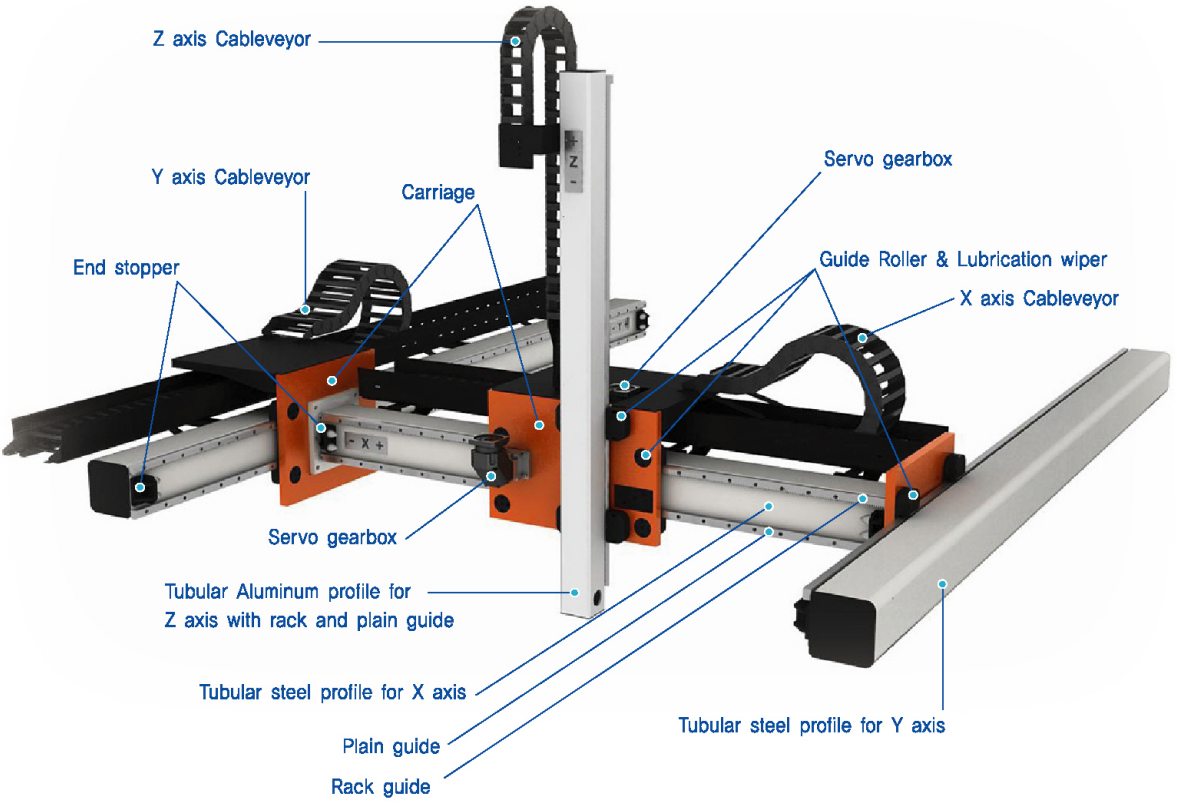


Type CL



구분 / Module Type	가반하중 범위 / Payload range [kg]							
	20	40	60	100	120	150	200	300
CL - 1								
CL - 2								
CL - 3								

Type CL

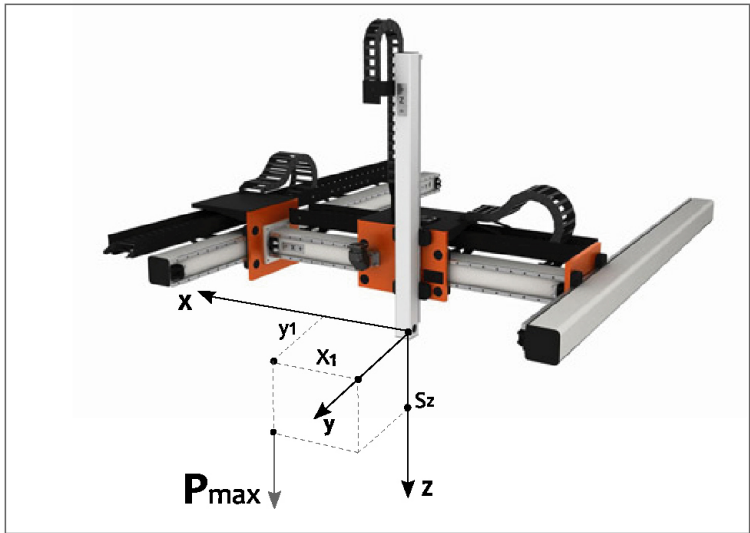


CL

제품치수 및 사양 | Dimension and specification

3축 리니어모듈 | 3 axis linear module

기술자료 CL-1 | Technical data CL-1



$P_{max} = 60kg$

P_{max} [kg] : 최대허용가능 가반하중
Permissible max. payload

P_{eff} [kg] : 유효 가반하중(그립퍼 포함)
Effective payload (incl. gripper unit)

