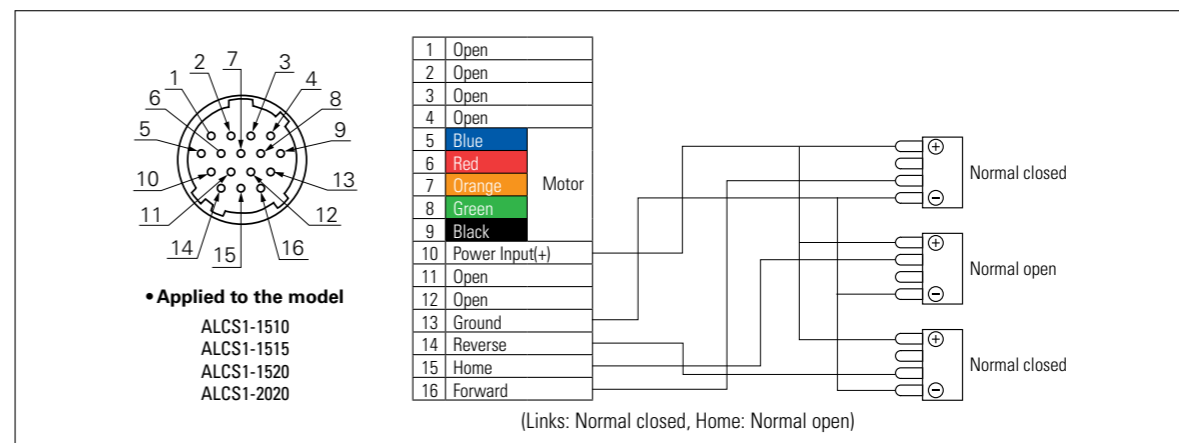


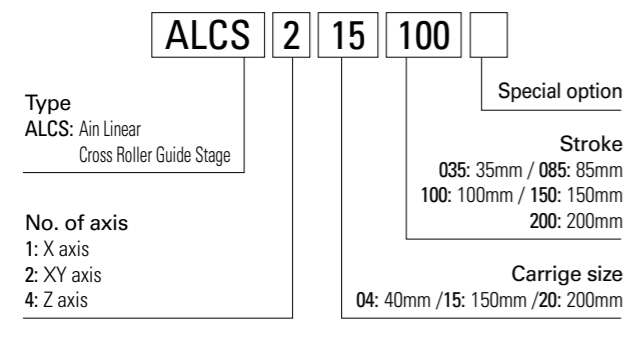
Diagram of connecting wires



ALCS2-1510/1515/1520/2020 type

Cross Roller Guide type

Examples of model number formation



Model no.	ALCS2-1510	ALCS2-1515	ALCS2-1520	ALCS2-2020
Table dimension (mm)	150x220	150x270	150x320	200x320
Stroke (mm)	100	150	200	200
Travel guide	Ball screw ϕ 12, Lead5, Cross roller guide			B/S ϕ 15, L5, C/R
Resolution (mm)	0.01/Pulse(Full step)			
Max. speed	50mm/sec[5kHz]	50mm/sec[5kHz]	50mm/sec[5kHz]	50mm/sec[5kHz]
Accuracy	10 μ m	10 μ m	12 μ m	12 μ m
Uni-repeatability	\pm 3 μ m	\pm 3 μ m	\pm 3 μ m	\pm 3 μ m
Bi-repeatability	\pm 5 μ m	\pm 5 μ m	\pm 5 μ m	\pm 5 μ m
Pitching	70°	70°	80°	80°
Yawing	50°	50°	60°	60°
Flatness (mm)	0.06	0.06	0.06	0.06
Running parallelism (mm)	0.04	0.04	0.04	0.04
Straightness (mm)	0.008	0.008	0.01	0.01
Load capacity (kg)	16	13	10	5
Material	Aluminum(Option. SUS)			
Weight (kg)	18	24	30	40
Motor model	PK-566-NB(5P STEP)			
Drive model	DFC5114-P			
Sensor	1 Home sensor, 2 Limit sensor			
Connector spec.	SRCN6A21-16P			

Note All products can be changed by customer order. please contact AIN for details.

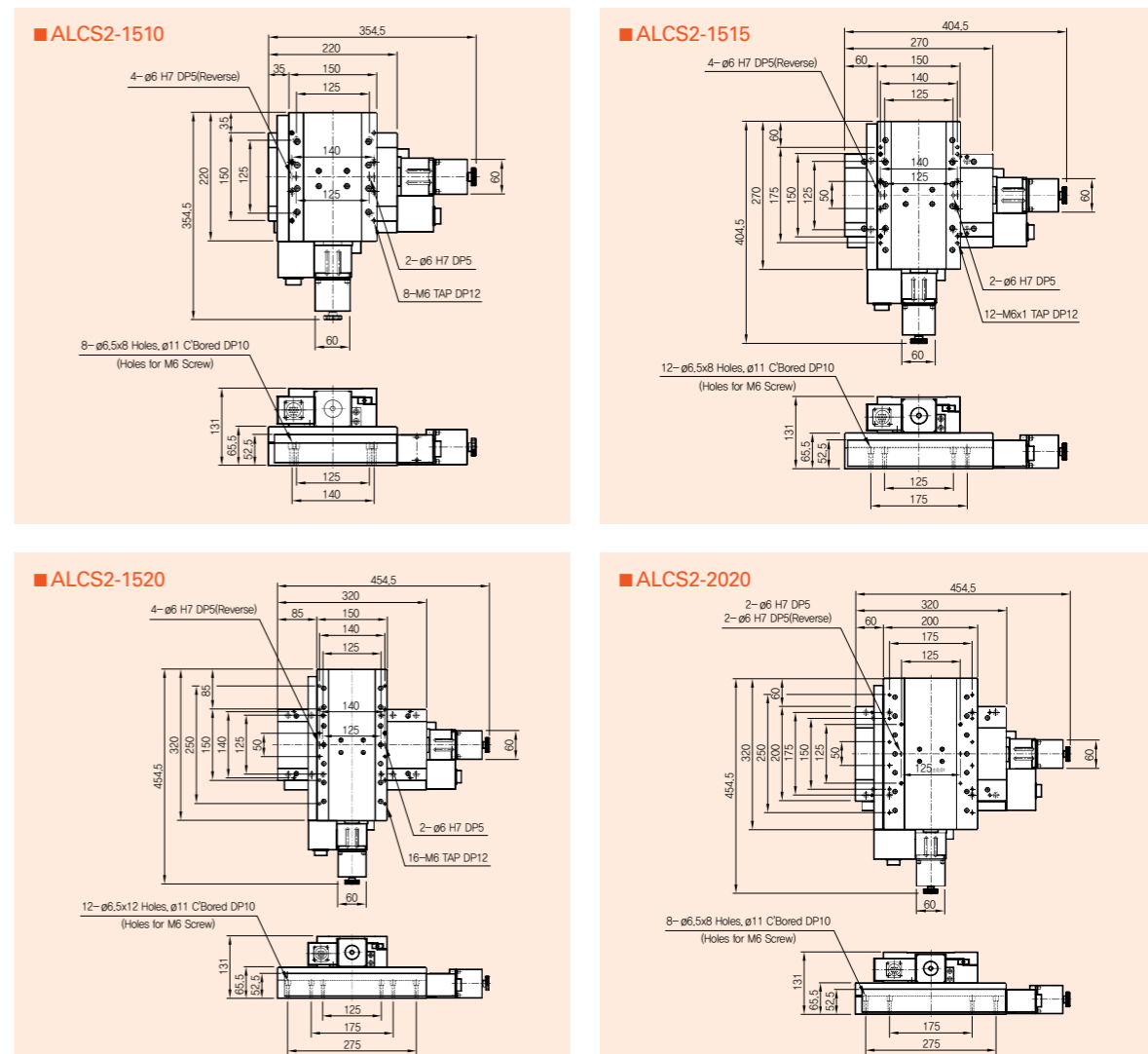
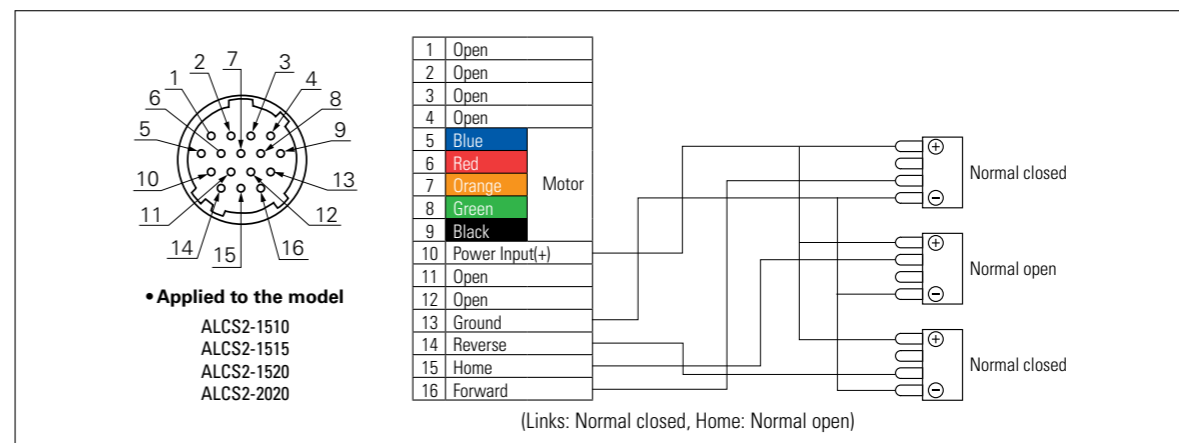


