



PHRC

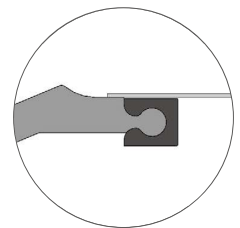
series



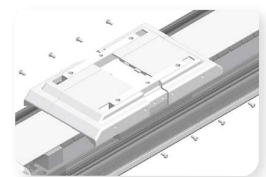
30 40 50 Mini 타입 등 다양한 제품군
Various products line-up including mini types of 30, 40 and 50.

투시형 커버 (폴리 · 모터)
Transparent cover(Pulley-motor)

압출 자석 적용으로 높은 내구성
High durability according to using extruded magnet.



2분할 SLIDE COVER로 교체가 용이
Easy to replace as separated type slide cover.



PHRC Series

주문형식 Order Information

PHR	C	30	-	S	-	250	-	5	B	-	L	_____
	①	②		③		④		⑤	⑥		⑦	

① 형식 Type

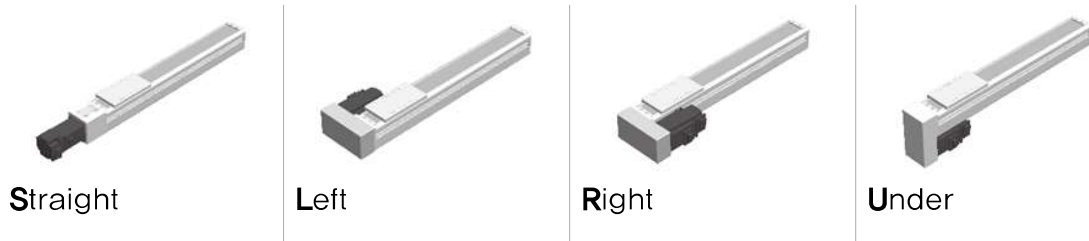
C	Clean Robot, Ball Screw Type
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② 본체 사이즈 Body Size

30	30mm
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③ 형상 Shape

Normal
Type



④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	100	200	300	400	500
L : 0802-C7						

⑤ 모터용량 Motor capacity

5	50W	10	100W
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⑥ 브레이크 부착 Motor Brake

None	Without Brake	B	With Brake
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⑦ 속도 Speed, Motor 3000 rpm

L	100mm/s
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※1 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.

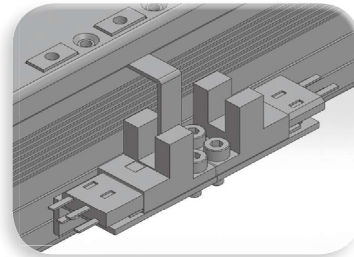
선택사양 Option



⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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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	S1	Screw Shaft-Raydent
R2	LM Rail+Block-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
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

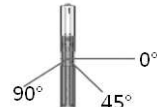
SBAC

사양 Specifications

공통사양 Common Specifications

Stroke Range	mm	50 ~ 250
Positioning Repeatability		± 0.02 (Rolled, Ground C7)
Drive System	mm	Ball Screw Ø8
Guide		1 Way 9 – 1UU
Main Base & Slide		Aluminum Profile, Soft White Anodizing
Cover		Steel Band

허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity		Setting Angle	Allowable Overhang Distance (mm)			
			3kg	5kg	7kg	10kg
Horizontal Use		0°	85	45	35	20
		45°	105	60	40	25
		90°	320	180	125	80
Wall Mount Use		0°	260	130	70	20
		45°	60	38	18	—
		90°	100	60	45	—
Vertical Use		0°	65	40	28	20
		45°	45	30	20	14
		90°	65	40	28	20
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed		AC Servo Motor 50W		AC Servo Motor 100W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical
0802-C7	L	100	9kg	4kg	13kg	6kg
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm					

이송거리별 최고속도 Max Speed by Stroke

Ball Screw		Stroke (mm) & Speed (mm/sec)									
DIA	Lead	50	100	150	200	250	300	350	400	450	500
Ø8	2	100									

이송거리별 무게 Weight by Stroke

PHRC030 Robot			Stroke (mm) & Weight (kg)									
Motor	DIA	Type	50	100	150	200	250	300	350	400	450	500
100W	Ø8	S	4.4	4.9	5.4	5.9	6.4					
		P	4.3	4.8	5.3	5.8	6.3					

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

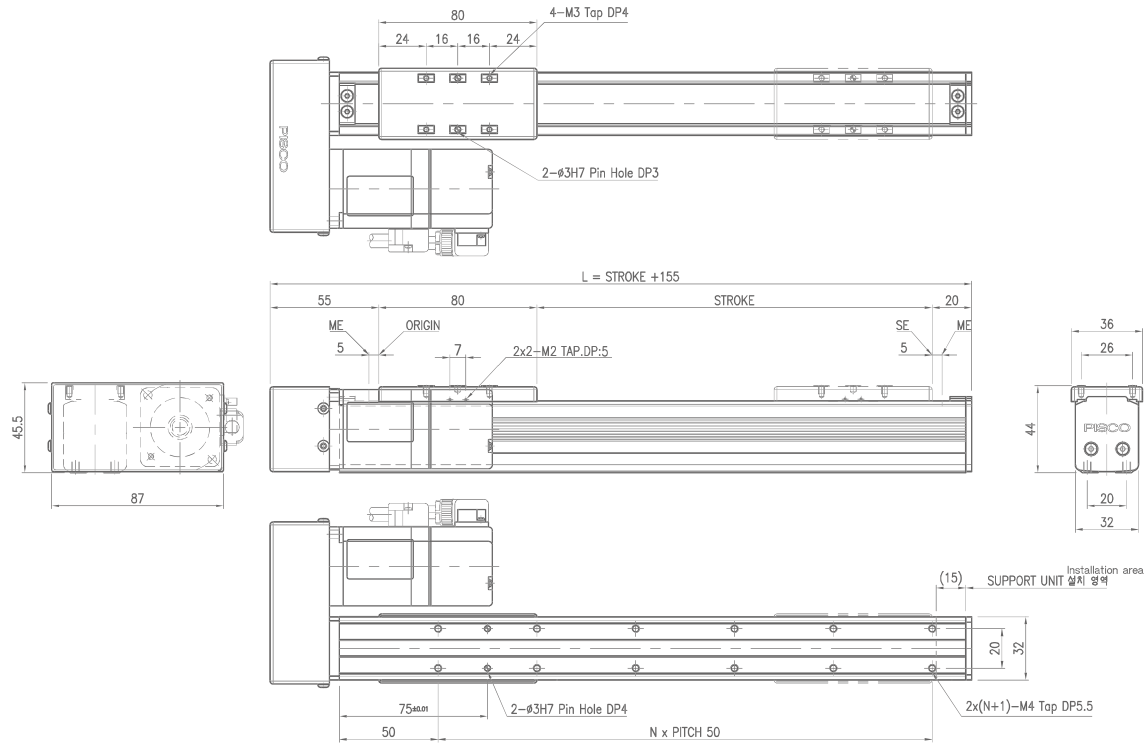
PLR

PSB/PHB

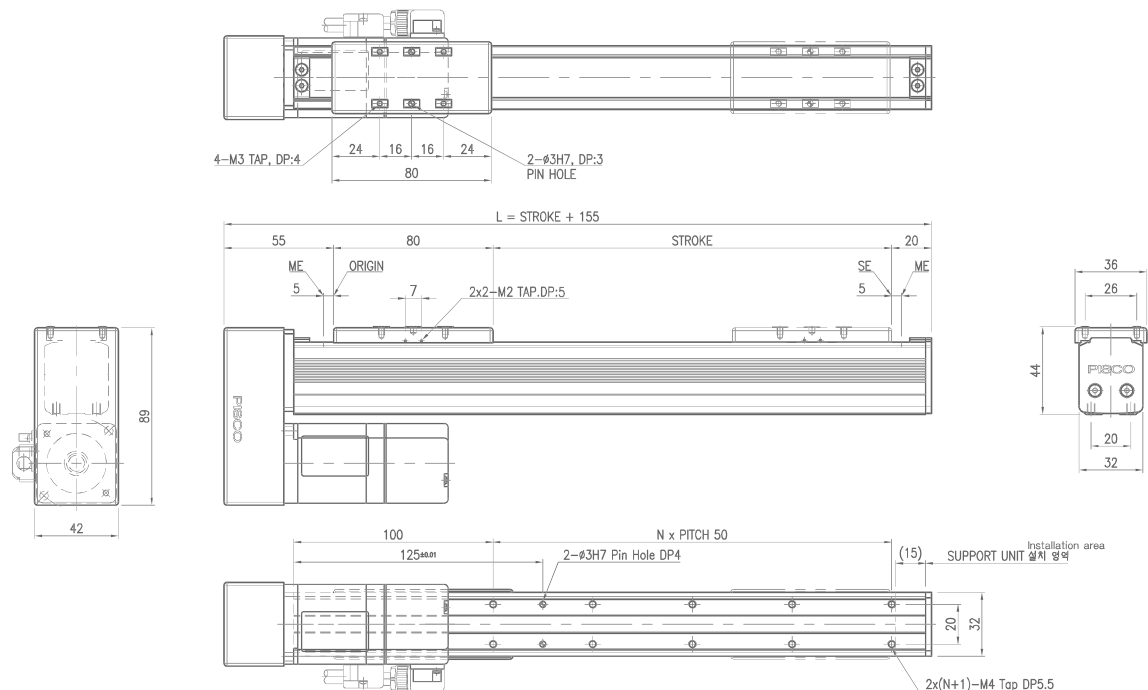
Gearbox

SBAC

PHRC030-R-10



PHRC030-U-10



PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

PHRC Series

주문형식 Order Information

PHR **C** **40** - **S** - **500** - **5** **B** - **L**

① ② ③ ④ ⑤ ⑥ ⑦

① 형식 Type

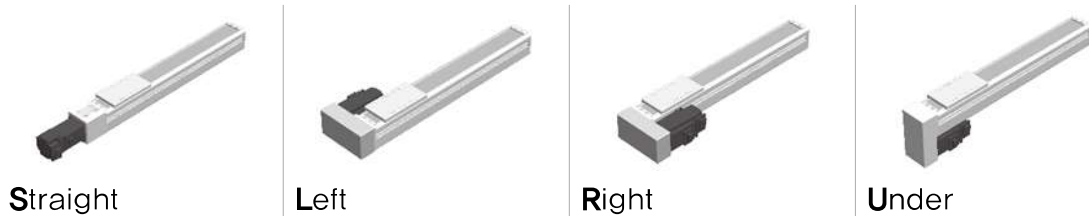
C Clean Robot, Ball Screw Type

② 본체 사이즈 Body Size

40 40mm

③ 형상 Shape

Normal Type



④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	200	400	600	800	1000
L : 1205-C7						
N : 1210-C7						

⑤ 모터용량 Motor capacity

5 50W **10** 100W

⑥ 브레이크 부착 Motor Brake

None Without Brake **B** With Brake

⑦ 속도 Speed, Motor 3000 rpm

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.