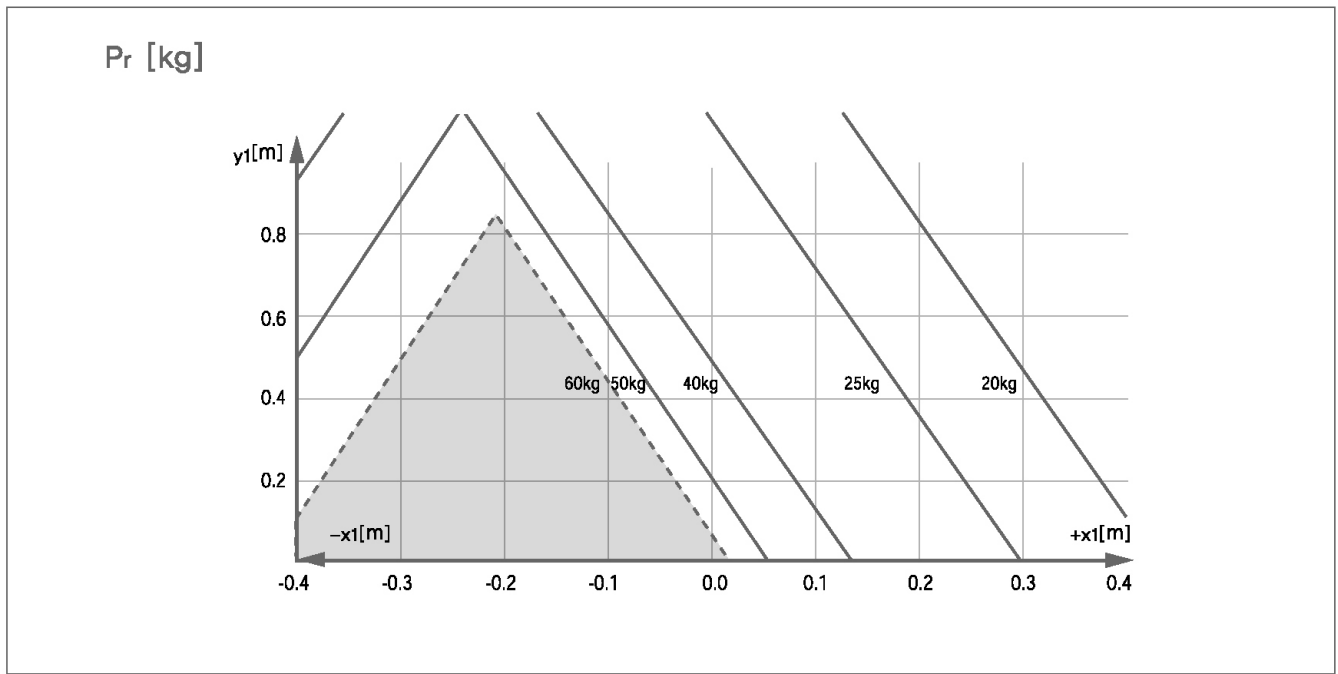
S_z [mm] : 행정거리(Z축)
Stroke(Z axis)

그립퍼 포함 / Including gripper

$P_{eff} \leq P_{max}$ [kg]

- case 1: $s_z < 1m$ $P_{max} = P_r$ [kg]
 - case 2: $s_z > 1m$ $P_{max} = P_r - (s_z - 1.0) \cdot 21$ [kg]
- $P_{eff} \leq P_{max}$ [kg]

허용가반하중범위 | Payload range for loading position



CL-1

3축 리니어모듈 | 3 axis linear module

주요 구성부품 | Key component

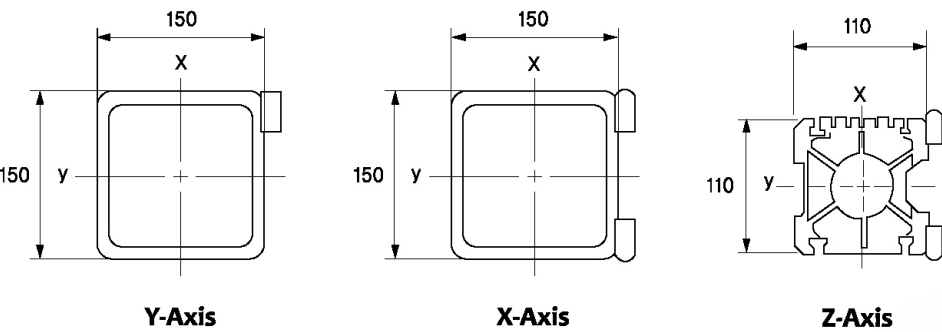
No.	Description	Type	Unit weight	See page
1	가이드 롤러 / Guide roller	GR G 20 (X,Z axis)	0,5kg	24p
		GR F 20 (Y axis)	0,7kg	24p
2	윤활 와이퍼 / Lubrication wiper	LW G 20 (X,Z axis)	0,05kg	28p
		LW F 20 (Y axis)	0,05kg	28p
3	플레인 가이드 / Plain guide	MPG G 20 (X,Z axis)	3,9kg/m	20p
		MPG F 20 (Y axis)	4,3kg/m	20p
4	랙 가이드 / Rack guide	MRG G 20 (X axis)	3,8kg/m	16p
		MRG G 20 H (Z axis)	3,8kg/m	16p
		MRG F 20 (Y axis)	4,1kg/m	16p
5	감속기 / Gearbox	AFR075	6,4kg	32p

부품상세사양은 부품카다로그를 참조하십시오.
Please refer to the component catalogue regarding detailed component specification

가반하중 및 작동사양 | Payload and drive data

Axis		X axis			Z axis			Y axis		
유효가반하중 / Effective payload	[kg]	20	40	60	20	40	60	20	40	60
공칭속도 / Nominal speed	[m/s]	3	3	3	2	2	2	3	3	3
최대가속도 / Max. acceleration	[m/s ²]	5	4	3,5	12	10	10	2,5	2	2
감속비 / Gearbox ratio	[-]	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1
모터속도 / Motor speed	[rpm]	3000	3000	3000	3000	3000	3000	3000	3000	3000
반복정밀도 / Repeatability	[mm]	±0,05								

굽힘 및 비틀림 저항 | Axis bending and torsion



Axis	Material	Standard	Unit weight(kg/m)	Ix(cm ⁴)	Iy(cm ⁴)	It(cm ⁴)
Y	R50	ISO 3304	54,9	2619	2077	3272
X	R50	ISO 3304	58,5	2589	2387	3272
Z	AlMg0,7Si	ISO 6361	21,5	900	800	340