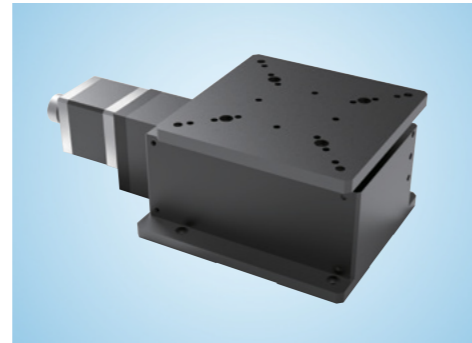
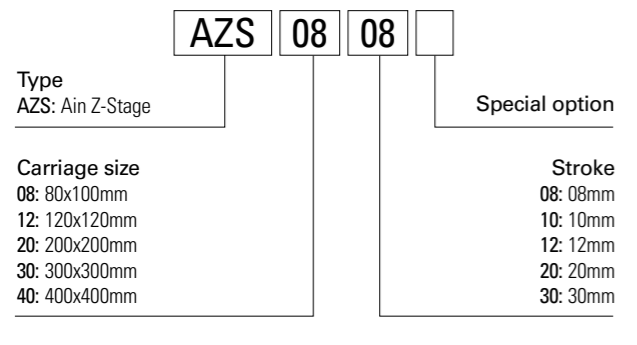
Diagram of connecting wires



AZS-0808/1212/2020/3030/4040 type

Cross Roller Guide type

Examples of model number formation



Specification	Model no.	AZS-0808	AZS-1212	AZS-2020	AZS-3030	AZS-4040
Table dimension (mm)		80x100	120x120	200x200	300x300	400x400
Stroke (mm)		10	12	20	30	40
Travel guide		B/S ø6, L1, C/R	B/S ø8, L1, C/R	B/S ø12, L5, C/R	B/S ø15, L5, C/R	B/S ø20, L5, C/R
Resolution (mm)		0.0036/Pulse(Full step)				
Angle of shape		20°				
Max. speed		3.6mm/sec[5kHz]	50mm/sec[5kHz]	18mm/sec[5kHz]		
Accuracy		5µm	5µm	10µm	10µm	10µm
Uni-repeatability		±1µm	±1µm	±1.5µm	±2µm	±2µm
Bi-repeatability		±2µm	±2µm	±3µm	±4µm	±4µm
Flatness (mm)		0.03	0.03	0.03	0.03	0.03
Straightness (mm)		0.01	0.01	0.01	0.01	0.01
Load capacity (kg)		10	20	25	27	35
Material		Aluminum(Option. SUS)				
Weight (kg)		2	3.6	10	30	45
Motor model		PK-545-NB(5P STEP)		PK-566-NB(5P STEP)	PK-596-NB(5P STEP)	
Drive model		DFC5107-P		DFC5114-P	DFC5128-T	
Sensor		1 Home sensor, 2 Limit sensor				
Connector spec.		HR-10A-10J-12P(HRS)		SRCN6A21-16P		

Note All products can be changed by customer order. please contact AIN for details.

