

KRS series 주문형식(예) Order Example

KR

S

080

-

S

-

100

L

-

20

B

G**

-

B

다

선

기

기

①

②

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⑩

⑪



① 형식 Type

S

Standard Robot, Ball Screw Type

② 본체 사이즈 Body Size

080

80mm

③ 형상 Shape

S

Motor 직렬 (Straight)

L

Motor 병렬 (Parallel Left)

R

Motor 병렬 (Parallel Right)

U

Motor 병렬 (Parallel Under)

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec

ST (mm)

400

800

1200

1700

2000

L : 1505

N : 1510

H : 1520

P : 1530

⑤ 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.

⑧ 감속기 Reduction Gear

None

Without Reduction Gear(Standard)

G**

With Reduction Gear

**

Reduction Gear Ratio 03~10

⑥ 모터 용량 Motor Capacity

10

100W

20

200W

40

400W

⑨ 로봇 색상 Robot Color Option

None

White(Standard)

B

Black Anodizing

⑦ 브레이크 부착 Motor Brake

None

Without Brake

B

With Brake

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


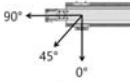

LM Rail + Block & Screw Shaft + Nut-Raydent

사양 Specifications

• 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1700
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø15
Guide	1 Way 20SB - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Aluminum Cover

• 허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity		Setting Angle	Allowable Overhang Distance(mm)			
			5kg	10kg	15kg	20kg
Horizontal Use		0°	300	150	105	75
		45°	260	135	90	65
		90°	1500	1000	700	500
Wall Mount Use		0°	1000	340	120	-
		45°	210	69	13	-
		90°	180	55	10	-
Vertical Use		0°	260	115	70	45
		45°	155	70	40	28
		90°	390	175	105	70
Estimated Condition	Stroke : 600mm Speed : 500mm/sec Acceleration : 0.2sec Life in traveled distance : Static safety factor 15 and 3 years					

• 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	L	250	20kg	13kg	20kg	20kg	20kg	20kg
1510	N	500	20kg	6kg	20kg	18kg	20kg	20kg
1520	H	1000	14kg	2kg	20kg	5kg	20kg	13kg
1530	P	1500	-	-	6kg	1kg	19kg	8kg
Estimated Condition	Stroke : 600mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm							

• 이송거리별 무게 Weight by Stroke

KRS080 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
100W	Ø15	S	4.5	5.3	6.1	6.9	7.7	8.5	9.3	10.1	10.9	11.7	12.5	13.3	14.1	14.9	15.7	16.5	17.3
		P	5	5.8	6.6	7.4	8.2	9	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8
200W	Ø15	S	4.9	5.7	6.5	7.3	8.1	8.9	9.7	10.5	11.3	12.1	12.9	13.7	14.5	15.3	16.1	16.9	17.7
		P	5.4	6.2	7	7.8	8.6	9.4	10.2	11	11.8	12.6	13.4	14.2	15	15.8	16.6	17.4	18.2
400W	Ø15	S	5.4	6.2	7	7.8	8.6	9.4	10.2	11	11.8	12.6	13.4	14.2	15	15.8	16.6	17.4	18.2
		P	5.9	6.7	7.5	8.3	9.1	9.9	10.7	11.5	12.3	13.1	13.9	14.7	15.5	16.3	17.1	17.9	18.7