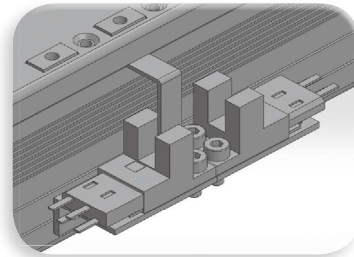
선택사양 Option



⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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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	S1	Screw Shaft-Raydent
R2	LM Rail+Block-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
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

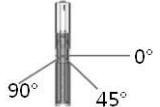
SBAC

사양 Specifications

공통사양 Common Specifications

Stroke Range	mm	100 ~ 500
Positioning Repeatability		± 0.02 (Rolled, Ground C7)
Drive System	mm	Ball Screw $\varnothing 12$
Guide		1 Way 12 – 1UU
Main Base & Slide		Aluminum Profile, Soft White Anodizing
Cover		Steel Band

허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity		Setting Angle	Allowable Overhang Distance (mm)			
			3kg	5kg	7kg	10kg
Horizontal Use		0°	85	45	35	20
		45°	105	60	40	25
		90°	320	180	125	80
Wall Mount Use		0°	260	130	70	20
		45°	60	38	18	—
		90°	100	60	45	—
Vertical Use		0°	65	40	28	20
		45°	45	30	20	14
		90°	65	40	28	20
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed		AC Servo Motor 50W		AC Servo Motor 100W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical
1205–C7	L	250	9kg	4kg	13kg	6kg
1210–C7	N	500	5kg	2kg	9kg	4kg
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Servo 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
Ø12	5	250									
	10	500									

이송거리별 무게 Weight by Stroke

PHRC040 Robot			Stroke (mm) & Weight (kg)									
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000
100W	Ø12	S	4.4	4.9	5.4	5.9	6.4					
		P	4.3	4.8	5.3	5.8	6.3					

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

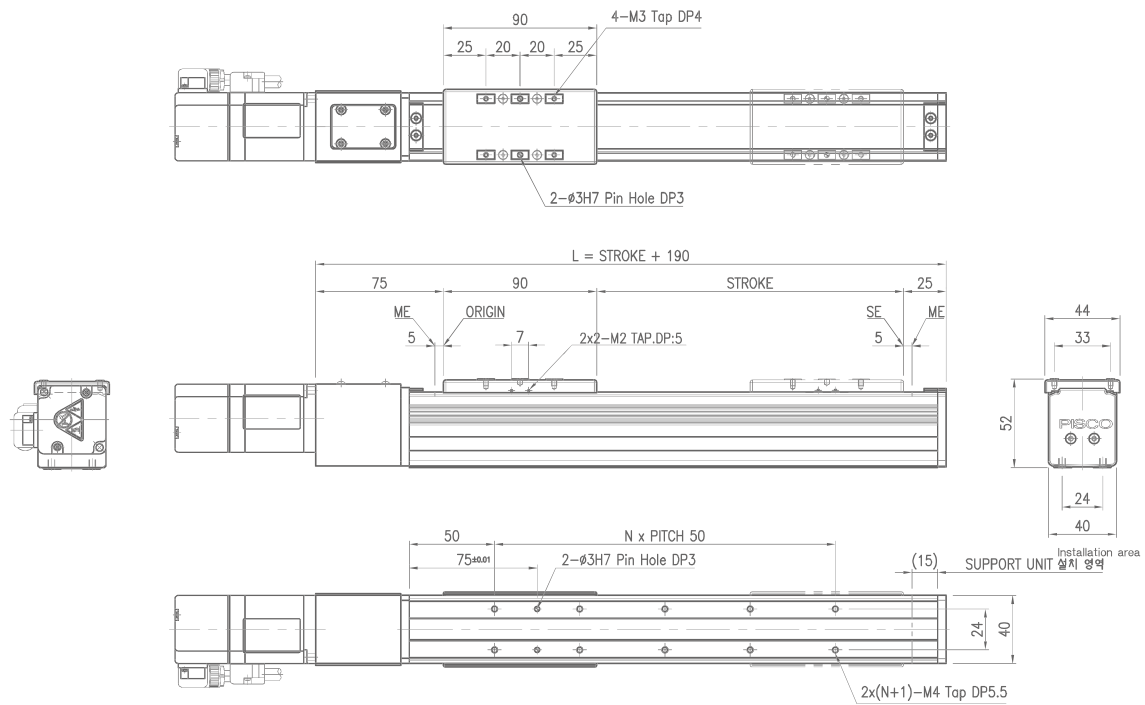
PSB/PHB

Gearbox

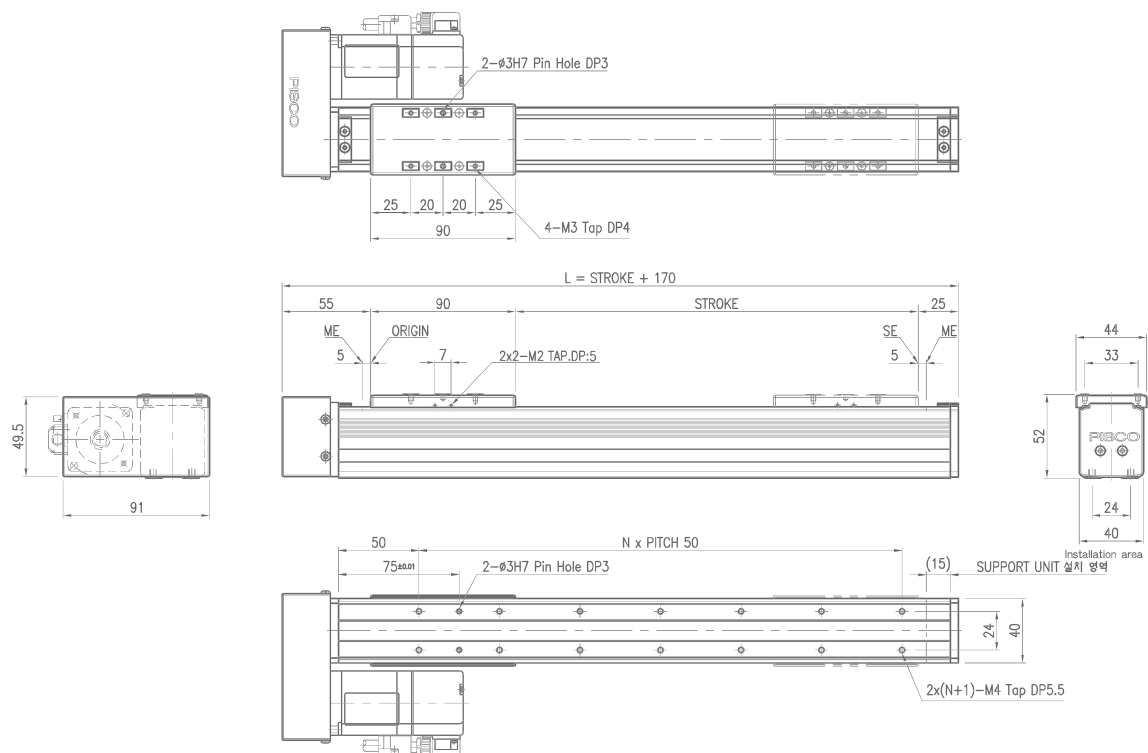
SBAC

치수도 Dimension (mm)

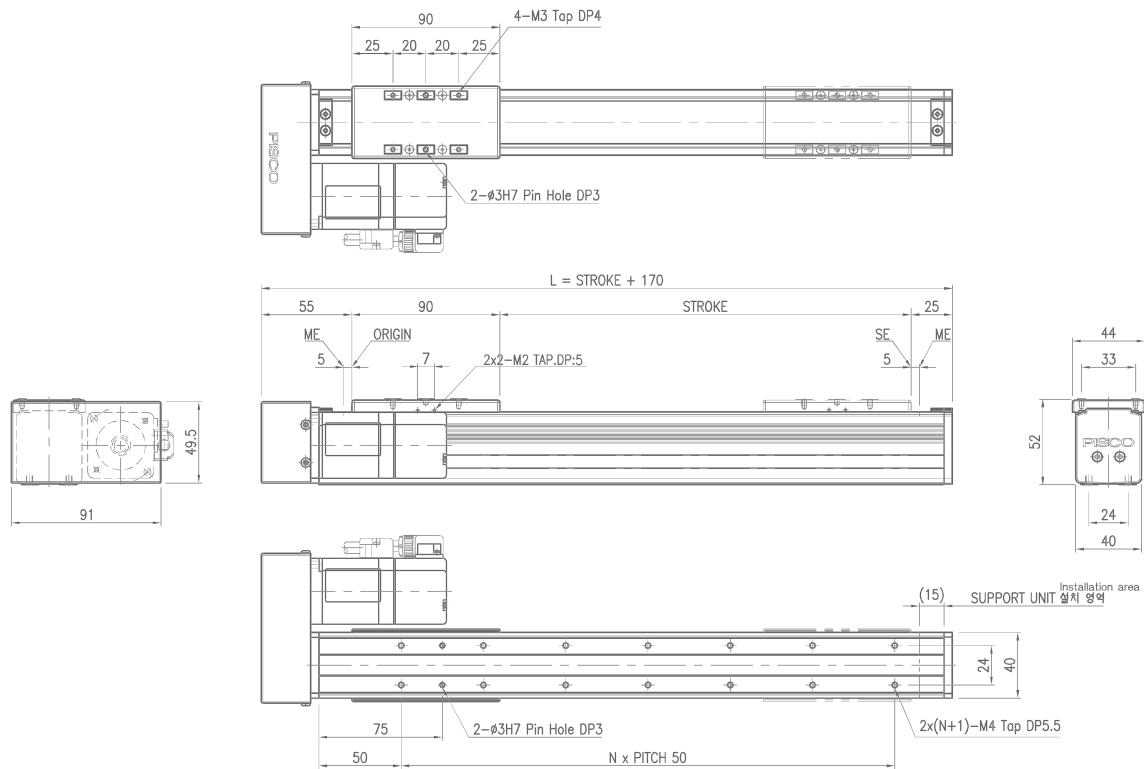
PHRC040-S-10



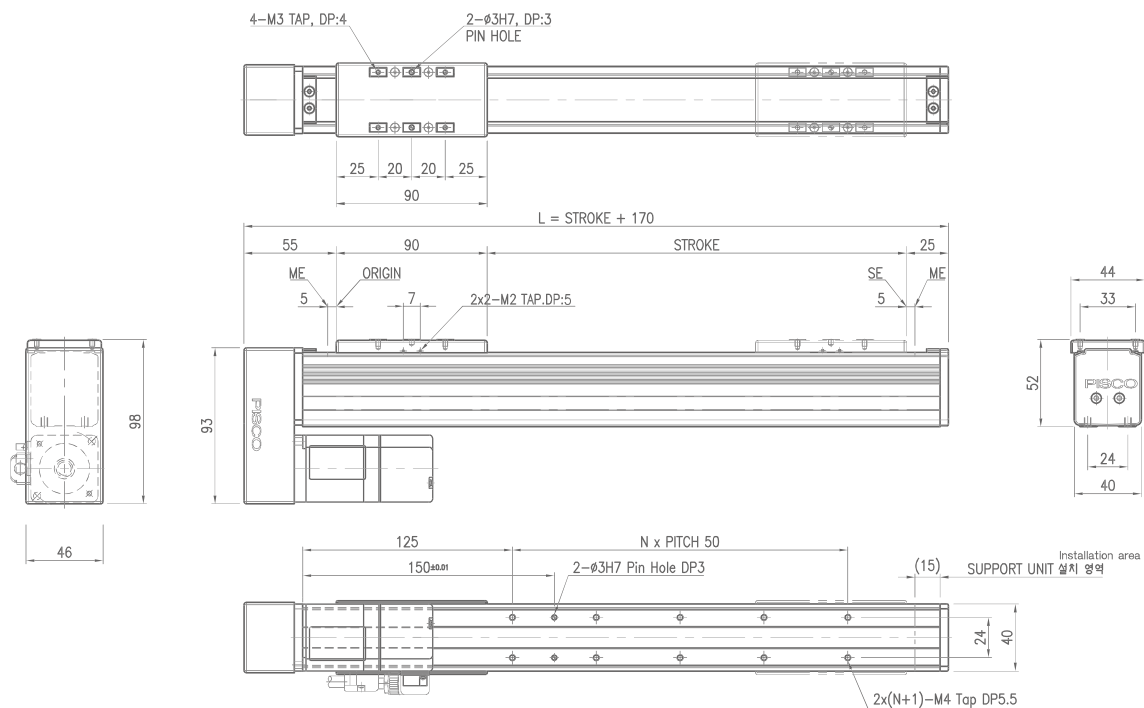
PHRC040-L-10



PHRC040-R-10



PHRC040-U-10



PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

PHRC Series

주문형식 Order Information

PHR **C** **50** - **S** - **500** - **5** **B** - **L** —————

① ② ③ ④ ⑤ ⑥ ⑦

① 형식 Type

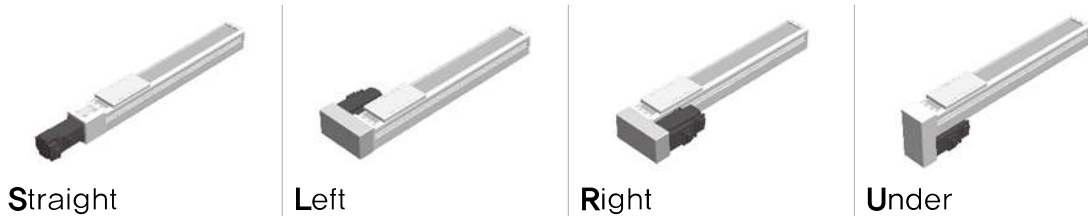
C Clean Robot, Ball Screw Type

② 본체 사이즈 Body Size

50 50mm

③ 형상 Shape

Normal Type



④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	200	400	500	600	800	1000
L : 1205-C7							
N : 1210-C7							
NEW H : 1220-C7							

⑤ 모터용량 Motor capacity

5 50W **10** 100W

⑥ 브레이크 부착 Motor Brake

None Without Brake **B** With Brake

⑦ 속도 Speed, Motor 3000 rpm

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.