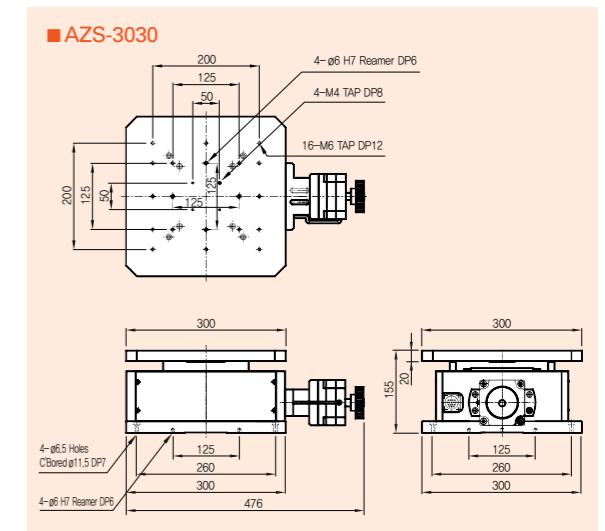
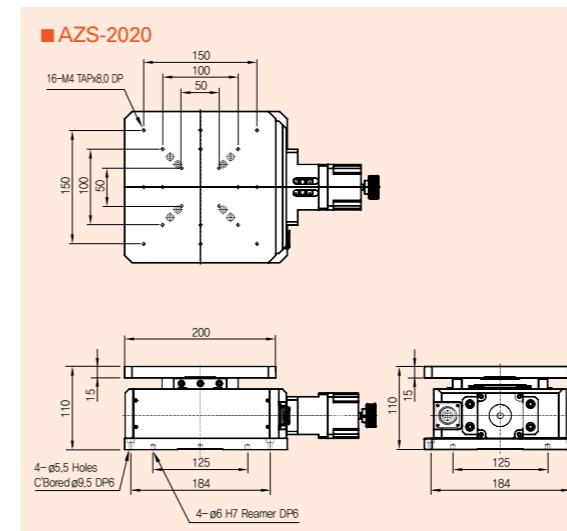
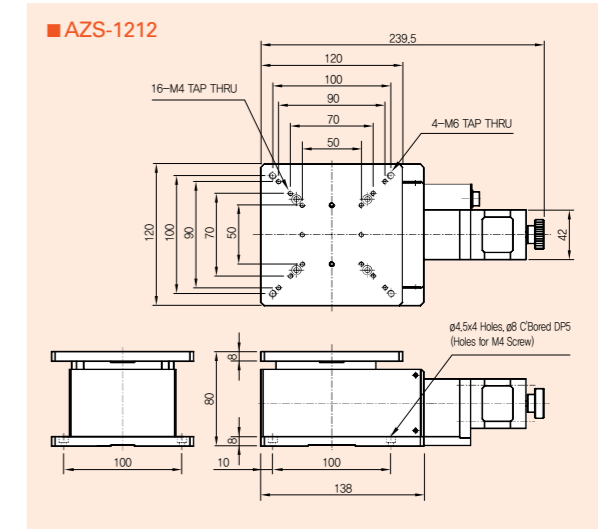
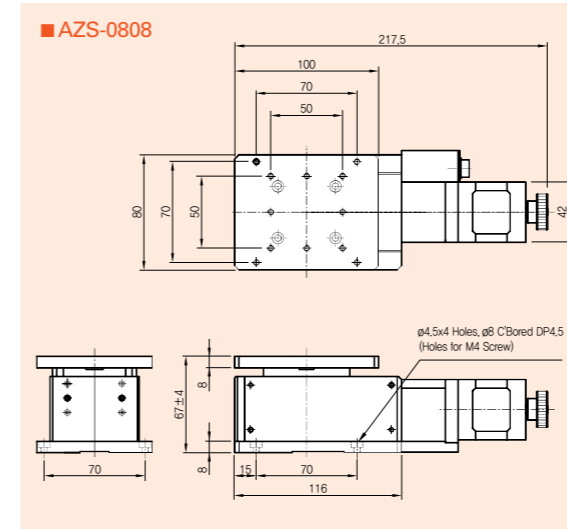
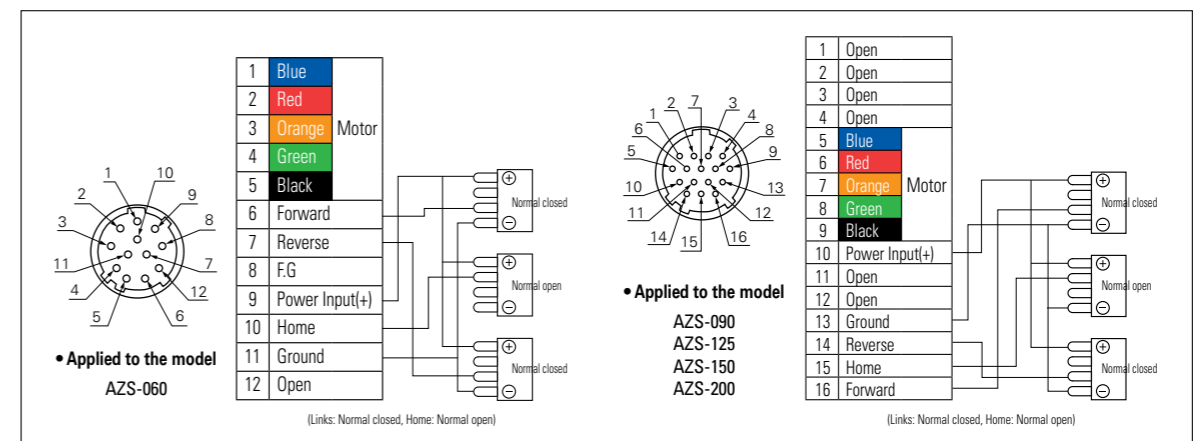


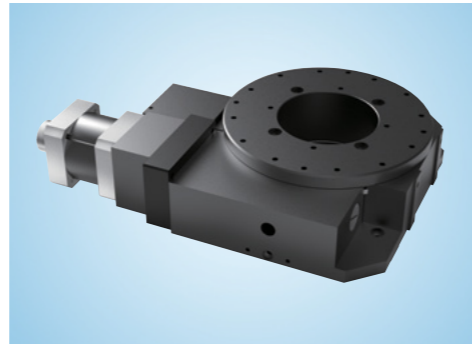
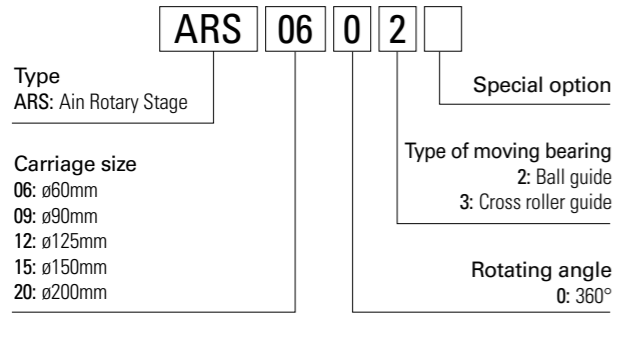
Diagram of connecting wires



ARS-060/090/125/150/200 type

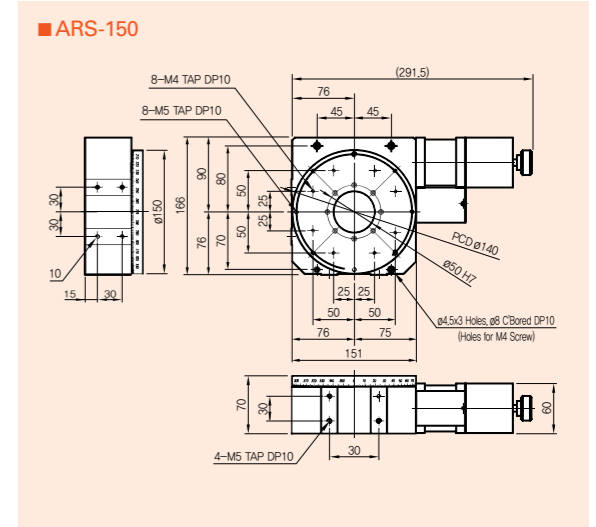
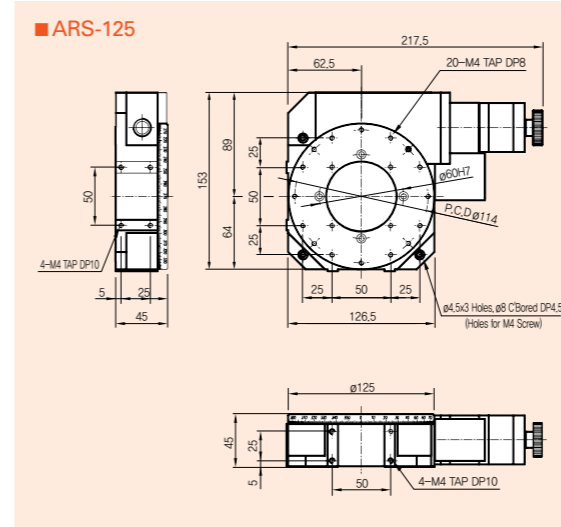
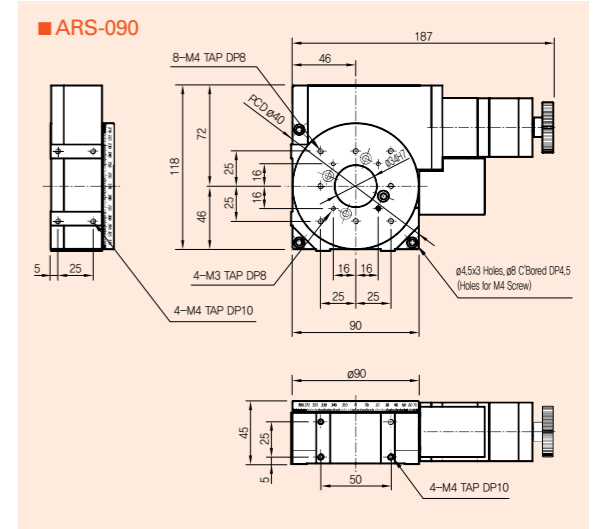
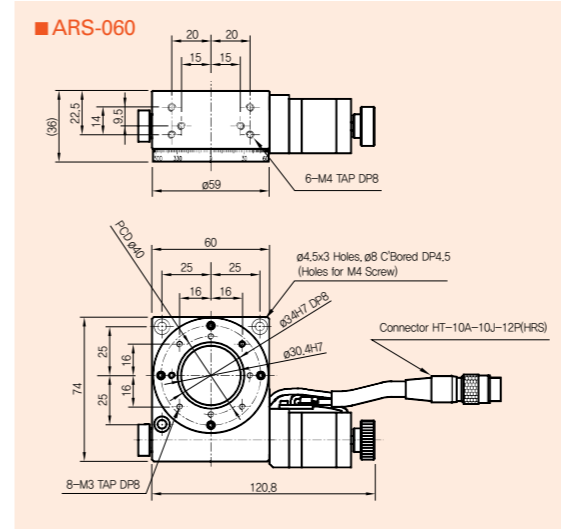
Worm gear type

