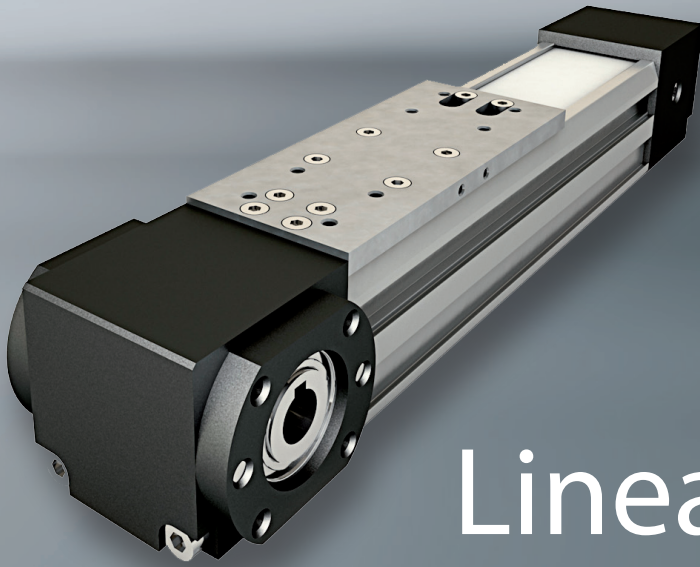


# Linear

## Modules

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# Linear Modules

Dierre Motion has been designing and manufacturing linear modules for almost 20 years, boasting the most complete and broadest range on the market today.

Thanks to the experience gained and the use of technologically advanced design and production tools, we are able to offer various standard or customized solutions.

The precision and quality of the extrusions, the internal production of the various parts and the use of primary brand components are some of the elements that allow us to provide a reliable and high quality product.



## DRIVEN WHEEL LINEAR SYSTEMS WHEELS AND PROFILES

Linear driven roller systems consist of a guide rail, a standard car plate and running wheels. The rails are made of anodized extruded aluminium (available in various sections) on which the round sliding bars in hardened ground and chromed steel are fixed by riveted joint. Thanks to the wheels on the eccentric pin it is possible to achieve perfect coupling with the bars and determine the desired preload. The sliding wheels have 2RS protections greased for life and can be with a gothic arch or "V" profile with 120° groove; the latter allow for the best discharge of the impurities present in some work environments.

### MAIN FEATURES

- cheapness
- maintenance free
- silence
- maximum flexibility
- adjustable preload

### OPTIONS

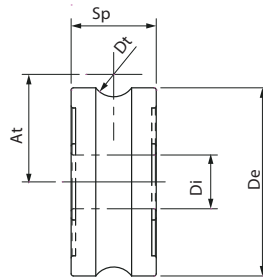
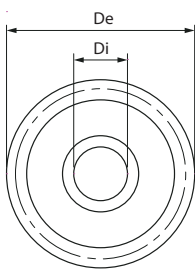
- customer specified guide fixing holes
- sliding bars and wheels in stainless steel
- car plate according to customer design
- connection system for guides over 6000 mm

N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.



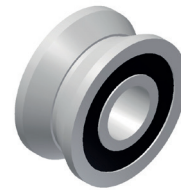
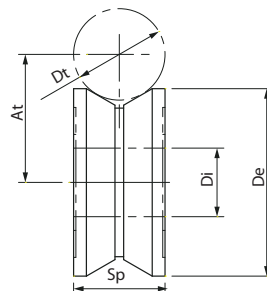
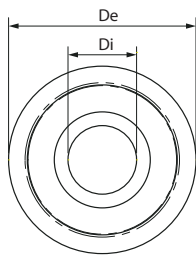
## Wheels without pin - profiled

Cc (N) = Dynamic load combined limit - Cco (N) = Static load combined limit



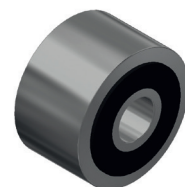
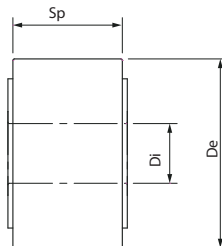
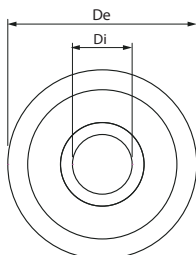
Code	Technical features						
	Di (mm)	De (mm)	Sp	Dt (mm)	At (mm)	Cc (N)	Cco (N)
CRUGC0000012	5	16	8	4	9	712	1016
CRUGC0000017	5	17	8	6	9	712	1016
CRUGC0000019	8	24	11	6	14	1824	2936
CRUGC0000004	12	35	15.9	10	20.65	4080	6800
CRUGC0000007	12	35	15.9	12	21.75	4080	6800
CRUGC0000009	12	42	19	10	24	5520	9600
CRUGC0000013	25	72	25.8	20	41	12880	18160
CRUGC0000014	25	72	25.8	25	43.5	12880	18160

## Wheels without pin - V groove



Code	Technical features						
	Di (mm)	De (mm)	Sp	Dt (mm)	At (mm)	Cc (N)	Cco (N)
CRUGC0000018	7	22	11	10	14.5	960	2720
CRUGC0000022	8	30	14	10	18.1	2160	5120
CRUGC0000001	10	30	14	10	18.1	2160	5120
CRUGC0000010	15	38	17	10	22.25	6000	9200
CRUGC0000011	15	41	20	20	28	6000	9200
CRUGC0000012	17	58	25	20	35	8000	14400

## Wheels without pin - cylindrical

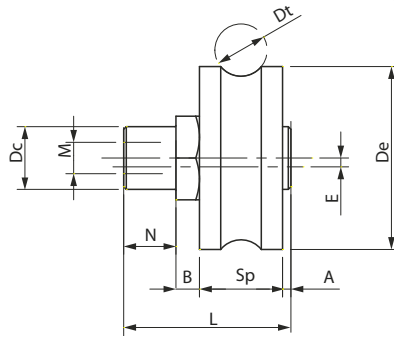
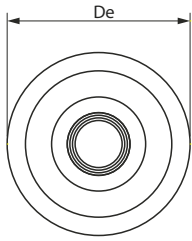


Code	Technical features						
	Di (mm)	DE(mm)	Sp	Dt (mm)	At (mm)	Cc (N)	Cco (N)
CCURR0000001	6	19	11	-	-	2688	2352
CCUSE0000008	12	32	15.9	-	-	4080	6800

## Wheels with pin - profiled with F type thread

Cr = Theoretical radial breaking load (N) - Crc = Recommended radial load (N)

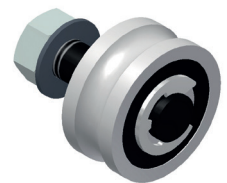
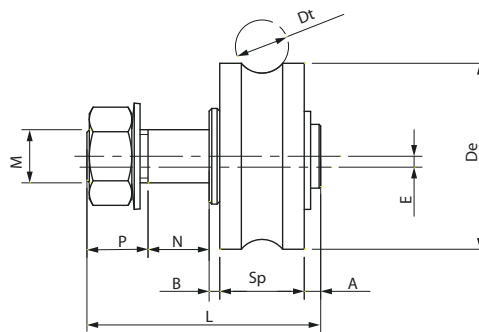
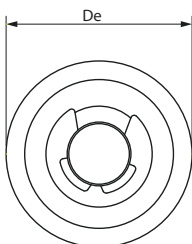
Ca = Theoretical axial breaking load (N) - Cac = Recommended axial load (N)



Code	Dimensions (mm)												Code wheel	Code pin	Cr*	Ca	Crc*	Cac
	Di	De	Sp	Dt	A	B	N	L	M	E	Dc							
CONCENTRIC:																		
GRUGD0000026	5	16	8	4	0.2	1.6	5	14.8	4	-	6	CRUGC0000016	DPERO0000025	712 N	400 N	71 N	40 N	
GRUGD0000042	8	24	11	6	0.4	2.5	5.8	19.7	5	-	8	CRUGC0000020	DPERO0000008	1824 N	1200 N	182 N	120 N	
GRUGD0000028	12	35	15.9	10	1.6	4.5	10	32	8	-	12	CRUGC0000004	DPERO0000009	4080 N	2000 N	408 N	200 N	
GRUGD0000069	12	42	19	10	3.9	3	10	35.9	8	-	12	CRUGC0000009	DPERO0000011	5520 N	4000 N	552 N	400 N	
ECCENTRIC:																		
GRUGD0000047	5	16	8	4	0.2	1.6	5	14.8	4	0.6	6	CRUGC0000016	DPERO0000059	712 N	400 N	71 N	40 N	
GRUGD0000063	8	24	11	6	0.4	2.5	5.8	19.7	5	0.5	8	CRUGC0000020	DPERO0000039	1824 N	1200 N	182 N	120 N	
GRUGD0000049	12	35	15.9	10	1.6	4.5	10	32	8	0.5	12	CRUGC0000004	DPERO0000040	4080 N	2000 N	408 N	200 N	
GRUGD0000070	12	42	19	10	3.9	3	10	35.9	8	0.75	12	CRUGC0000009	DPERO0000042	5520 N	4000 N	552 N	400 N	

