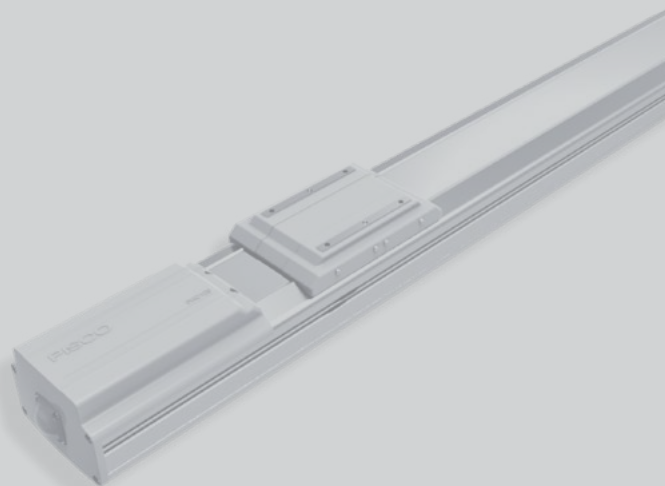


PISCO®



PHRC SERIES

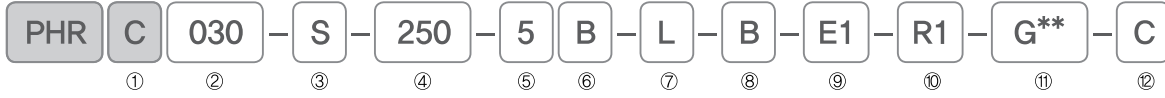
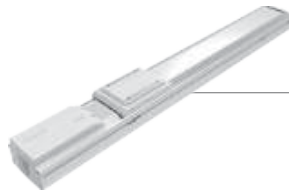


For more information
Please scan

PHRC Series Total Preview

Clean Robot Ball Screw Type

Body Size	Motor	Ball Screw		Max. Speed		Max. Load (H)	Max. Load (V)	Max. Stroke							
	mm	O.D	Lead	mm/s				100~500	600	700	800	900	1000	mm	
030	28	Ø8	2	L	100	9kg	4kg	100							250
040	35	Ø12	5	L	250	13kg	6kg	250							500
			10	N	500	9kg	4kg	500							
050	42	Ø12	5	L	250	13kg	6kg	250							500
			10	N	500	9kg	4kg	500							
			20	H	1000	4kg	2kg	1000							
070	56	Ø15	5	L	250	15kg	15kg	250	211	169	138	115			1000
			10	N	500	15kg	10kg	500	421	337	276	231			
			20	H	1000	8kg	4kg	1000	842	675	553	461			
			30	P	1500	4kg	2kg	1500	1263	1011	828	693			
090	60	Ø15	5	L	250	30kg	30kg	250	211	169	138	116			1000
			10	N	500	30kg	30kg	500	422	338	277	231			
			20	H	1000	30kg	22kg	1000	844	676	554	462			
			30	P	1500	24kg	14kg	1500	1266	1014	831	693			
120	86	Ø15	5	L	250	50kg	50kg	250	209	167	137	115			1000
			10	N	500	50kg	38kg	500	417	335	274	229			
			20	H	1000	45kg	21kg	1000	834	669	549	458			
			30	P	1500	23kg	13kg	1500	1251	1004	823	687			
		Ø20 (*)	30	P	1500	20kg	13kg	1500	1415	1160	969				
			40	S	2000	10kg	9kg	2000	1887	1547	1921				
160	86	Ø15(*)	5	L	250	70kg	70kg	250	215	172	141	117	99		1000
			10	N	500	70kg	70kg	500	430	344	281	234	198		
			20	H	1000	70kg	41kg	1000	860	688	562	468	396		
			30	P	1500	66kg	25kg	1500	1290	1032	844	703	594		
		Ø20	5	L	250	70kg	70kg	250	242	198	165	140			
			10	N	500	70kg	70kg	500	485	396	330	279			
			20	H	1000	70kg	41kg	1000	969	793	660	559			
			30	P	1500	63kg	25kg	1500	1454	1189	991	838			
			40	S	2000	30kg	18kg	2000	1939	1585	1321	1117			
			60(*)	U	3000	2kg	2kg	3000	2908	2378	1981	1676			



① 형식 Type

C	Clean Robot, Ball Screw Type
---	------------------------------

② 본체 사이즈 Body Size

030	30mm
-----	------

③ 형상 Shape

S	Straight
L	Left
R	Right
U	Under

⑤ 모터 용량 Motor Capacity

28	Stepping Motor 28 mm
----	----------------------

⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake *

* Motor size : 42 mm

④ 이송거리 Stroke, In increment of 50mm



⑦ 속도 Speed, Motor 3000rpm

L	100mm/s
---	---------

※ 볼나사의 회전수가 높아지면 축의 고유 진동수에 의한 공진 발생과 볼나사 축의 회전 원심력에 의한 내부 볼 순환 이상 및 리턴부 손상발생으로 위험속도를 계산하여 이송거리에 따른 최고 사용 속도를 정합니다.
If the ball screw speed is raised, the rotary generates a resonance and the circular rotation of the inner ball can cause damage to the inner ball. Therefore, calculate the risk velocity and determine the maximum speed according to the transfer distance.

⑧ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑨ 센서 Sensor

None	Without Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑪ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

⑫ 케이블베어 Cableveyor

None	Without Cableveyor
C	With Cableveyor

사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	50 ~ 250
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø8
Guide	1 Way 9 - 1UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Steel Band

■ 최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed		Stepping Motor 28 mm	
	Mark	mm/s	Horizontal	Vertical
0802	L	100	13kg	6kg
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec		Motor Rotate : 3000rpm	

■ 허용 이격 거리 Allowable Overhang Distance

Installation Types	Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
			3kg	5kg	7kg	10kg
Horizontal Use		0°	30	15	10	-
		45°	40	20	10	-
		90°	660	360	200	-
Wall Mount Use		0°	-	-	-	-
		45°	-	-	-	-
		90°	-	-	-	-
Vertical Use		0°	10	-	-	-
		45°	-	-	-	-
		90°	10	-	-	-
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

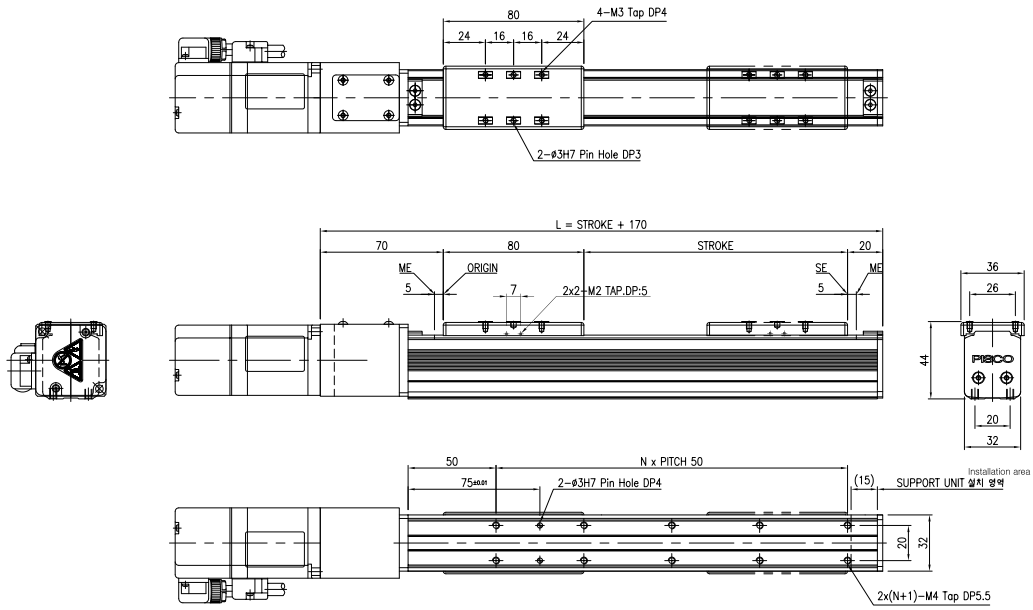
■ 이송거리별 최고속도 Max Speed by Stroke

Ball Screw		Stroke(mm) & Speed(mm/sec)				
DIA	Lead	50	100	150	200	250
Ø8	2	100				

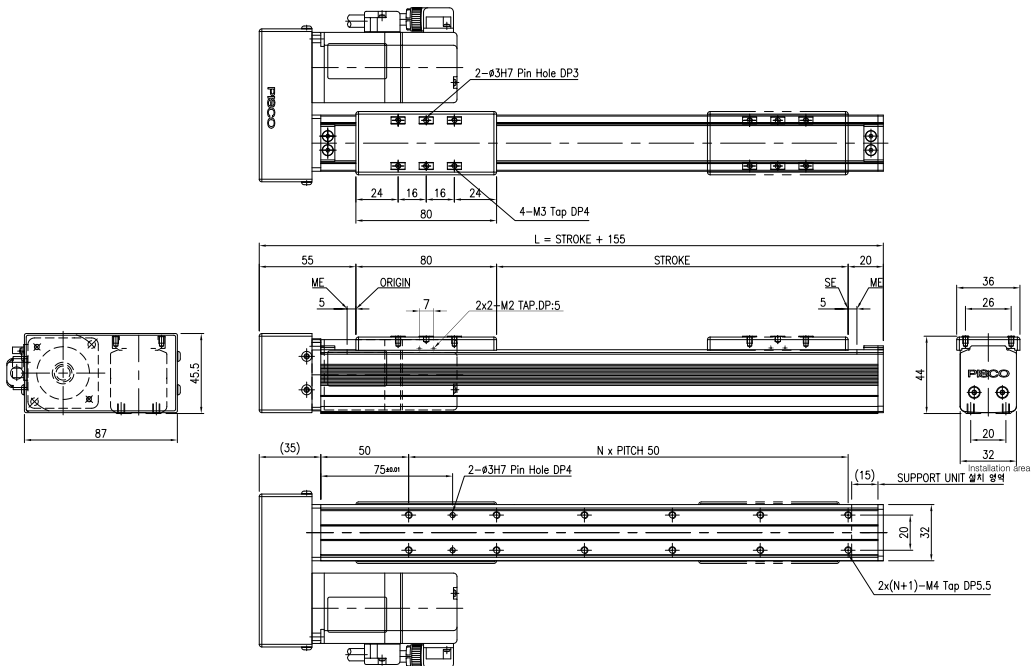
■ 이송거리별 무게 Weight by Stroke

PHRC030 Robot			Stroke(mm) & Weight(kg)				
Motor	DIA	Type	50	100	150	200	250
28 mm	Ø8	S	1.42	1.5	1.58	1.66	1.74
		P	1.42	1.5	1.58	1.66	1.74