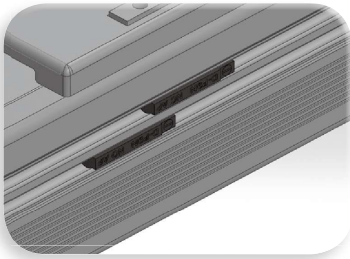
선택사양 Option



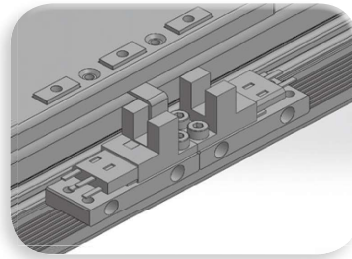
⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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⑨ 센서 Sensor



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

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment	
R1	LM Rail-Raydent	S1 Screw Shaft-Raydent
R2	LM Rail+Block-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
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

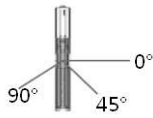
SBAC

사양 Specifications

공통사양 Common Specifications

Stroke Range	mm	100 ~ 500
Positioning Repeatability		± 0.02 (Rolled, Ground C7)
Drive System	mm	Ball Screw $\varnothing 12$
Guide		1 Way 24 – 1UU
Main Base & Slide		Aluminum Profile, Soft White Anodizing
Cover		Steel Band

허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity		Setting Angle	Allowable Overhang Distance (mm)			
			3kg	5kg	7kg	10kg
Horizontal Use		0°	85	45	35	20
		45°	105	60	40	25
		90°	320	180	125	80
Wall Mount Use		0°	260	130	70	20
		45°	60	38	18	—
		90°	100	60	45	—
Vertical Use		0°	65	40	28	20
		45°	45	30	20	14
		90°	65	40	28	20
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Life in traveled distance : 15000km or 15000Hr					

최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed		AC Servo Motor 50W		AC Servo Motor 100W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical
1205—C7	L	250	9kg	4kg	13kg	6kg
1210—C7	N	500	5kg	2kg	9kg	4kg
1220—C7	H	1000	2kg	1kg	4kg	2kg
Estimated Condition	Stroke : 200mm Speed : Max Speed Acceleration : 0.2sec Servo 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
Ø12	5	250									
	10	500									
	20	1000									

이송거리별 무게 Weight by Stroke

PHRC050 Robot			Stroke (mm) & Weight (kg)									
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000
100W	Ø12	S	4.4	4.9	5.4	5.9	6.4					
		P	4.3	4.8	5.3	5.8	6.3					

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

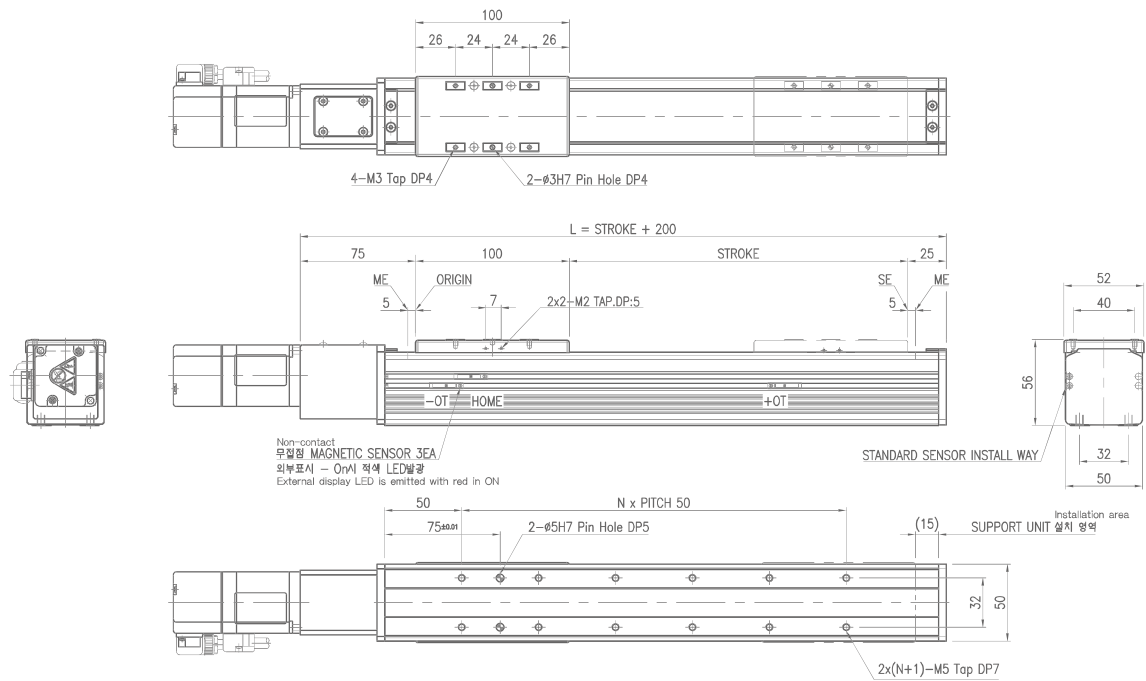
PSB/PHB

Gearbox

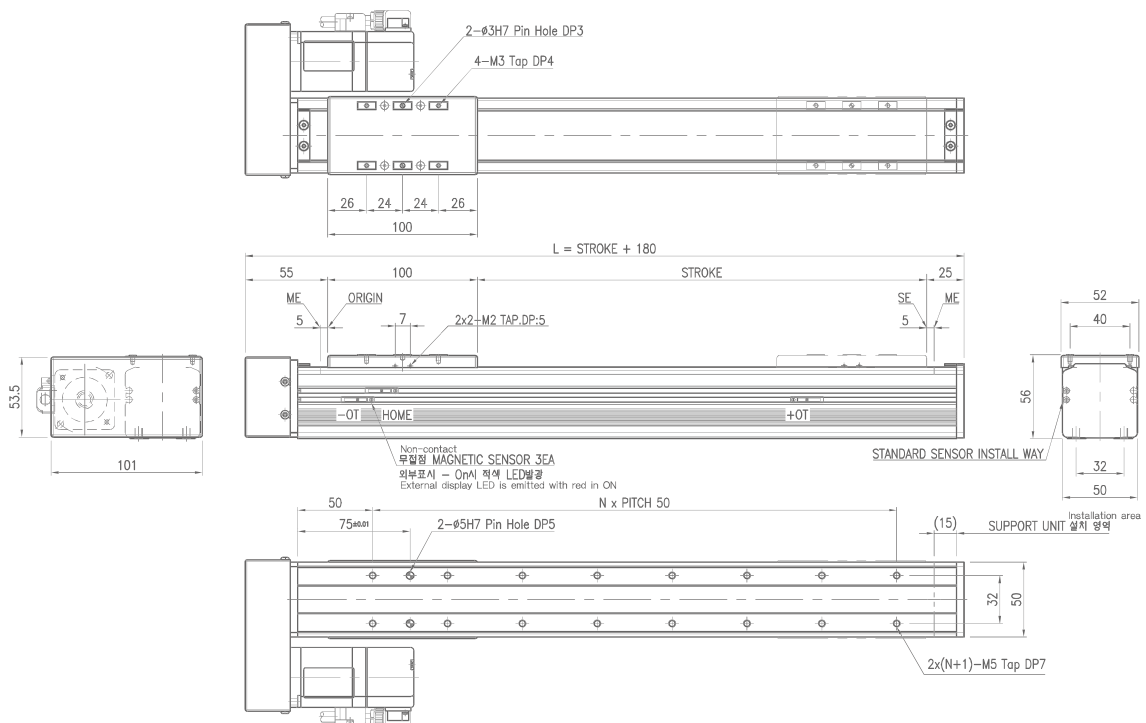
SBAC

치수도 Dimension (mm)