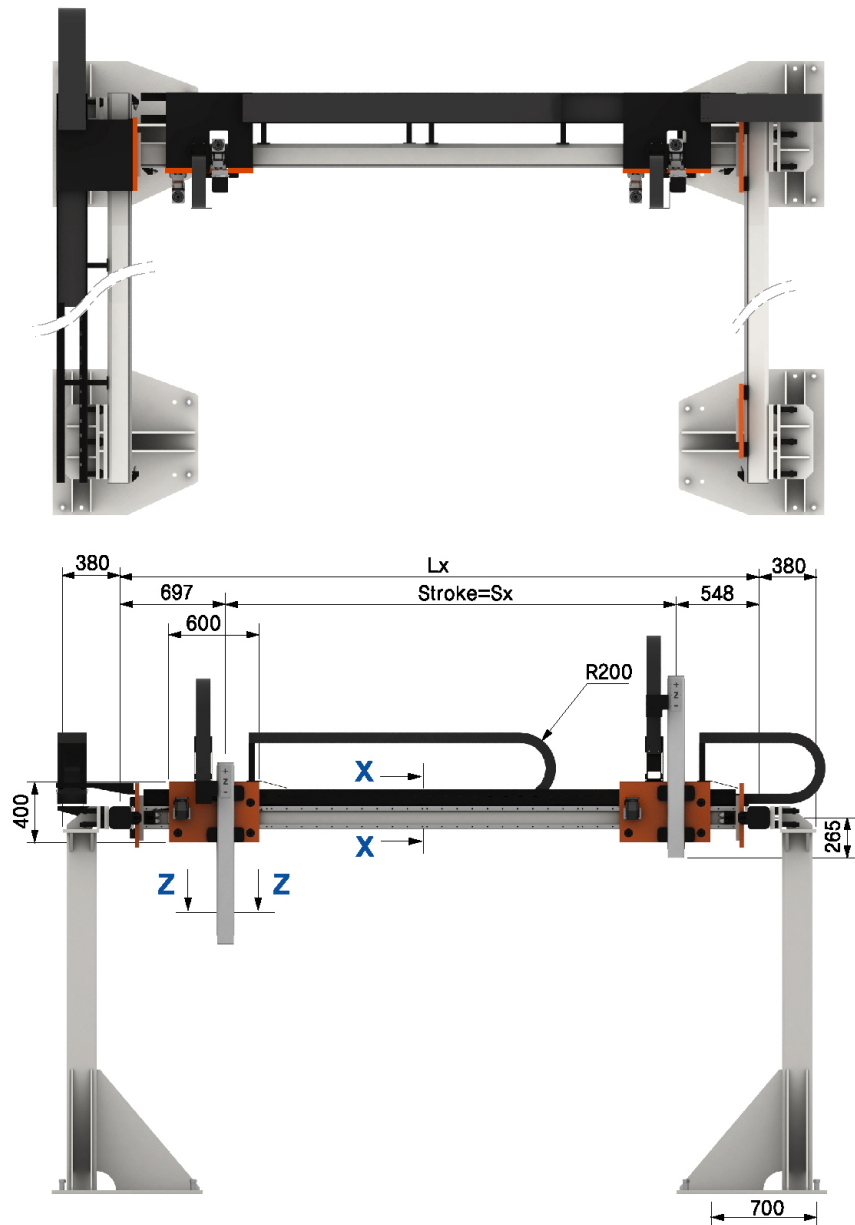
*가이드 부착시 / Guide assembly



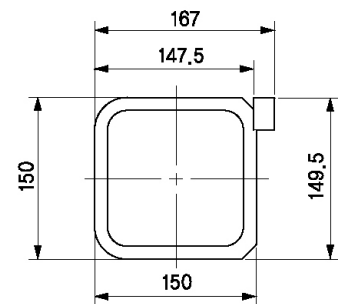
제품치수 및 사양 | Dimension and specification

3축 리니어모듈 | 3 axis linear module

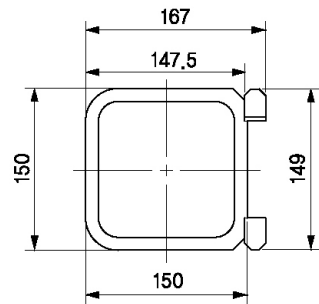
치수 CL-1 | Dimensions sheet CL-1



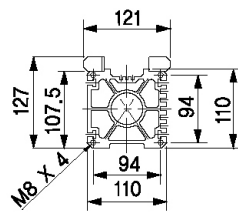
View Y



View X



View Z



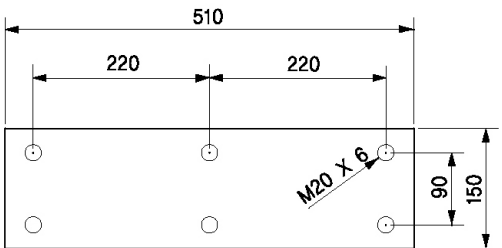
	max.(mm)
Lx	4445
Sx	3200
Lz	1740
Sz	1000
Ly	30853
Sy	30000