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

## Wheels with pin - profiled with M type thread



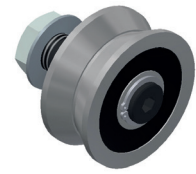
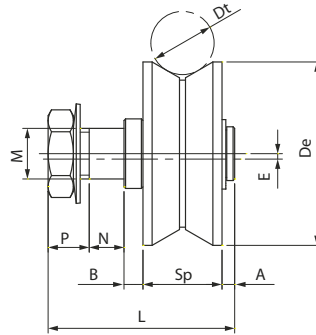
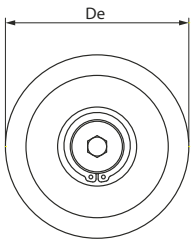
Code	Dimensions (mm)												Code wheel	Code pin	Cr*	Ca	Crc*	Cac
	Di	De	Sp	Dt	A	B	N	P	L	M	E							
CONCENTRIC:																		
GRUGD0000083	5	17	8	6	2.5	4	5	5.5	23	5	-	CRUGC0000017	DPERO0000022	712 N	800 N	71 N	80 N	
GRUGD0000086	8	24	11	6	1.8	2	6	7	27.8	8	-	CRUGC0000020	DPERO0000023	1824 N	2400 N	182 N	240 N	
GRUGD0000029	5	17	8	6	2.5	4	2.5	5.5	19	5	-	CRUGC0000017	DPERO0000079	712 N	800 N	71 N	80 N	
GRUGD0000045	12	35	15.9	10	3.1	2	12	11	44	10	-	CRUGC0000004	DPERO0000024	4080 N	400 N	408 N	40 N	
ECCENTRIC:																		
GRUGD0000084	5	17	8	6	2.5	4	5	5.5	23	5	0.5	CRUGC0000017	DPERO0000056	712 N	800 N	71 N	80 N	
GRUGD0000085	8	24	11	6	1.8	2	6	7	27.8	8	0.5	CRUGC0000020	DPERO0000057	1824 N	2400 N	182 N	240 N	
GRUGD0000050	5	17	8	6	2.5	4	2.5	5.5	19	5	0.5	CRUGC0000017	DPERO0000080	712 N	800 N	71 N	80 N	
GRUGD0000066	12	35	15.9	10	3.1	2	12	11	44	10	0.75	CRUGC0000004	DPERO0000058	4080 N	400 N	408 N	40 N	

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

## Wheels with pin - normal type V groove

Cr = Theoretical radial breaking load (N) - Crc = Recommended radial load (N)

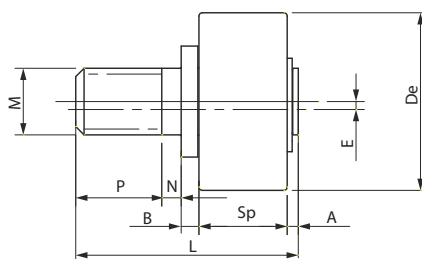
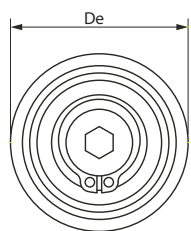
Ca = Theoretical axial breaking load (N) - Cac = Recommended axial load (N)



Code	Dimensions (mm)											Code wheel	Code pin	Cr*	Ca	Crc*	Cac
	Di	De	Sp	Dt	A	B	N	P	L	M	E						
<b>CONCENTRIC:</b>																	
GRUGD0000030	7	22	11	10	2.5	2.5	4	5.5	25.5	6	-	CRUGC0000018	DPERO0000017	960 N	2080 N	96 N	208 N
GRUGD0000031	7	22	11	10	1	2.5	2.5	7	24	6	-	CRUGC0000018	DPERO0000068	960 N	1040 N	96 N	104 N
GRUGD0000032	8	30	14	10	3	2	5	9	33	8	-	CRUGC0000022	DPERO0000018	2160 N	2400 N	216 N	240 N
GRUGD0000033	10	38	18	10	2	2.5	4	15	41.4	10	-	CRUGC0000010	DPERO0000019	6000 N	5520 N	600 N	552 N
GRUGD0000040	10	30	14	10	2	2	4.5	9.5	32	8	-	CRUGC0000001	DPERO0000073	2160 N	1600 N	216 N	160 N
GRUGD0000035	15	41	20	20	4	3	6	13	46	12	-	CRUGC0000011	DPERO0000020	6000 N	5520 N	600 N	552 N
GRUGD0000036	17	58	25	20	3	6	10	14	58	16	-	CRUGC0000012	DPERO0000021	8000 N	6400 N	800 N	640 N
<b>ECCENTRIC:</b>																	
GRUGD0000052	7	22	11	10	2.5	2.5	4	5.5	25.5	6	1.5	CRUGC0000018	DPERO0000051	960 N	2080 N	96 N	208 N
GRUGD0000051	7	22	11	10	1	2.5	2.5	7	24	6	1	CRUGC0000018	DPERO0000069	960 N	1040 N	96 N	104 N
GRUGD0000053	8	30	14	10	3	2	5	9	33	8	1.5	CRUGC0000022	DPERO0000052	2160 N	2400 N	216 N	240 N
GRUGD0000054	10	38	18	10	2	2.5	4	15	41.4	10	1	CRUGC0000010	DPERO0000053	6000 N	5520 N	600 N	552 N
GRUGD0000061	10	30	14	10	2	2	4.5	9.5	32	8	1	CRUGC0000001	DPERO0000074	2160 N	1600 N	216 N	160 N
GRUGD0000056	15	41	20	20	4	3	6	13	46	12	2	CRUGC0000011	DPERO0000054	6000 N	5520 N	600 N	552 N
GRUGD0000057	17	58	25	20	3	6	10	14	58	16	1.5	CRUGC0000012	DPERO0000055	8000 N	6400 N	800 N	640 N

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

## Wheels with pin - cylindrical

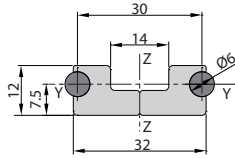


Code	Dimensions (mm)											Code wheel	Code pin	Cr*	Ca	Crc*	Cac
	Di	De	Sp	Dt	A	B	N	P	L	M	E						
<b>CONCENTRIC:</b>																	
GRUGD0000039	6	19	11	-	1.8	1.7	4.5	10	29	8	-	CCURR0000001	DPERO0000007	2688 N	1160 N	269 N	116 N
GRUGD0000037	12	32	15.9	-	2.2	3	5	14	40.1	12	-	CCUSE0000008	DPERO0000005	4080 N	4000 N	408 N	400 N
GRUGD0000038	12	32	15.9	-	2.2	3	5	11	37.1	12	-	CCUSE0000008	DPERO0000028	4080 N	4000 N	408 N	400 N
<b>ECCENTRIC:</b>																	
GRUGD0000060	6	19	11	-	1.8	1.7	4.5	10	29	8	1	CCURR0000001	DPERO0000048	2688 N	1160 N	269 N	116 N
GRUGD0000058	12	32	15.9	-	2.2	3	5	14	40.1	12	1.5	CCUSE0000008	DPERO0000037	4080 N	4000 N	408 N	400 N
GRUGD0000059	12	32	15.9	-	2.2	3	5	11	37.1	12	1.5	CCUSE0000008	DPERO0000062	4080 N	4000 N	408 N	400 N

\* Values refer to the breaking load of the wheel which is lower than that of the pin.

GD6

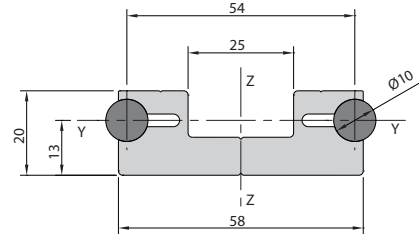
BPRGD0000063



Technical features	
Profile area	315.46 mm <sup>2</sup>
Sizes	Y 36.00 mm
	Z 12.00 mm
Moments of inertia	Jy 0.35 cm <sup>4</sup>
	Jz 3.59 cm <sup>4</sup>
Profile moment of resistance	Wy 0.46 cm <sup>3</sup>
	Wz 2.40 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	1.15 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

GD10

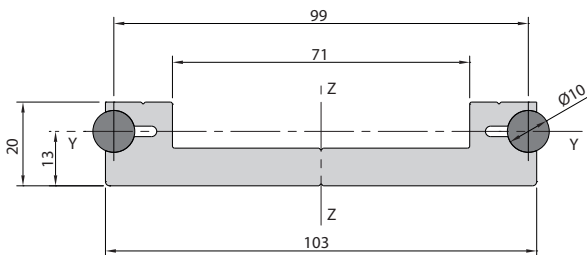
BPRGD0000007



Technical features	
Profile area	879.63 mm <sup>2</sup>
Sizes	Y 64.00 mm
	Z 20.00 mm
Moments of inertia	Jy 2.85 cm <sup>4</sup>
	Jz 33.08 cm <sup>4</sup>
Profile moment of resistance	Wy 2.20 cm <sup>3</sup>
	Wz 12.28 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	3.19 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

GDX10

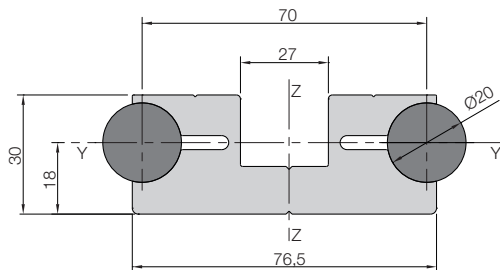
BPRGD0000065



Technical features	
Profile area	1290.96 mm <sup>2</sup>
Sizes	Y 109.00 mm
	Z 20.00 mm
Moments of inertia	Jy 3.58 cm <sup>4</sup>
	Jz 155.36 cm <sup>4</sup>
Profile moment of resistance	Wy 2.76 cm <sup>3</sup>
	Wz 31.45 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	4.31 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

GD20

BPRGD0000062

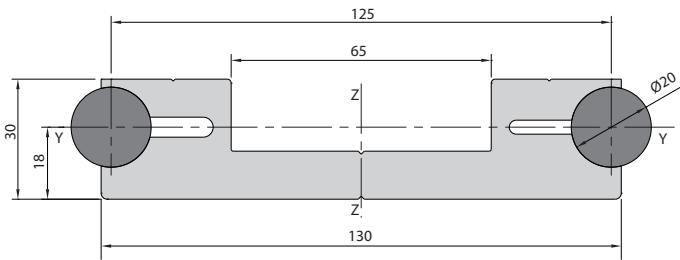


Technical features	
Profile area	2018.23 mm <sup>2</sup>
Sizes	Y 90.00 mm
	Z 30.00 mm
Moments of inertia	Jy 14.97 cm <sup>4</sup>
	Jz 136.23 cm <sup>4</sup>
Profile moment of resistance	Wy 8.32 cm <sup>3</sup>
	Wz 39.02 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	8.70 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	