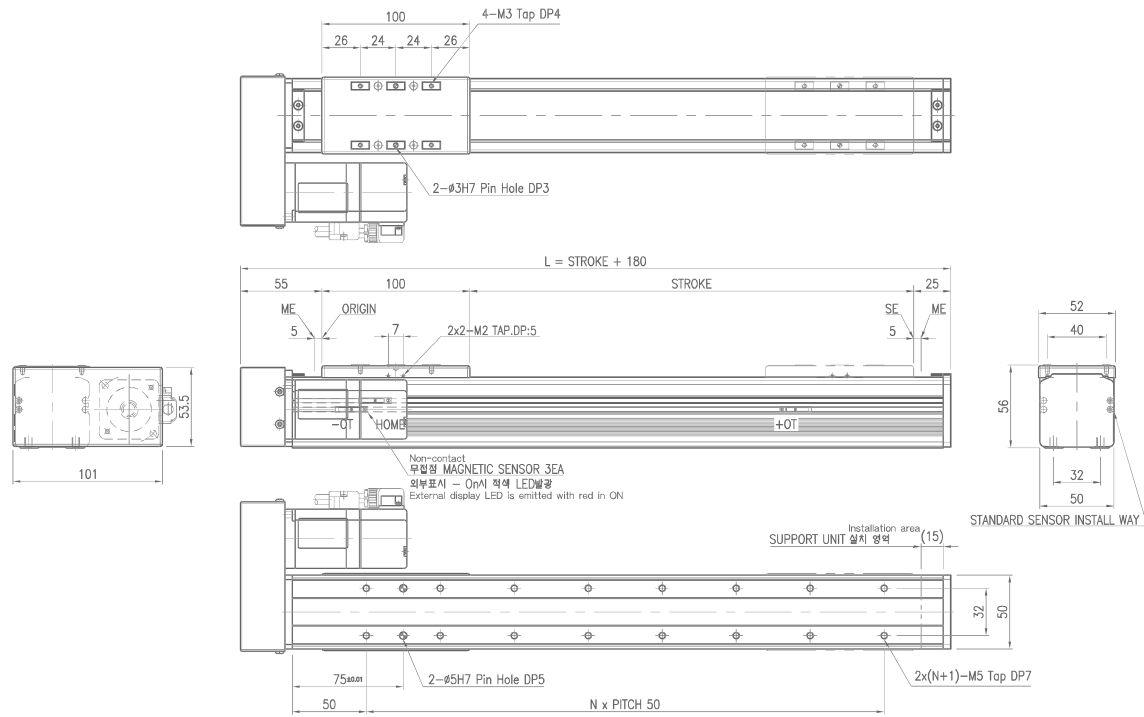
PHRC050-S-10



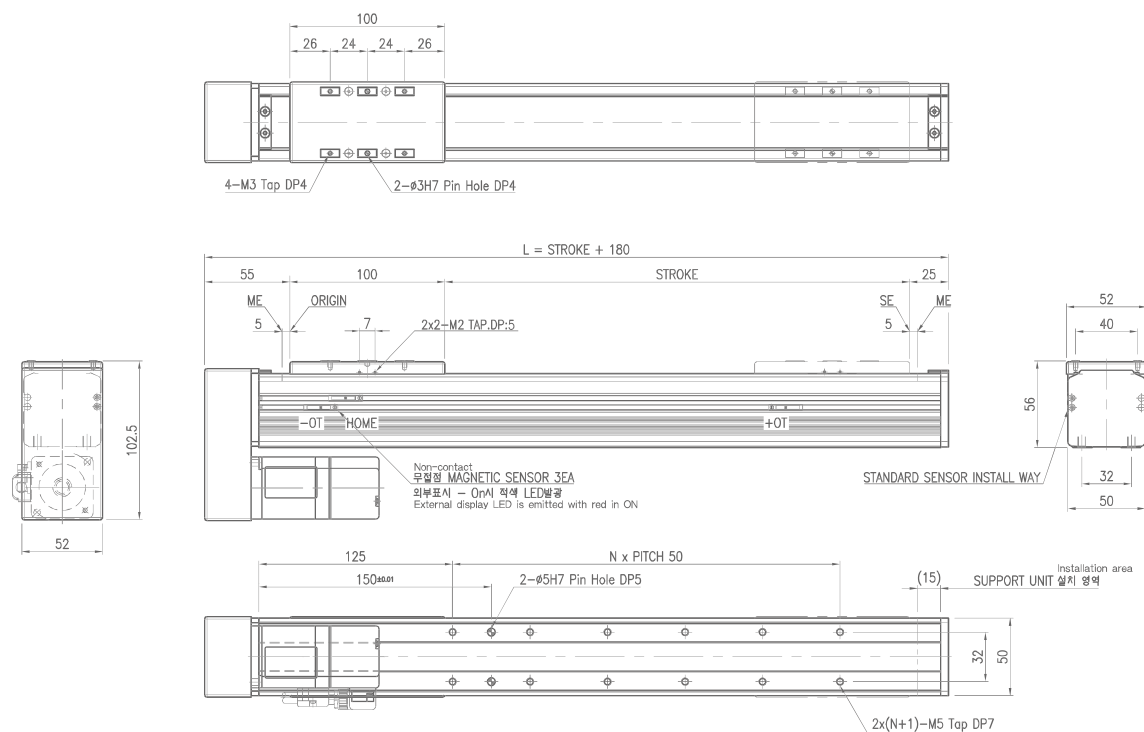
PHRC050-L-10



PHRC050-R-10



PHRC050-U-10



PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

PHRC Series

주문형식 Order Information

PHR **C** **70** - **S** - **1000** - **10** **B** - **L** —————

① ② ③ ④ ⑤ ⑥ ⑦

① 형식 Type

C Clean Robot, Ball Screw Type

② 본체 사이즈 Body Size

70 70mm

③ 형상 Shape

Normal Type



④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000	1500	2000	2500
L : 1505-C7					
N : 1510-C7					
H : 1520-C7					
NEW P : 1530-C7					

⑤ 모터용량 Motor capacity

10 100W **NEW 20** 200W

※ 200W일 경우 형상이 모터 돌출 타입으로 대응됩니다.
 In case of 200W, the shape can be responded with protruded type motor.

⑥ 브레이크 부착 Motor Brake

None Without Brake **B** With Brake

⑦ 속도 Speed, Motor 3000 rpm

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

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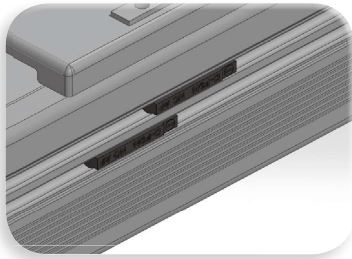
선택사양 Option



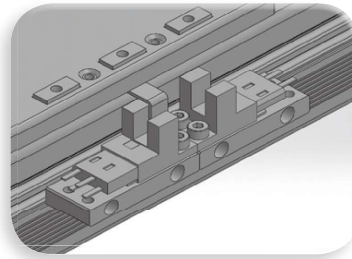
⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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⑨ 센서 Sensor



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

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment	
R1	LM Rail-Raydent	S1 Screw Shaft-Raydent
R2	LM Rail+Block-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
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

사양 Specifications

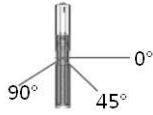
공통 사양 Common Specifications

Stroke Range	mm	100~1500
Positioning Repeatability		± 0.02 (Ground C7), ± 0.01 (Ground C5)
Drive System	mm	Ball Screw $\varnothing 15$
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.

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					

최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed		AC Servo Motor 100W	
	Mark	mm/s	Horizontal	Vertical
1505-C7	L	250	15kg	15kg
1510-C7	N	500	15kg	10kg
1520-C7	H	1000	8kg	4kg
1530-C7	P	1500	4kg	2kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Servo 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	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Ø15	5	250						211	169	138	115	98	84	73												
	10	500						421	337	276	231	195	168	145												
	20	1000						842	675	553	461	390	335	290	254	224										
	30	1500						1263	1011	828	693	585	504	435	381	336										

이송거리별 무게 Weight by Stroke

PHRC070 Robot			Stroke (mm) & Weight (kg)																								
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
100W	Ø15	S	4.5	5.0	5.5	6.0	6.5	7.0	7.5	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4										
		P	4.5	5.0	5.5	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.8	11.3										
200W	Ø15	S	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.2	9.7	10.2	10.7	11.2	11.7	12.2										
		P	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.4	9.9	10.4	10.9	11.4	11.9										

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

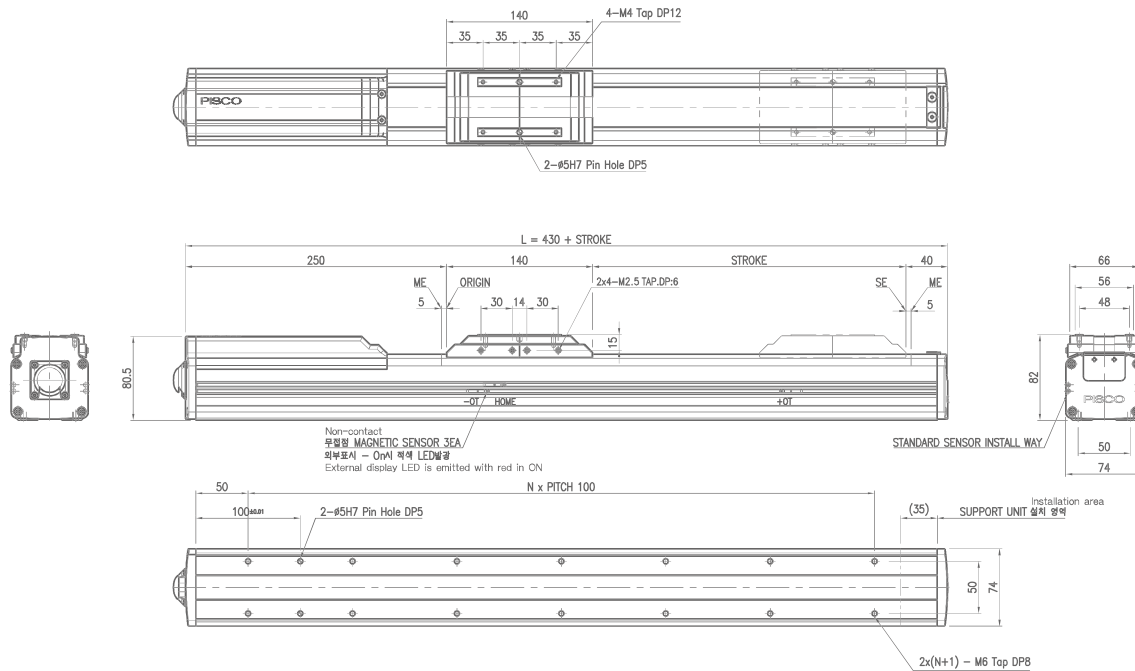
PSB/PHB

Gearbox

SBAC

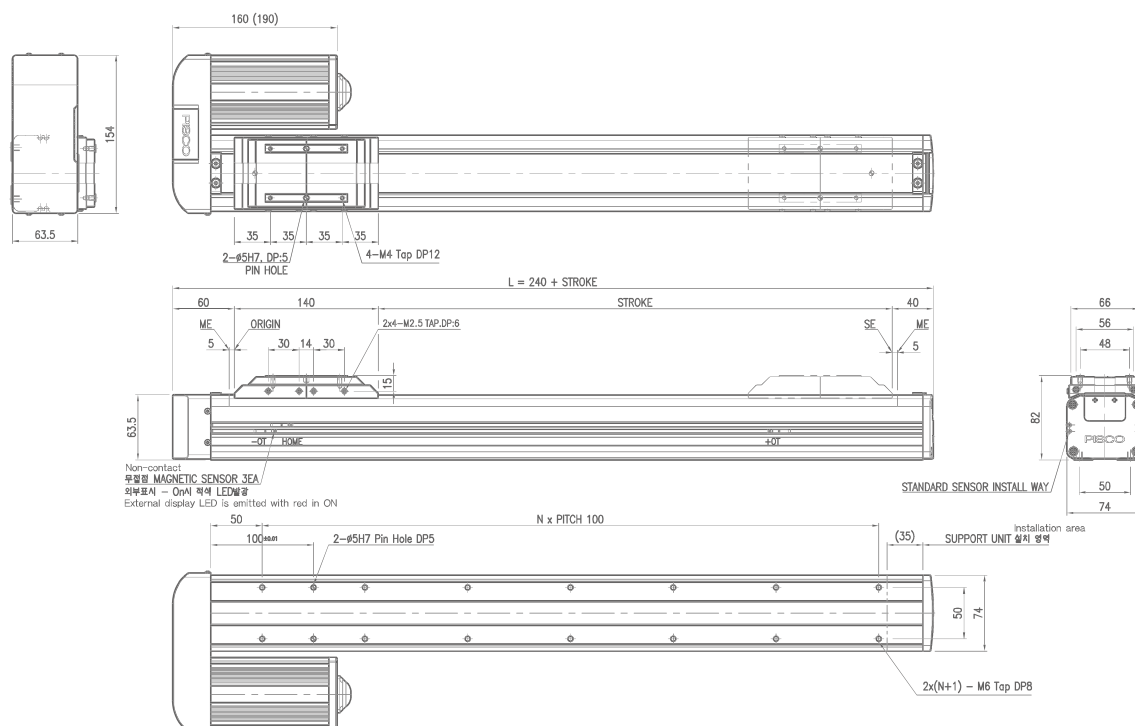
치수도 Dimension (mm)