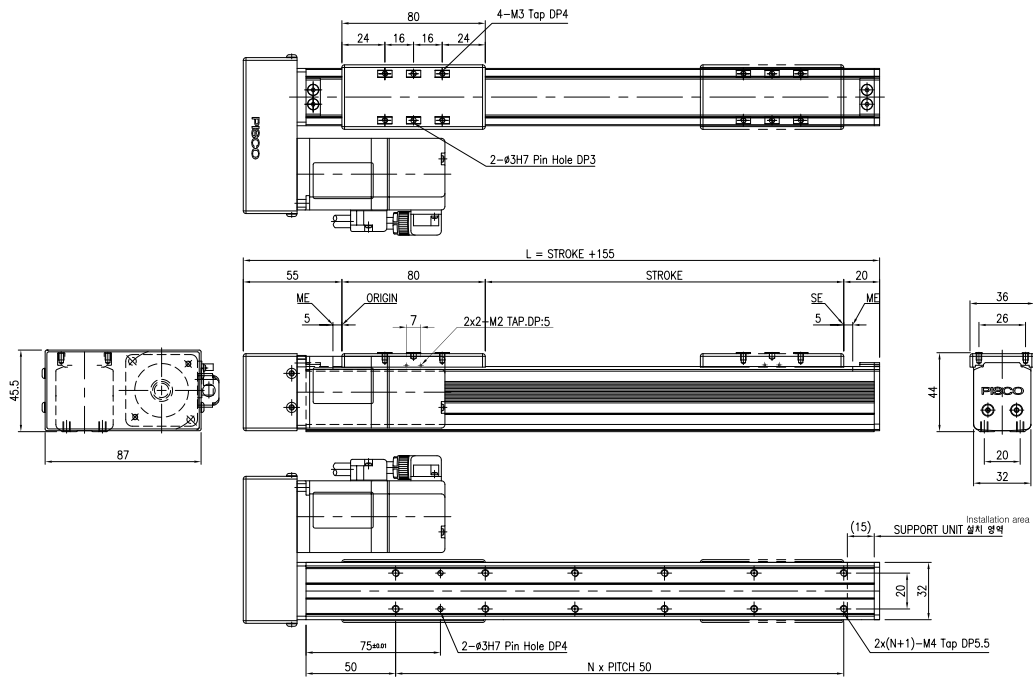
PHRC030-S-10



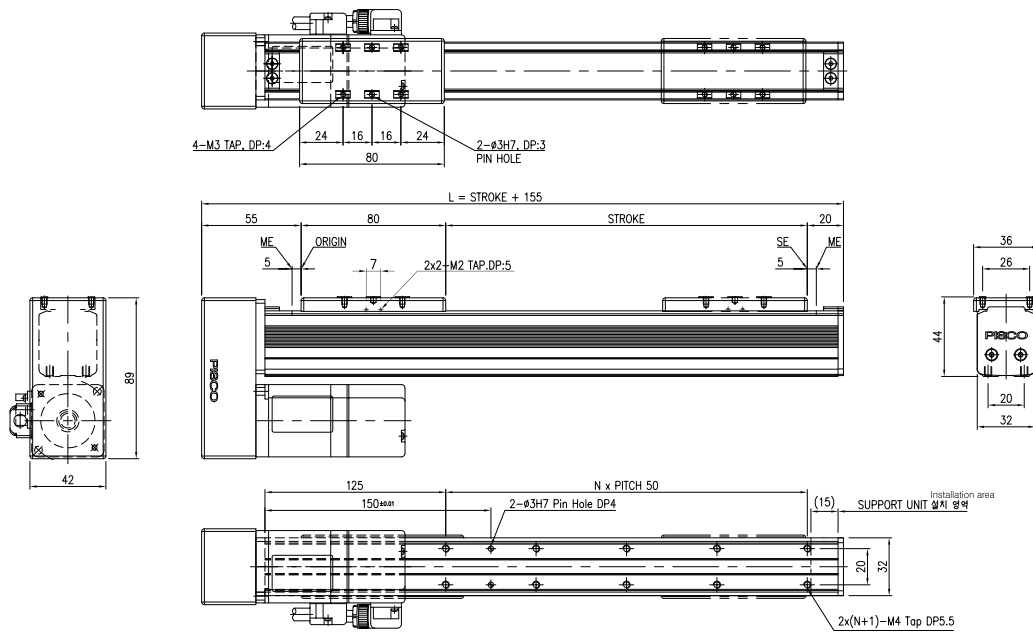
PHRC030-L-10

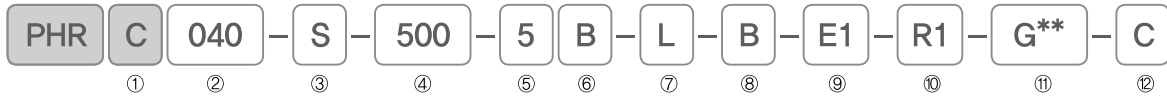
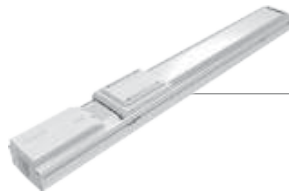


PHRC030-R-10



PHRC030-U-10





① 형식 Type

C	Clean Robot, Ball Screw Type
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② 본체 사이즈 Body Size

040	40mm
-----	------

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	200	400	600	800	1000
L : 1205		██████████	██████████			
N : 1210		██████████	██████████			

⑦ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s

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If the ball screw speed is raised, the rotary generates a resonance and the circular rotation of the inner ball can cause damage to the inner ball. Therefore, calculate the risk velocity and determine the maximum speed according to the transfer distance.

⑪ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

③ 형상 Shape

S	Straight
L	Left
R	Right
U	Under

⑤ 모터 용량 Motor Capacity

35	Stepping Motor 35 mm
----	----------------------

⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake *

* Motor size : 42 mm

⑧ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑨ 센서 Sensor

None	Without Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑫ 케이블베어 Cableveyor

None	Without Cableveyor
C	With Cableveyor

사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 500
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø12
Guide	1 Way 12 - 1UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Steel Band

■ 최고속도 및 부하중량 Max Speed & Payload

Ball Screw Specifications	Max Speed Mark	Max Speed mm/s	Stepping Motor 35 mm	
			Horizontal	Vertical
1205	L	250	13kg	6kg
1210	N	500	9kg	4kg
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Motor Rotate : 3000rpm			

■ 이송거리별 최고속도 Max Speed by Stroke

Ball Screw DIA	Lead	Stroke(mm) & Speed(mm/sec)				
		100	200	300	400	500
Ø12	5	250				
	10	500				

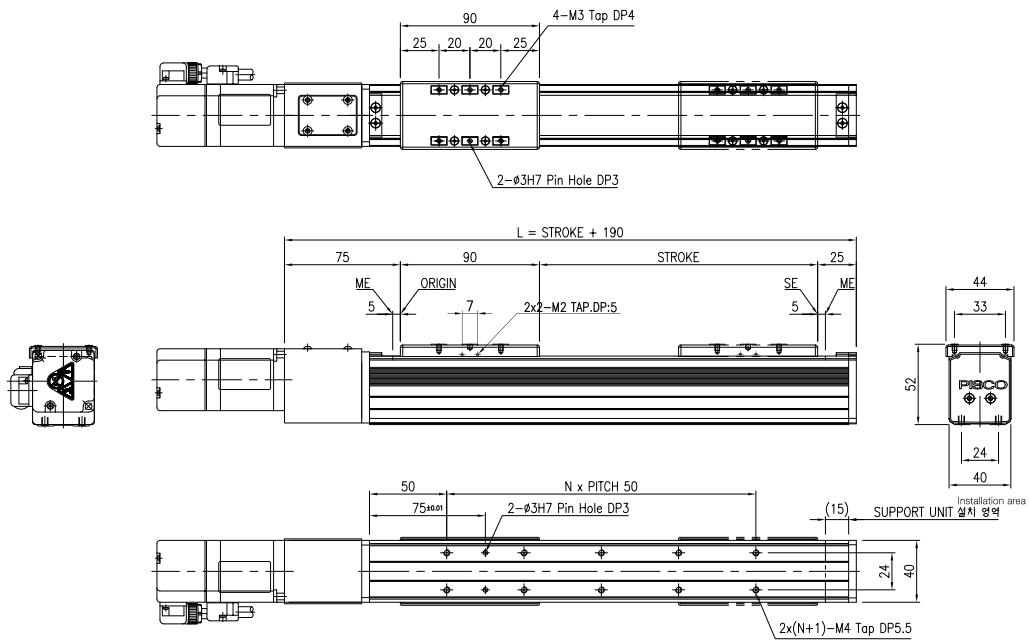
■ 허용 이격 거리 Allowable Overhang Distance

Installation Types	Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
			3kg	5kg	7kg	10kg
Horizontal Use		0°	60	30	20	10
		45°	65	35	20	10
		90°	250	130	80	40
Wall Mount Use		0°	65	-	-	-
		45°	15	-	-	-
		90°	15	-	-	-
Vertical Use		0°	30	-	-	-
		45°	20	-	-	-
		90°	30	-	-	-
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

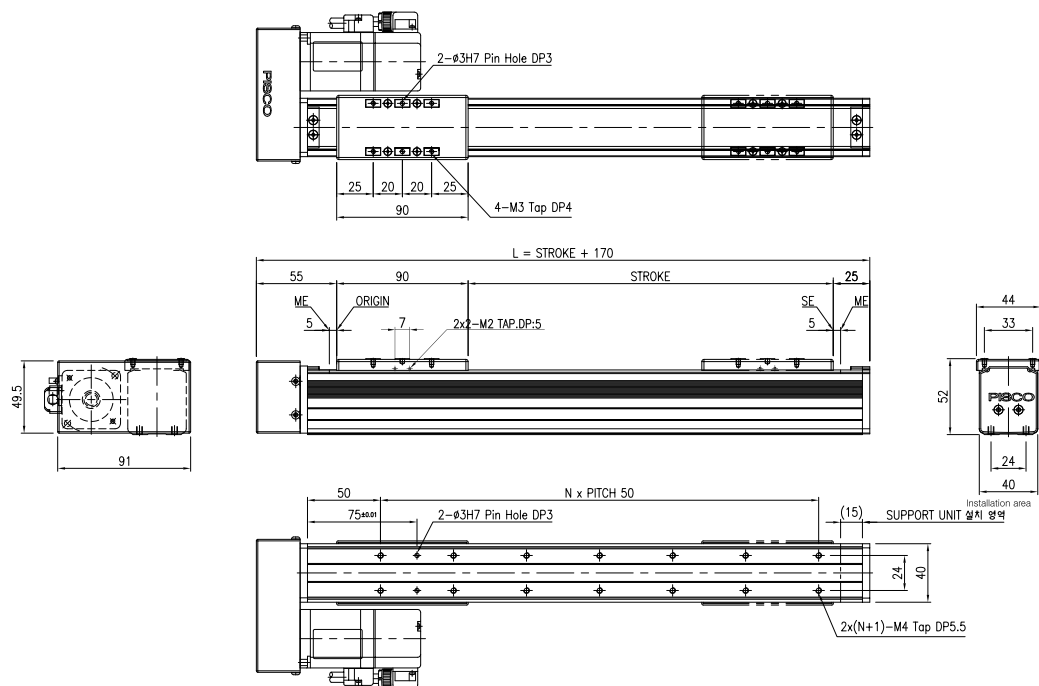
■ 이송거리별 무게 Weight by Stroke

PHRC040 Robot			Stroke(mm) & Weight(kg)				
Motor	DIA	Type	100	200	300	400	500
35 mm	Ø12	S	2	2.26	2.52	2.78	3.04
		P	2	2.26	2.52	2.78	3.04