• Examples of model number formation

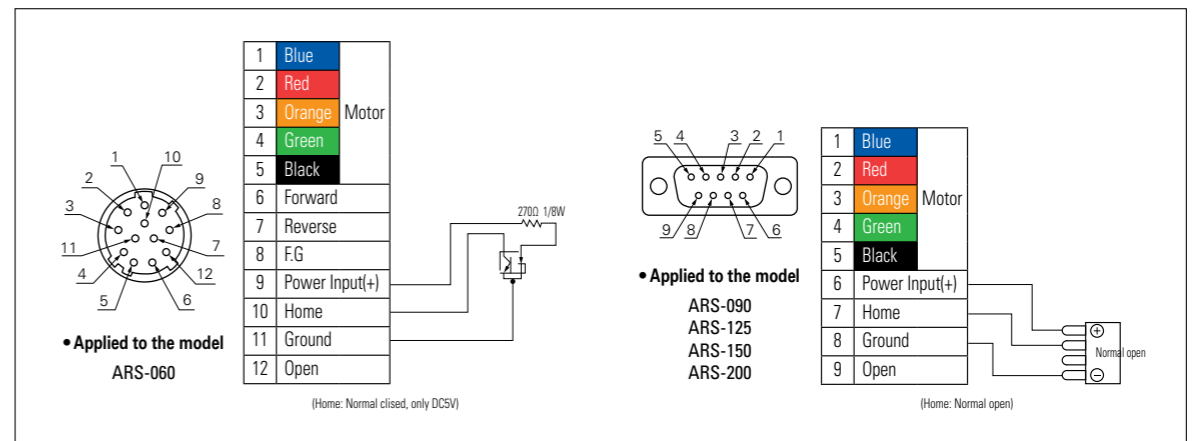


Specification	Model no.	ARS-060	ARS-090	ARS-125	ARS-150	ARS-200
Table dimension (mm)		ø60	ø90	ø125	ø150	ø200
Stroke (mm)		360°				
Resolution (mm)		0.004°/Pulse(Full step)				
Travel mechanism		Worm gear, 1/180				
Max. speed		20°/sec[5kHz]				
Accuracy		0.05°	0.025°	0.025°	0.025°	0.05°
Repeatability		0.02°	0.015°	0.015°	0.015°	0.025°
Flatness (mm)		0.05	0.02	0.02	0.02	0.03
Roundness (mm)		0.02	0.01	0.01	0.015	0.02
Webbing (mm)		0.02	0.01	0.01	0.015	0.02
Load capacity (kg)		3	10	15	20	30
Material		Aluminum	Steel+Aluminum			
Weight (kg)		0.6	2.4	3	6	12
Motor model		PMM33BH2-C49(5P STEP)	PK545NB(5P STEP)		PK566NB(5P STEP)	
Drive model		DFC5107-P			DFC5114-P	
Sensor		Only DC5V	1 Home Sensor			
Connector spec.		HR-10A-10J-12P(HRS)	D-SUB-9P(Female)			

Note All products can be changed by customer order. please contact AIN for details.



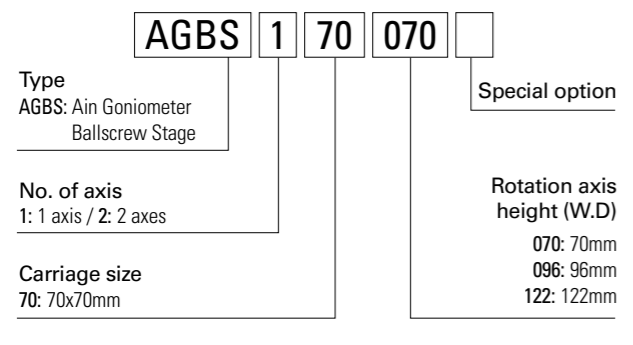
■ Diagram of connecting wires



AGBS1-70 / AGBS2-70 type

Ballscrew type

Examples of model number formation



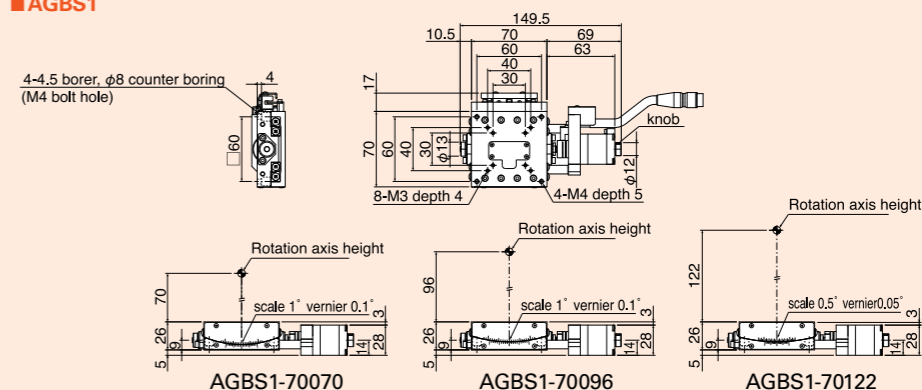
Model no.	AGBS1-70070	AGBS1-70096	AGBS1-70122	AGBS2-70070	AGBS2-70096
No. of axes	1 axis			2 axes	
Table dimension (mm)	70x70				
Stroke (Upper/Lower)	±5°	±4°	±3°	±5°/±4°	±4°/±3°
Travel mechanism	Ballscrew ø6, Lead 1				
Travel guide	Crossed roller guide				
Height of stage (mm)	26±0.2	26±0.2	26±0.2	52±0.4	52±0.4
Rotation axis height (mm)	70±0.2	96±0.2	122±0.2	70±0.4	96±0.4
Accuracy (mm) ⁽¹⁾	0.01	0.01	0.01	-	-
Resolution (Upper/Lower)	≠0.0015°	≠0.0011°	≠0.0009°	≠0.0015°/≠0.0011°	≠0.0011°/≠0.0009°
Max. speed (Upper/Lower) ⁽²⁾	23°/sec[15kHz]	17°/sec[15kHz]	13°/sec[15kHz]	23°/s[15kHz]/17°/s[15kHz]	17°/s[15kHz]/13°/s[15kHz]
Repeated positioning	±0.003°	±0.003°	±0.003°	±0.003°	±0.003°
Load capacity (kgf)	5	5	5	4	4
Moment rigidity	Pitching 0.28 / Yawing 0.06 / Rolling 0.06 ["/N-cm]			Pitching 0.34 / Yawing 0.12 / Rolling 0.34 ["/N-cm]	
Lost motion	0.003°	0.003°	0.003°	0.003°	0.003°
Material	Aluminum-white almite processing				
Weight (kg)	0.7	0.7	0.7	1.4	1.4
Sensor	Installed				

Note (1) Accuracy of fluctuation of rotating center.

(2) Max. speed is the theoretical velocity driven by 15kHz to full stroke travel pulse.

(3) All products can be changed by customer order. please contact AIN for details.