PHRC070-S-10



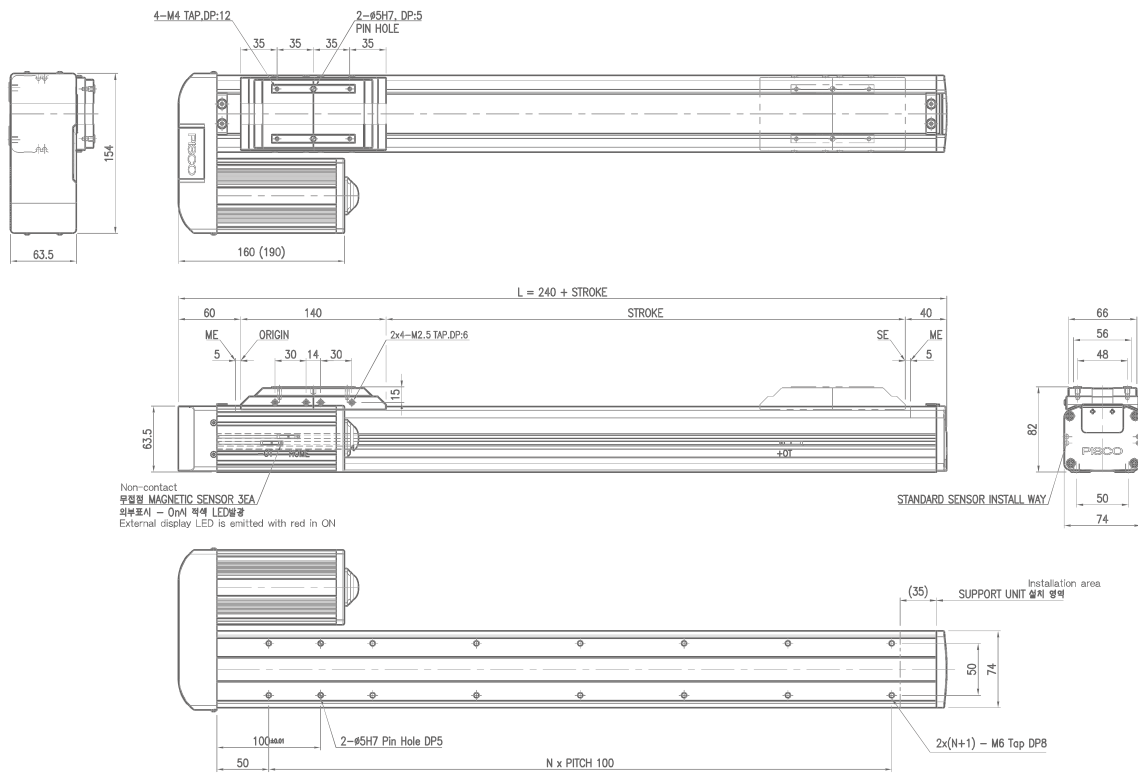
PHRC070-L-10

※ () Brake Motor Dimension



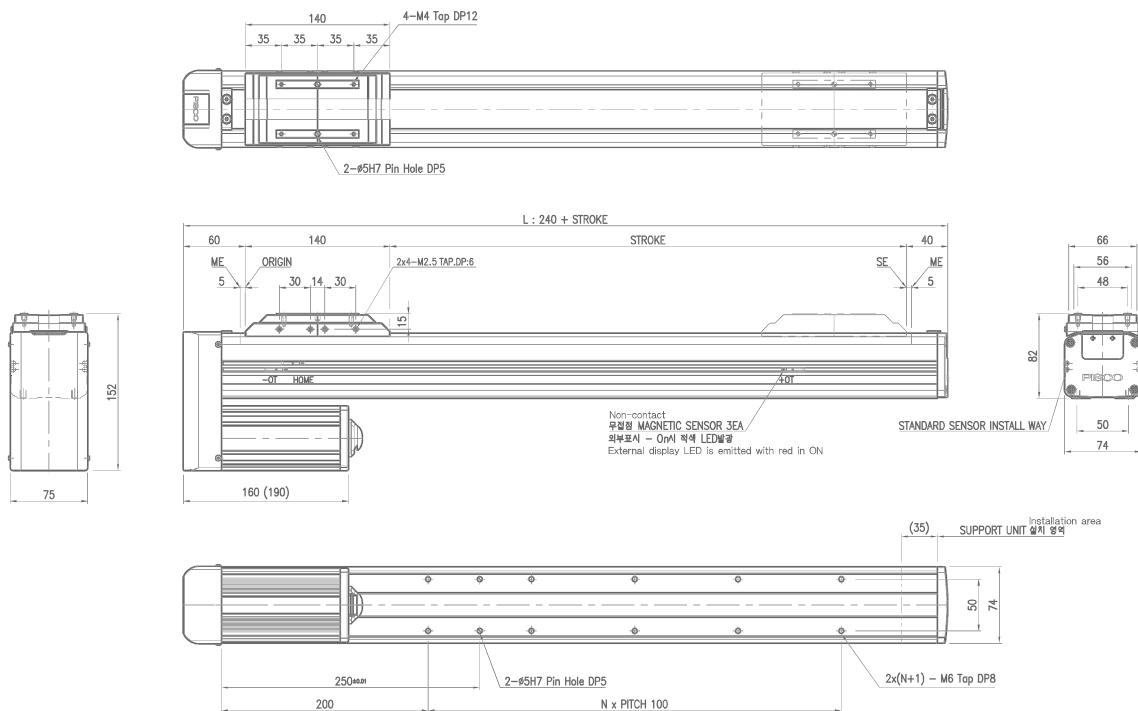
PHRC070-R-10

※ () Brake Motor Dimension



PHRC070-U-10

※ () Brake Motor Dimension



PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

PHRC Series

주문형식 Order Information

PHR **C** **90** - **S** - **1000** - **10** **B** - **L** —————

① ② ③ ④ ⑤ ⑥ ⑦

① 형식 Type

C Clean Robot, Ball Screw Type

② 본체 사이즈 Body Size

90 90mm

③ 형상 Shape

Normal
Type



④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000	1500	2000	2500
L : 1505-C7					
N : 1510-C7					
H : 1520-C7					
P : 1530-C7					

⑤ 모터용량 Motor capacity

10 100W **20** 200W **40** 400W

⑥ 브레이크 부착 Motor Brake

None Without Brake **B** With Brake

⑦ 속도 Speed, Motor 3000 rpm

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

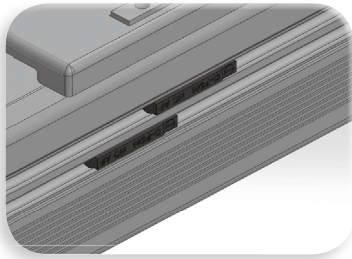
선택사양 Option



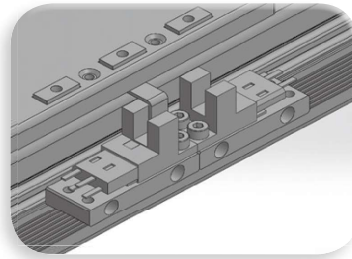
⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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⑨ 센서 Sensor



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

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment	
R1	LM Rail-Raydent	S1 Screw Shaft-Raydent
R2	LM Rail+Block-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 Cavleveyor
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

사양 Specifications

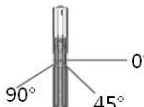
공통사양 Common Specifications

Stroke Range	mm	100~1500
Positioning Repeatability		± 0.02 (Ground C7), ± 0.01 (Ground C5)
Drive System	mm	Ball Screw $\varnothing 15$
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 특주로 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)			
			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					

최고속도 및 부하하중 Max Speed & Payload

Ball Screw Specifications	Max Speed		AC Servo Motor 100W		AC Servo Motor 200W		AC Servo Motor 400W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
1505-C7	L	250	30kg	22kg	30kg	30kg	30kg	30kg
1510-C7	N	500	30kg	10kg	30kg	22kg	30kg	30kg
1520-C7	H	1000	8kg	4kg	30kg	10kg	30kg	22kg
1530-C7	P	1500	2kg	2kg	12kg	6kg	24kg	14kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Servo 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	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
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										

이송거리별 무게 Weight by Stroke

PHRC090 Robot			Stroke (mm) & Weight (kg)																									
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
100W	Ø15	S	6,3	7,0	7,7	9,1	9,8	10,7	11,6	12,6	13,5	14,4	15,3	16,2	17,2	18,1	19,0											
		P	6,2	6,9	7,6	9,0	9,7	10,6	11,5	12,5	13,4	14,3	15,2	16,1	17,1	18,0	18,9											
200W	Ø15	S	6,7	7,4	8,1	8,8	9,5	10,2	10,9	11,6	12,3	13,0	13,7	14,4	15,1	15,8	16,6											
		P	6,5	7,2	7,9	8,6	9,3	10,0	10,7	11,4	12,1	12,8	13,5	14,2	15,0	15,7	16,4											
400W	Ø15	S	7,3	8,0	8,7	9,4	10,1	10,8	11,5	12,2	12,9	13,7	14,4	15,1	15,8	16,5	17,2											
		P	7,1	7,8	8,5	9,2	9,9	10,6	11,4	12,1	12,8	13,5	14,2	14,9	15,6	16,3	17,0											