CL-1

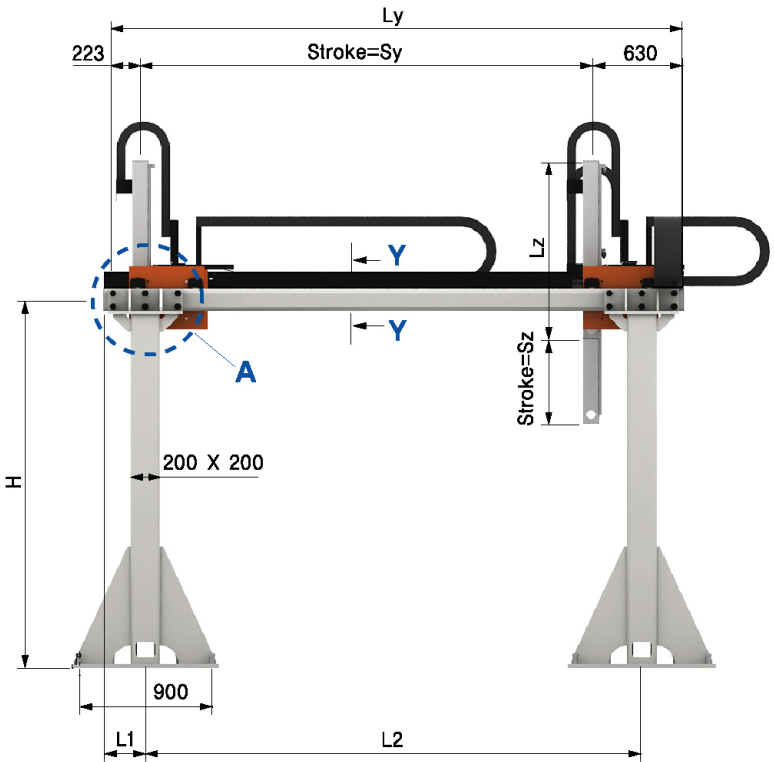
3축 리니어모듈 | 3 axis linear module

치수 CL-1 | Dimensions sheet CL-1

View A



View B

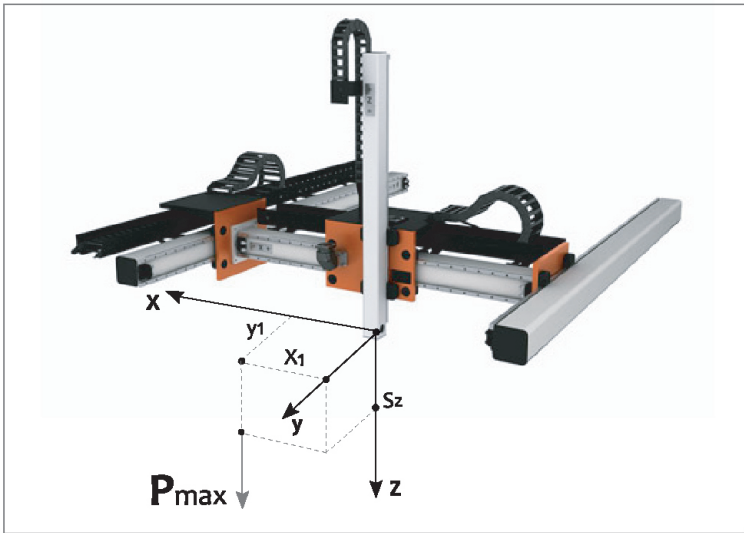


	min.(mm)	max.(mm)
L1	250	1500
L2	600	8000
H	900	3500

제품치수 및 사양 | Dimension and specification

3축 리니어모듈 | 3 axis linear module

기술자료 CL-2 | Technical data CL-2



$P_{max} = 150kg$

P_{max} [kg] : 최대허용가능 가반하중
Permissible max. payload

P_{eff} [kg] : 유효 가반하중(그립퍼 포함)
Effective payload (incl. gripper unit)

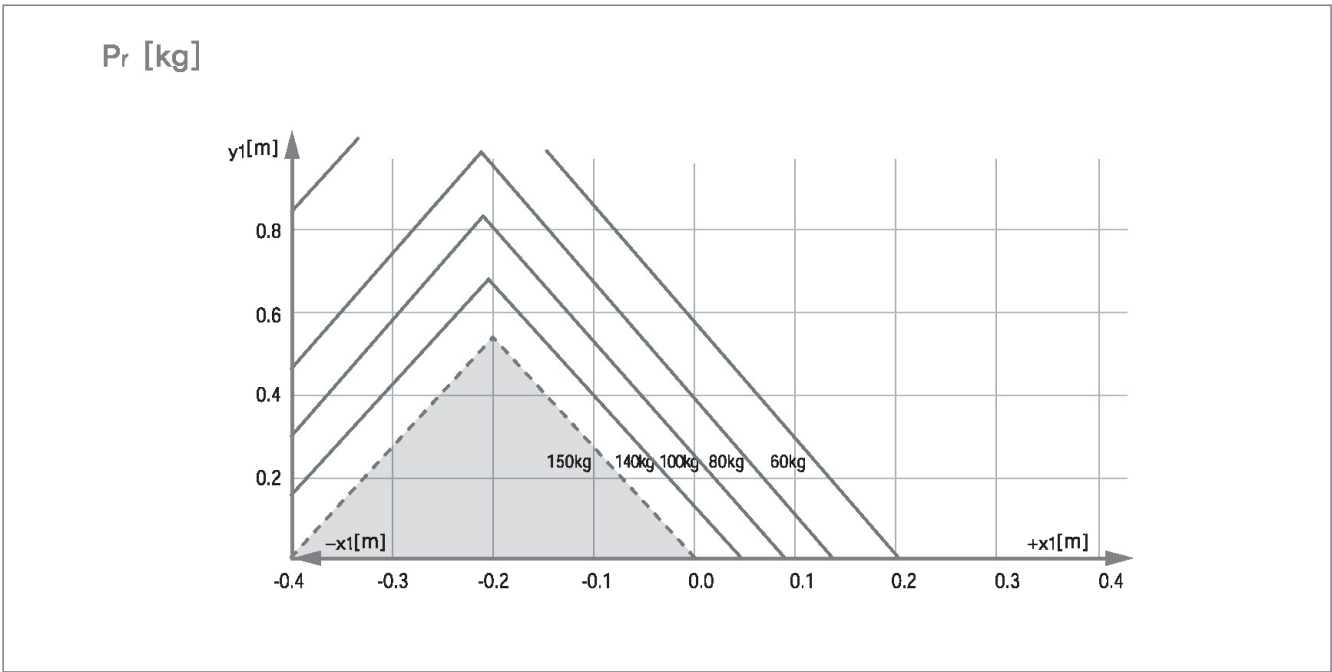
S_z [mm] : 행정거리(Z축)
Stroke(Z axis)