AGBS1



AGBS2

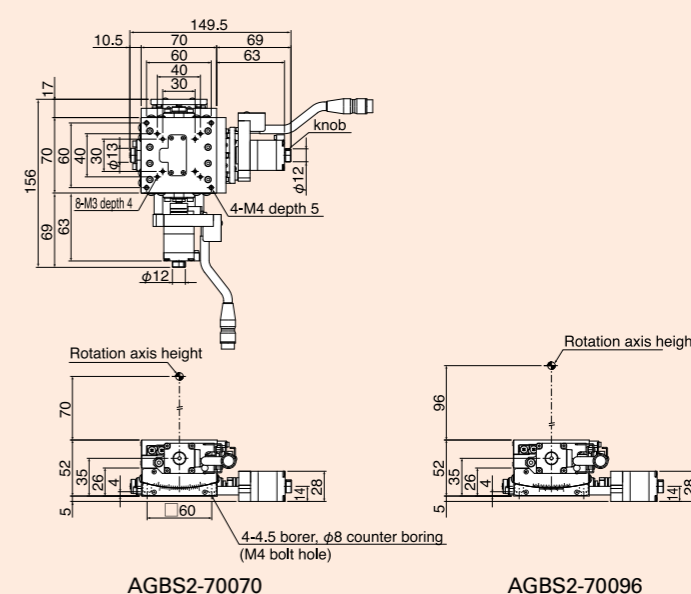
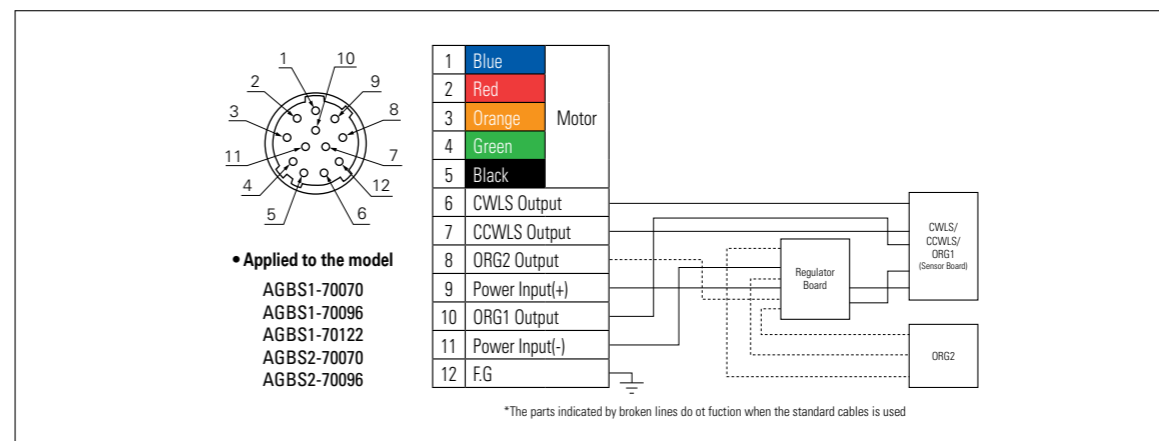


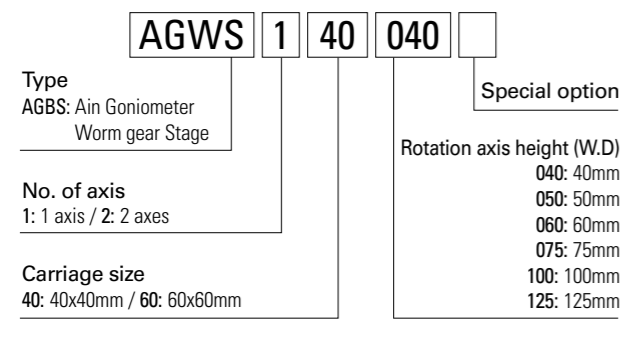
Diagram of connecting wires



AGWS1-40/60 type

Worm gear type

Examples of model number formation



Model no.	AGWS1-40040	AGWS1-40060	AGWS1-60050	AGWS1-60075	AGWS1-60100	AGWS1-60125
No. of axes	1 axis					
Table dimension (mm)	40x40		60x60			
Stroke (Upper/Lower)	±8°	±6°	±10°	±8°	±6°	±5°
Travel mechanism	Upper: Worm gear (1/240) Lower: Worm gear (1/240)	Upper: Worm gear (1/240) Lower: Worm gear (1/240)	Upper: Worm gear (1/160) Lower: Worm gear (1/160)	Upper: Worm gear (1/225) Lower: Worm gear (1/225)	Upper: Worm gear (1/292) Lower: Worm gear (1/292)	Upper: Worm gear (1/360) Lower: Worm gear (1/360)
Travel guide	Crossed roller guide					
Height of stage (mm)	20±0.2	20±0.2	25±0.2	25±0.2	25±0.2	25±0.2
Rotation axis height (mm)	40±0.2	60±0.2	50±0.2	75±0.2	100±0.2	125±0.2
Accuracy (mm) ⁽¹⁾	0.01	0.01	0.01	0.01	0.01	0.01
Resolution (Pulse)	Upper at Full: ≒0.003° Lower at Full: ≒0.003°	Upper at Full: ≒0.0045° Lower at Full: ≒0.0045°	Upper at Full: ≒0.0032° Lower at Full: ≒0.0032°	Upper at Full: ≒0.0025° Lower at Full: ≒0.0025°	Upper at Full: ≒0.002° Lower at Full: ≒0.002°	Upper at Full: ≒0.003° Lower at Full: ≒0.003°
Max. speed	Upper: 15°/sec [5kHz] Lower: 15°/sec [5kHz]	Upper: 22.5°/sec [5kHz] Lower: 22.5°/sec [5kHz]	Upper: 16°/sec [5kHz] Lower: 16°/sec [5kHz]	Upper: 12.5°/sec [5kHz] Lower: 12.5°/sec [5kHz]	Upper: 10°/sec [5kHz] Lower: 10°/sec [5kHz]	Upper: 15°/sec [5kHz] Lower: 15°/sec [5kHz]
Repeated positioning	±0.003°	±0.003°	±0.003°	±0.003°	±0.003°	±0.003°
Load capacity (kgf)	3	3	5	5	5	5
Moment rigidity	Pitching 1.30 / Yawing 1.16 / Rolling 0.27 ["/N-cm]		Pitching 0.30 / Yawing 0.10 / Rolling 0.11 ["/N-cm]			
Lost motion	0.01°	0.01°	0.01°	0.01°	0.01°	0.01°
Material	⁽²⁾		Aluminum-black almite processing			
Weight (kg)	0.4	0.4	0.5	0.5	0.5	0.5
Sensor	Installed					

Note (1) Accuracy of fluctuation of rotating center. (mm)
 (2) Aluminum-black almite processing, brass-black coating finish.
 (3) All products can be changed by customer order. please contact AIN for details.