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

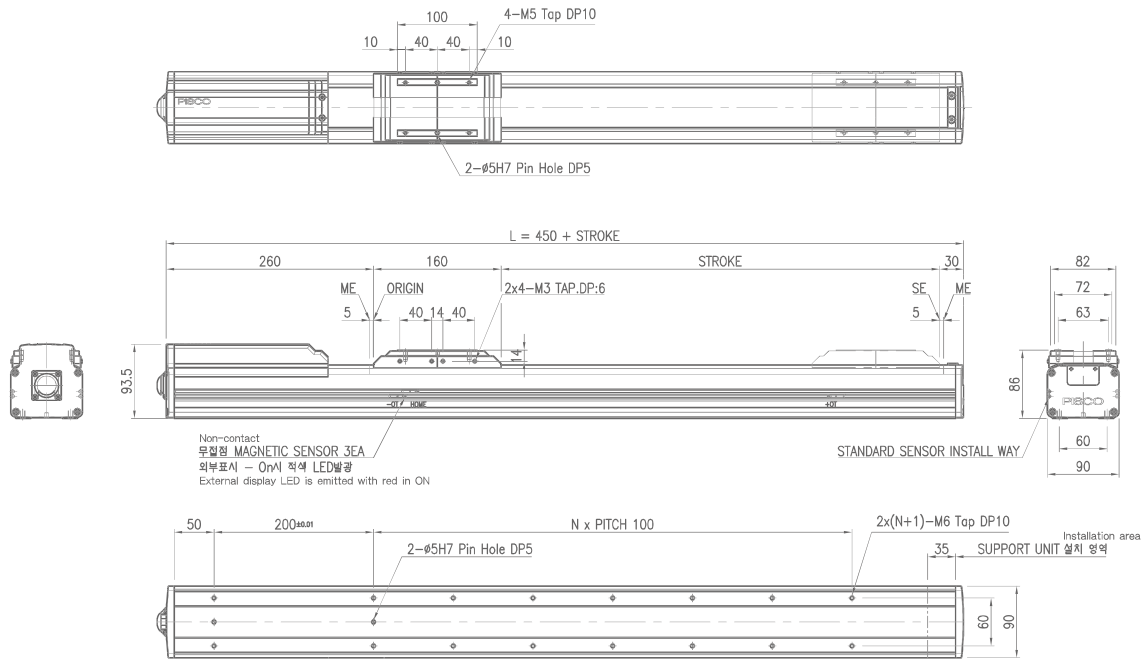
PSB/PHB

Gearbox

SBAC

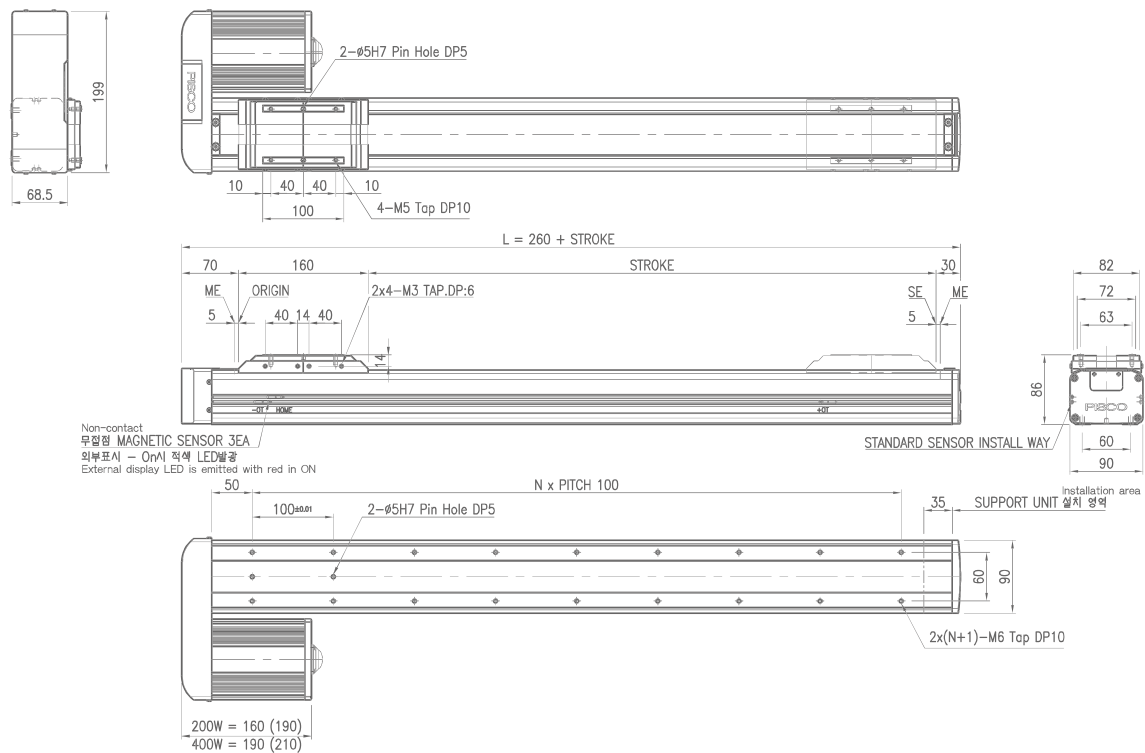
치수도 Dimension (mm)

PHRC090-S-20(40)



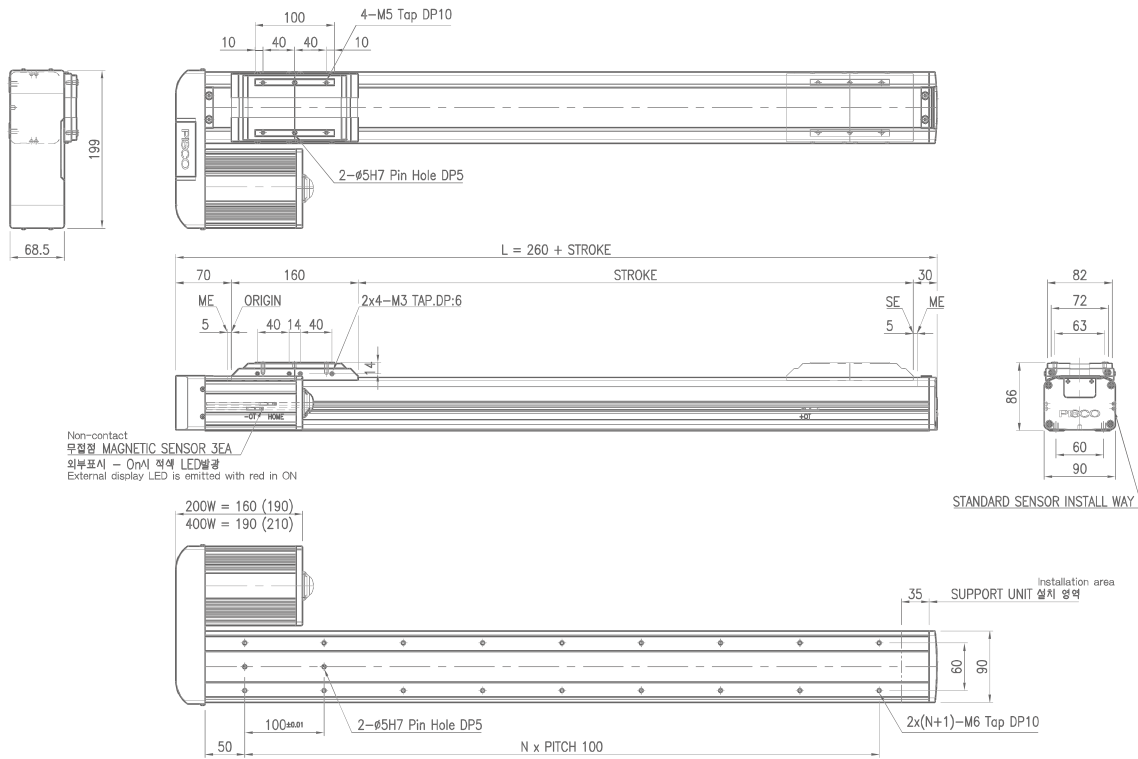
PHRC090-L-20(40)

※ () Brake Motor Dimension



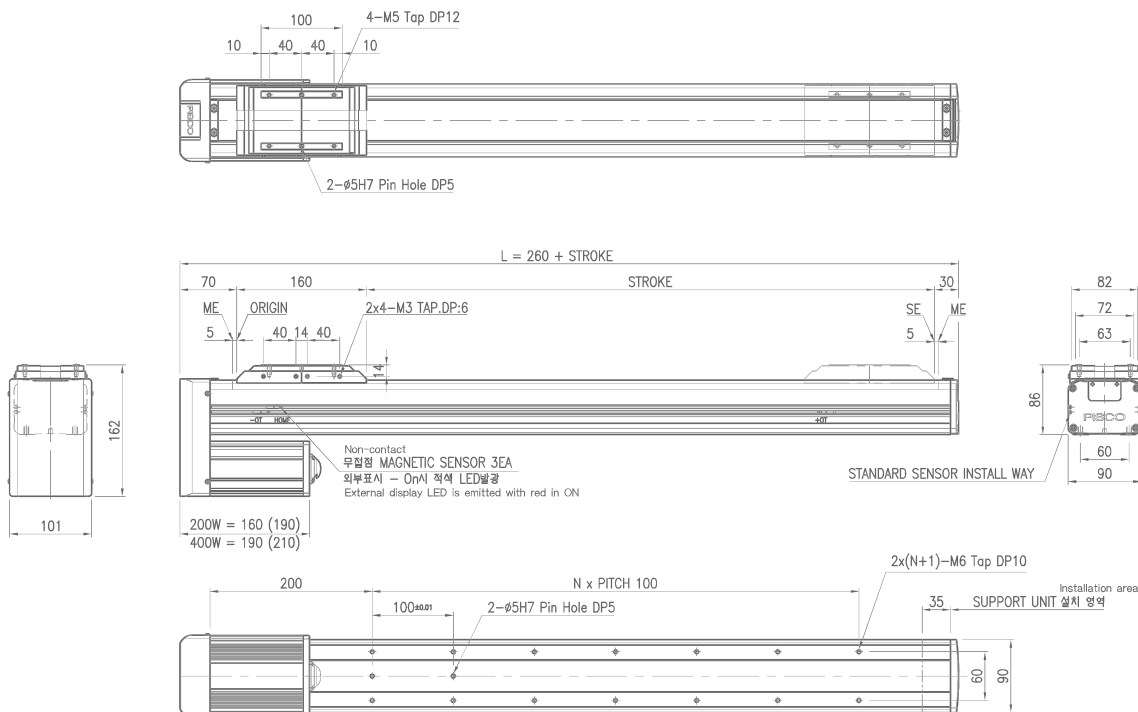
PHRC090-R-20(40)

※ () Brake Motor Dimension



PHRC090-U-20(40)

※ () Brake Motor Dimension



PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

PHRC Series

주문형식 Order Information

PHR **C** **120** - **S** - **1000** - **20** **B** - **L** —————

① ② ③ ④ ⑤ ⑥ ⑦

① 형식 Type

C Clean Robot, Ball Screw Type

② 본체 사이즈 Body Size

120 120mm

③ 형상 Shape

Normal
Type



④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000	1500	2000	2500
L : 1505-C7					
N : 1510-C7					
H : 1520-C7					
P : 1530-C7					
L : 2005-C7(※)					
N : 2010-C7(※)					
H : 2020-C7(※)					
P : 2030-C7(※)					
S : 2040-C7(※)					

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

⑤ 모터용량 Motor capacity

20 200W **40** 400W Option **10** 100W Option **75** 750W

⑥ 브레이크 부착 Motor Brake

None Without Brake **B** With Brake

⑦ 속도 Speed, Motor 3000 rpm

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

선택사양 Option



※1 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.

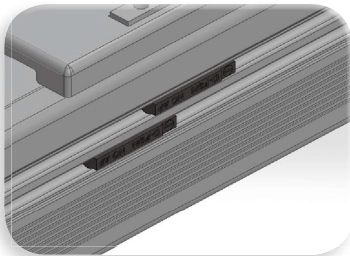
※2 상기 사양은 특수사양으로 피스코코리아 모션사업부에 문의하여 주십시오.

Please contact motion business team of PISCO KOREA in case of special ordered specifications.

⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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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	S1	Screw Shaft-Raydent
R2	LM Rail+Block-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
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

사양 Specifications

공통사양 Common Specifications

Stroke Range	mm	100 ~ 1500
Positioning Repeatability		± 0.02 (Ground C7), ± 0.01 (Ground C5)
Drive System	mm	Ball Screw $\varnothing 15$, $\varnothing 20$ (※1)
Guide		2 Way 15W – 2UU
Main Base & Slide		Aluminum Profile, Soft White Anodizing
Main & Side Cover		Steel Band & Aluminum Profile, Soft White Anodizing(※2)

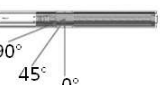
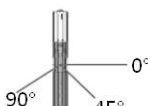
※1 볼나사 규격 20□□의 경우 모두 특주로 대응됩니다.

Ball screw size 20□□ is special order.