그립퍼 포함 / Including gripper

$P_{eff} \leq P_{max}$ [kg]

- case 1: $s_z < 1m$ $P_{max} = P_r$ [kg]
 - case 2: $s_z > 1m$ $P_{max} = P_r - (s_z - 1,2) \cdot 24$ [kg]
- $P_{eff} \leq P_{max}$ [kg]

허용가반하중범위 | Payload range for loading position



CL-2

3축 리니어모듈 | 3 axis linear module

주요 구성부품 | Key component

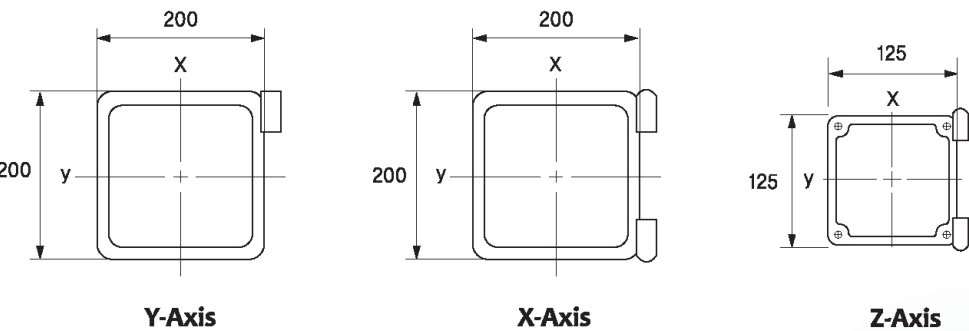
No.	Description	Type	Unit weight	See page
1	가이드 롤러 / Guide roller	GR G 25 (X,Z axis)	1,1kg	25p
		GR F 25 (Y axis)	1,1kg	25p
2	윤활 와이퍼 / Lubrication wiper	LW G 25 (X,Z axis)	0,13kg	29p
		LW F 25 (Y axis)	0,13kg	29p
3	플레인 가이드 / Plain guide	MPG G 25 (X,Z axis)	5,7kg/m	21p
		MPG F 25 (Y axis)	6,2kg/m	21p
4	랙 가이드 / Rack guide	MRG G 25 (X axis)	5,2kg/m	17p
		MRG G 25 H (Z axis)	5,2kg/m	17p
		MRG F 25 (Y axis)	5,7kg/m	17p
5	감속기 / Gearbox	AFR100	13,9kg	33p

부품상세사양은 부품카다로그를 참조하십시오.
Please refer to the component catalogue regarding detailed component specification

가반하중 및 작동사양 | Payload and drive data

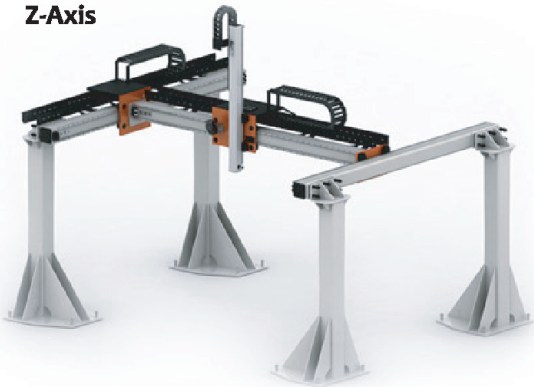
Axis		X axis			Z axis			Y axis		
유효가반하중 / Effective payload	[kg]	60	100	150	60	100	150	60	100	150
공칭속도 / Nominal speed	[m/s]	3	3	3	3	3	3	3	3	3
최대가속도 / Max. acceleration	[m/s ²]	5	4	3,5	10	7,5	5	2	1,5	1
감속비 / Gearbox ratio	[-]	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1
모터속도 / Motor speed	[rpm]	3000	3000	3000	3000	3000	3000	3000	3000	3000
반복정밀도 / Repeatability	[mm]	±0,05								

굽힘 및 비틀림 저항 | Axis bending and torsion



Axis	Material	Standard	Unit weight(kg/m)	lx(cm ⁴)	ly(cm ⁴)	lt(cm ⁴)
Y	R50	ISO 3304	75,3	6546	5167	8208
X	R50	ISO 3304	80,5	6536	6106	8208
Z	AlMg0,7Si	ISO 6361	24	1510	1250	1300