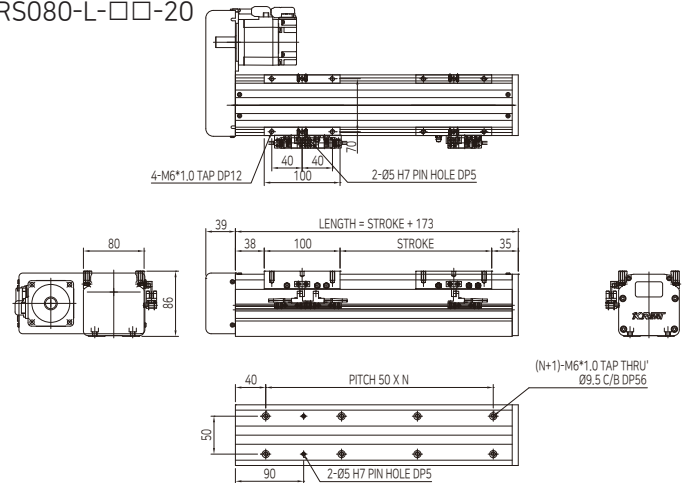
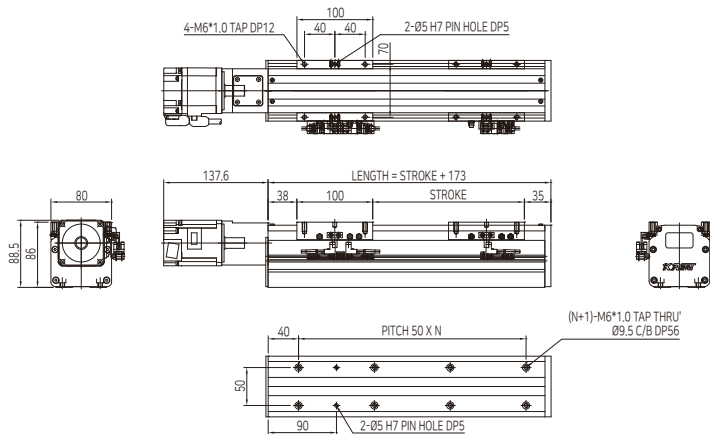
• 이송거리별 최고속도 Max Speed by Stroke

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
Ø15	5	250							211	167	135	111	93	78				
	10	500							422	334	270	222	186	156	132	114	98	86
	20	500	1000							844	668	540	444	372	312	264	228	196
	30	500	1000	1500							1266	1002	810	666	558	468	396	342

치수 Dimension(mm)

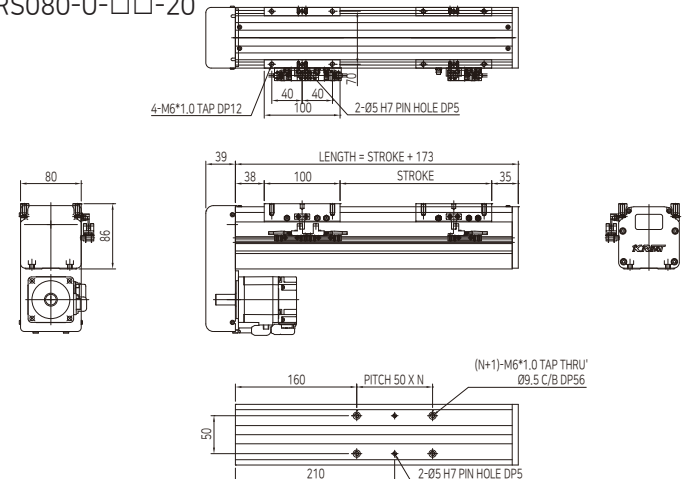
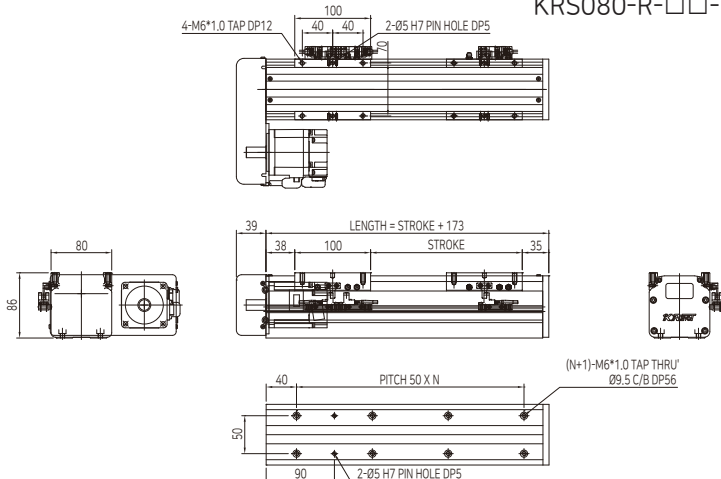
KRS080-S-□□-20