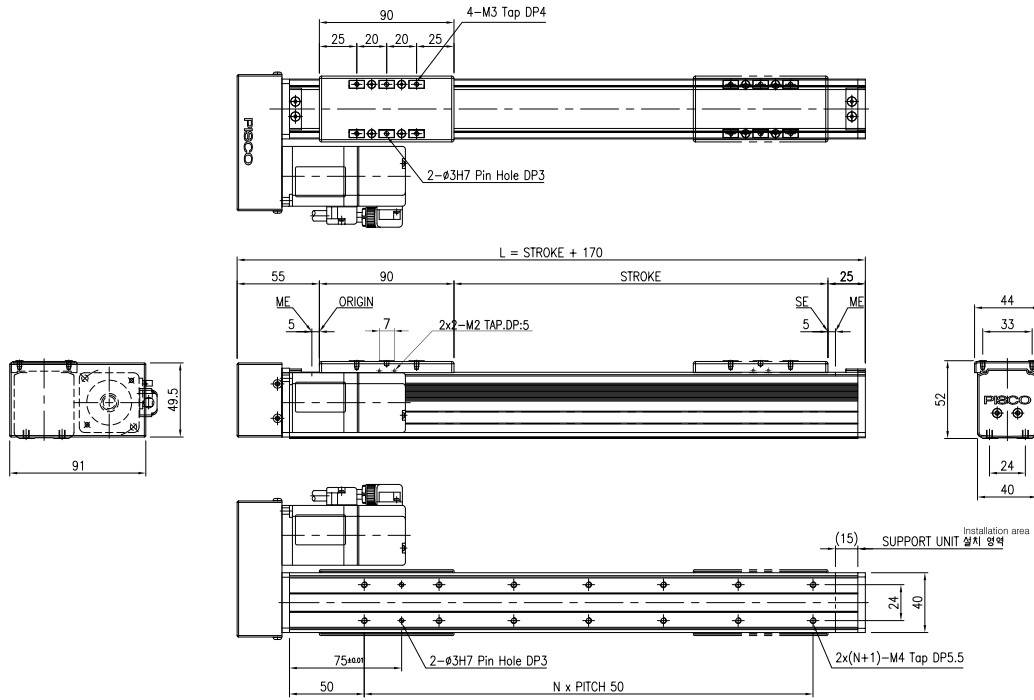
PHRC040-S-10



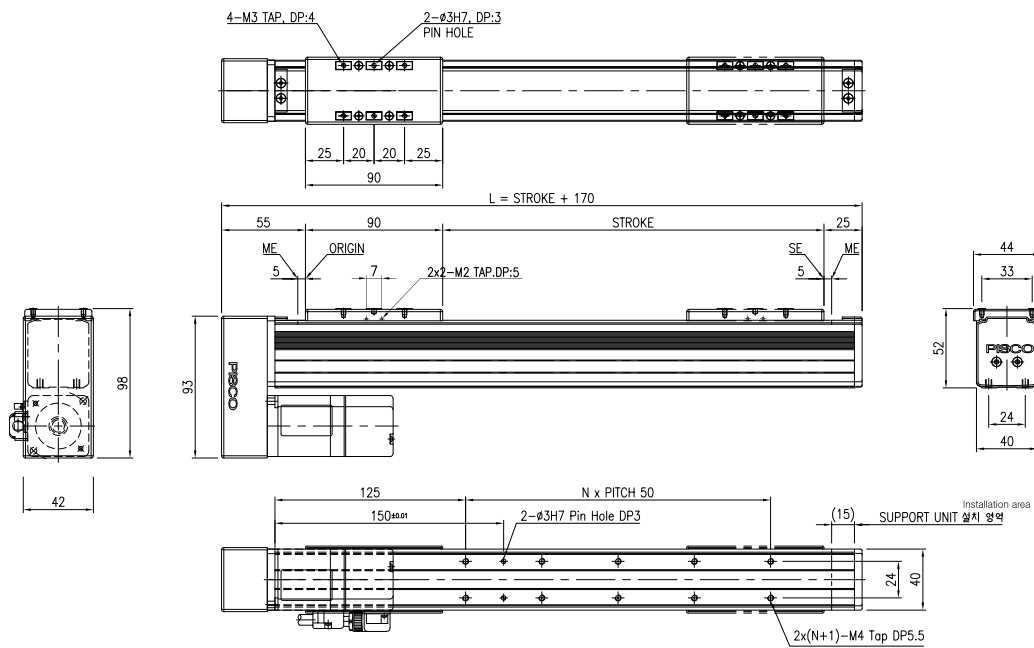
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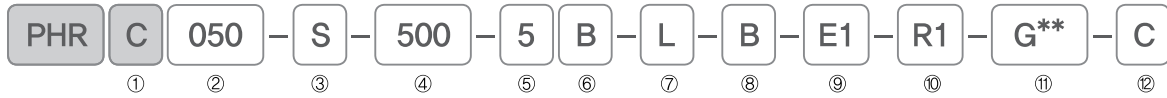


PHRC040-R-10



PHRC040-U-10





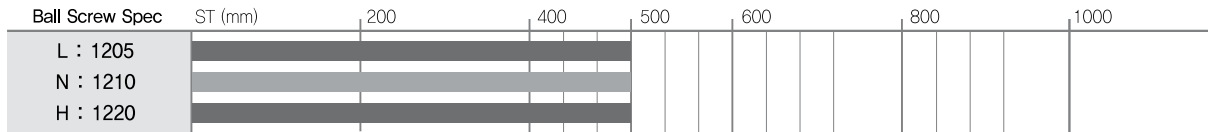
① 형식 Type

C	Clean Robot, Ball Screw Type
---	------------------------------

② 본체 사이즈 Body Size

050	50mm
-----	------

④ 이송거리 Stroke, In increment of 50mm



⑦ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s
H	1000mm/s

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If the ball screw speed is raised, the rotary generates a resonance and the circular rotation of the inner ball can cause damage to the inner ball. Therefore, calculate the risk velocity and determine the maximum speed according to the transfer distance.

③ 형상 Shape

S	Straight
L	Left
R	Right
U	Under

⑤ 모터 용량 Motor Capacity

42	Stepping Motor 42 mm
----	----------------------

⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

⑧ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑨ 센서 Sensor

None	External DC-24V Proximity LED Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑪ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

⑫ 케이블베어 Cableveyor

None	Without Cableveyor
C	With Cableveyor

사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 500
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø12
Guide	1 Way 24 - 1UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Steel Band

■ 최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed Mark	Max Speed mm/s	Stepping Motor 42 mm	
			Horizontal	Vertical
1205	L	250	13kg	6kg
1210	N	500	9kg	4kg
1220	H	1000	4kg	2kg
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Motor Rotate : 3000rpm			

■ 이송거리별 최고속도 Max Speed by Stroke

Ball Screw DIA	Lead	Stroke(mm) & Speed(mm/sec)				
		100	200	300	400	500
Ø12	5	250				
	10	500				
	20	1000				

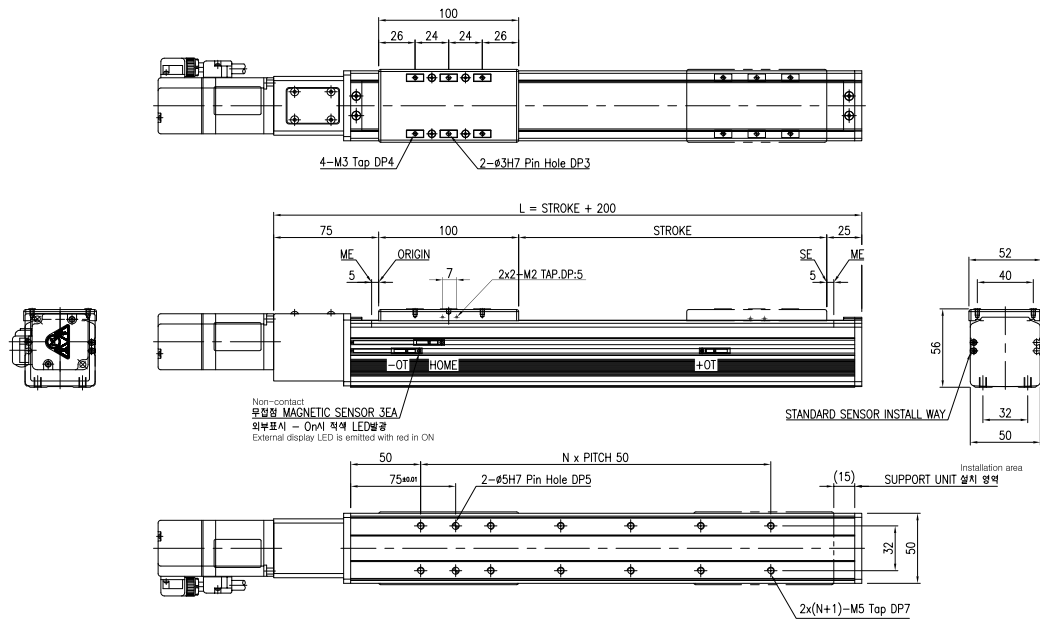
■ 허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
		3kg	5kg	7kg	10kg
Horizontal Use	90°	105	55	35	20
	45°				
	0°				
Wall Mount Use	90°	165	65	20	-
	45°				
	0°				
Vertical Use	90°	65	30	15	-
	45°				
	0°				
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr				

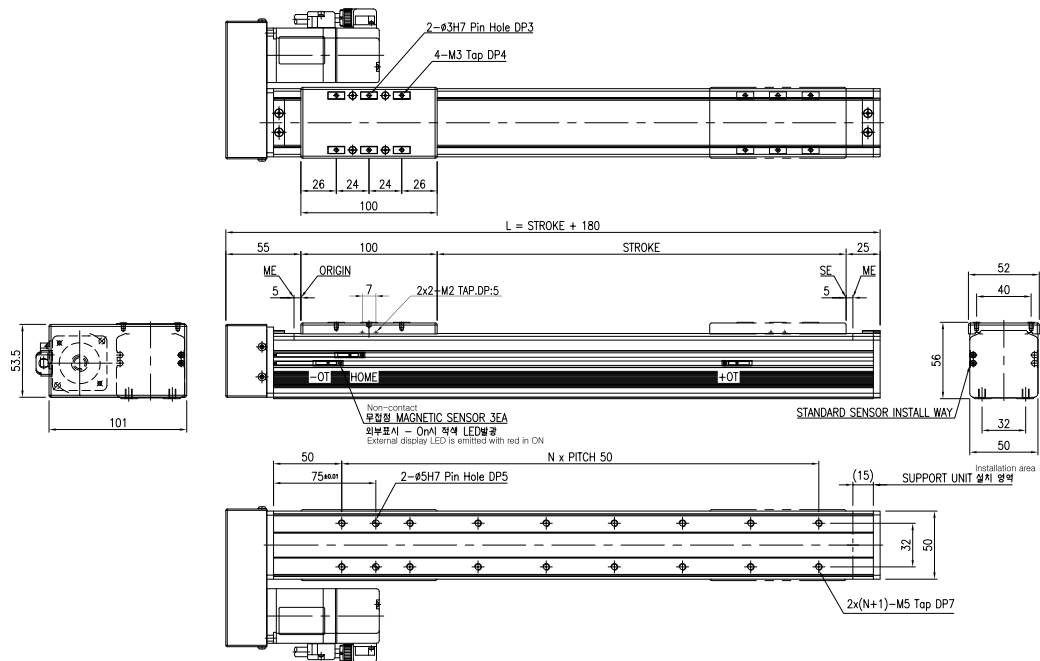
■ 이송거리별 무게 Weight by Stroke

PHRC050 Robot			Stroke(mm) & Weight(kg)				
Motor	DIA	Type	100	200	300	400	500
42 mm	Ø12	S	2.5	2.9	3.3	3.7	4.1
		P	2.5	2.9	3.3	3.7	4.1