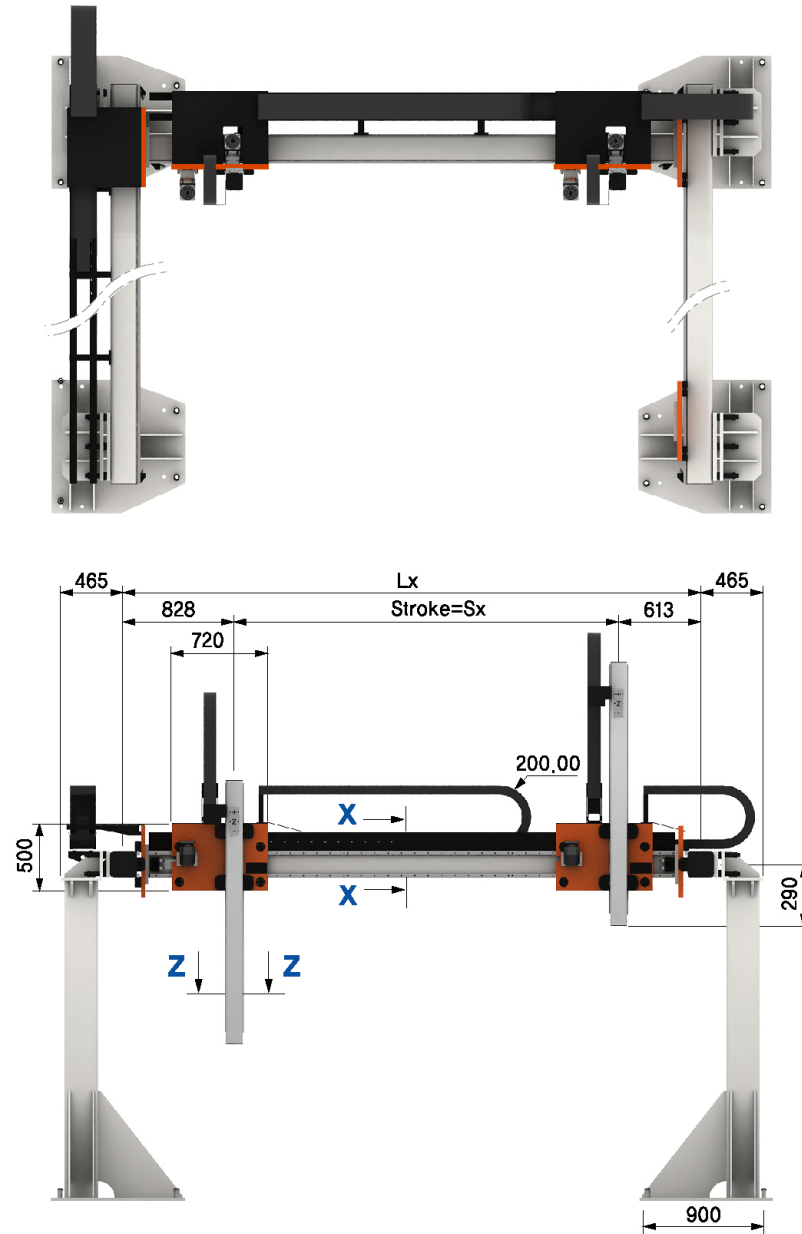
*가이드 부착시 / Guide assembly



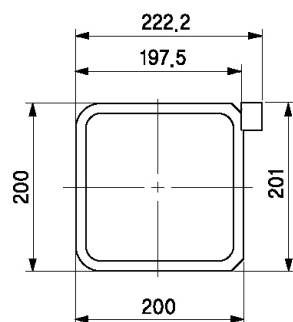
● 제품치수 및 사양 | Dimension and specification

3축 리니어모듈 | 3 axis linear module

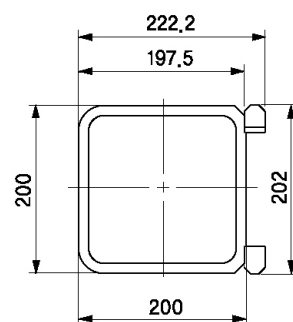
치수 CL-2 | Dimensions sheet CL-2



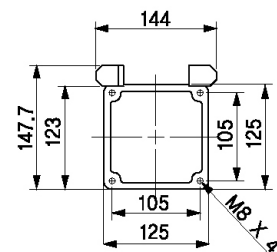
View Y



View X



View Z



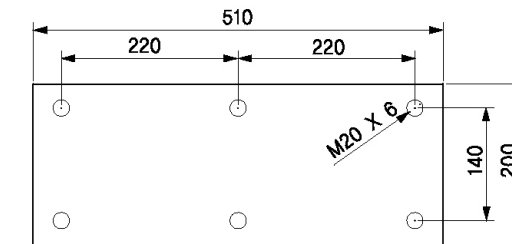
max.(mm)	
Lx	4641
Sx	3200
Lz	2040
Sz	1200
Ly	50940
Sy	50000