KRS080-L-□□-20



KRS080-R-□□-20

KRS080-U-□□-20



KRS series 주문형식(예) Order Example

KR

S

120

-

S

-

100

L

-

20

B

G**

-

B

R1

-

E1

①

②

③

④

⑤

⑥

⑦

⑧

⑨

⑩

⑪

① 형식 Type

S

Standard Robot, Ball Screw Type

② 본체 사이즈 Body Size

120

120mm

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec

ST (mm)

400

800

1200

1700

2000

L : 1505

N : 1510

H : 1520

P : 1530

③ 형상 Shape

S

Motor 직렬 (Straight)

L

Motor 병렬 (Parallel Left)

R

Motor 병렬 (Parallel Right)

U

Motor 병렬 (Parallel Under)



⑤ 속도 Speed, Motor 3000rpm

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

⑧ 감속기 Reduction Gear

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

⑥ 모터 용량 Motor Capacity

20

200W

40

400W

⑨ 로봇 색상 Robot Color Option

None

White(Standard)

B

Black Anodizing

⑦ 브레이크 부착 Motor Brake

None

Without Brake

B

With Brake

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 센서 Sensor

None

Without Sensor(Standard)

E1

SUNX(PM-Y65)

E2

OMRON(EE-SX674A)

사양 Specifications


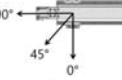
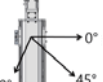
• 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1700
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø15
Guide	2 Way 15W - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Aluminum Cover

• 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	L	250	50kg	33kg	50kg	33kg
1510	N	500	50kg	17kg	50kg	28kg
1520	H	1000	43kg	4kg	50kg	13kg
1530	P	1500	5kg	-	18kg	7kg
Estimated Condition	Stroke : 600mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm					

• 허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity		Setting Angle	Allowable Overhang Distance(mm)			
			20kg	30kg	40kg	50kg
Horizontal Use		0°	350	235	180	145
		45°	285	195	150	120
		90°	1500	1000	700	500
Wall Mount Use		0°	850	520	350	250
		45°	255	165	120	95
		90°	270	155	95	60
Vertical Use		0°	170	105	70	50
		45°	103	63	43	30
		90°	310	155	105	75
Estimated Condition	Stroke : 600mm Speed : 500mm/sec Acceleration : 0.2sec Life in traveled distance : Static safety factor 15 and 3 years					

사양 Specifications

이송거리별 무게 Weight by Stroke

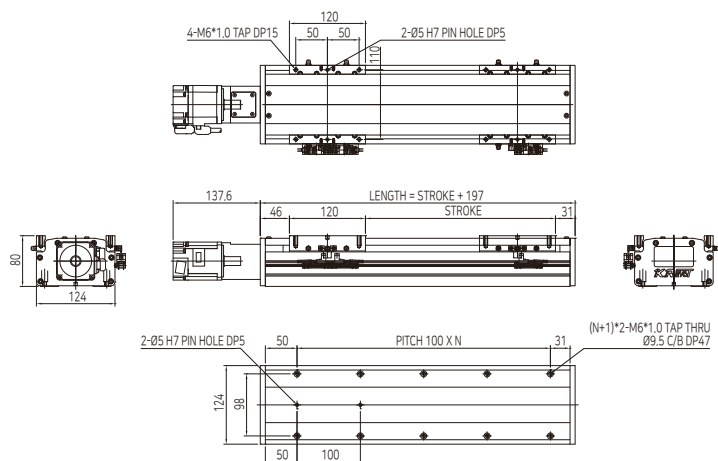
KRS120 Robot			Stroke(mm) & Weight(kg)																
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
200W	Ø15	S	7.3	8.3	9.3	10.3	11.3	12.3	13.3	14.3	15.3	16.3	17.3	18.3	19.3	20.3	21.3	22.3	23.3
		P	7.8	8.8	9.8	10.8	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.8	19.8	20.8	21.8	22.8	23.8
400W	Ø15	S	7.8	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	23.8
		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	23.3	24.3