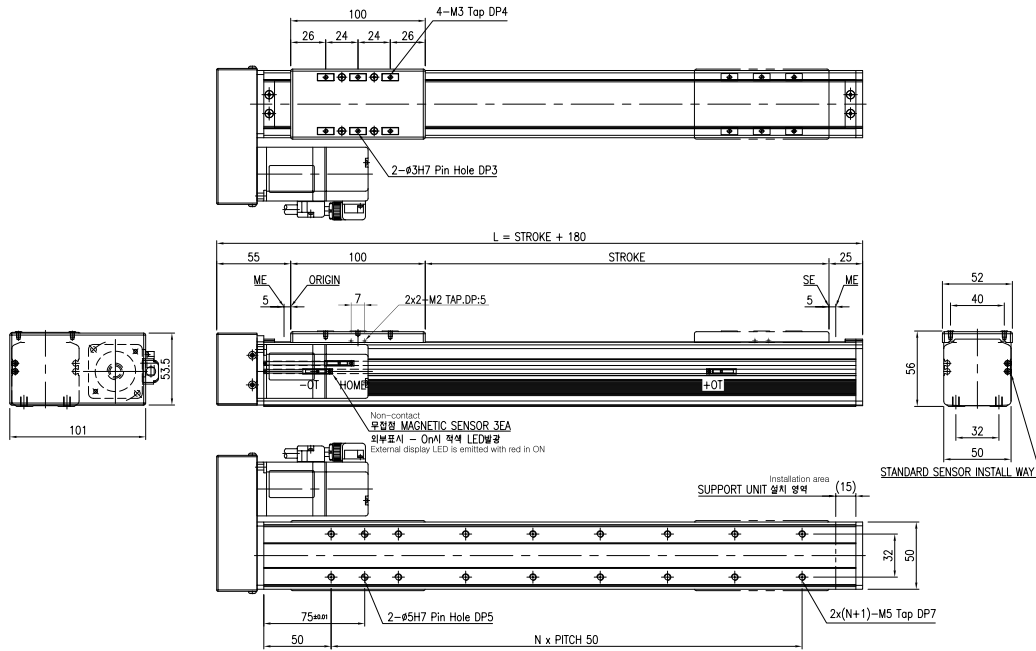
PHRC050-S-10



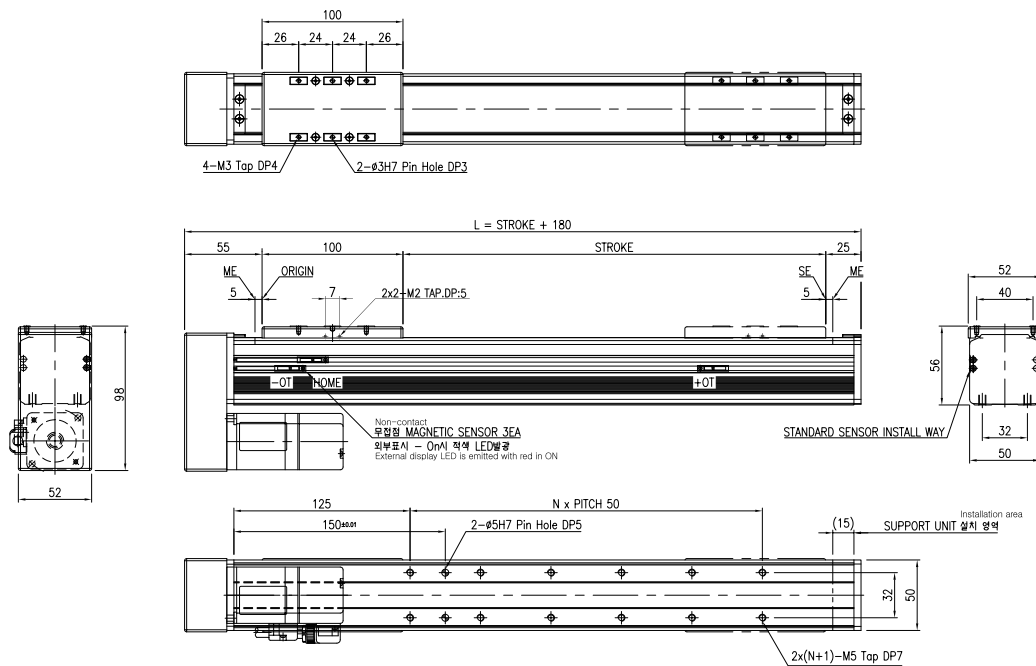
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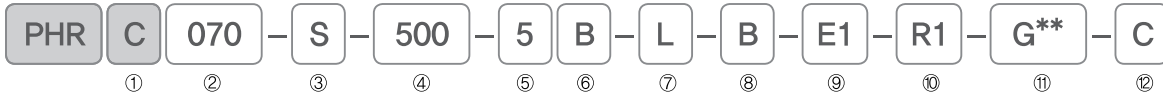
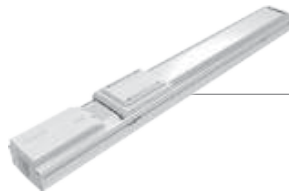


PHRC050-R-10



PHRC050-U-10





① 형식 Type

C	Clean Robot, Ball Screw Type
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② 본체 사이즈 Body Size

070	70mm
-----	------

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000	1500	2000	2500
L : 1505		█	█		
N : 1510		█	█		
H : 1520		█	█		
P : 1530		█	█		

⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

⑦ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s
H	1000mm/s
P	1500mm/s

※ 볼나사의 회전수가 높아지면 축의 고유 진동수에 의한 공진 발생과 볼나사 축의 회전 원심력에 의한 내부 볼 순환 이상 및 리턴부 손상발생으로 위험속도를 계산하여 이송거리에 따른 최고 사용 속도를 정합니다.
If the ball screw speed is raised, the rotary generates a resonance and the circular rotation of the inner ball can cause damage to the inner ball. Therefore, calculate the risk velocity and determine the maximum speed according to the transfer distance.

③ 형상 Shape

Normal Type	Straight
	Left
	Right
	Under

⑤ 모터 용량 Motor Capacity

56	Stepping Motor 56 mm
----	----------------------

⑧ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑨ 센서 Sensor

None	External DC-24V Proximity LED Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑪ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

⑫ 케이블베어 Cableveyor

None	Without Cableveyor
C	With Cableveyor

사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1500
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø15
Guide	1 Way 24 - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Main & Side Cover	Steel Band & Aluminum Profile, Soft White Anodizing(※)

※ Side Cover에 Transparent PC Extrude Profile의 사양은 특주로 대응됩니다.
The specifications of the transparent PC extruded profile on the side cover are special order.

■ 최고속도 및 부하중량 Max Speed & Payload

Ball Screw Specifications	Max Speed Mark	Max Speed mm/s	Stepping Motor 56 mm	
			Horizontal	Vertical
1505	L	250	15kg	15kg
1510	N	500	15kg	10kg
1520	H	1000	8kg	4kg
1530	P	1500	4kg	2kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Motor Rotate : 3000rpm			

■ 이송거리별 최고속도 Max Speed by Stroke

Ball Screw	Stroke(mm) & Speed(mm/sec)											
	DIA	Lead	100	200	300	400	500	600	700	800	900	1000
Ø15	5	250	211	169	138	115						
	10	500	421	337	276	231						
	20	1000	842	675	553	461						
	30	1500	1263	1011	828	693						

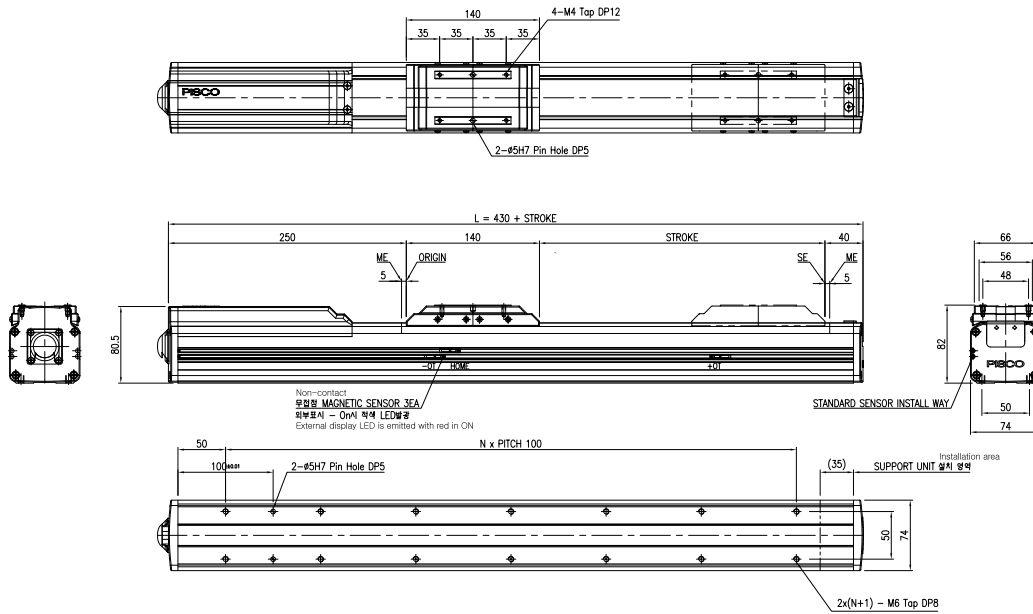
■ 허용 이격 거리 Allowable Overhang Distance

Installation Types	Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
			6kg	9kg	12kg	15kg
Horizontal Use		0°	115	70	50	38
		45°	105	67	46	35
		90°	620	400	280	200
Wall Mount Use		0°	250	-	-	-
		45°	35	-	-	-
		90°	35	-	-	-
Vertical Use		0°	110	65	40	30
		45°	50	25	15	8
		90°	100	55	30	15
Estimated Condition	Stroke : 1000mm Speed : 1000mm/sec Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

■ 이송거리별 무게 Weight by Stroke

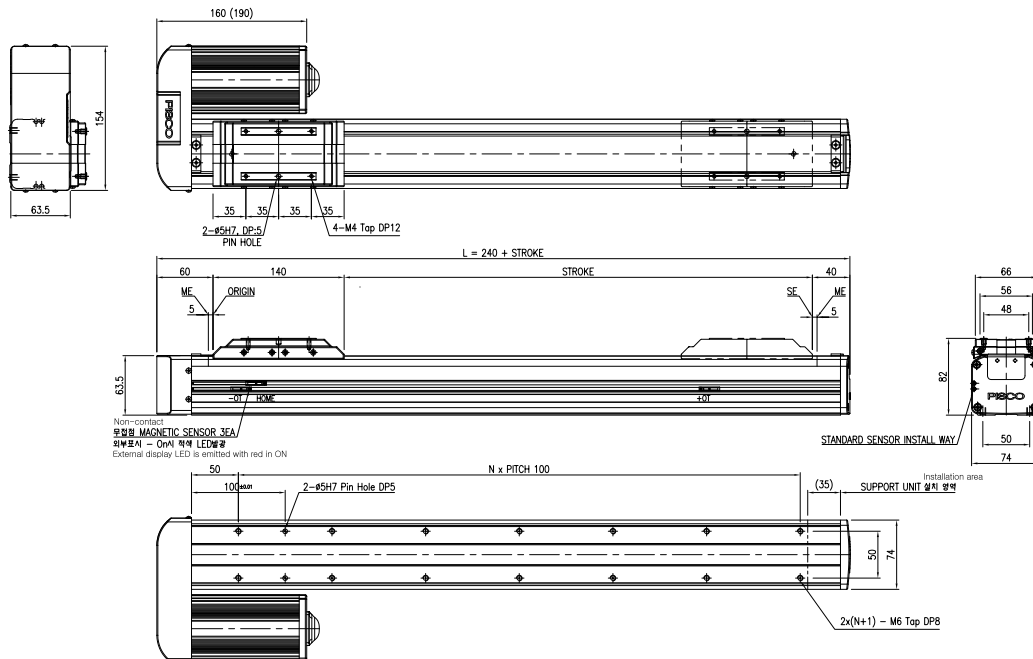
Motor	DIA	Type	Stroke(mm) & Weight(kg)									
			100	200	300	400	500	600	700	800	900	1000
56 mm	Ø15	S	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.2	9.7
		P	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.4