GDX20

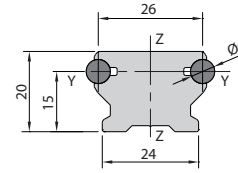
BPRGD0000009



Technical features	
Profile area	2790.26 mm <sup>2</sup>
Sizes	Y 145.00 mm
	Z 30.00 mm
Moments of inertia	Jy 20.64 cm <sup>4</sup>
	Jz 575.74 cm <sup>4</sup>
Profile moment of resistance	Wy 11.51 cm <sup>3</sup>
	Wz 92.98 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	10.87 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

ACS32

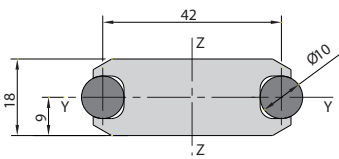
BPRGD0000059



Technical features	
Profile area	479.77 mm <sup>2</sup>
Sizes	Y 32.00 mm
	Z 20.00 mm
Moments of inertia	Jy 1.48 cm <sup>4</sup>
	Jz 2.86 cm <sup>4</sup>
Profile moment of resistance	Wy 1.02 cm <sup>3</sup>
	Wz 1.91 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	1.63 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

ACS52

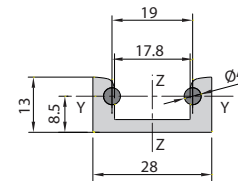
BPRGD0000058



Technical features	
Profile area	849.83 mm <sup>2</sup>
Sizes	Y 52.00 mm
	Z 18.00 mm
Moments of inertia	Jy 2.13 cm <sup>4</sup>
	Jz 16.09 cm <sup>4</sup>
Profile moment of resistance	Wy 2.36 cm <sup>3</sup>
	Wz 6.13 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	3.08 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

IL28

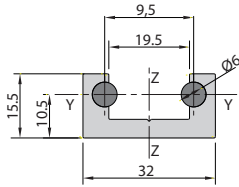
BPRGD0000012



Technical features	
Profile area	189.60 mm <sup>2</sup>
Sizes	Y 28.00 mm
	Z 13.00 mm
Moments of inertia	Jy 0.27 cm <sup>4</sup>
	Jz 1.92 cm <sup>4</sup>
Profile moment of resistance	Wy 0.32 cm <sup>3</sup>
	Wz 1.37 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	0.64 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

IL32

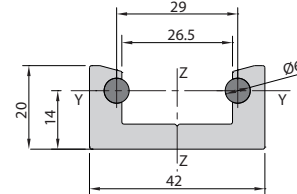
BPRGD0000013



Technical features	
Profile area	297.67 mm <sup>2</sup>
Sizes	Y 32.00 mm
	Z 15.50 mm
Moments of inertia	Jy 0.62 cm <sup>4</sup>
	Jz 3.68 cm <sup>4</sup>
Profile moment of resistance	Wy 0.59 cm <sup>3</sup>
	Wz 2.30 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	1.10 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

IL42

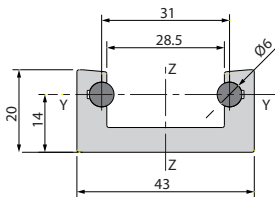
BPRGD0000014



Technical features	
Profile area	474.05 mm <sup>2</sup>
Sizes	Y 42.00 mm
	Z 20.00 mm
Moments of inertia	Jy 1.55 cm <sup>4</sup>
	Jz 10.20 cm <sup>4</sup>
Profile moment of resistance	Wy 1.10 cm <sup>3</sup>
	Wz 4.87 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	1.58 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

IL43

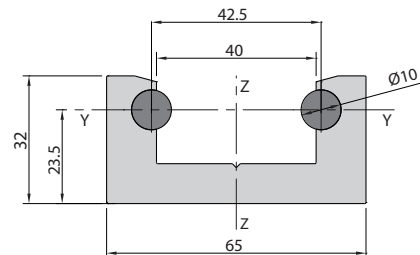
BPRGD0000015



Technical features	
Profile area	468.60 mm <sup>2</sup>
Sizes	Y 43.00 mm
	Z 20.00 mm
Moments of inertia	Jy 1.55 cm <sup>4</sup>
	Jz 10.63 cm <sup>4</sup>
Profile moment of resistance	Wy 1.10 cm <sup>3</sup>
	Wz 4.94 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	1.56 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

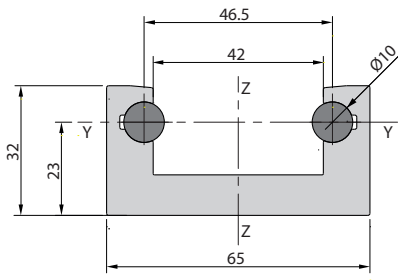
IL65

BPRGD0000017



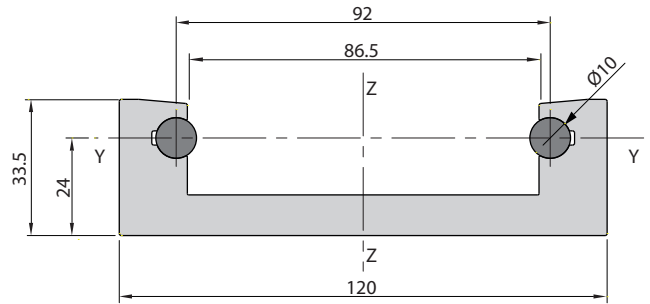
Technical features	
Profile area	1241.99 mm <sup>2</sup>
Sizes	Y 65.00 mm
	Z 32.00 mm
Moments of inertia	Jy 10.73 cm <sup>4</sup>
	Jz 62.84 cm <sup>4</sup>
Profile moment of resistance	Wy 4.58 cm <sup>3</sup>
	Wz 19.37 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	4.18 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

**MR65** APRGD0000002



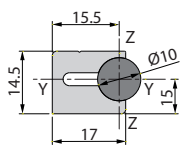
Technical features	
Profile area	1180.27 mm <sup>2</sup>
Sizes	Y 65.00 mm
	Z 32.00 mm
Moments of inertia	Jy 10.09 cm <sup>4</sup>
	Jz 60.23 cm <sup>4</sup>
Profile moment of resistance	Wy 4.39 cm <sup>3</sup>
	Wz 18.53 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	4.00 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

**IL120** BPRGD0000010



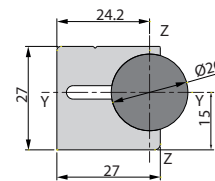
Technical features	
Profile area	1993.21 mm <sup>2</sup>
Sizes	Y 120.00 mm
	Z 33.50 mm
Moments of inertia	Jy 17.67 cm <sup>4</sup>
	Jz 335.48 cm <sup>4</sup>
Profile moment of resistance	Wy 7.36 cm <sup>3</sup>
	Wz 59.25 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	6.19 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

**GS10** BPRGD0000068

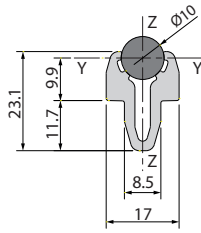


Technical features	
Profile area	247.20 mm <sup>2</sup>
Sizes	Y 20.5 mm
	Z 14.5 mm
Moments of inertia	Jy 0.438 cm <sup>4</sup>
	Jz 0.783 cm <sup>4</sup>
Profile moment of resistance	Wy 5.48 cm <sup>3</sup>
	Wz 5.06 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	1.08 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

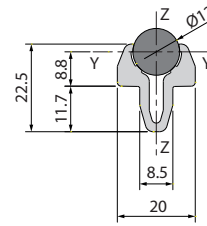
**GS20** BPRGD0000069



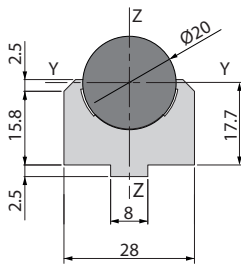
Technical features	
Profile area	790.04 mm <sup>2</sup>
Sizes	Y 34.20 mm
	Z 27.00 mm
Moments of inertia	Jy 4.60 cm <sup>4</sup>
	Jz 6.67 cm <sup>4</sup>
Profile moment of resistance	Wy 3.07 cm <sup>3</sup>
	Wz 2.76 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	3.76 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

Round bar containment profile  $\varnothing 10$  BPRGD0000032

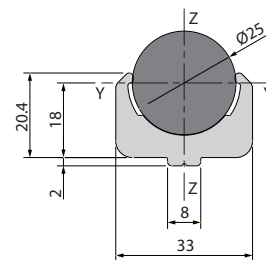
Technical features	
Profile area	160.23 mm <sup>2</sup>
Sizes	Y 17.00 mm
	Z 26.70 mm
Moments of inertia	Jy 0.405 cm <sup>4</sup>
	Jz 0.524 cm <sup>4</sup>
Profile moment of resistance	Wy 0.46 cm <sup>3</sup>
	Wz 0.53 cm <sup>3</sup>
Max. profile length	5000 mm
Mass	0.432 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

Round bar containment profile  $\varnothing 12$  BPRGD0000020

Technical features	
Profile area	160 mm <sup>2</sup>
Sizes	Y 20.00 mm
	Z 26.50 mm
Moments of inertia	Jy 0.479 cm <sup>4</sup>
	Jz 0.548 cm <sup>4</sup>
Profile moment of resistance	Wy 0.390 cm <sup>3</sup>
	Wz 0.547 cm <sup>3</sup>
Max. profile length	6100 mm
Mass	0.432 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

Round bar containment profile  $\varnothing 20$  BPRGD0000102

Technical features	
Profile area	312 mm <sup>2</sup>
Sizes	Y 28.00 mm
	Z 28.00 mm
Moments of inertia	Jy 0.664 cm <sup>4</sup>
	Jz 2.559 cm <sup>4</sup>
Profile moment of resistance	Wy 0.368 cm <sup>3</sup>
	Wz 1.828 cm <sup>3</sup>
Max. profile length	6100 mm
Mass	0.84 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