이송거리별 최고속도 Max Speed by Stroke

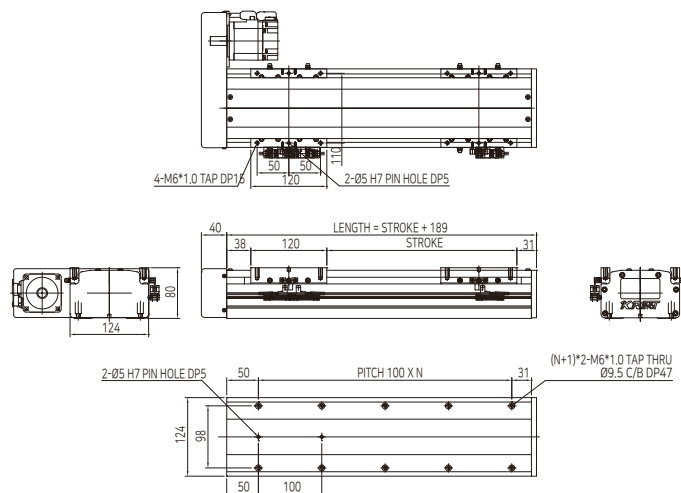
Ball Screw		Stroke(mm) & Speed(mm/sec)																
DIA	Lead	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
Ø15	5	250							204	162	131	108	90	76				
	10	500							408	324	262	216	180	152	130	112	96	84
	20	500	1000							816	648	524	432	360	304	260	224	192
	30	500	1000	1500							1224	972	786	648	540	456	390	336

치수도 Dimension(mm)

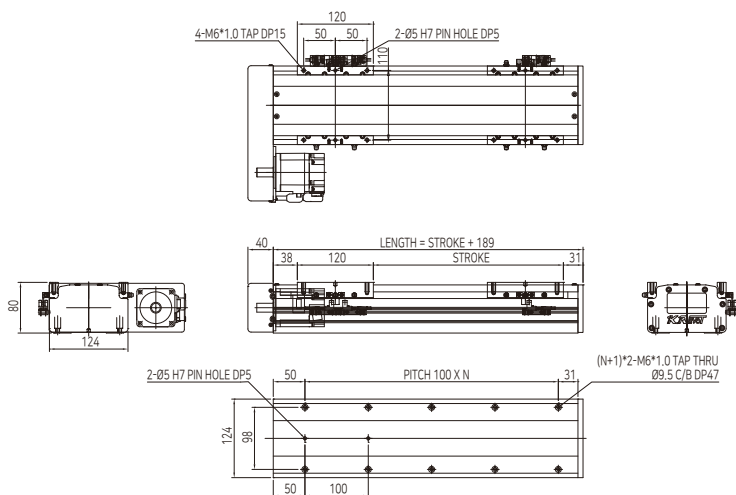
KRS120-S-□□-20



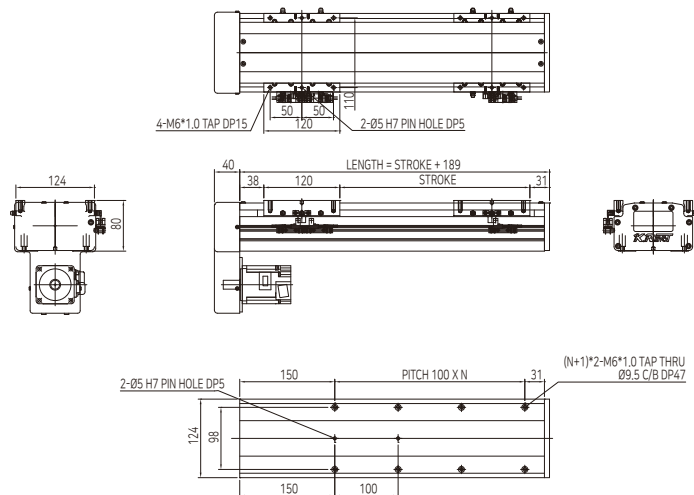
KRS120-L-□□-20



KRS120-R-□□-20



KRS120-U-□□-20



KRS series 주문형식(예) Order Example

KR S 160 - S - 100 L - 40 B G** - B R1 - E1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪



① 형식 Type

S Standard Robot, Ball Screw Type

② 본체 사이즈 Body Size

160 160mm

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	400	800	1200	1600	2000
L : 2005						
N : 2010						
H : 2020						
P : 2030						
S : 2040						

③ 형상 Shape

S	Motor 직렬 (Straight)
L	Motor 병렬 (Parallel Left)
R	Motor 병렬 (Parallel Right)
U	Motor 병렬 (Parallel Under)

⑤ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s
H	1000mm/s
P	1500mm/s
S	2000mm/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.

⑧ 감속기 Reduction Gear

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

⑥ 모터 용량 Motor Capacity

20	200W
40	400W
75	750W

⑨ 로봇 색상 Robot Color Option

None	White(Standard)
B	Black Anodizing

⑩ 센서 Sensor

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

⑦ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

⑪ 표면처리 Surface Treatment


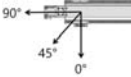

None	Without Surface Treatment
R1	LM Rail-Raydent
R2	LM Rail + Block-Raydent
S1	Screw Shaft-Raydent
S2	Screw Shaft + Nut-Raydent
RS1	LM Rail & Screw Shaft-Raydent
RS2	LM Rail + Block & Screw Shaft + Nut-Raydent

사양 Specifications

• 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1600
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø20
Guide	2 Way 20W - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Aluminum Cover

• 허용 이격 거리 Allowable Overhang Distance

Installation Types Load capacity		Setting Angle	Allowable Overhang Distance(mm)			
			40kg	50kg	60kg	70kg
Horizontal Use		0°	350	290	245	215
		45°	290	235	200	175
		90°	1500	1000	700	500
Wall Mount Use		0°	230	175	140	115
		45°	100	75	60	50
		90°	115	75	50	33
Vertical Use		0°	180	135	105	85
		45°	100	75	60	50
		90°	240	180	140	115
Estimated Condition	Stroke : 600mm Speed : 500mm/sec Acceleration : 0.2sec Life in traveled distance : Static safety factor 15 and 3 years					

사양 Specifications

• 최고속도 및 부하하중 Max Speed&Payload

Ball Screw Specifications	Max Speed		AC Servo Motor 200W		AC Servo Motor 400W		AC Servo Motor 7500W	
	Mark	mm/s	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
2005	L	250	70kg	38kg	70kg	38kg	70kg	38kg
2010	N	500	70kg	14kg	70kg	39kg	70kg	41kg
2020	H	1000	14kg	2kg	46kg	14kg	70kg	18kg
2030	P	1500	1kg	-	15kg	5kg	34kg	8kg
2040	S	2000	-	-	5kg	1kg	14kg	7kg
Estimated Condition	Stroke : 600mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm							

• 이송거리별 무게 Weight by Stroke

KRS160 Robot			Stroke(mm) & Weight(kg)															
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
200W	Ø20	S	13	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37
		P	14.3	15.9	17.5	19.1	20.7	22.3	23.9	25.5	27.1	28.7	30.3	31.9	33.5	35.1	36.7	38.3
400W	Ø20	S	13.5	15.1	16.7	18.3	19.9	21.5	23.1	24.7	26.3	27.9	29.5	31.1	32.7	34.3	35.9	37.5
		P	14.8	16.4	18	19.6	21.2	22.8	24.4	26	27.6	29.2	30.8	32.4	34	35.6	37.2	38.8
750W	Ø20	S	15.2	16.8	18.4	20	21.6	23.2	24.8	26.4	28	29.6	31.2	32.8	34.4	36	37.6	39.2
		P	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2