※2 Side Cover에 Transparent PC Extrude Profile의 사양은 특주로 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		AC Servo Motor 200W		AC Servo Motor 400W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical
1505-C7	L	250	50kg	50kg	50kg	50kg
1510-C7	N	500	50kg	22kg	50kg	38kg
1520-C7	H	1000	28kg	9kg	45kg	21kg
1530-C7	P	1500	11kg	5kg	23kg	13kg
2005-C7(※)	L	250	50kg	46kg	50kg	50kg
2010-C7(※)	N	500	50kg	21kg	50kg	46kg
2020-C7(※)	H	1000	23kg	9kg	50kg	21kg
2030-C7(※)	P	1500	8kg	5kg	20kg	13kg
2040-C7(※)	S	2000	4kg	2kg	10kg	9kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm					

※ 볼나사 규격 20□□의 경우 모두 특주로 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	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Ø15	5			250				209	167	137	115	97	83	72												
	10			500				417	335	274	229	194	167	145												
	20			1000				834	669	549	458	388	333	289	253	223										
	30			1500				1251	1004	823	687	582	500	434	380	335										
Ø20 (※)	5			250				236	193	161	137	117	102	89	79											
	10			500				472	387	323	274	235	204	178	158											
	20			1000				943	773	646	547	469	407	357	315											
	30			1500				1415	1160	969	821	704	611	535	473											
	40			2000				1887	1547	1291	1094	939	815	713	630											

※ 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	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
200W	Ø15	S	8,2	9,0	9,9	10,7	11,6	12,4	13,3	14,1	15,0	15,8	16,7	17,6	18,4	19,3	20,1										
		P	7,8	8,6	9,5	10,3	11,2	12,0	12,9	13,7	14,6	15,4	16,3	17,2	18,0	18,9	19,7										
	Ø20 (※)	S	8,8	9,8	10,8	11,8	12,8	13,8	14,8	15,8	16,8	17,8	18,8	19,8	20,8	21,8	22,8										
		P	8,3	9,3	10,3	11,3	12,3	13,3	14,3	15,3	16,3	17,3	18,3	19,3	20,3	21,3	22,3										
400W	Ø15	S	9,0	9,9	11,6	12,5	13,7	14,9	16,1	17,3	18,5	19,7	20,9	22,1	23,3	24,5	25,7										
		P	8,5	9,4	11,1	11,9	13,2	14,4	15,6	16,8	18,0	19,2	20,4	21,6	22,8	24,0	25,2										
	Ø20 (※)	S	9,4	10,4	11,4	12,4	13,4	14,4	15,4	16,4	17,4	18,4	19,4	20,4	21,4	22,4	23,5										
		P	8,8	9,8	10,8	11,8	12,8	13,8	14,9	15,9	16,9	17,9	18,9	19,9	20,9	21,9	22,9										

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

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

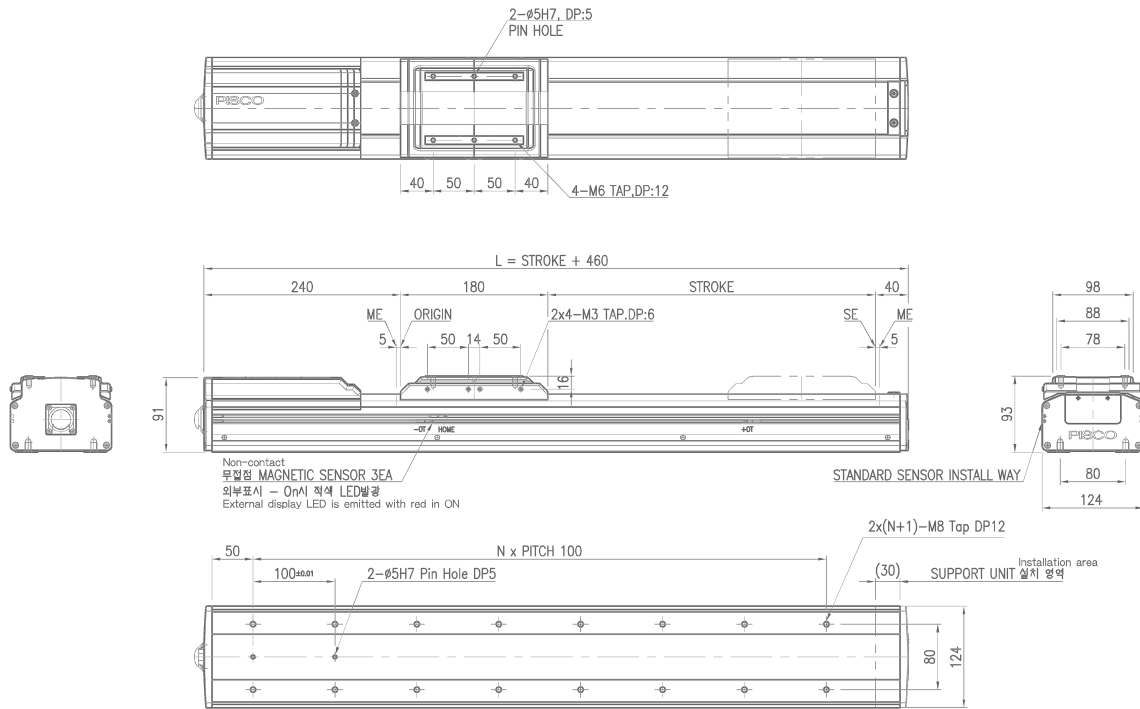
PSB/PHB

Gearbox

SBAC

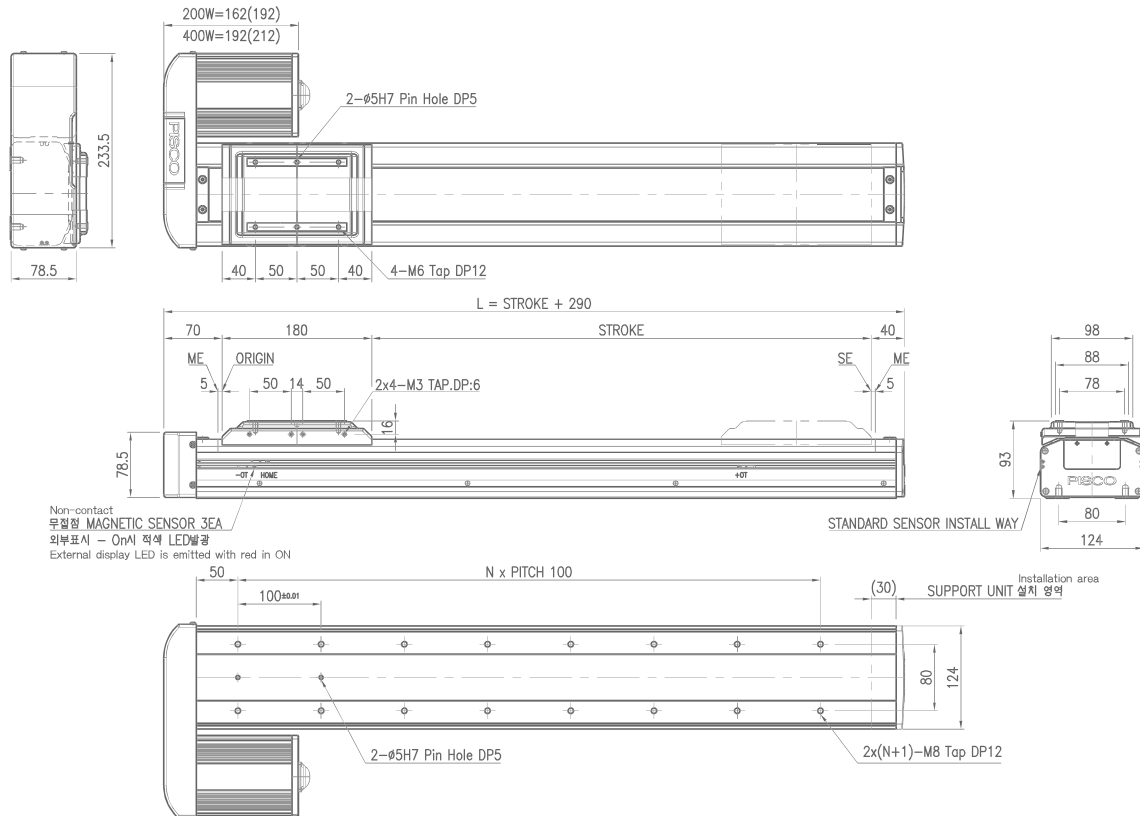
치수도 Dimension (mm)

PHRC120-S-20(40)



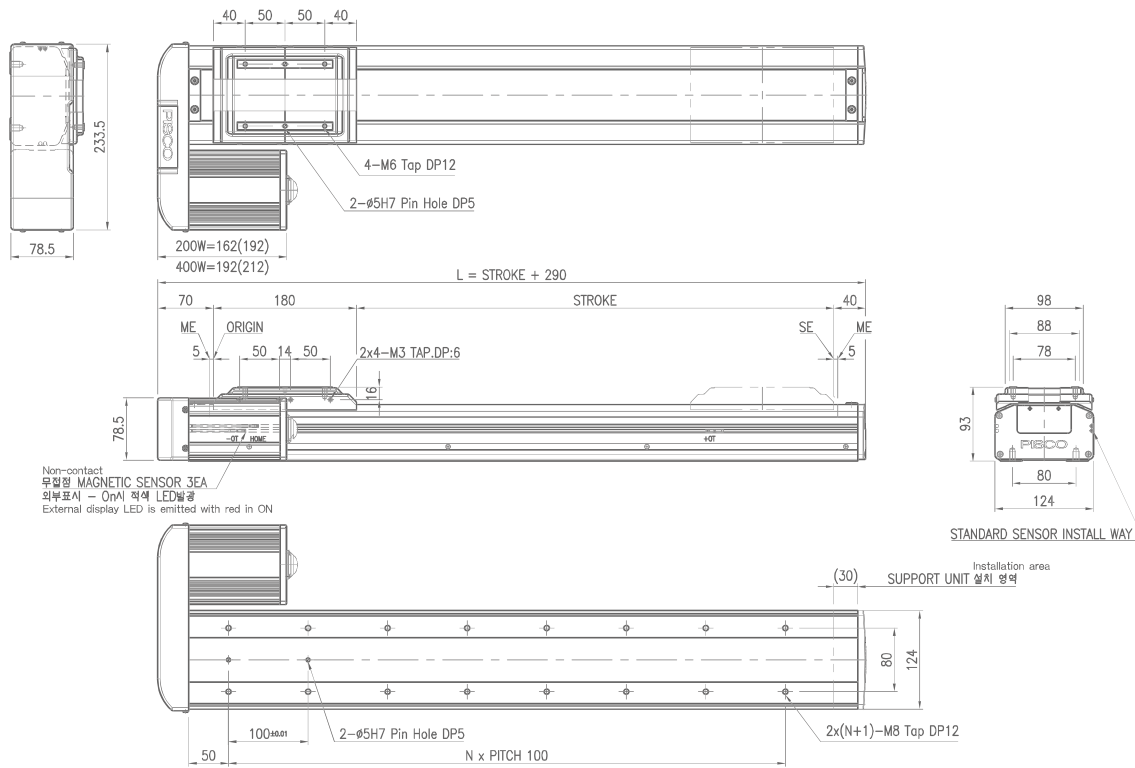
PHRC120-L-20(40)

※ () Brake Motor Dimension



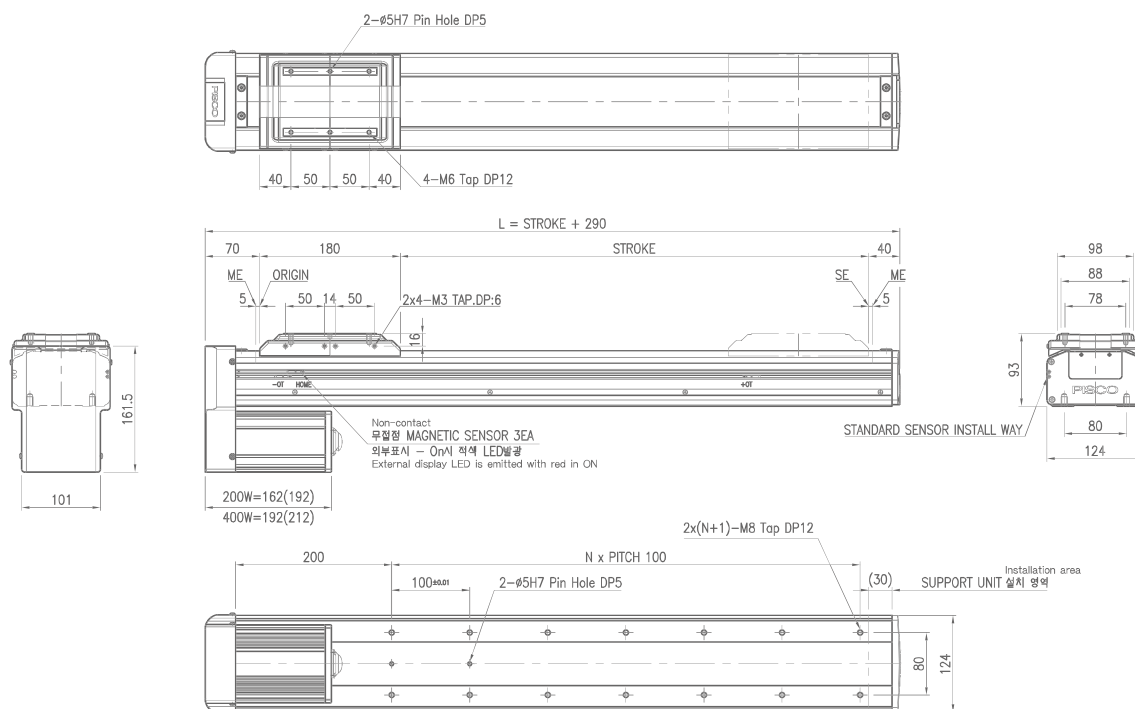
PHRC120-R-20(40)

※ () Brake Motor Dimension



PHRC120-U-20(40)

※ () Brake Motor Dimension



PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

PHRC Series

주문형식 Order Information

PHR **C** **160** - **S** - **1000** - **20** **B** - **L** —————

① ② ③ ④ ⑤ ⑥ ⑦

① 형식 Type

C Clean Robot, Ball Screw Type

② 본체 사이즈 Body Size

160 160mm

③ 형상 Shape

Normal
Type



Straight



Left



Right



Under

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	1000	1500	2000	2500
L : 2005-C7					
N : 2010-C7					
H : 2020-C7					
P : 2030-C7					
S : 2040-C7					
U : 2060-C5(※)					
L : 1505-C7(※)					
N : 1510-C7(※)					
H : 1520-C7(※)					
P : 1530-C7(※)					

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

⑤ 모터용량 Motor capacity

20 200W **40** 400W **75** 750W

⑥ 브레이크 부착 Motor Brake

None Without Brake **B** With Brake

⑦ 속도 Speed, Motor 3000 rpm

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

선택사양 Option



※1 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.