AGWS1-40

AGWS1-60

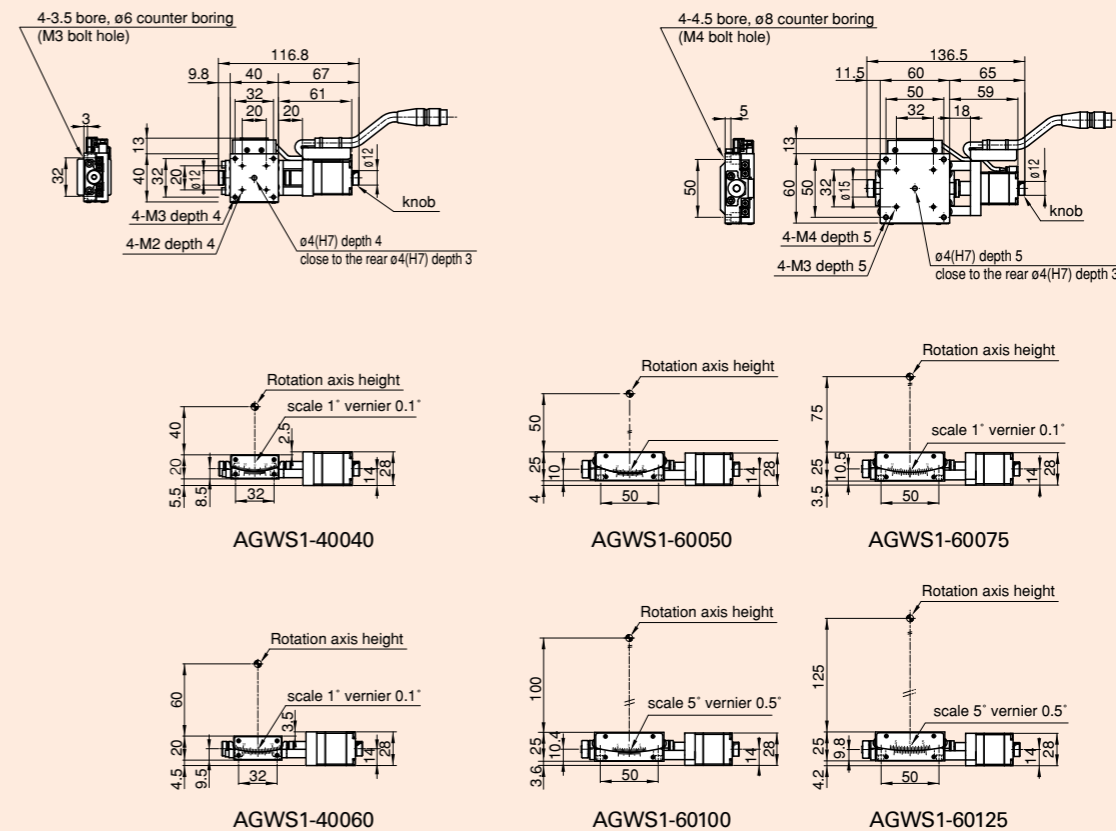
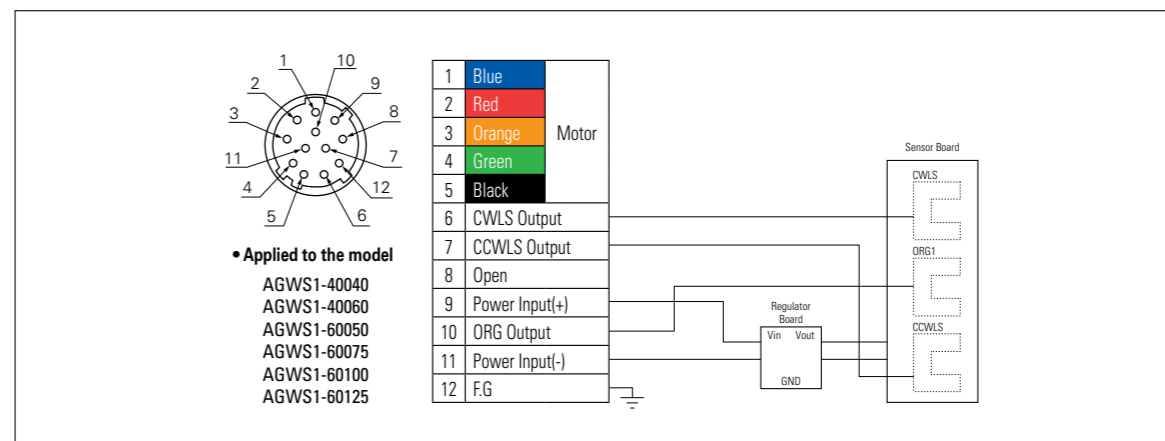


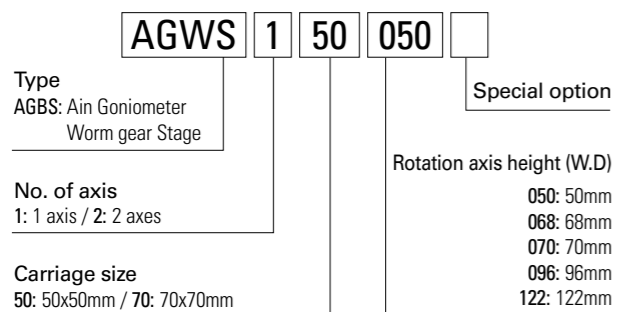
Diagram of connecting wires



AGWS1-50/70 type

Worm gear type

Examples of model number formation

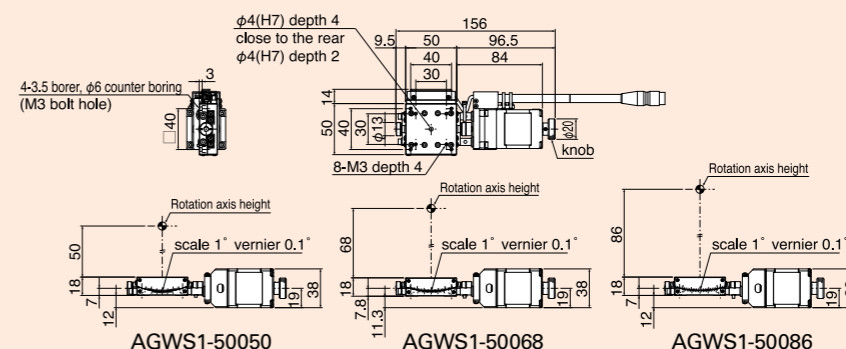


Model no.	AGWS1-50050	AGWS1-50068	AGWS1-50086	AGWS1-70070	AGWS1-70096	AGWS1-70122
No. of axes	1 axis					
Table dimension (mm)	50x50			70x70		
Stroke (Upper/Lower)	±10°	±8°	±6°	±9°	±7°	±5°
Travel mechanism	Worm gear (1/231)	Worm gear (1/300)	Worm gear (1/375)	Worm gear (1/235)	Worm gear (1/301)	Worm gear (1/375)
Travel guide	Crossed roller guide					
Height of stage (mm)	18±0.2	18±0.2	18±0.2	26±0.2	26±0.2	26±0.2
Rotation axis height (mm)	50±0.2	68±0.2	86±0.2	70±0.2	96±0.2	122±0.2
Accuracy (mm) ⁽¹⁾	0.01	0.01	0.01	0.01	0.01	0.01
Resolution (Pulse)	≒0.00156°	≒0.0012°	≒0.00096°	≒0.00153°	≒0.0012°	≒0.00096°
Max. speed	7.8°/sec [5kHz]	6°/sec [5kHz]	4.8°/sec [5kHz]	7.6°/sec [5kHz]	6°/sec [5kHz]	4.8°/sec [5kHz]
Repeated positioning	±0.005°	±0.005°	±0.005°	±0.003°	±0.003°	±0.003°
Load capacity (kgf)	3	3	3	5	5	5
Moment rigidity	Pitching 0.4 / Yawing 0.16 / Rolling 0.23 ["/N-cm]			Pitching 0.65 / Yawing 0.32 / Rolling 0.65 ["/N-cm]		
Lost motion	0.01°	0.01°	0.01°	0.06°	0.06°	0.06°
Material	Aluminum-black almite processing, brass-nickel chrome plating			Aluminum-white almite processing		
Weight (kg)	0.8	0.8	0.8	1.0	1.0	1.0
Sensor	Installed					

Note (1) Accuracy of fluctuation of rotating center. (mm)

(2) All products can be changed by customer order. please contact AIN for details.