PHRC070-S-10



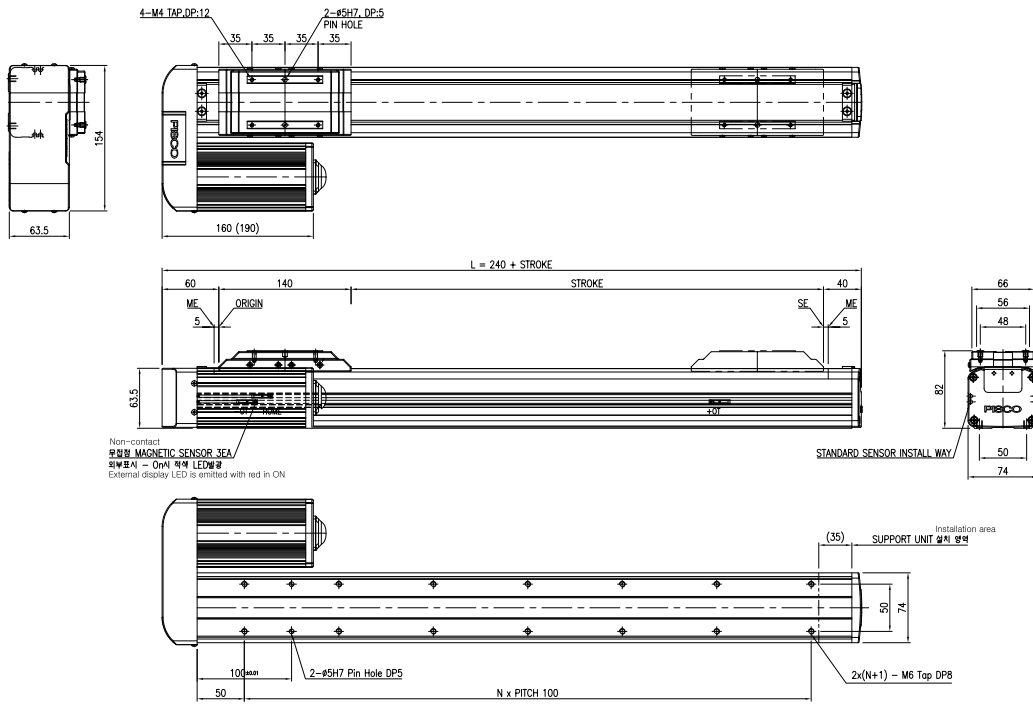
PHRC070-L-10

※ () Brake Motor Dimension



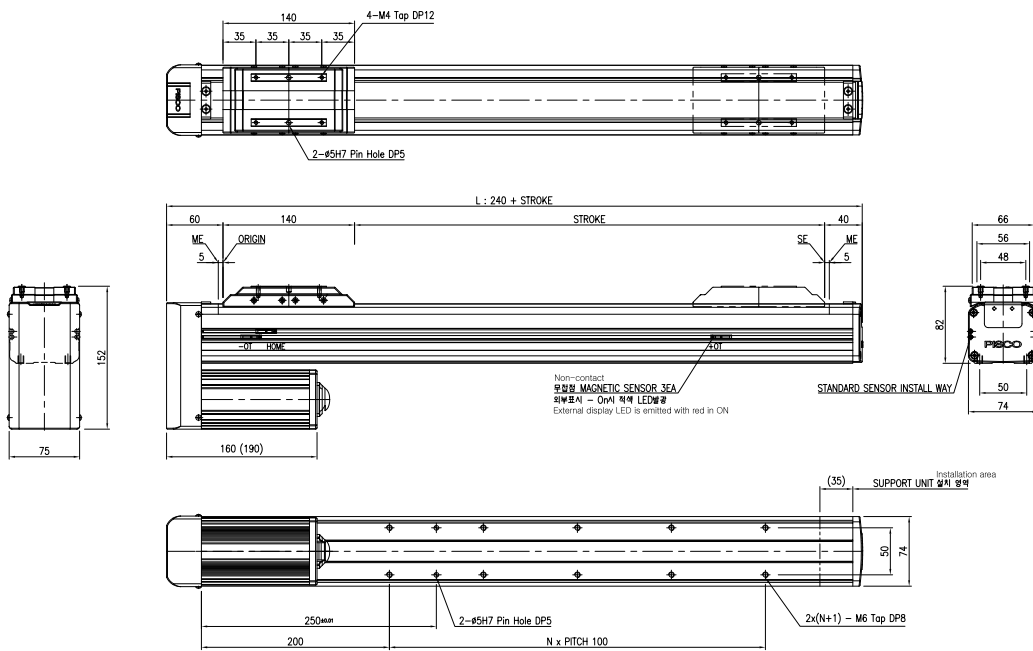
PHRC070-R-10

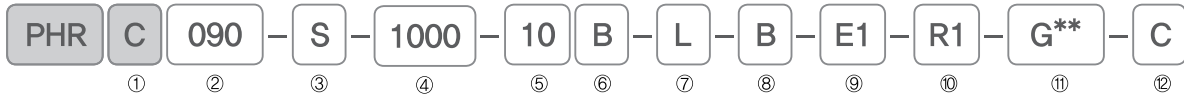
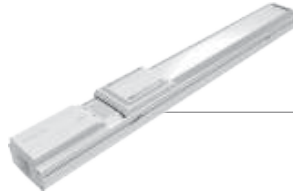
※ () Brake Motor Dimension



PHRC070-U-10

※ () Brake Motor Dimension





① 형식 Type

C	Clean Robot, Ball Screw Type
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② 본체 사이즈 Body Size

090	90mm
-----	------

③ 형상 Shape

S	Straight
L	Left
R	Right
U	Under

⑤ 모터 용량 Motor Capacity

60	Stepping Motor 60 mm
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④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000	1500	2000	2500
L : 1505		■	■		
N : 1510		■	■		
H : 1520		■	■		
P : 1530		■	■		

⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

⑧ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑦ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s
H	1000mm/s
P	1500mm/s
S(*2)	2000mm/s
U(*2)	3000mm/s

⑨ 센서 Sensor

None	External DC-24V Proximity LED Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑪ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

⑫ 케이블베어 Cableveyor

None	Without Cableveyor
C	With Cableveyor

사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1500
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø15
Guide	1 Way 42 - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Main & Side Cover	Steel Band & Aluminum Profile, Soft White Anodizing(*)

* Side Cover에 Transparent PC Extrude Profile의 사양은 특수로 대응됩니다.
The specifications of the transparent PC extruded profile on the side cover are special order.

■ 최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed Mark	Max Speed mm/s	Stepping Motor 60 mm	
			Horizontal	Vertical
1505	L	250	30kg	30kg
1510	N	500	30kg	30kg
1520	H	1000	30kg	22kg
1530	P	1500	24kg	14kg

Estimated Condition Stroke : 500mm Speed : Max Speed
Acceleration : 0.2sec Motor Rotate : 3000rpm

■ 이송거리별 최고속도 Max Speed by Stroke

Ball Screw DIA	Lead	Stroke(mm) & Speed(mm/sec)														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Ø15	5			250				211	169	138	116	98	84	73		
	10			500				422	338	277	231	196	168	146		
	20			1000				844	676	554	462	391	335	291	255	225
	30			1500				1266	1014	831	693	587	503	437	382	337

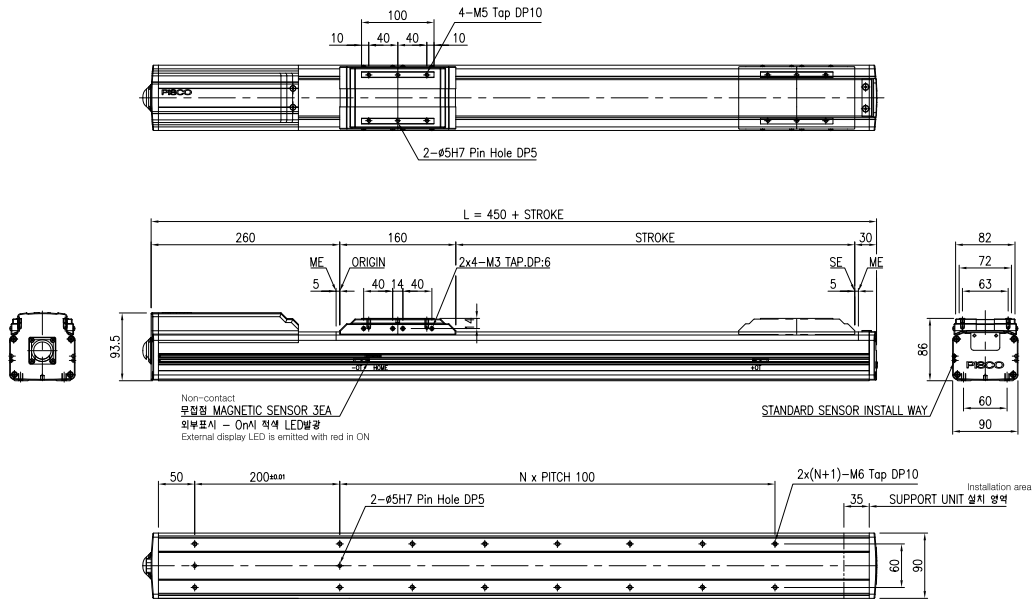
■ 허용 이격 거리 Allowable Overhang Distance

Installation Types	Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
			5kg	10kg	20kg	30kg
Horizontal Use		0°	390	190	85	50
		45°	350	162	70	42
		90°	1000	760	330	190
Wall Mount Use		0°	1100	440	70	-
		45°	233	78	7	-
		90°	270	90	10	-
Vertical Use		0°	260	120	40	-
		45°	142	56	20	6
		90°	300	125	40	13
Estimated Condition	Stroke : 1000mm Speed : 1000mm/sec Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

■ 이송거리별 무게 Weight by Stroke

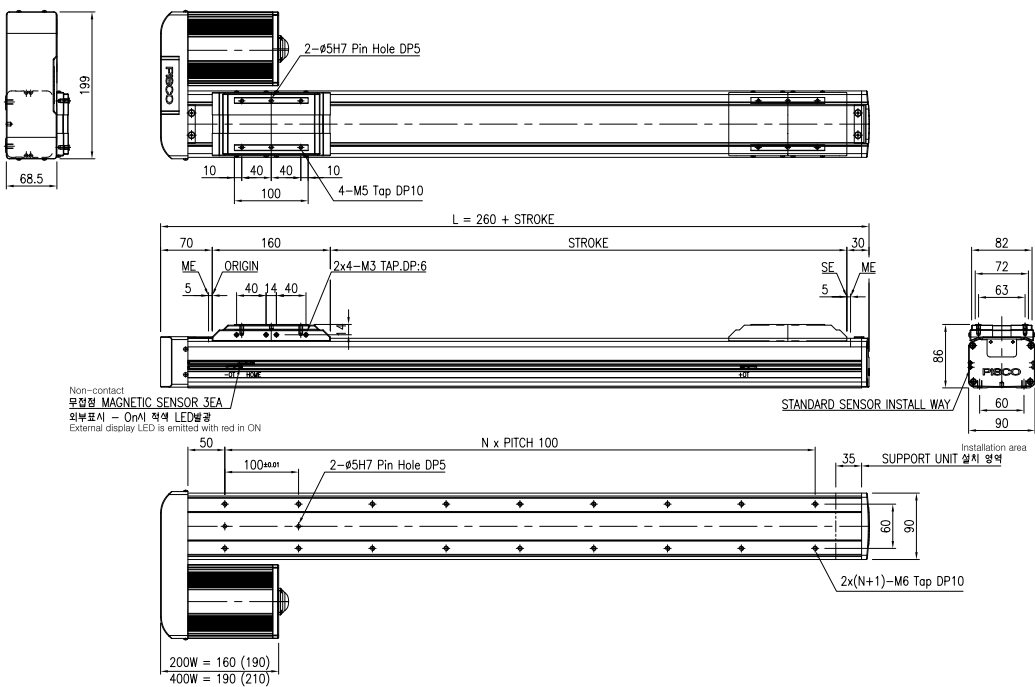
Motor	DIA	Type	Stroke(mm) & Weight(kg)									
			100	200	300	400	500	600	700	800	900	1000
60 mm	Ø15	S	7.3	8.0	8.7	9.4	10.1	10.8	11.5	12.2	12.9	13.7
		P	7.1	7.8	8.5	9.2	9.9	10.6	11.4	12.1	12.8	13.5