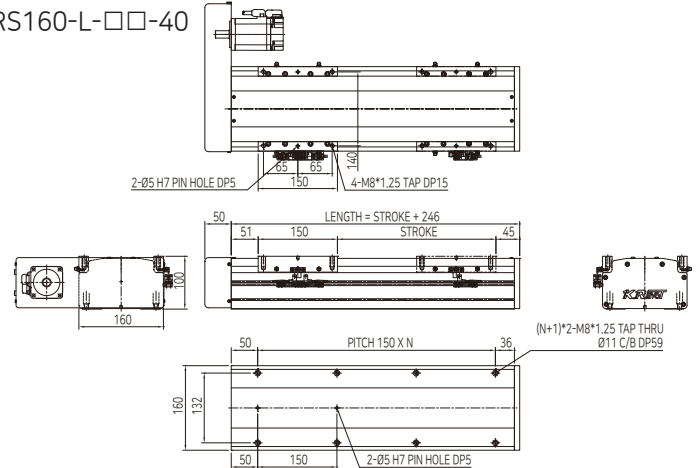
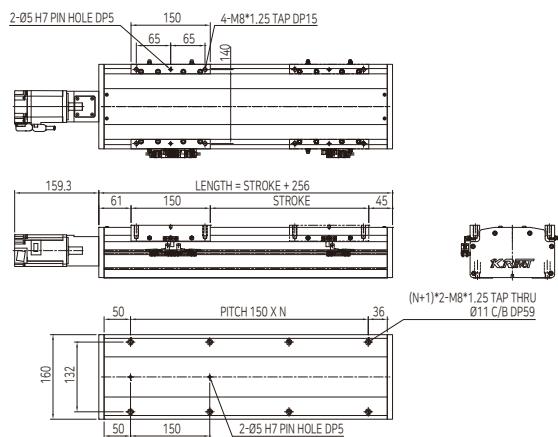
• 이송거리별 최고속도 Max Speed by Stroke

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
Ø20	5	250						250	206	169	141	119	102	87	76	66	58
	10	500						475	385	317	264	223	190	163	142	124	109
	20	500	1000						1000	824	676	564	476	408	348	304	264
	30	500	1000	1500						1500	1236	1014	846	714	612	522	456
	40	500	1000	1500	2000						2000	1648	1352	1128	952	816	696

치수도 Dimension(mm)

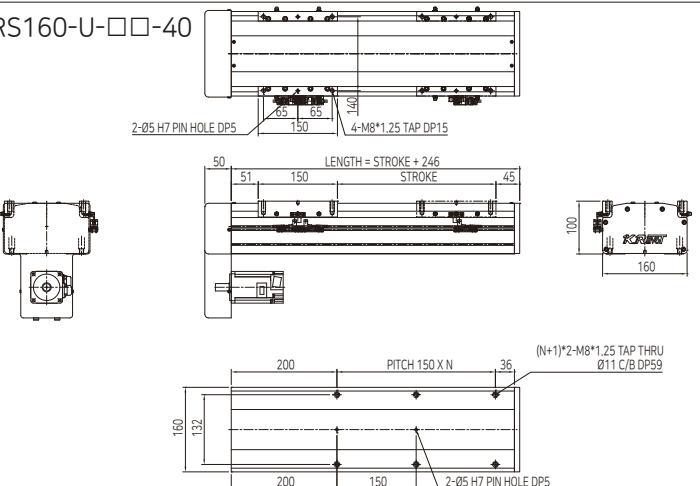
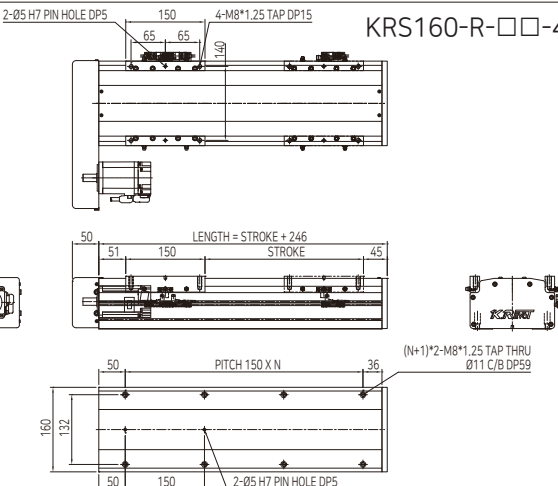
KRS160-S-□□-40