CL-2

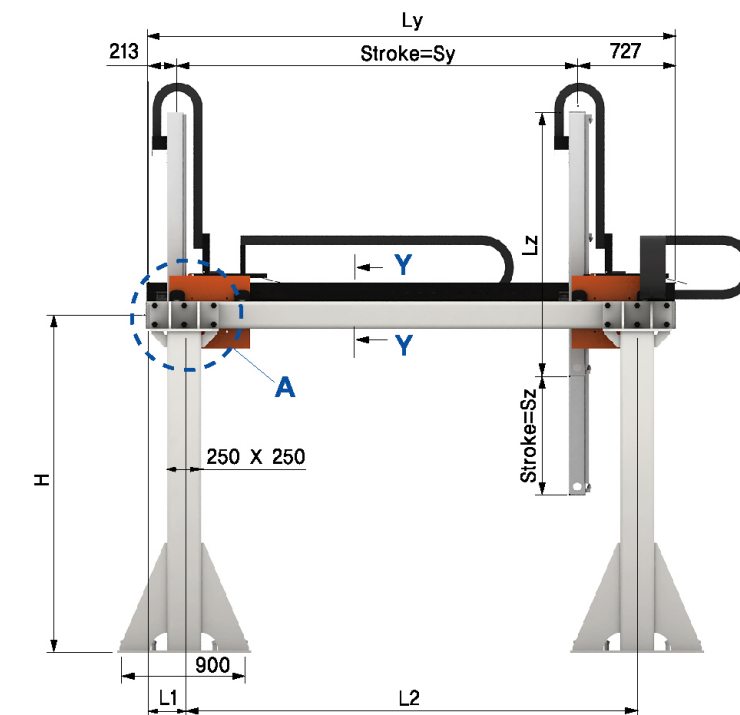
3축 리니어모듈 | 3 axis linear module

치수 CL-2 | Dimensions sheet CL-2

■ **View A**



■ **View B**

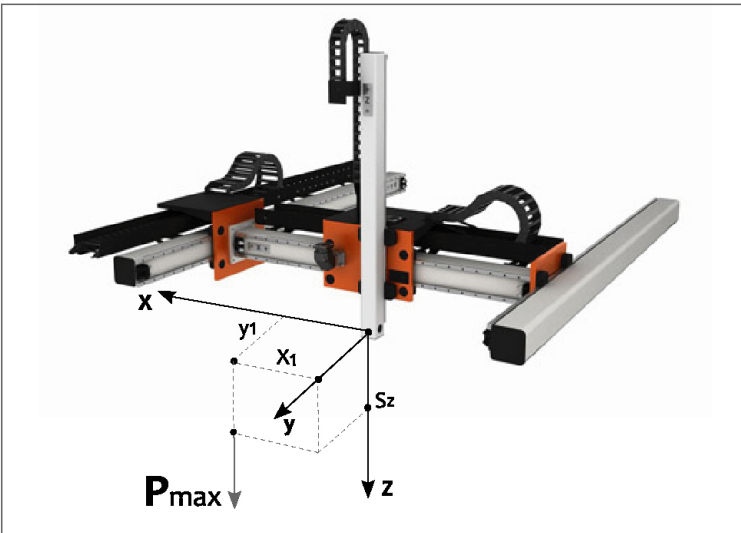


	min.(mm)	max.(mm)
L ₁	300	1500
L ₂	600	8000
H	900	4000

제품치수 및 사양 | Dimension and specification

3축 리니어모듈 | 3 axis linear module

기술자료 CL-3 | Technical data CL-3



$P_{max} = 300kg$

P_{max} [kg] : 최대허용가능 가반하중
Permissible max. payload

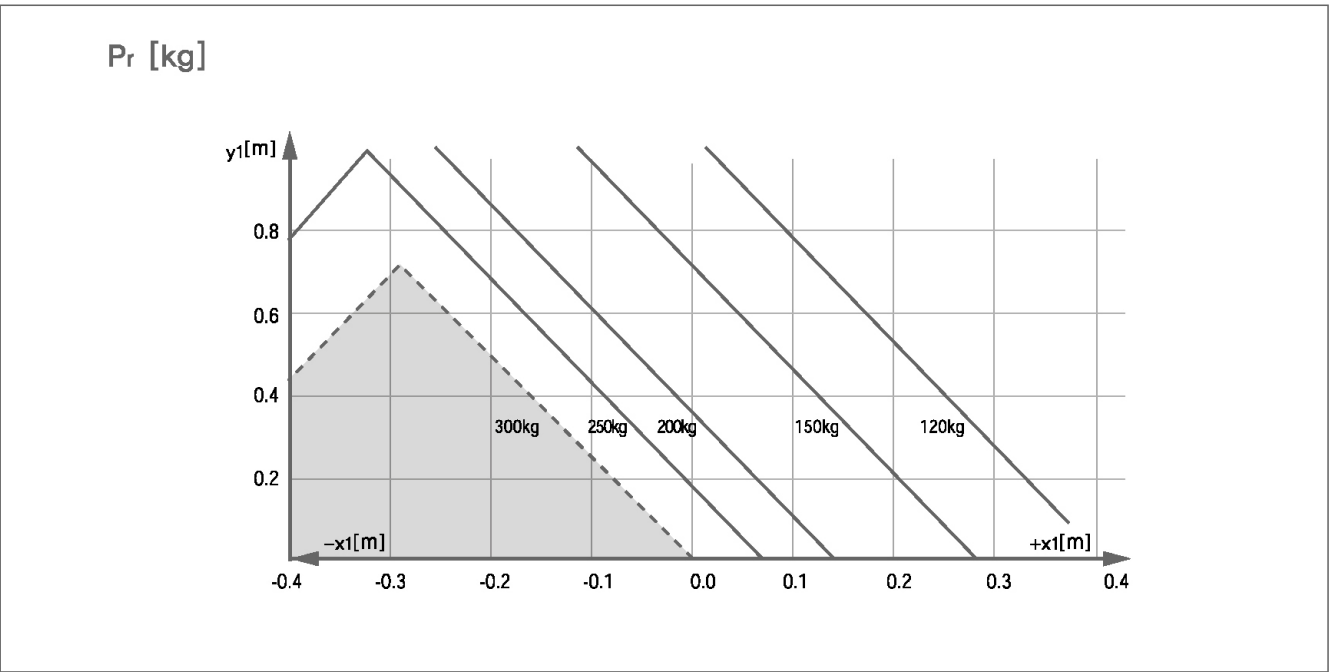
P_{eff} [kg] : 유효 가반하중(그립퍼 포함)
Effective payload (incl. gripper unit)

S_z [mm] : 행정거리(Z축)
Stroke(Z axis)

그립퍼 포함 / Including gripper
 $P_{eff} \leq P_{max}$ [kg]

- case 1: $s_z < 1m$ $P_{max} = P_r$ [kg]
 - case 2: $s_z > 1m$ $P_{max} = P_r - (s_z - 1,6) \cdot 48$ [kg]
- $P_{eff} \leq P_{max}$ [kg]

허용가반하중범위 | Payload range for loading position



CL-3

3축 리니어모듈 | 3 axis linear module

주요 구성부품 | Key component

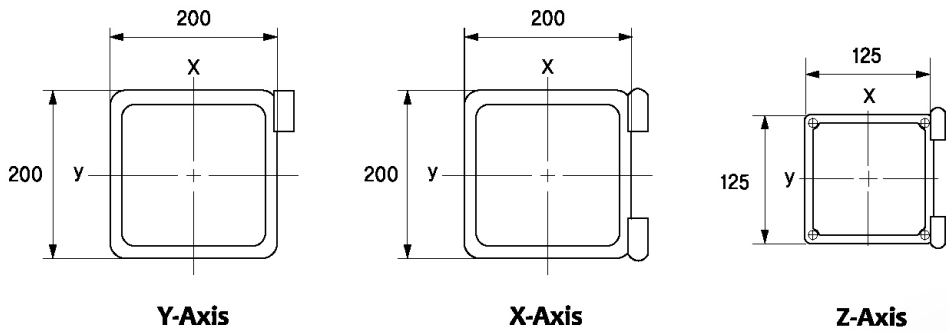
No.	Description	Type	Unit weight	See page
1	가이드 롤러 / Guide roller	GR G 35 (X,Z axis)	2,8kg	26p
		GR F 35 (Y axis)	3kg	26p
2	윤활 와이퍼 / Lubrication wiper	LW G 35 (X,Z axis)	0,26kg	30p
		LW F 35 (Y axis)	0,26kg	30p
3	플레인 가이드 / Plain guide	MPG G 35 (X,Z axis)	11,3kg/m	22p
		MPG F 35 (Y axis)	12,1kg/m	22p
4	랙 가이드 / Rack guide	MRG G 35 (X axis)	10,6kg/m	18p
		MRG G 35 H (Z axis)	10,6kg/m	18p
		MRG F 35 (Y axis)	11,3kg/m	18p
5	감속기 / Gearbox	AFR140	23,7kg	34p