AGWS1-50



AGWS1-70

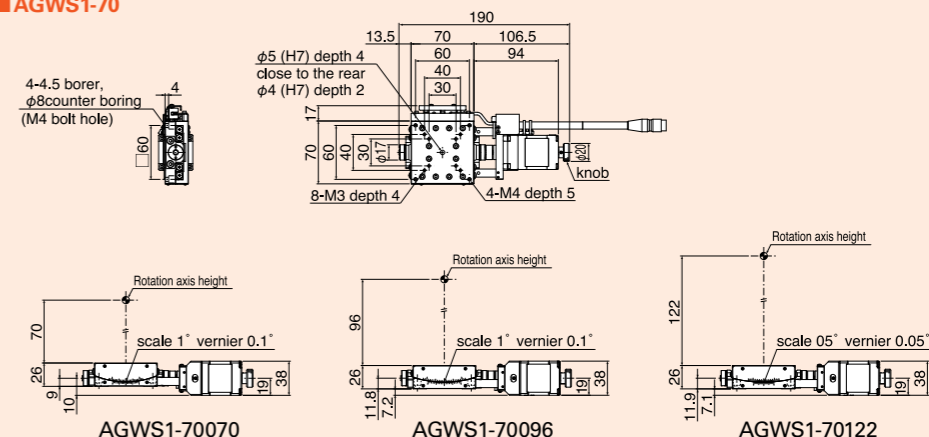
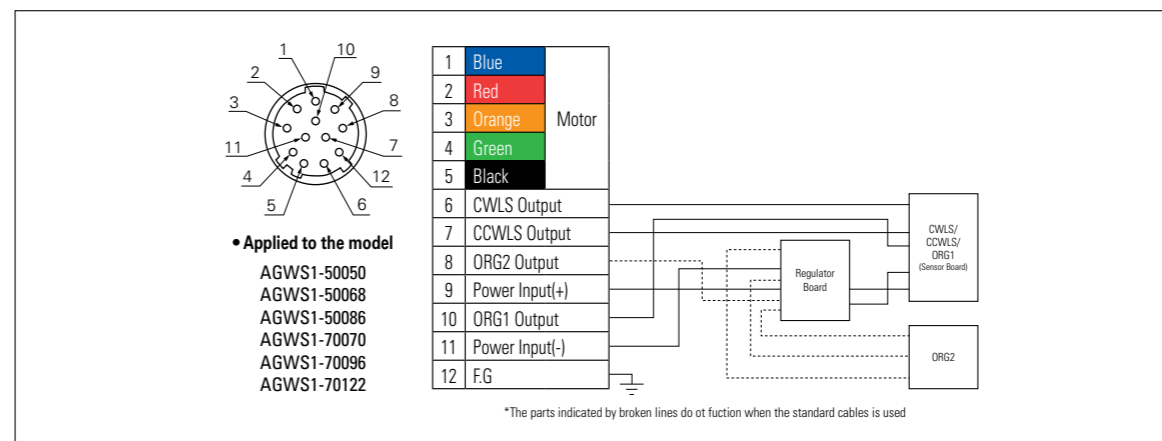


Diagram of connecting wires



AGWS2-40/60 type

Worm gear type

Examples of model number formation

AGWS 2 40 040

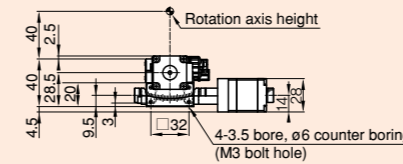
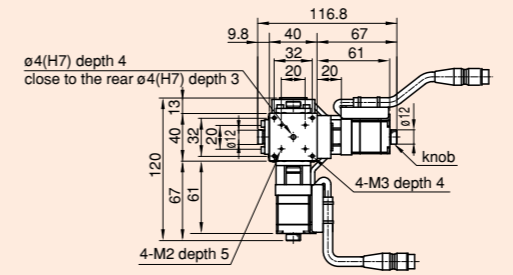
Type	AGBS: Ain Goniometer Worm gear Stage	Special option
No. of axis	1: 1 axis / 2: 2 axes	Rotation axis height (W.D)
Carriage size	40: 40x40mm / 60: 60x60mm	040: 40mm 050: 50mm 075: 75mm 100: 100mm



Model no.	AGWS2-40040	AGWS2-60050	AGWS2-60075	AGWS2-60100
No. of axes	2 axes			
Table dimension (mm)	40x40	60x60		
Stroke (Upper/Lower)	±8°/±6°	±10°/±8°	±8°/±6°	±6°/±5°
Travel mechanism	Worm gear(1/240)	Worm gear(1/160)	Worm gear(1/225)	Worm gear(1/292)
Upper / Lower		Worm gear(1/225)	Worm gear(1/292)	Worm gear(1/360)
Travel guide	Crossed roller guide			
Height of stage (mm)	40±0.4	50±0.4	50±0.4	50±0.4
Rotation axis height (mm)	40±0.4	50±0.4	75±0.4	100±0.4
Accuracy (mm) ⁽¹⁾	-	-	-	-
Resolution (Pulse)	≒0.003°	≒0.0045°	≒0.0032°	≒0.0025°
Upper at Full / Lower at Full		≒0.0032°	≒0.0025°	≒0.002°
Max. speed	15°/sec[5kHz]	22.5°/sec[5kHz]	16°/sec[5kHz]	12.5°/sec[5kHz]
Upper / Lower		16°/sec[5kHz]	12.5°/sec[5kHz]	10°/sec[5kHz]
Repeated positioning	±0.005°	±0.005°	±0.005°	±0.005°
Load capacity (kgf)	2.5	4.5	4.5	4.5
Moment rigidity	P 1.57 / Y 2.32 / R 1.57 ["/N-cm]	Pitching 0.41 / Yawing 0.20 / Rolling 0.41 ["/N-cm]		
Lost motion	0.01°	0.01°	0.01°	0.01°
Material	⁽²⁾	Aluminum-black almite processing		
Weight (kg)	0.8	1.0	1.4	1.4
Sensor	Installed			

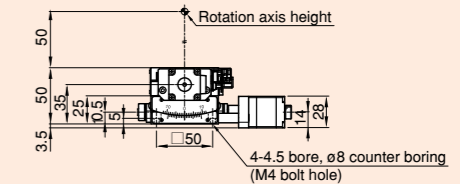
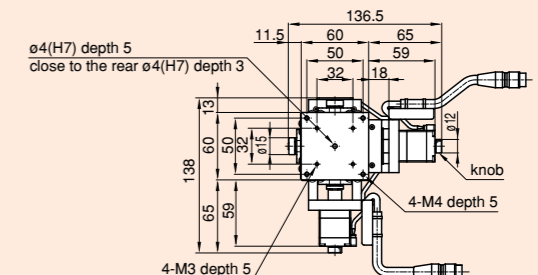
Note (1) Accuracy of fluctuation of rotating center. (mm)
 (2) Aluminum-black almite processing, Brass-black coating finish.
 (3) All products can be changed by customer order. please contact AIN for details.