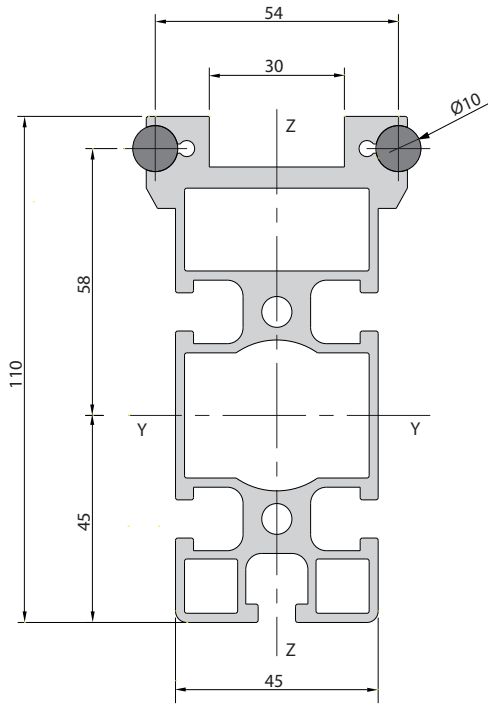
Round bar containment profile  $\varnothing 25$  BPRGD0000022

Technical features	
Profile area	348 mm <sup>2</sup>
Sizes	Y 33.00 mm
	Z 32.50 mm
Moments of inertia	Jy 0.924 cm <sup>4</sup>
	Jz 4.259 cm <sup>4</sup>
Profile moment of resistance	Wy 0.462 cm <sup>3</sup>
	Wz 2.585 cm <sup>3</sup>
Max. profile length	6100 mm
Mass	0.939 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	



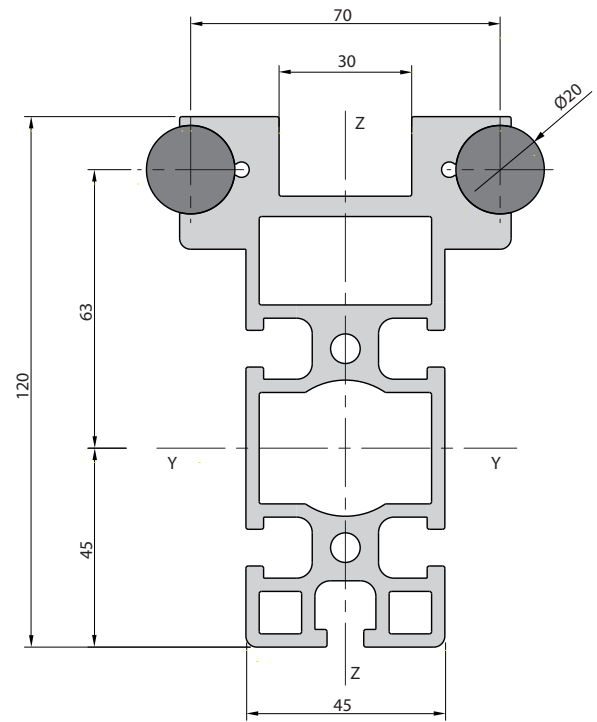
GDR10

BPRGD0000027



GDR20

BPRGD0000028



Technical features	
Profile area	1715.11 mm <sup>2</sup>
Sizes	Y 64.00 mm
	Z 110.00 mm
Moments of inertia	Jy 219.23 cm <sup>4</sup>
	Jz 51.22 cm <sup>4</sup>
Profile moment of resistance	Wy 33.73 cm <sup>3</sup>
	Wz 16.01 cm <sup>3</sup>
Max. profile length	6040 mm
Mass	5.46 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	

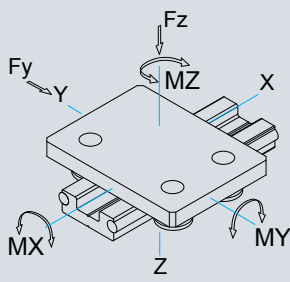
Technical features	
Profile area	2965.38 mm <sup>2</sup>
Sizes	Y 90.00 mm
	Z 120.00 mm
Moments of inertia	Jy 413.54 cm <sup>4</sup>
	Jz 160.62 cm <sup>4</sup>
Profile moment of resistance	Wy 68.47 cm <sup>3</sup>
	Wz 35.69 cm <sup>3</sup>
Max. profile length	6040 mm
Mass	11.27 Kg/m
Material	
ALLOY EN AW 6060	
C50 Temp./Grind./Chrome plated	



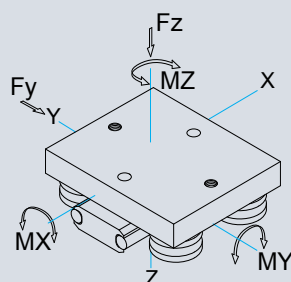
## LINEAR SYSTEMS WITH DRIVEN WHEEL

In this section there is the range of pre-assembled components for the realization of driven wheel linear systems, simple and economical solutions, with a good degree of precision.

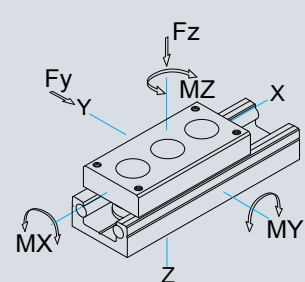
The basic components of the previous section are used in realizing linear systems, assembled on specific cars, sized for use on the relative profiles.



GD series - GDX series



GDS series



IL series

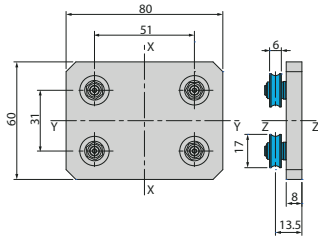
The linear systems consist of a Car with its **Wheel** and **Profile**.

**IMPORTANT:**  $F_y$  must only be applied to the side with the wheels with concentric pin. **Caution:** the Car Code includes the supply of a single assembled car (the guide profile is not included). When ordering, also specify the quantity and lengths of the type of profile.

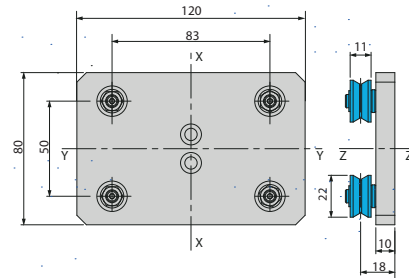
N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.

Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - CI = Recommended load (N)

## GD6



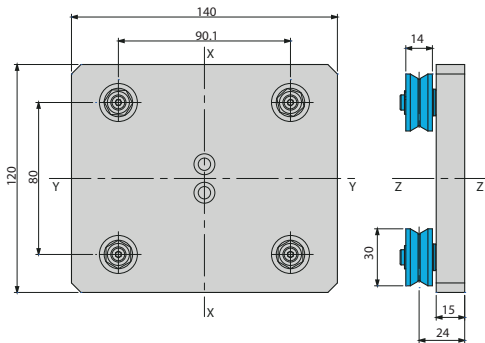
## GD10A



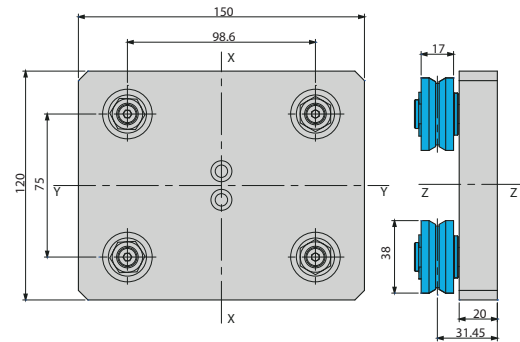
Cod. Car GCARO0000088		
Cod. Profile BPRGD0000063		
Cod. Wheels GRUGD0000029 - GRUGD0000050		
TECHNICAL FEATURES		
Car mass	0.145 Kg	
Twisting moments	Mr	MI
MX moment	48 Nm	6.8 Nm
MY moment	29 Nm	4.2 Nm
MZ moment	34 Nm	5 Nm
Applicable loads	Cr	CI
FY load	1153 N	165 N
FZ load	1879 N	268 N

Cod. Car GCARO0000196		
Cod. Profile BPRGD0000007 - BPRGD0000027		
Cod. Wheels GRUGD0000030 - GRUGD0000052		
TECHNICAL FEATURES		
Car mass	0.38 Kg	
Twisting moments	Mr	MI
MX moment	105 Nm	15 Nm
MY moment	63 Nm	9 Nm
MZ moment	75 Nm	10.8 Nm
Applicable loads	Cr	CI
FY load	1552 N	222 N
FZ load	2534 N	362 N

## GD10B



## GD10C

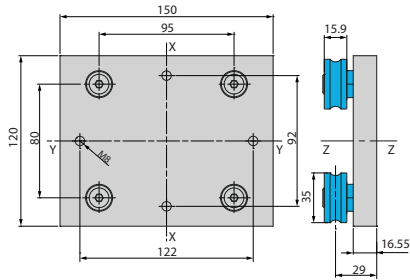


Cod. Car GCARO0000070		
Cod. Profile BPRGD0000007 - BPRGD0000027		
Cod. Wheels GRUGD0000032 - GRUGD0000053		
TECHNICAL FEATURES		
Car mass	0.97 Kg	
Twisting moments	Mr	MI
MX moment	258 Nm	36.8 Nm
MY moment	228 Nm	32.6 Nm
MZ moment	211 Nm	30.2 Nm
Applicable loads	Cr	CI
FY load	3500 N	500 N
FZ load	5702 N	814 N

Cod. Car GCARO0000131		
Cod. Profile BPRGD0000007 - BPRGD0000027		
Cod. Wheels GRUGD0000033 - GRUGD0000054		
TECHNICAL FEATURES		
Car mass	1.595 Kg	
Twisting moments	Mr	MI
MX moment	718 Nm	102.6 Nm
MY moment	546 Nm	78 Nm
MZ moment	602 Nm	86 Nm
Applicable loads	Cr	CI
FY load	9720 N	1388 N
FZ load	14573 N	2082 N

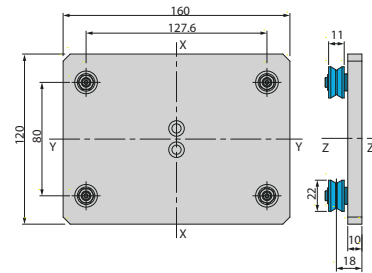
Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