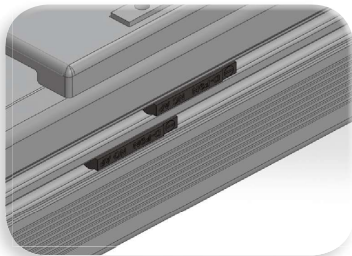
※2 상기 사양은 특수사양으로 피스코코리아 모션사업부에 문의하여 주십시오.

Please contact motion business team of PISCO KOREA in case of special ordered specifications.

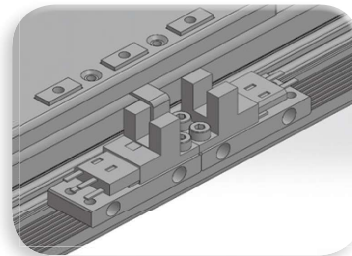
⑧ 로봇 색상 Robot Color Option

None	White (Standard)	B	Black Anodizing
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⑨ 센서 Sensor



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

⑩ 표면처리 Surface Treatment

None	Without Surface Treatment		
R1	LM Rail-Raydent	S1	Screw Shaft-Raydent
R2	LM Rail+Block-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
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PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

PSB/PHB

Gearbox

SBAC

사양 Specifications

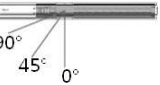
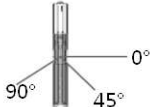
공통사양 Common Specifications

Stroke Range	mm	100 ~ 1500
Positioning Repeatability		±0.02 (Ground C7), ±0.01 (Ground C5)
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 특주로 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		0°	340	280	235	205
		45°	280	226	191	166
		90°	1000	820	670	560
Wall Mount Use		0°	585	430	320	240
		45°	176	124	88	60
		90°	220	155	105	75
Vertical Use		0°	130	95	70	55
		45°	48	56	42	32
		90°	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		AC Servo Motor 400W		AC Servo Motor 750W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical
2005-C7	L	250	70kg	46kg	70kg	70kg
2010-C7	N	500	70kg	44kg	70kg	70kg
2020-C7	H	1000	47kg	19kg	70kg	41kg
2030-C7	P	1500	18kg	11kg	63kg	25kg
2040-C7	S	2000	8kg	7kg	30kg	18kg
2060-C5(※)	U	3000	—	—	2kg	2kg
1505-C7(※)	L	250	70kg	70kg	70kg	70kg
1510-C7(※)	N	500	70kg	44kg	70kg	70kg
1520-C7(※)	H	1000	53kg	19kg	70kg	41kg
1530-C7(※)	P	1500	21kg	11kg	66kg	25kg
Estimated Condition	Stroke : 500mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm					

※ 볼나사 규격 15□□, 2060의 경우 특주로 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	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Ø20	5	250						242	198	165	140	120	104	91	80	71										
	10	500						485	396	330	279	239	207	181	160	142										
	20	1000						969	793	660	559	479	415	363	320	284										
	30	1500						1454	1189	991	838	718	622	544	480	427										
	40	2000						1939	1585	1321	1117	957	829	725	640	569										
	60(※)	3000						2908	2378	1981	1676	1436	1244	1088	960	853										
Ø15 (※)	5	250					215	172	141	117	99	85	74													
	10	500					430	344	281	234	198	170	147													
	20	1000					860	688	562	468	396	339	294	257	227	202										
	30	1500					1290	1032	844	703	594	509	441	386	341	303										

※ 볼나사 규격 15□□, 2060의 경우 특수로 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	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
400W	Ø20	S	14,3	15,7	17,1	18,5	19,8	21,2	22,6	24,0	25,4	26,8	28,2	29,5	30,9	32,3	33,7										
		P	13,7	15,1	16,5	17,9	19,3	20,7	22,1	23,5	24,9	26,3	27,6	29,0	30,4	31,8	33,2										
	Ø15	S	13,3	14,5	15,7	17,0	18,2	19,5	20,7	21,9	23,2	24,4	25,7	26,9	28,1	29,4	30,6										
		P	12,6	13,9	15,1	16,4	17,6	18,8	20,1	21,3	22,5	23,8	25,0	26,2	27,5	28,7	29,9										
750W	Ø20	S	15,7	17,1	18,5	19,9	21,3	22,7	24,0	25,4	26,8	28,2	29,6	31,0	32,4	33,8	35,1										
		P	15,2	16,6	18,0	19,3	20,7	22,1	23,5	24,9	26,3	27,7	29,0	30,4	31,8	33,2	34,6										
	Ø15	S	14,7	15,9	17,2	18,4	19,6	20,9	22,1	23,3	24,6	25,8	27,1	28,3	29,5	30,8	32,0										
		P	14,1	15,3	16,5	17,8	19,0	20,3	21,5	22,7	24,0	25,2	26,4	27,7	28,9	30,2	31,4										

PHRS

PHRB

PHRC Clean Robot Ball Screw Type

PHRT

PHM

PSR

PLR

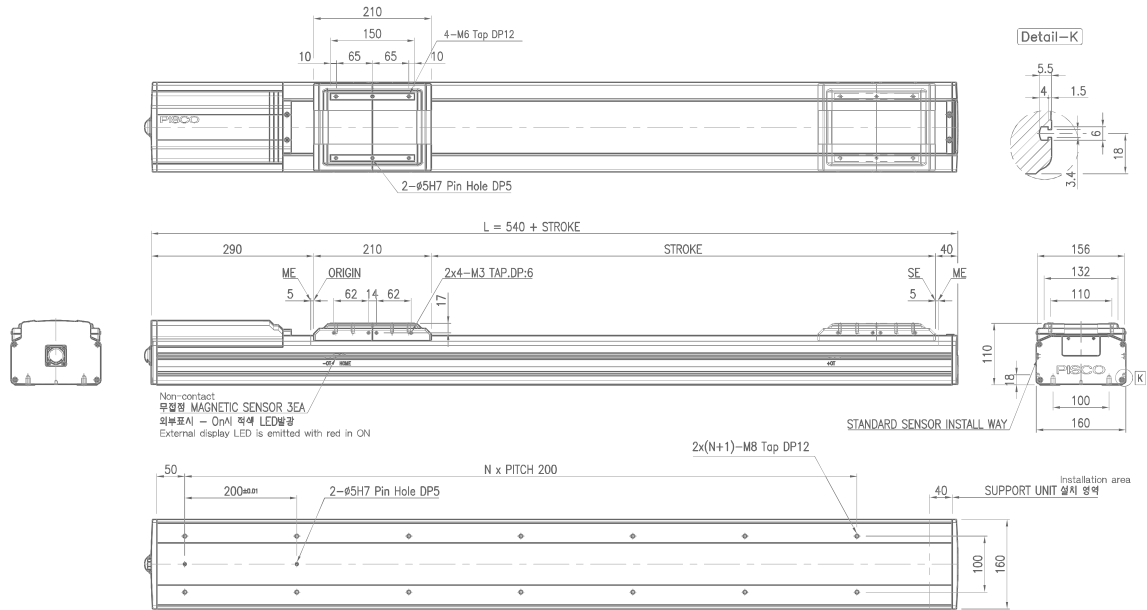
PSB/PHB

Gearbox

SBAC

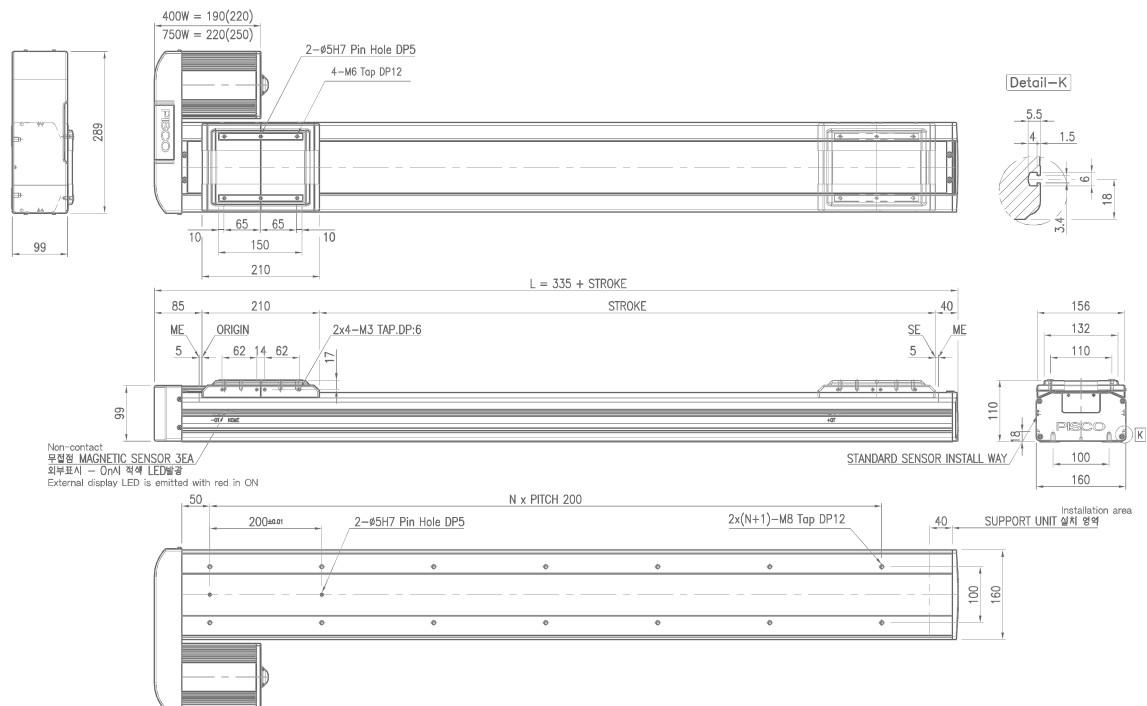
치수도 Dimension (mm)

PHRC160-S-40(75)



PHRC160-L-40(75)

※ () Brake Motor Dimension



※ () Brake Motor Dimension



PHRC Clean Robot Ball Screw Type

PHRT

※ () Brake Motor Dimension



PSR

PLR

PSB/PHB

Gearbox

SBAC