부품상세사양은 부품카다로그를 참조하십시오.
Please refer to the component catalogue regarding detailed component specification

가반하중 및 작동사양 | Payload and drive data

Axis		X axis			Z axis			Y axis		
유효가반하중 / Effective payload	[kg]	120	200	300	120	200	300	120	200	300
공칭속도 / Nominal speed	[m/s]	3.3	3.3	3.3	3.3	3.3	3.3	3	3	3
최대가속도 / Max. acceleration	[m/s ²]	6	5	4	8	6	3	2	1.5	1
감속비 / Gearbox ratio	[-]	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1
모터속도 / Motor speed	[rpm]	3000	3000	3000	3000	3000	3000	3000	3000	3000
반복정밀도 / Repeatability	[mm]	±0.05								

굽힘 및 비틀림 저항 | Axis bending and torsion



Axis	Material	Standard	Unit weight(kg/m)	lx(cm ⁴)	ly(cm ⁴)	lt(cm ⁴)
Y	R50	ISO 3304	75.3	6546	5167	8208
X	R50	ISO 3304	80.5	6536	6106	8208
Z	AlMg0,7Si	ISO 6361	24	1510	1250	1300

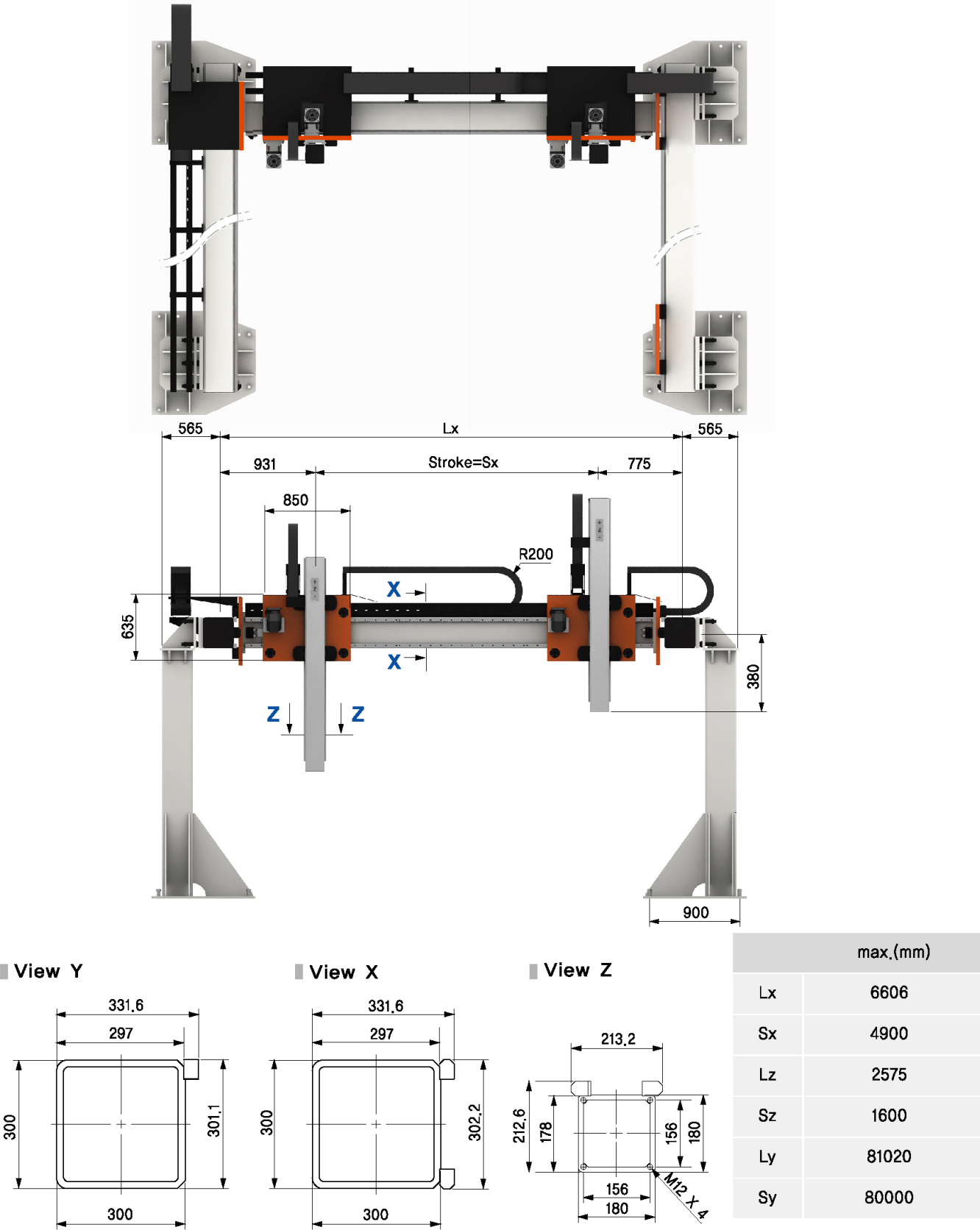
*가이드 부착시 / Guide assembly



● 제품치수 및 사양 | Dimension and specification

3축 리니어모듈 | 3 axis linear module

치수 CL-3 | Dimensions sheet CL-3



CL-3

3축 리니어모듈 | 3 axis linear module

치수 CL-3 | Dimensions sheet CL-3