## GD10C2



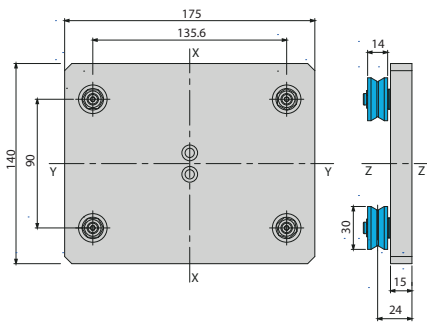
Cod. Car GCARO0000025		
Cod. Profile BPRGD0000007 - BPRGD0000027		
Cod. Wheels GRUGD0000028 - GRUGD0000049		
TECHNICAL FEATURES		
Car mass	1.32 Kg	
Twisting moments	Mr	MI
MX moment	251 Nm	35.8 Nm
MY moment	211 Nm	30.2 Nm
MZ moment	411 Nm	58.7 Nm
Applicable loads	Cr	Cl
FY load	6609 N	944 N
FZ load	5280 N	754 N

## GDX10A



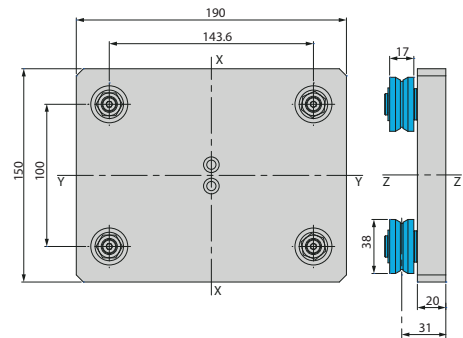
Cod. Car GCARO0000198		
Cod. Profile BPRGD0000065		
Cod. Wheels GRUGD0000030 - GRUGD0000052		
TECHNICAL FEATURES		
Car mass	0.64 Kg	
Twisting moments	Mr	MI
MX moment	161 Nm	23 Nm
MY moment	101 Nm	14.5 Nm
MZ moment	117 Nm	16.7 Nm
Applicable loads	Cr	Cl
FY load	1555 N	222 N
FZ load	2534 N	362 N

## GDX10B



Cod. Car GCARO0000197		
Cod. Profile BPRGD0000065		
Cod. Wheels GRUGD0000032 - GRUGD0000053		
TECHNICAL FEATURES		
Car mass	1.285 Kg	
Twisting moments	Mr	MI
MX moment	386 Nm	55.2 Nm
MY moment	256 Nm	36.7 Nm
MZ moment	285 Nm	40.7 Nm
Applicable loads	Cr	Cl
FY load	3499 N	500 N
FZ load	5702 N	814.6 N

## GDX10C

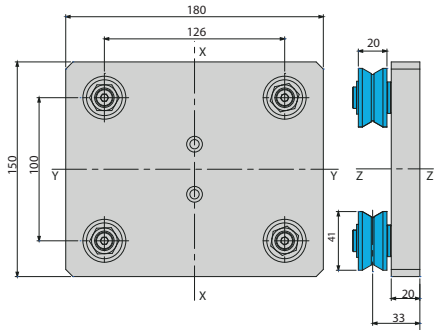


Cod. Car GCARO0000199		
Cod. Profile BPRGD0000065		
Cod. Wheels GRUGD0000033 - GRUGD0000054		
TECHNICAL FEATURES		
Car mass	2.165 Kg	
Twisting moments	Mr	MI
MX moment	1046 Nm	149.5 Nm
MY moment	728 Nm	104 Nm
MZ moment	850 Nm	121.5 Nm
Applicable loads	Cr	Cl
FY load	9720 N	1388 N
FZ load	14573 N	2082 N

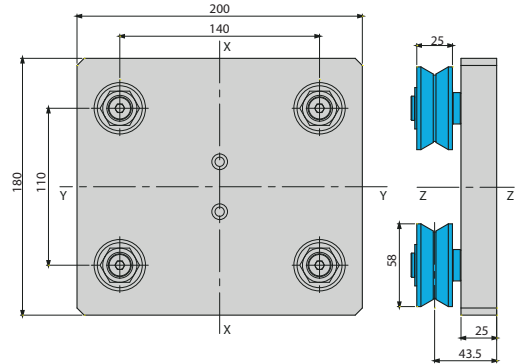


Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - CI = Recommended load (N)

## GD20A



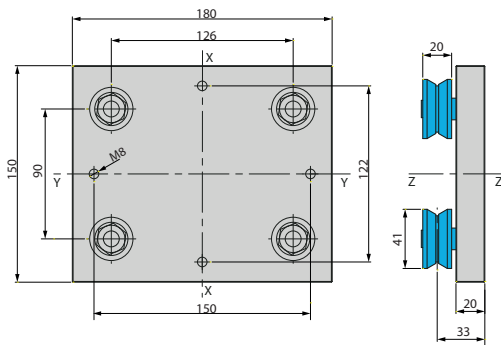
## GD20B



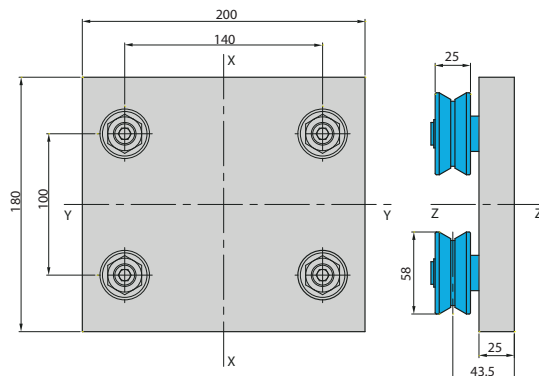
Cod. Car GCARO0000135		
Cod. Profile BPRGD0000062 - BPRGD0000028		
Cod. Wheels GRUGD0000035 - GRUGD0000056		
TECHNICAL FEATURES		
Car mass	2.245 Kg	
Twisting moments	Mr	MI
MX moment	918 Nm	131 Nm
MY moment	728 Nm	104 Nm
MZ moment	782 Nm	112 Nm
Applicable loads	Cr	CI
FY load	9720 N	1388 N
FZ load	14573 N	2082 N

Cod. Car GCARO0000160		
Cod. Profile BPRGD0000062 - BPRGD0000028		
Cod. Wheels GRUGD0000036 - GRUGD0000057		
TECHNICAL FEATURES		
Car mass	4.365 Kg	
Twisting moments	Mr	MI
MX moment	1182 Nm	169 Nm
MY moment	929 Nm	133 Nm
MZ moment	1153 Nm	165 Nm
Applicable loads	Cr	CI
FY load	12960 N	1851 N
FZ load	16896 N	2414 N

## GD20A2



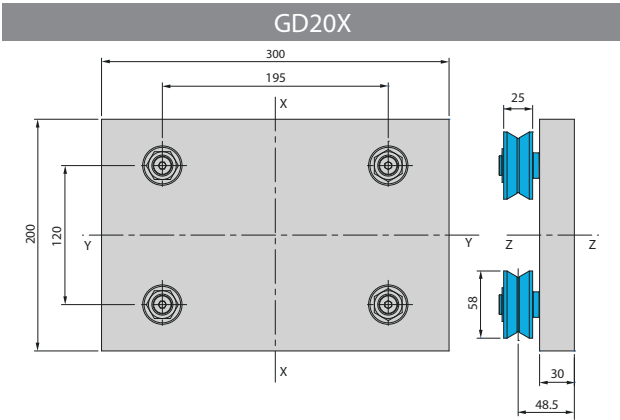
## GD20B2



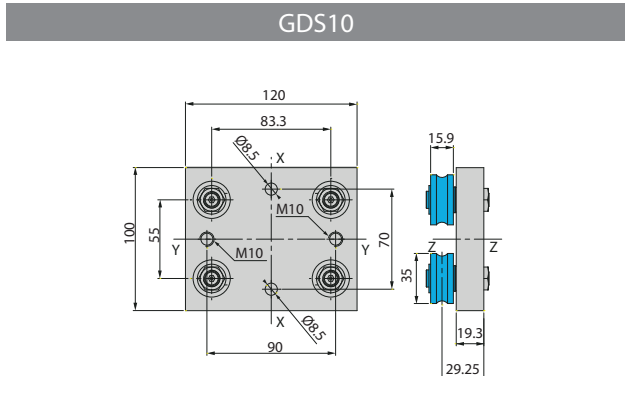
Cod. Car GCARO0000029		
Cod. Profile BPRGD0000062 - BPRGD0000028		
Cod. Wheels GRUGD0000035 - GRUGD0000056		
TECHNICAL FEATURES		
Car mass	2.244 Kg	
Twisting moments	Mr	MI
MX moment	918 Nm	131 Nm
MY moment	656 Nm	93.7 Nm
MZ moment	752 Nm	107.5 Nm
Applicable loads	Cr	CI
FY load	9720 N	1388 N
FZ load	14573 N	2082 N

Cod. Car GCARO0000027		
Cod. Profile BPRGD0000062 - BPRGD0000028		
Cod. Wheels GRUGD0000036 - GRUGD0000057		
TECHNICAL FEATURES		
Car mass	4.35 Kg	
Twisting moments	Mr	MI
MX moment	1182 Nm	169 Nm
MY moment	845 Nm	120 Nm
MZ moment	1114 Nm	159 Nm
Applicable loads	Cr	CI
FY load	12960 N	1851 N
FZ load	16896 N	2414 N

Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - CI = Recommended load (N)

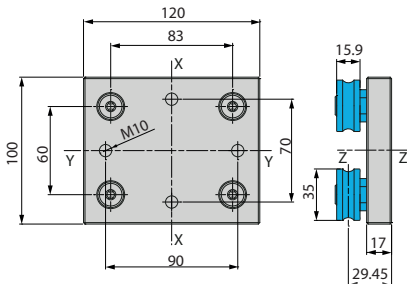


Cod. Car GCARO0000200		
Cod. Profile BPRGD0000009		
Cod. Wheels GRUGD0000036 - GRUGD0000057		
TECHNICAL FEATURES		
Car mass	6.765 Kg	
Twisting moments	Mr	MI
MX moment	1647 Nm	235 Nm
MY moment	1014 Nm	145 Nm
MZ moment	1484 Nm	212 Nm
Applicable loads	Cr	CI
FY load	12960 N	1851 N
FZ load	16896 N	2414 N