KRS160-L-□□-40



KRS160-R-□□-40

KRS160-U-□□-40



KRS series 주문형식(예) Order Example

KR

①

S

200

②

-

S

③

100

④

L

⑤

- 75

⑥

B

⑦

G**

⑧

-

⑨

B

⑩

R1

⑪

-

E1



① 형식 Type

S

Standard Robot, Ball Screw Type

② 본체 사이즈 Body Size

200

200mm

④ 이송거리 Stroke, In increment of 50mm

Ball Screw Spec	ST (mm)	400	800	1200	1600	2000
L : 2005						
N : 2010						
H : 2020						
P : 2030						
S : 2040						

③ 형상 Shape

S	Motor 직렬 (Straight)
L	Motor 병렬 (Parallel Left)
R	Motor 병렬 (Parallel Right)
U	Motor 병렬 (Parallel Under)

⑤ 속도 Speed, Motor 3000rpm

L	250mm/s
N	500mm/s
H	1000mm/s
P	1500mm/s
S	2000mm/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 감속기 Reduction Gear

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

⑥ 모터 용량 Motor Capacity

40	400W
75	750W

⑦ 브레이크 부착 Motor Brake

None	Without Brake
B	With Brake

⑨ 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

⑪ 센서 Sensor

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

사양 Specifications

• 공통사양 Common Specifications

Stroke Range(mm)	100 ~ 1600
Positioning Repeatability(mm)	±0.02
Drive System(mm)	Ball Screw Ø20
Guide	2 Way 25W - 2UU
Main Base & Slide	Aluminum Profile, Soft White Anodizing
Cover	Aluminum Cover

• 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	L	250	120kg	38kg	120kg	38kg
2010	N	500	120kg	38kg	120kg	41kg
2020	H	1000	45kg	13kg	89kg	18kg
2030	P	1500	14kg	4kg	33kg	8kg
2040	S	2000	4kg	-	13kg	6kg
Estimated Condition	Stroke : 600mm Speed : Max Speed Acceleration : 0.2sec Servo Motor Rotate : 3000rpm					

• 허용 이격 거리 Allowable Overhang Distance

Installation Types	Load capacity	Setting Angle	Allowable Overhang Distance(mm)			
			60kg	80kg	100kg	120kg
Horizontal Use		0°	470	360	290	250
		45°	380	290	235	200
		90°	1500	1000	700	500
Wall Mount Use		0°	1000	790	570	440
		45°	350	260	210	170
		90°	350	235	160	115
Vertical Use		0°	135	90	65	45
		45°	75	50	35	27
		90°	175	120	85	63
Estimated Condition	Stroke : 600mm Speed : 500mm/sec Acceleration : 0.2sec Life in traveled distance : Static safety factor 15 and 3 years					

사양 Specifications

이송거리별 무게 Weight by Stroke

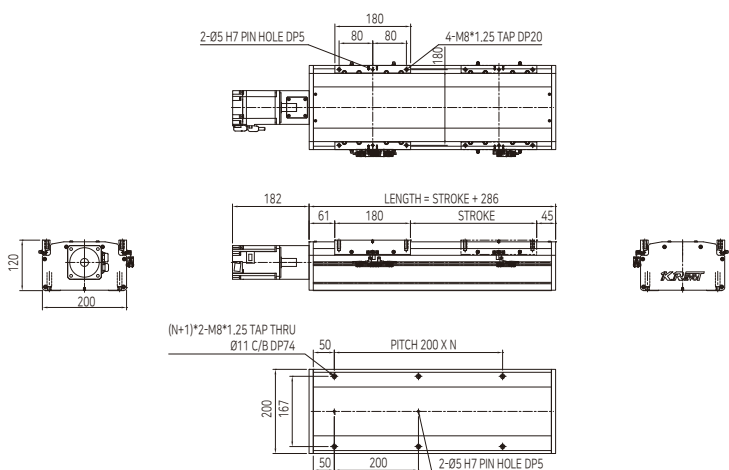
KRS200 Robot			Stroke(mm) & Weight(kg)															
Motor	DIA	Type	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
400W	Ø20	S	19.4	21.7	24	26.3	28.6	30.9	33.2	35.5	37.8	40.1	42.4	44.7	47	49.3	51.6	53.9
		P	20.6	22.9	25.2	27.5	29.8	32.1	34.4	36.7	39	41.3	43.6	45.9	48.2	50.5	52.8	55.1
750W	Ø20	S	21.1	23.4	25.7	28	30.3	32.6	34.9	37.2	39.5	41.8	44.1	46.4	48.7	51	53.3	55.6
		P	22.1	24.4	26.7	29	31.3	33.6	35.9	38.2	40.5	42.8	45.1	47.4	49.7	52	54.3	56.6