PHRC090-S-10(20,40)



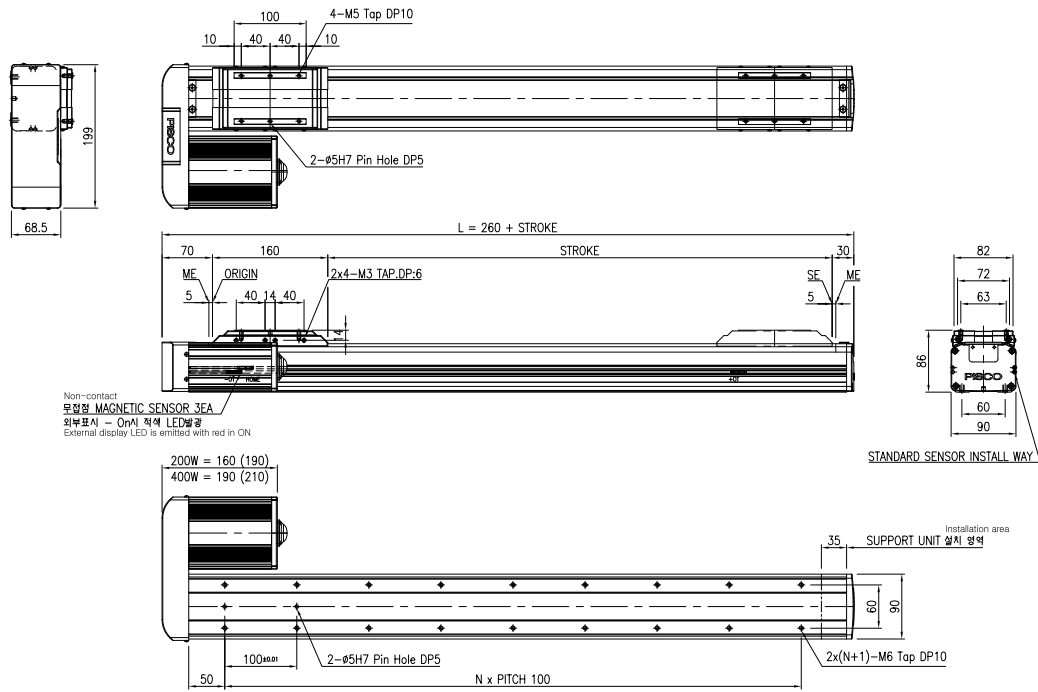
PHRC090-L-10(20,40)

※ () Brake Motor Dimension



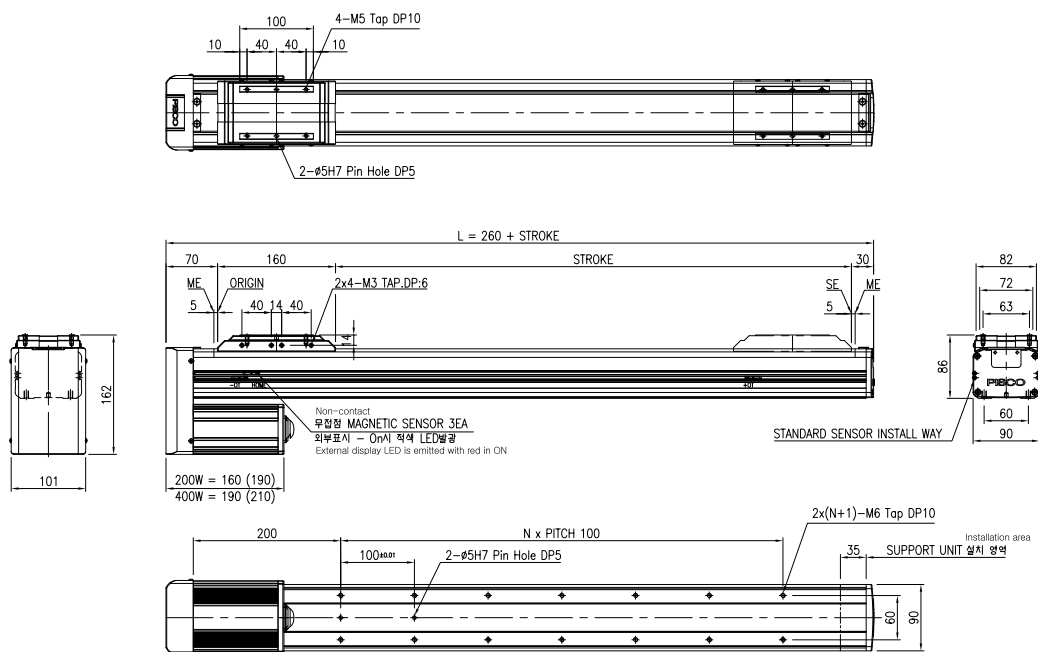
PHRC090-R-10(20,40)

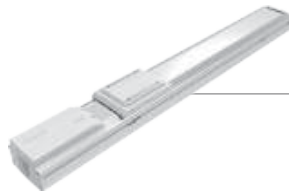
※ () Brake Motor Dimension



PHRC090-U-10(20,40)

※ () Brake Motor Dimension





① 형식 Type

C	Clean Robot, Ball Screw Type
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② 본체 사이즈 Body Size

120	120mm
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④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000
L : 1505		
N : 1510		
H : 1520		
P : 1530 (*)		
P : 2030 (*)		
S : 2040		

* 볼나사 규격 20□□의 경우 모두 특수로 대응됩니다. Ball screw size 20□□ is special order.

⑦ 속도 Speed, Motor 3000rpm

L	250mm/s	P	1500mm/s
N	500mm/s	S(*)	2000mm/s
H	1000mm/s	U(*)	3000mm/s

*1. 볼나사의 회전수가 높아지면 축의 고유 진동수에 의한 공진 발생과 볼나사 축의 회전 원심력에 의한 내부 볼 손원 및 리턴부 손상발생으로 위험속도를 계산하여 이송거리에 따른 최고 사용 속도를 정함니다. If the ball screw speed is raised, the rotary generates a resonance and the cruder rotation of the inner ball can cause damage to the inner ball, therefore, calculate the risk velocity and determine the maximum speed according to the transfer distance.
*2. 상기 사양은 특수사양으로 피스코코리아 모션사업부 고객센터에 문의하여 주십시오. Please contact the customer support center of PISCO KOREA Motion division in case of special ordered specifications.

⑧ 로봇 색상 Robot Color Option

None	White(Standard)	B	Black Anodizing
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③ 형상 Shape

S	Straight
L	Left
R	Right
U	Under

⑤ 모터 용량 Motor Capacity

86	Stepping Motor 86 mm
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⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

⑨ 센서 Sensor

None	External DC-24 Proximity LED Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑩ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑫ 케이블베어 Cableveyor

None	Without Cableveyor	C	With Cableveyor
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사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1500
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø15, Ø20(*)
Guide	2 Way 15W - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Main & Side Cover	Steel Band & Aluminum Profile, Soft White Anodizing(*)

*1. 볼나사 규격 20□□의 경우 모두 특수로 대응됩니다. Ball screw size 20□□ is special order.
*2. Side Cover에 Transparent PC Extrude Profile의 사양은 특수로 대응됩니다. The specifications of the transparent PC extruded profile on the side cover are special order.

■ 허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity	Setting Angle	Allowable Overhang Distance(mm)				
		20kg	30kg	40kg	50kg	
Horizontal Use		0°	380	260	200	165
		45°	318	215	166	134
		90°	1000	930	700	565
Wall Mount Use		0°	760	460	300	200
		45°	233	130	81	50
		90°	290	160	100	60
Vertical Use		0°	170	100	65	45
		45°	106	63	42	32
		90°	260	155	105	70
Estimated Condition	Stroke : 1000mm Speed : 1000mm/sec Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

■ 최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed Mark	mm/s	Stepping Motor 86 mm	
			Horizontal	Vertical
1505	L	250	50kg	50kg
1510	N	500	50kg	38kg
1520	H	1000	45kg	21kg
1530	P	1500	23kg	13kg
2030(*)	P	1500	20kg	13kg
2040(*)	S	2000	10kg	9kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Motor Rotate : 3000rpm			

* 볼나사 규격 20□□의 경우 모두 특수로 대응됩니다. Ball screw size 20□□ is special order.

■ 이송거리별 최고속도 Max Speed by Stroke

Ball Screw		Stroke(mm) & Speed(mm/sec)									
DIA	Lead	100	200	300	400	500	600	700	800	900	1000
Ø15	5	250						209	167	137	115
	10	500						417	335	274	229
	20	1000						834	669	549	458
	30	1500						1251	1004	823	687
Ø20 (*)	30	1500						1415	1160	969	
	40	2000						1887	1547	1291	

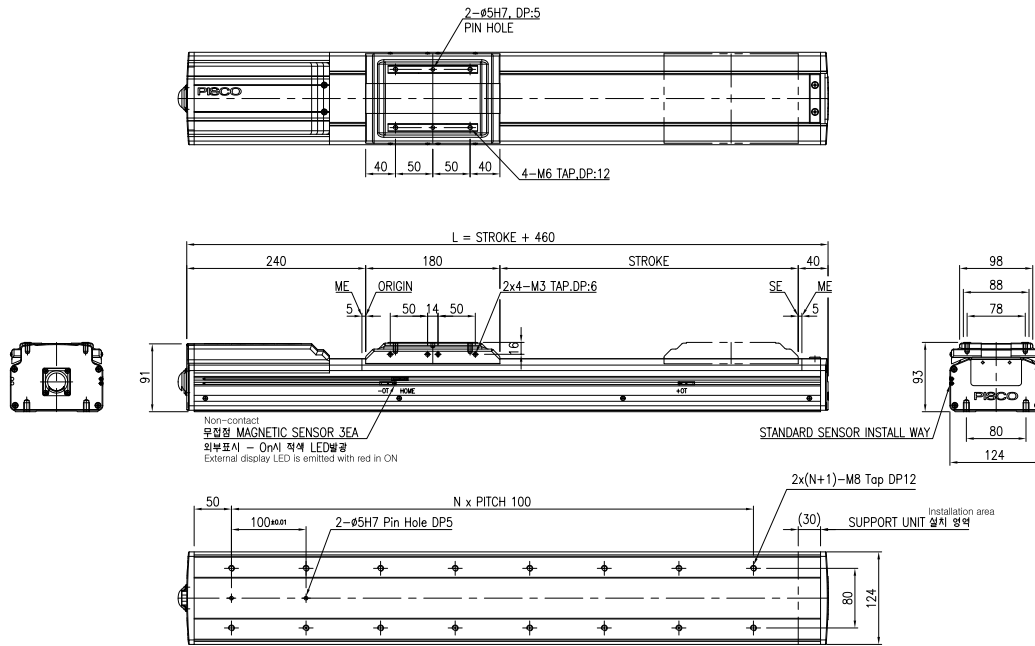
※ 볼나사 규격 20□□의 경우 모두 특주로 대응됩니다.
Ball screw size 20□□ is special order.