AGWS2-40

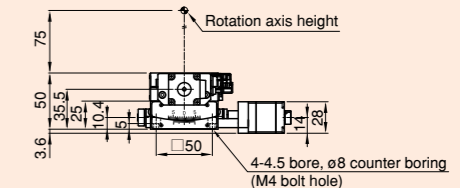


AGWS2-40040

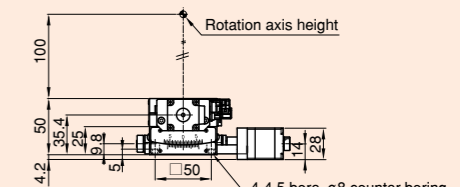
AGWS2-60



AGWS2-60050

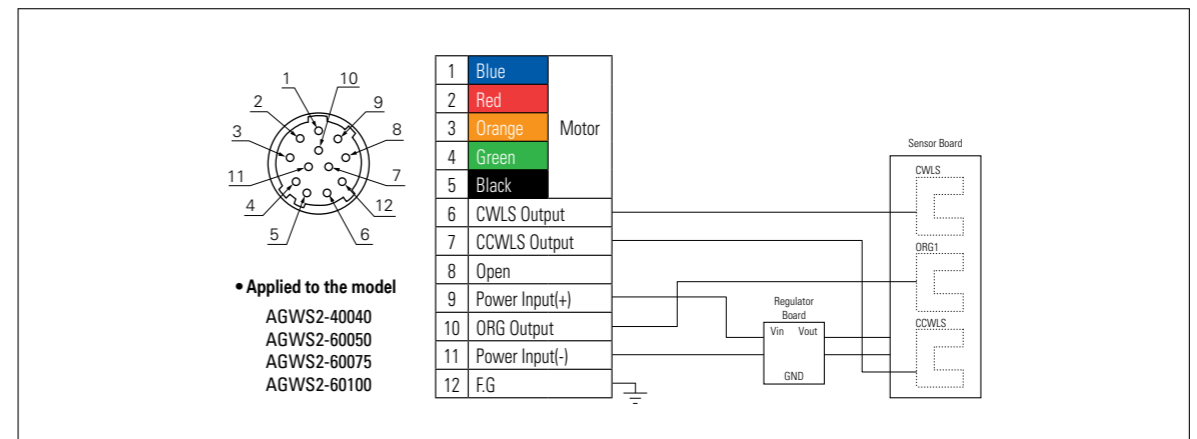


AGWS2-60075



AGWS2-60100

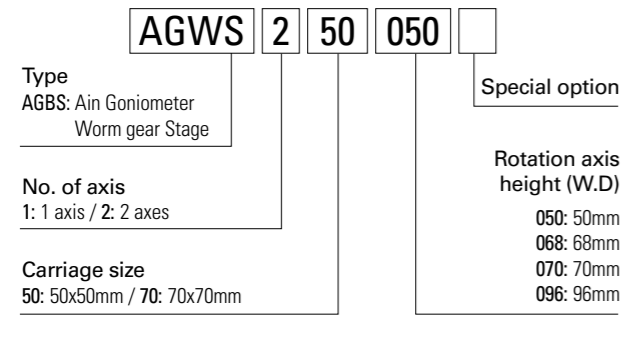
Diagram of connecting wires



AGWS2-50/70 type

Worm gear type

Examples of model number formation

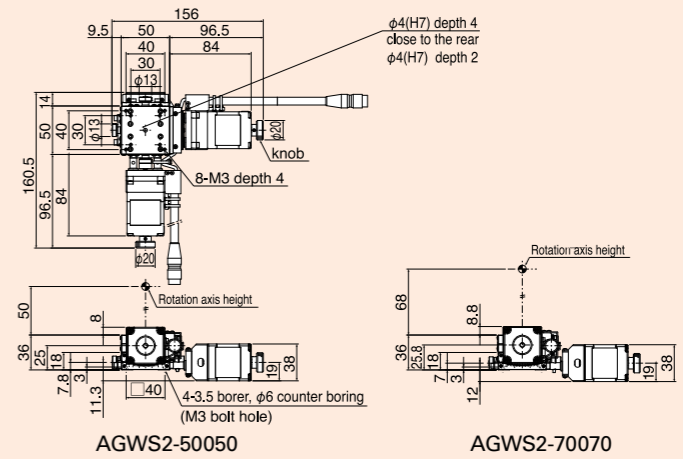


Model no.	AGWS2-50050	AGWS2-50068	AGWS2-70070	AGWS2-70096
No. of axes	2 axes			
Table dimension (mm)	50x50		70x70	
Stroke (Upper/Lower)	$\pm 10^\circ/\pm 8^\circ$	$\pm 8^\circ/\pm 6^\circ$	$\pm 9^\circ/\pm 7^\circ$	$\pm 7^\circ/\pm 5^\circ$
Travel mechanism	Upper: Worm gear(1/231) Lower: Worm gear(1/300)	Upper: Worm gear(1/300) Lower: Worm gear(1/375)	Upper: Worm gear(1/235) Lower: Worm gear(1/301)	Upper: Worm gear(1/301) Lower: Worm gear(1/375)
Travel guide	Crossed roller guide			
Height of stage (mm)	36 \pm 0.4	36 \pm 0.4	52 \pm 0.4	52 \pm 0.4
Rotation axis height (mm)	50 \pm 0.4	68 \pm 0.4	70 \pm 0.4	96 \pm 0.4
Accuracy (mm) ⁽¹⁾	-	-	-	-
Resolution (Pulse)	Upper at Full: $\approx 0.00156^\circ$ Lower at Full: $\approx 0.0012^\circ$	Upper at Full: $\approx 0.0012^\circ$ Lower at Full: $\approx 0.00096^\circ$	Upper at Full: $\approx 0.00153^\circ$ Lower at Full: $\approx 0.0012^\circ$	Upper at Full: $\approx 0.0012^\circ$ Lower at Full: $\approx 0.00096^\circ$
Max. speed	Upper: 7.8 $^\circ$ /sec[5kHz] Lower: 6 $^\circ$ /sec[5kHz]	Upper: 6 $^\circ$ /sec[5kHz] Lower: 4.8 $^\circ$ /sec[5kHz]	Upper: 7.6 $^\circ$ /sec[5kHz] Lower: 6 $^\circ$ /sec[5kHz]	Upper: 6 $^\circ$ /sec[5kHz] Lower: 4.8 $^\circ$ /sec[5kHz]
Repeated positioning	$\pm 0.005^\circ$	$\pm 0.005^\circ$	$\pm 0.003^\circ$	$\pm 0.003^\circ$
Load capacity (kgf)	2.3	2.3	4	4
Moment rigidity	Pitching 0.17 / Yawing 0.06 / Rolling 0.06 ["/N-cm]		Pitching 0.23 / Yawing 0.12 / Rolling 0.23 ["/N-cm]	
Lost motion	0.01 $^\circ$	0.01 $^\circ$	0.06 $^\circ$	0.06 $^\circ$
Material	Aluminum-black almite processing, brass-nickel chrome plating		Aluminum-white almite processing	
Weight (kg)	1.5	1.5	2.0	2.0
Sensor	Installed			

Note (1) Accuracy of fluctuation of rotating center. (mm)

(2) All products can be changed by customer order. please contact AIN for details.

AGWS2-50



AGWS2-70

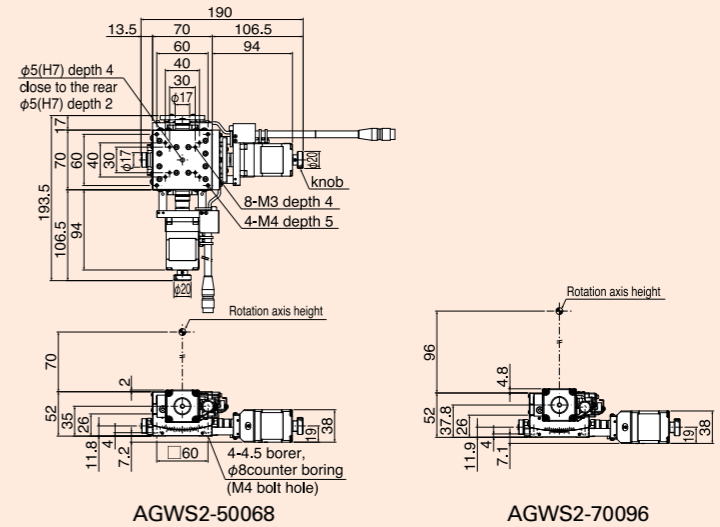


Diagram of connecting wires