Cod. Car GCARO0000240		
Cod. Profile BPRGD0000058		
Cod. Wheels GRUGD0000045 - GRUGD0000066		
TECHNICAL FEATURES		
Car mass	1.135 Kg	
Twisting moments	Mr	MI
MX moment	440 Nm	63 Nm
MY moment	290 Nm	41.5 Nm
MZ moment	330 Nm	47.2 Nm
Applicable loads	Cr	CI
FY load	6609 N	944 N
FZ load	10560 N	1508 N

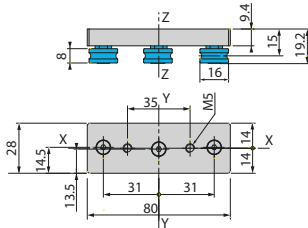
### GDS102



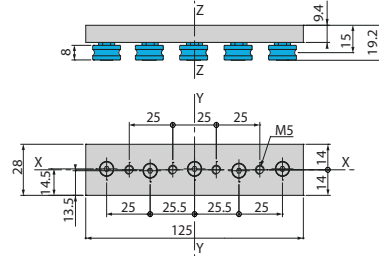
Cod. Car GCARO0000030		
Cod. Profile BPRGD0000058		
Cod. Wheels GRUGD0000028 - GRUGD0000049		
TECHNICAL FEATURES		
Car mass	1.06 Kg	
Twisting moments	Mr	MI
MX moment	219 Nm	31.3 Nm
MY moment	158 Nm	22.6 Nm
MZ moment	338 Nm	48.3 Nm
Applicable loads	Cr	CI
FY load	6609 N	944 N
FZ load	5280 N	754 N

Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - CI = Recommended load (N)

### IL28/3



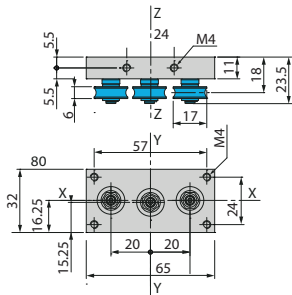
### IL28/5



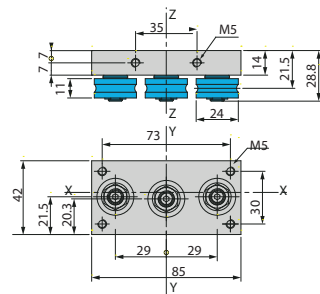
Cod. Car GCARO0000034		
Cod. Profile BPRGD0000012		
Cod. Wheels GRUGD0000026 - GRUGD0000047		
TECHNICAL FEATURES		
Car mass	0.058 Kg	
Twisting moments	Mr	MI
MX moment	9.7 Nm	1.4 Nm
MY moment	20 Nm	2.9 Nm
MZ moment	18 Nm	2.6 Nm
Applicable loads	Cr	CI
FY load	1153 N	165 N
FZ load	864 N	123 N

Cod. Car GCARO0000033		
Cod. Profile BPRGD0000012		
Cod. Wheels GRUGD0000026 - GRUGD0000047		
TECHNICAL FEATURES		
Car mass	0.155 Kg	
Twisting moments	Mr	MI
MX moment	15.8 Nm	2.3 Nm
MY moment	33 Nm	4.7 Nm
MZ moment	44 Nm	6.3 Nm
Applicable loads	Cr	CI
FY load	1538 N	220 N
FZ load	1220 N	174 N

### IL 32/3



### IL 42/3

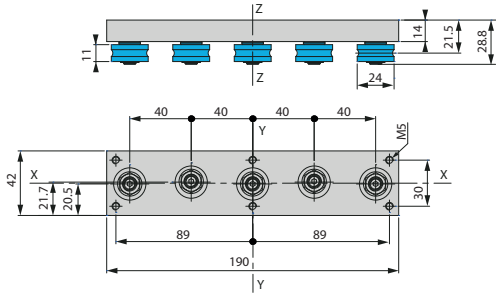


Cod. Car GCARO0000090		
Cod. Profile BPRGD0000013		
Cod. Wheels GRUGD0000083 - GRUGD0000084		
TECHNICAL FEATURES		
Car mass	0.1 Kg	
Twisting moments	Mr	MI
MX moment	18 Nm	2.6 Nm
MY moment	23 Nm	3.3 Nm
MZ moment	11.5 Nm	1.6 Nm
Applicable loads	Cr	CI
FY load	1153 N	165 N
FZ load	1538 N	220 N

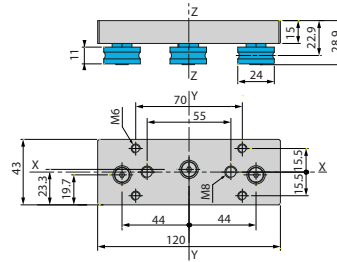
Cod. Car GCARO0000093		
Cod. Profile BPRGD0000014		
Cod. Wheels GRUGD0000086 - GRUGD0000085		
TECHNICAL FEATURES		
Car mass	0.26 Kg	
Twisting moments	Mr	MI
MX moment	68 Nm	9.7 Nm
MY moment	85 Nm	12.2 Nm
MZ moment	43 Nm	6.1 Nm
Applicable loads	Cr	CI
FY load	2955 N	422 N
FZ load	3940 N	563 N

Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - Cl = Recommended load (N)

### IL 42/5



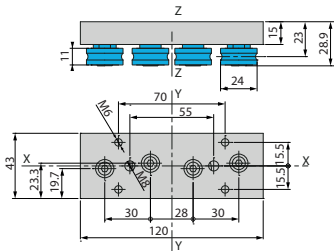
### IL 43/3



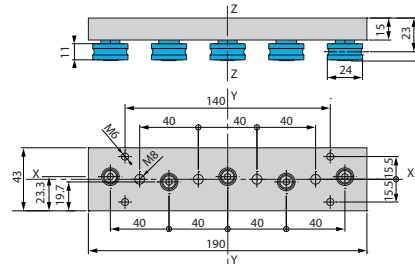
Cod. Car GCARO0000066		
Cod. Profile BPRGD0000014		
Cod. Wheels GRUGD0000086 - GRUGD0000085		
TECHNICAL FEATURES		
Car mass	0.51 Kg	
Twisting moments	Mr	MI
MX moment	111 Nm	15.8 Nm
MY moment	236 Nm	34 Nm
MZ moment	177 Nm	25.3 Nm
Applicable loads	Cr	Cl
FY load	3940 N	563 N
FZ load	5563 N	795 N

Cod. Car GCARO0000036		
Cod. Profile BPRGD0000015		
Cod. Wheels GRUGD0000042 - GRUGD0000063		
TECHNICAL FEATURES		
Car mass	0.3 Kg	
Twisting moments	Mr	MI
MX moment	48 Nm	6.9 Nm
MY moment	85 Nm	12.2 Nm
MZ moment	65 Nm	9.3 Nm
Applicable loads	Cr	Cl
FY load	2955 N	422 N
FZ load	2592 N	370 N

### IL 43/4



### IL 43/5



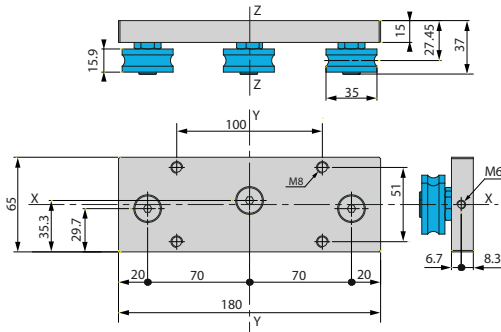
Cod. Car GCARO0000041		
Cod. Profile BPRGD0000015		
Cod. Wheels GRUGD0000042 - GRUGD0000063		
TECHNICAL FEATURES		
Car mass	0.33 Kg	
Twisting moments	Mr	MI
MX moment	79 Nm	11.3 Nm
MY moment	85 Nm	12.2 Nm
MZ moment	130 Nm	18.6 Nm
Applicable loads	Cr	Cl
FY load	2955 N	422 N
FZ load	3168 N	452 N

Cod. Car GCARO0000042		
Cod. Profile BPRGD0000015		
Cod. Wheels GRUGD0000042 - GRUGD0000063		
TECHNICAL FEATURES		
Car mass	0.48 Kg	
Twisting moments	Mr	MI
MX moment	79 Nm	11.3 Nm
MY moment	155 Nm	22.2 Nm
MZ moment	177 Nm	25.3 Nm
Applicable loads	Cr	Cl
FY load	3940 N	563 N
FZ load	3660 N	523 N



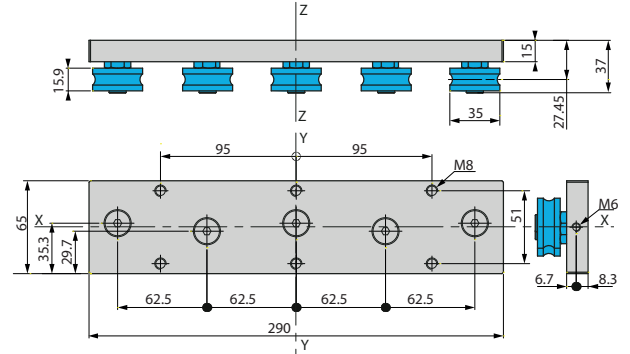
Mr = Theoretical breaking point (N) - MI = Recommended point (N), Cr = Theoretical breaking load (N) - CI = Recommended load (N)

MR65/3



Cod. Car GCARO0000049		
Cod. Profile APRGD0000002		
Cod. Wheels GRUGD0000028 - GRUGD0000049		
TECHNICAL FEATURES		
Car mass	0.83 Kg	
Twisting moments	Mr	MI
MX moment	118 Nm	17 Nm
MY moment	227 Nm	32.4 Nm
MZ moment	231 Nm	33 Nm
Applicable loads	Cr	CI
FY load	6609 N	944 N
FZ load	4320 N	617 N

MR65/5



Cod. Car GCARO0000059		
Cod. Profile APRGD0000002		
Cod. Wheels GRUGD0000028 - GRUGD0000049		
TECHNICAL FEATURES		
Car mass	1.41 Kg	
Twisting moments	Mr	MI
MX moment	193 Nm	27.5 Nm
MY moment	405 Nm	58 Nm
MZ moment	620 Nm	88.5 Nm
Applicable loads	Cr	CI
FY load	8813 N	1259 N
FZ load	6100 N	871 N

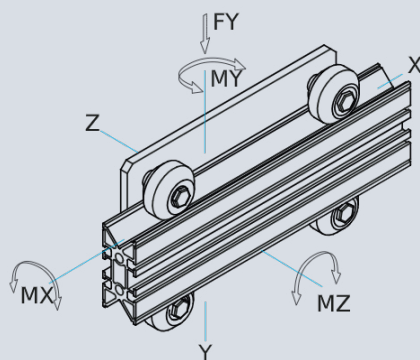




## LINEAR MODULES MONORAIL and MONORAIL PLUS

The Monorails are self-supporting monorail guides sliding through delrin wheels: which allow high sliding speeds and good positioning accuracy.