■ 이송거리별 무게 Weight by Stroke

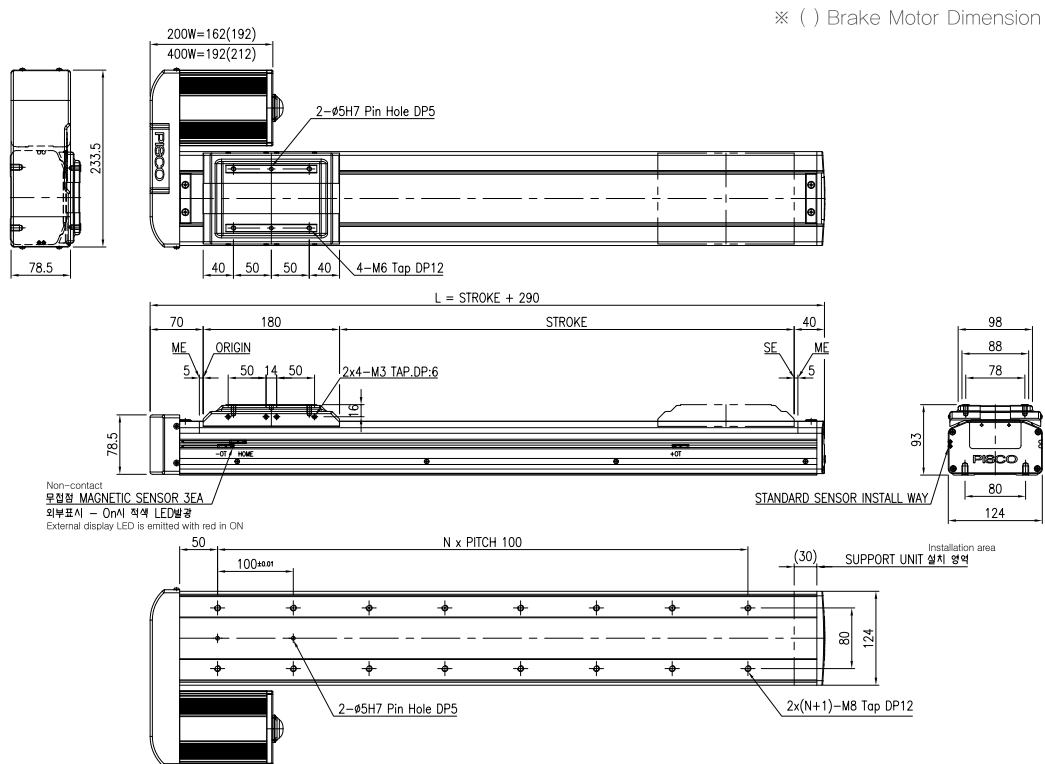
PHRC120 Robot			Stroke(mm) & Weight(kg)									
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000
200W	Ø15	S	8.2	9.0	9.9	10.7	11.6	12.4	13.3	14.1	15.0	15.8
		P	7.8	8.6	9.5	10.3	11.2	12.0	12.9	13.7	14.6	15.4
	Ø20 (*)	S	8.8	9.8	10.8	11.8	12.8	13.8	14.8	15.8	16.8	17.8
		P	8.3	9.3	10.3	11.3	12.3	13.3	14.3	15.3	16.3	17.3
400W	Ø15	S	9.0	9.9	11.6	12.5	13.7	14.9	16.1	17.3	18.5	19.7
		P	8.5	9.4	11.1	11.9	13.2	14.4	15.6	16.8	18.0	19.2
	Ø20 (*)	S	9.4	10.4	11.4	12.4	13.4	14.4	15.4	16.4	17.4	18.4
		P	8.8	9.8	10.8	11.8	12.8	13.8	14.9	15.9	16.9	17.9

※ 볼나사 규격 20□□의 경우 모두 특주로 대응됩니다.
Ball screw size 20□□ is special order.

PHRC120-S-20(40)

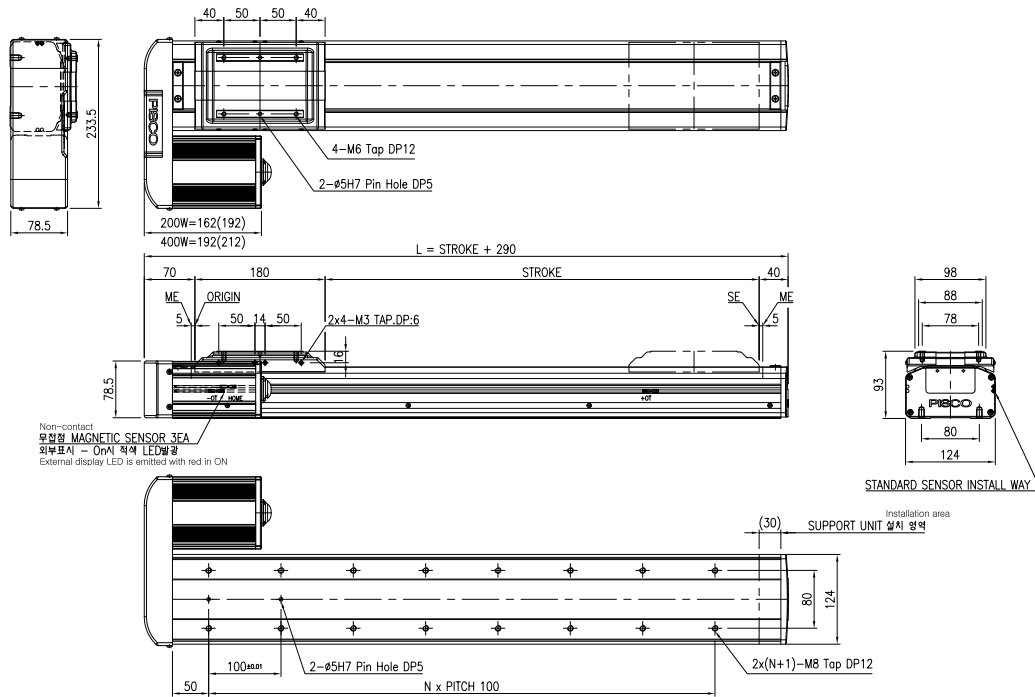


PHRC120-L-20(40)



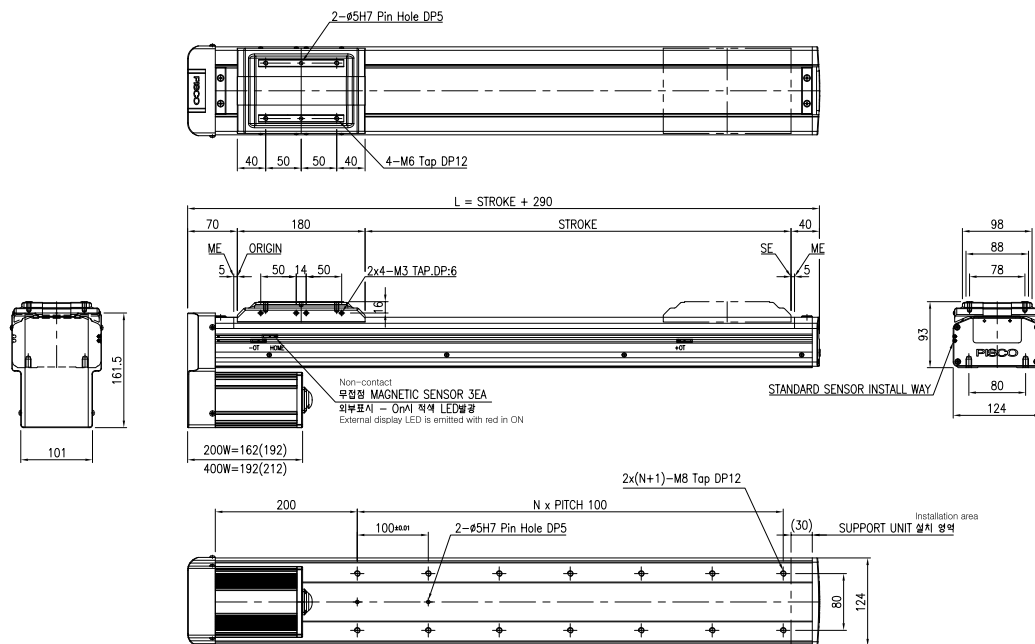
PHRC120-R-20(40)

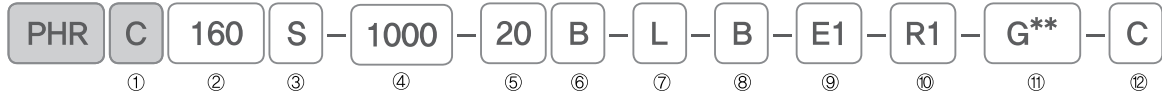
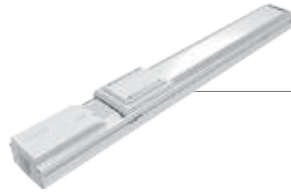
※ () Brake Motor Dimension



PHRC120-U-20(40)

※ () Brake Motor Dimension





① 형식 Type

C	Clean Robot, Ball Screw Type
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② 본체 사이즈 Body Size

160	160mm
-----	-------

③ 형상 Shape

S	Straight
L	Left
R	Right
U	Under

⑤ 모터 용량 Motor Capacity

86	Stepping Motor 86 mm
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⑥ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)
L : 2005	
N : 2010	
H : 2020	
P : 2030	
S : 2040	
U : 2060(*)	
L : 1505(*)	
N : 1510(*)	
H : 1520(*)	
P : 1530(*)	

* 볼나사 규격 15□□, 2060의 경우 모두 특수로 대응됩니다. Ball screw size 15□□, 2060 is special order.

⑦ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s
H	1000mm/s
P	1500mm/s
S	2000mm/s
U(*)	3000mm/s

⑧ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑨ 센서 Sensor

None	External DC-24 Proximity LED Sensor(Standard)
E1	SUNX(PM-Y65)
E2	OMRON(EE-SX674A)
E3	SUNX(PM-L25)

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail+Block & Screw Shaft + Nut-Raydent

⑪ 감속기 Reduction Gear

None	Without Reduction Gear(Standard)
G**	With Reduction Gear
**	Reduction Gear Ratio 03~10

⑫ 케이블베어 Cableveyor

None	Without Cableveyor
C	With Cableveyor

* 1. 볼나사의 회전수가 높아지면 축의 고유 진동수에 의한 공진 발생과 볼나사 축의 회전 원심력에 의한 내부 볼 손실 및 리턴부 손상발생으로 위험속도를 개선하여 이송거리에 따른 최고 사용 속도를 정합니다.
If the ball screw speed is raised, the rotary generates a resonance and the circular rotation of the inner ball can cause damage to the inner ball, therefore, calculate the risk velocity and determine the maximum speed according to the transfer distance.
* 2. 상기 사양은 특수사양으로 피스코코리아 모션사업부 고객센터에 문의하여 주십시오.
Please contact the customer support center of PISCO KOREA Motion division in case of special ordered specifications.

사양 Specifications

■ 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1500
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø15, Ø20
Guide	2 Way 20W - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Main & Side Cover	Steel Band & Aluminum Profile, Soft White Anodizing(*)

* Side Cover에 Transparent PC Extrude Profile의 사양은 특수로 대응됩니다.
The specifications of the transparent PC extruded profile on the side cover are special order.