이송거리별 최고속도 Max Speed by Stroke

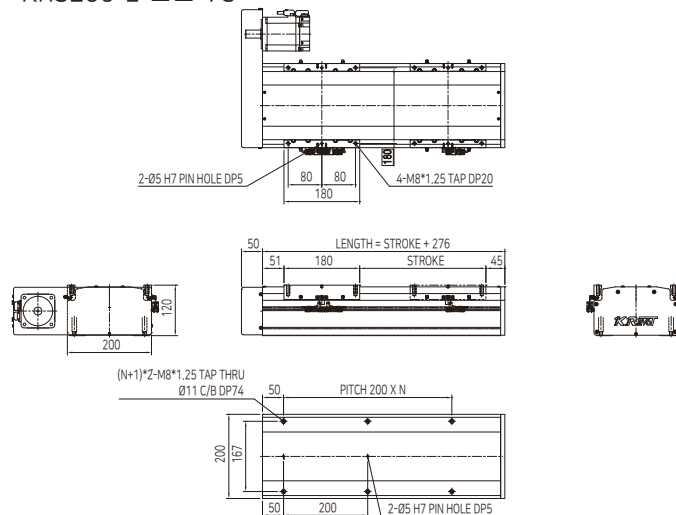
Ball Screw		Stroke(mm) & Speed(mm/sec)																		
DIA	Lead	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600			
Ø20	5	250							239	194	160	134	113	97	84	73	64	56		
	10	500							448	362	299	250	212	165	156	135	119	104		
	20	500	1000							956	776	640	536	452	388	336	292	256	224	
	30	500	1000	1500							1434	1164	960	804	678	582	504	438	384	336
	40	500	1000	1500	2000							1912	1552	1280	1072	904	776	672	584	512

치수도 Dimension(mm)

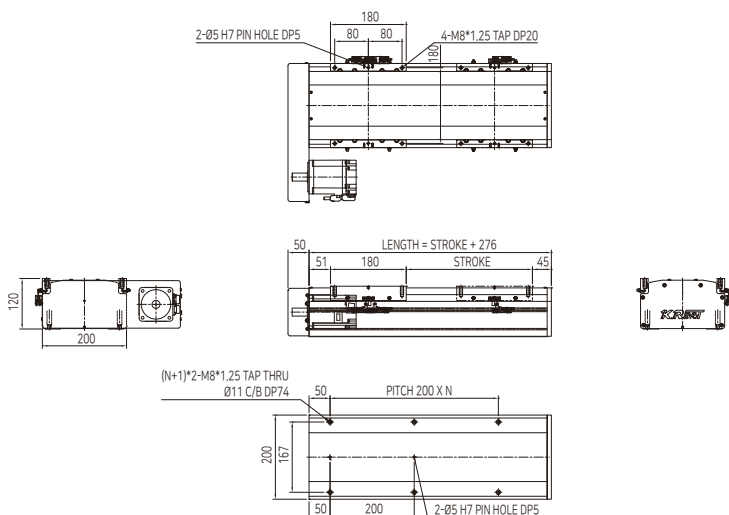
KRS200-S-□□-75



KRS200-L-□□-75



KRS200-R-□□-75



KRS200-U-□□-75