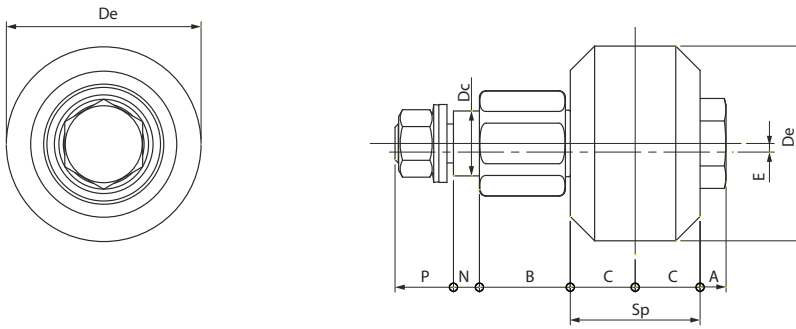
They are among the simplest and cheapest motorized sliding systems and/or easily operated, applicable even in harsh environments.



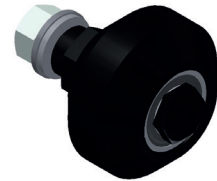
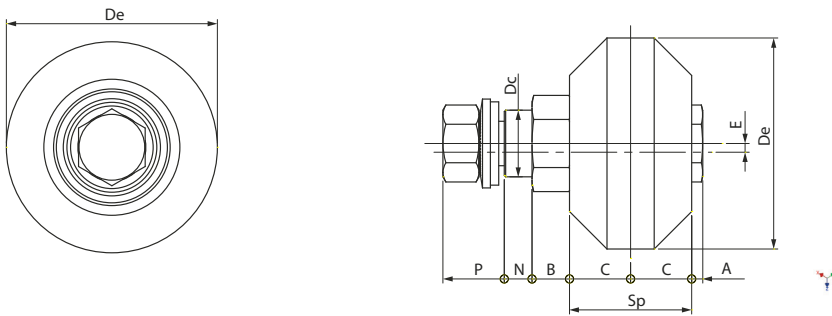
N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.

## Monorail wheels

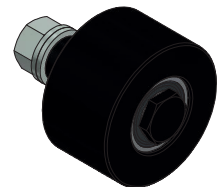
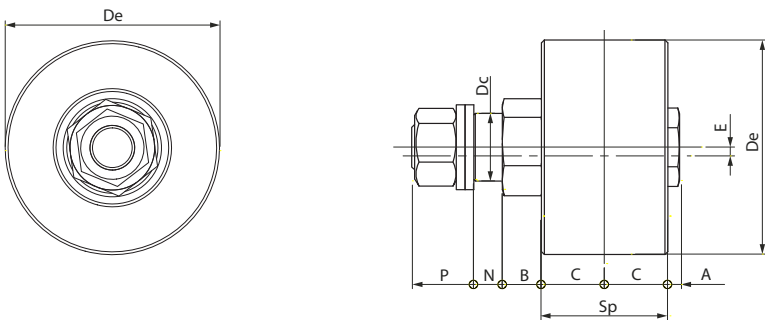
Fr = Radial load (N) - Fa = Axial load (N)



Code	Dimensions (mm)										Fr (N)	Fa (N)
	Dc	De	Sp	A	B	C	N	P	E	M		
CONCENTRIC:												
GRUGD0000074	20	60	40	8	28	20	8	18	-	12	550	137.5
GRUGD0000075	20	60	40	8	28	20	8	23	-	12	550	137.5
ECCENTRIC:												
GRUGD0000077	20	60	40	8	28	20	8	18	2	12	550	137.5
GRUGD0000078	20	60	40	8	28	20	8	23	2	12	550	137.5

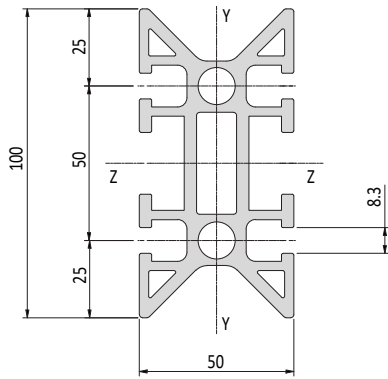


Code	Dimensions (mm)										Fr (N)	Fa (N)
	Dc	De	Sp	A	B	C	N	P	E	M		
CONCENTRIC:												
GRUGD0000080	24	76	44	4	13.5	22	10	21.5	-	16	1000	250
ECCENTRIC:												
GRUGD0000081	24	76	44	4	13.5	22	10	21.5	1.75	16	1000	250



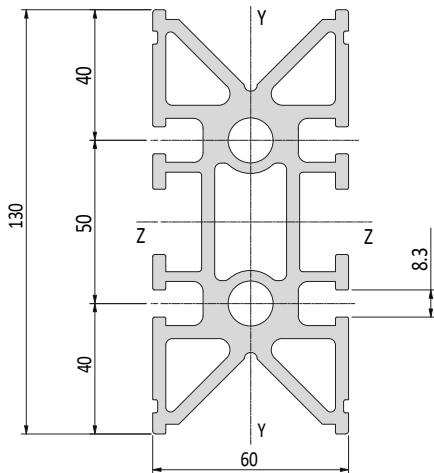
Code	Dimensions (mm)										Fr (N)	Fa (N)
	Dc	De	Sp	A	B	C	N	P	E	M		
CONCENTRIC:												
GRUGD0000090	24	76	44	4	13.5	22	10	21.5	-	16	1000	250
ECCENTRIC:												
GRUGD0000091	24	76	44	4	13.5	22	10	21.5	1.75	16	1000	250

Profilo con guida a V 90° BPRGD0000023



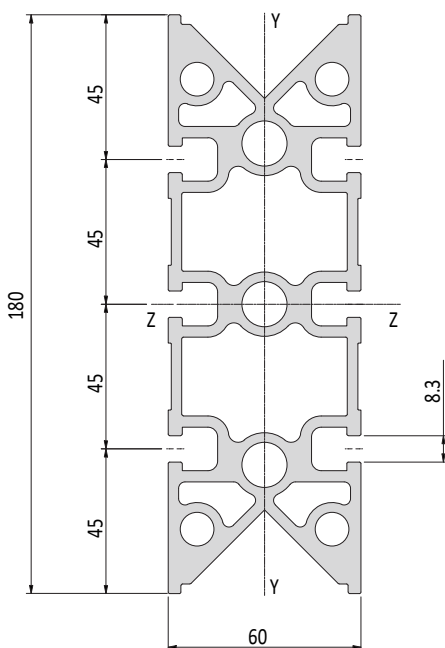
Technical features	
Profile area	1783 mm <sup>2</sup>
Sizes	Y 50 mm
	Z 100 mm
Moments of inertia	Jy 143 cm <sup>4</sup>
	Jz 34.8 cm <sup>4</sup>
Profile modulus of resilience	Wy 28.6 cm <sup>3</sup>
	Wz 13.9 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	4.64 Kg/m
Material	
ALLOY EN AW 6060	

Profile with 90° V guide BPRGD0000025



Technical features	
Profile area	2979 mm <sup>2</sup>
Sizes	Y 60 mm
	Z 130 mm
Moments of inertia	Jy 358 cm <sup>4</sup>
	Jz 84 cm <sup>4</sup>
Profile modulus of resilience	Wy 55 cm <sup>3</sup>
	Wz 28 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	7.49 Kg/m
Material	
ALLOY EN AW 6060	

Profile with 90° V guide BPRGD0000026

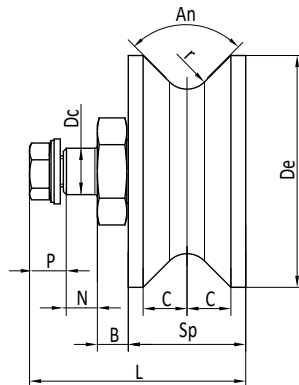
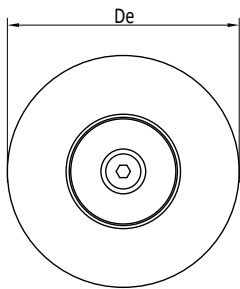


Technical features	
Profile area	3726 mm <sup>2</sup>
Sizes	Y 60 mm
	Z 180 mm
Moments of inertia	Jy 1005.1 cm <sup>4</sup>
	Jz 125.7 cm <sup>4</sup>
Profile modulus of resilience	Wy 111.7 cm <sup>3</sup>
	Wz 42 cm <sup>3</sup>
Max. profile length	6000 / 7000 mm
Mass	10.09 Kg/m
Material	
ALLOY EN AW 6060	