■ 허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
		40kg	50kg	60kg	70kg
Horizontal Use	90°	340	280	235	205
	45°	280	226	191	166
	0°	1000	820	670	560
Wall Mount Use	90°	585	430	320	240
	45°	176	124	88	60
	0°	220	155	105	75
Vertical Use	90°	130	95	70	55
	45°	48	56	42	32
	0°	190	140	105	80
Estimated Condition	Stroke : 1000mm Speed : 1000mm/sec Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr				

■ 최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed Mark	mm/s	Stepping Motor 86 mm	
			Horizontal	Vertical
2005	L	250	70kg	70kg
2010	N	500	70kg	70kg
2020	H	1000	70kg	41kg
2030	P	1500	63kg	25kg
2040	S	2000	30kg	18kg
2060(*)	U	3000	2kg	2kg
1505(*)	L	250	70kg	70kg
1510(*)	N	500	70kg	70kg
1520(*)	H	1000	70kg	41kg
1530(*)	P	1500	66kg	25kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Motor Rotate : 3000rpm			

* 볼나사 규격 15□□, 2060의 경우 모두 특수로 대응됩니다.
Ball screw size 15□□, 2060 is special order.

■ 이송거리별 최고속도 Max Speed by Stroke

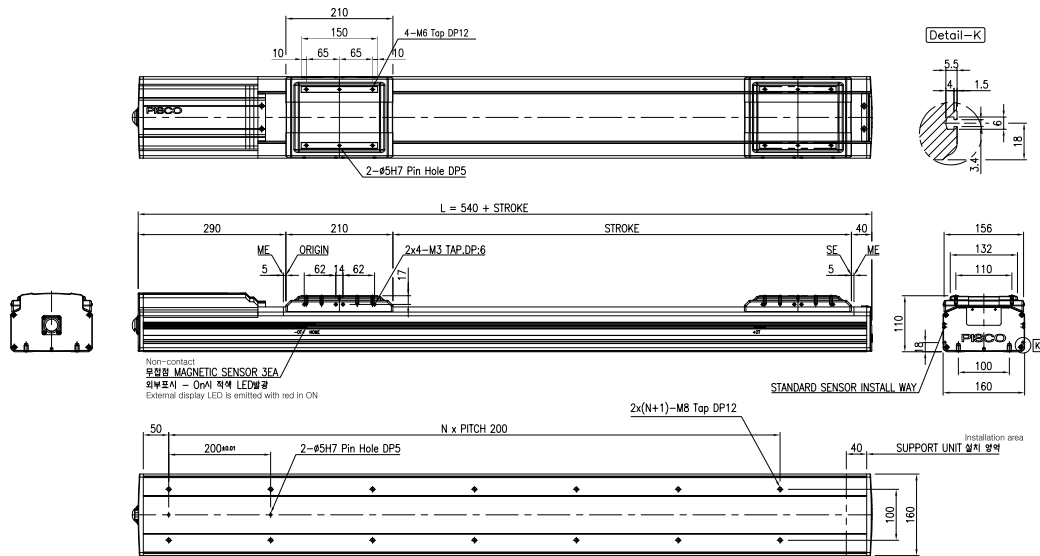
Ball Screw		Stroke(mm) & Speed(mm/sec)										
DIA	Lead	100	200	300	400	500	600	700	800	900	1000	
Ø20	5	250					242	198	165	140		
	10	500					485	396	330	279		
	20	1000					969	793	660	559		
	30	1500					1454	1189	991	838		
	40	2000					1939	1585	1321	1117		
	60(※)	3000					2908	2378	1981	1676		
Ø15 (※)	5	250				215	172	141	117	99		
	10	500				430	344	281	234	198		
	20	1000				860	688	562	468	396		
	30	1500				1290	1032	844	703	594		

※ 볼나사 규격 15□□, 2060의 경우 모두 특주로 대응됩니다.
Ball screw size 15□□, 2060 is special order.

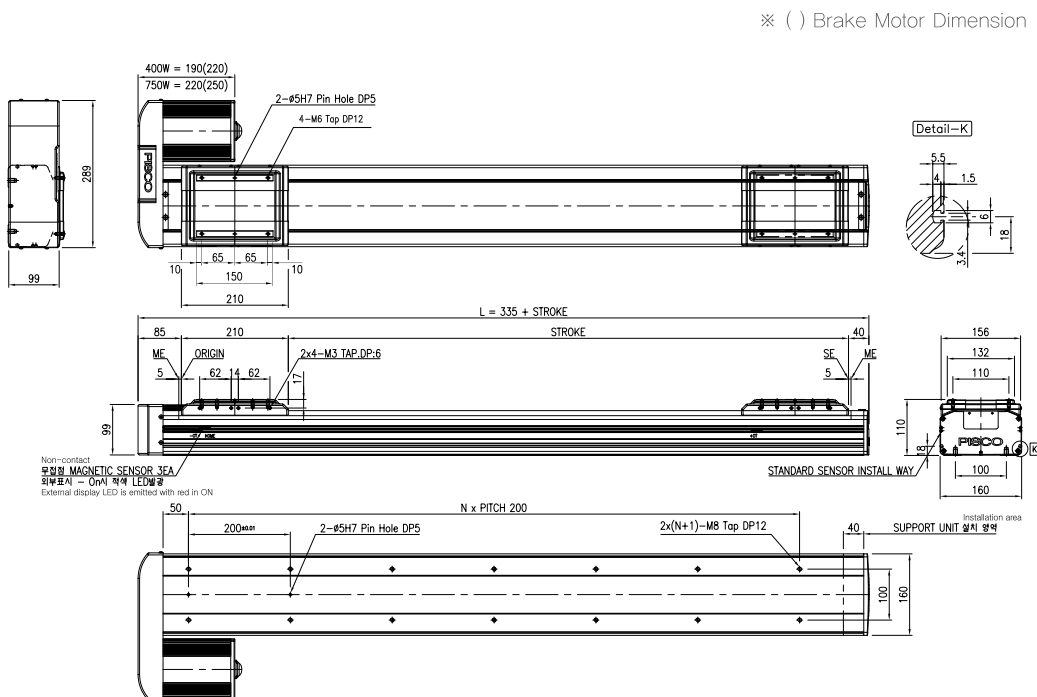
■ 이송거리별 무게 Weight by Stroke

PHRC160 Robot			Stroke(mm) & Weight(kg)									
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000
400W	Ø20	S	14.3	15.7	17.1	18.5	19.8	21.2	22.6	24.0	25.4	26.8
		P	13.7	15.1	16.5	17.9	19.3	20.7	22.1	23.5	24.9	26.3
	Ø15	S	13.3	14.5	15.7	17.0	18.2	19.5	20.7	21.9	23.2	24.4
		P	12.6	13.9	15.1	16.4	17.6	18.8	20.1	21.3	22.5	23.8
750W	Ø20	S	15.7	17.1	18.5	19.9	21.3	22.7	24.0	25.4	26.8	28.2
		P	15.2	16.6	18.0	19.3	20.7	22.1	23.5	24.9	26.3	27.7
	Ø15	S	14.7	15.9	17.2	18.4	19.6	20.9	22.1	23.3	24.6	25.8
		P	14.1	15.3	16.5	17.8	19.0	20.3	21.5	22.7	24.0	25.2

PHRC160-S-40(75)



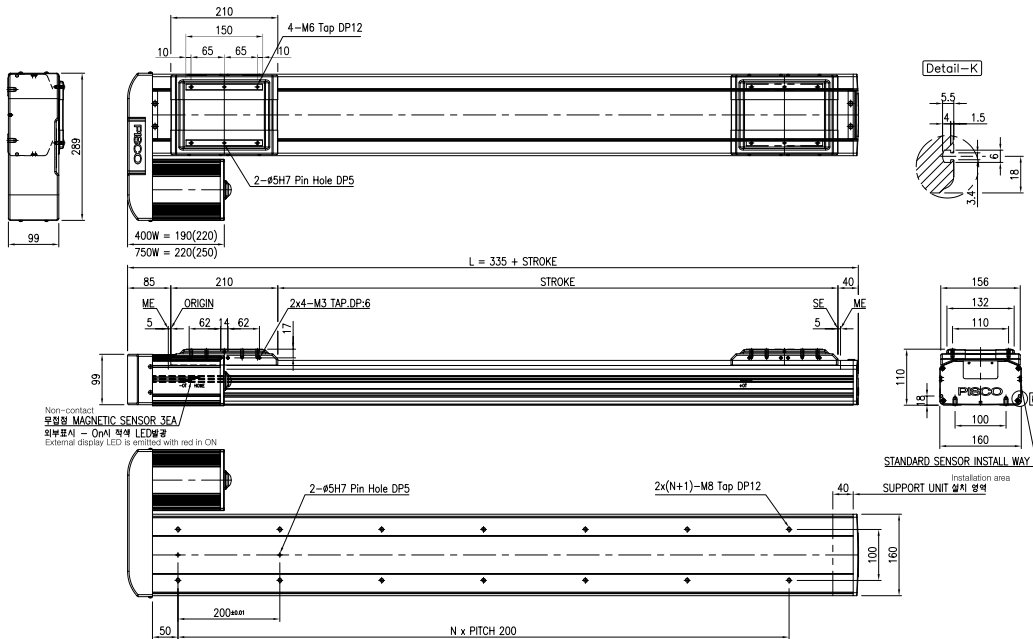
PHRC160-L-40(75)



※ () Brake Motor Dimension

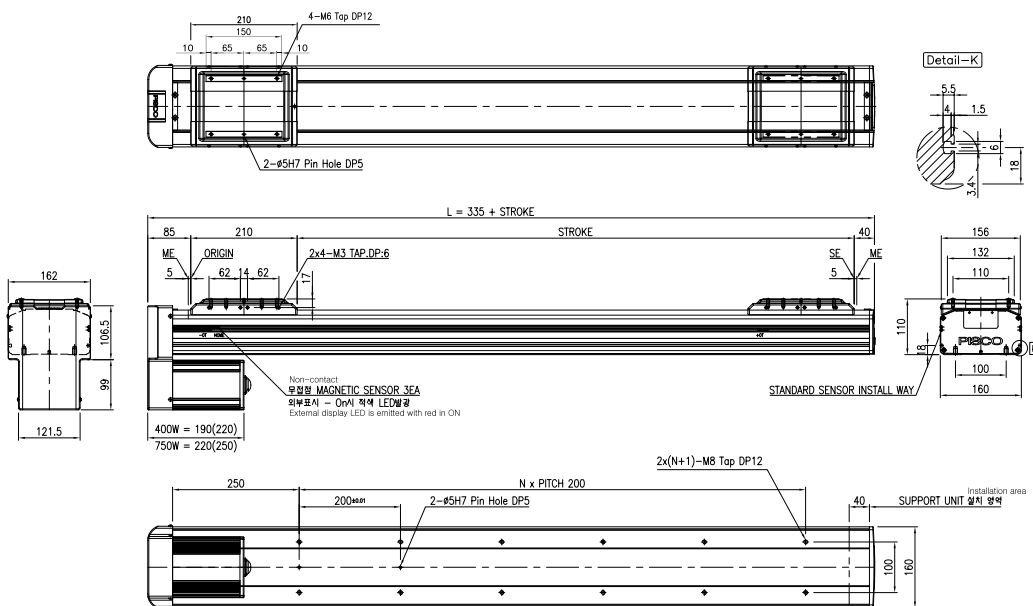
PHRC160-R-40(75)

※ () Brake Motor Dimension



PHRC160-U-40(75)

※ () Brake Motor Dimension



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