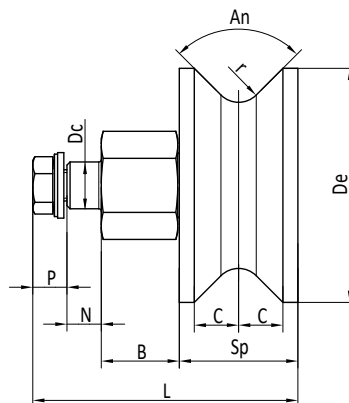
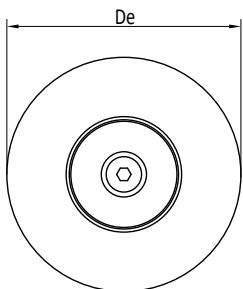
## Monorail plus 120 wheel

Fr = Radial load (N) - Fa = Axial load (N)



Code	Dimensions (mm)										Fr (N)	Fa (N)
	Dc	De	Sp	An	B	C	N	r	P	L		
CONCENTRIC												
GRUGD0000153	15	75	38	90°	10	14.2	11	8	11	70	1200	324

## Monorail plus 180 wheel

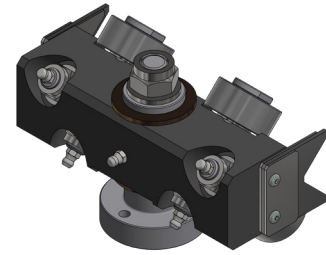
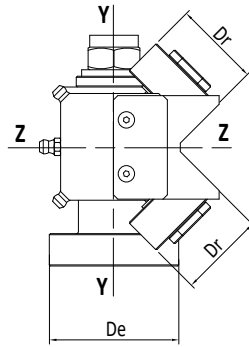
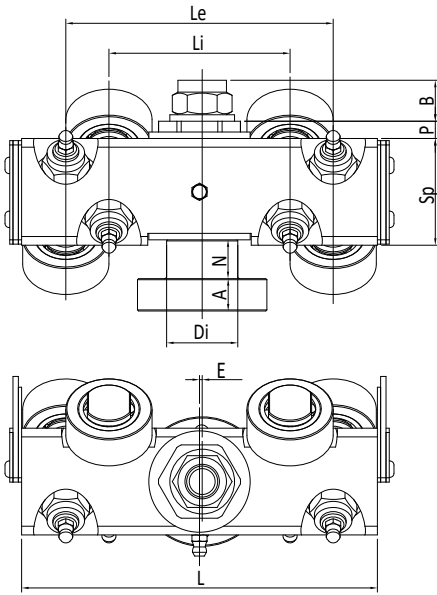


Code	Dimensions (mm)										Fr (N)	Fa (N)
	Dc	De	Sp	A	B	C	N	r	P	L		
CONCENTRIC:												
GRUGD0000155	15	75	38	90°	25	14.2	11	8	11	85	1200	324

N.B. The Monorail plus guides can be configured with a customized car plate based on the customer's design and using the wheels and profiles for Monorail plus shown in this section. In the "LINEAR BELT DRIVE MODULES" section of this catalogue you can find the Monorail plus axes assembled with standard components and available in stock.



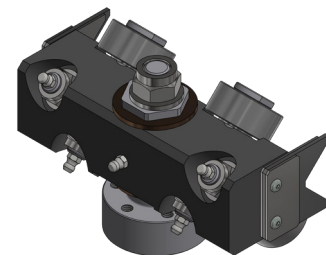
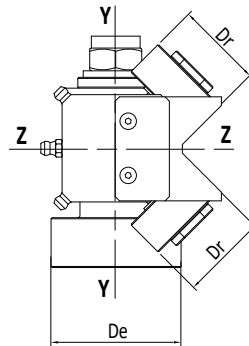
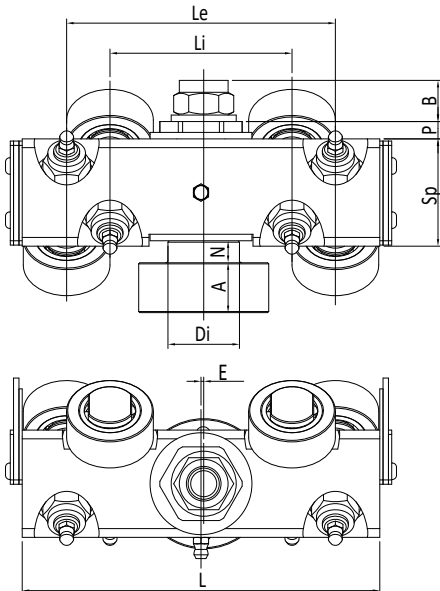
## Wheels on Monorail plus 120 oscillating car



Code	Dimensions (mm)												Fy (N) <sup>°</sup>	Fz (N)
	A	B	De	Di	Dr	E	L	Le	Li	N	P	Sp		
CONCENTRIC:														
GAGXX0000008	15	19	60	33	40	-	165	124	84	10	8	49.5	3535	1432
ECCENTRIC:														
GAGXX0000007	15	19	60	33	40	1.25	165	124	84	10	8	49.5	3535	1432

<sup>°</sup> The Fy values are intended for the load applied to the concentric wheels

## Wheels on Monorail plus 180 oscillating car

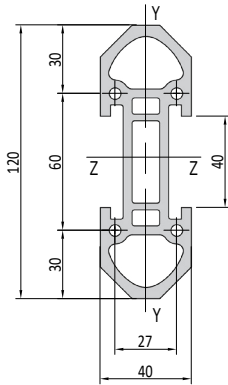


Code	Dimensions (mm)												Fy (N) <sup>°</sup>	Fz (N)
	A	B	De	Di	Dr	E	L	Le	Li	N	P	Sp		
CONCENTRIC:														
GAGXX0000001	15	19	60	33	40	-	165	124	84	10	8	49.5	3535	1179
ECCENTRIC:														
GAGXX0000003	23	19	60	33	40	1.25	165	124	84	10	8	49.5	3535	1179

<sup>°</sup> The Fy values are intended for the load applied to the concentric wheels

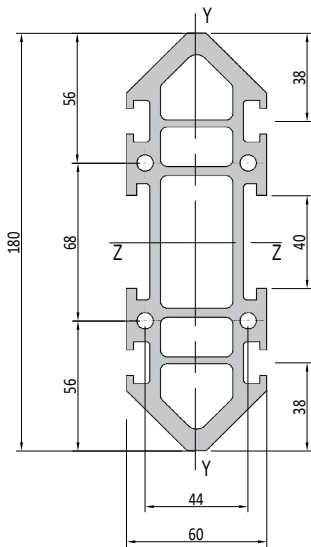


**Monorail plus 120 profile**      BPRGD0000136



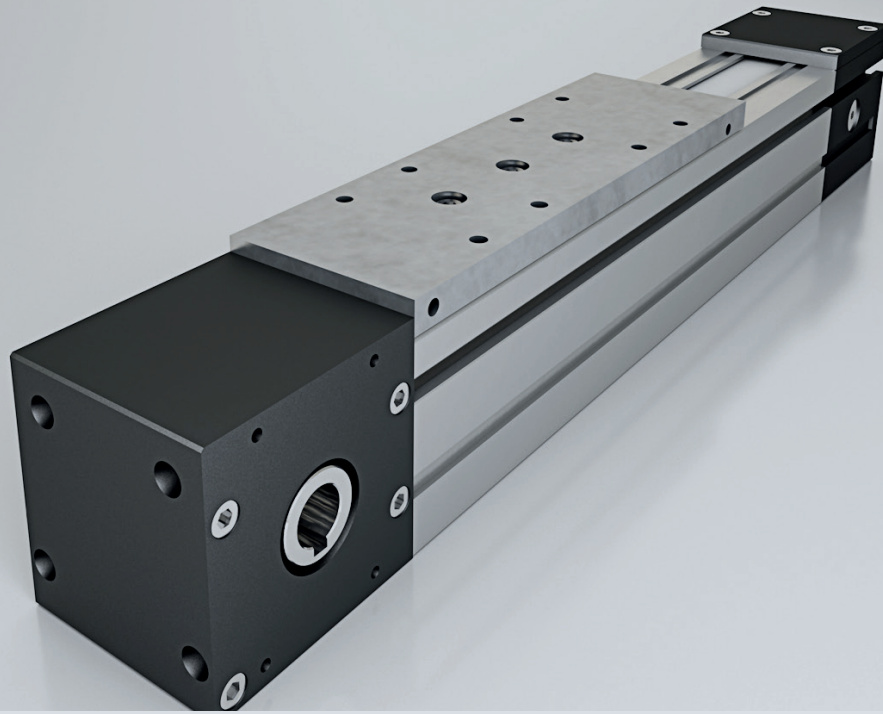
Technical features	
Profile area	1751 mm <sup>2</sup>
Sizes	Y 40 mm
	Z 120 mm
Moments of inertia	Jy 25.4 cm <sup>4</sup>
	Jz 220.6 cm <sup>4</sup>
Profile resilience modulus	Wy 12.7 cm <sup>3</sup>
	Wz 36.7 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	4.72 Kg/m
Material	
ALLOY EN AW 6060	

**Monorail plus 180 profile**      BPRGD0000137



Technical features	
Profile area	3604 mm <sup>2</sup>
Sizes	Y 60 mm
	Z 180 mm
Moments of inertia	Jy 124.2 cm <sup>4</sup>
	Jz 1020.7 cm <sup>4</sup>
Profile resilience modulus	Wy 41.4 cm <sup>3</sup>
	Wz 113.4 cm <sup>3</sup>
Max. profile length	6000 mm
Mass	9.67 Kg/m
Material	
ALLOY EN AW 6060	

N.B. The Monorail plus guides can be configured with a customized car plate based on the customer's design and using the wheels and profiles for Monorail plus shown in this section. In the "LINEAR BELT DRIVE MODULES" section of this catalogue you can find the Monorail plus axes assembled with standard components and available in stock.



## LINEAR MODULES BELT DRIVEN

### Sliding on wheels/AR-EL-ELZ-GDR-GDR MLT SERIES

The AR series on wheels with internal sliding, EL with external sliding and GDR with external and extruded sliding on profile 45 are characterized by economy, silence and absence of maintenance. They are particularly suitable for medium/light loads and high speeds and accelerations.

The ELZ series is supplied to complete the wheel range. It keeps the motorization fixed directly on the car and is therefore devoid of heads. This feature makes it suitable for vertical movements or pushers.

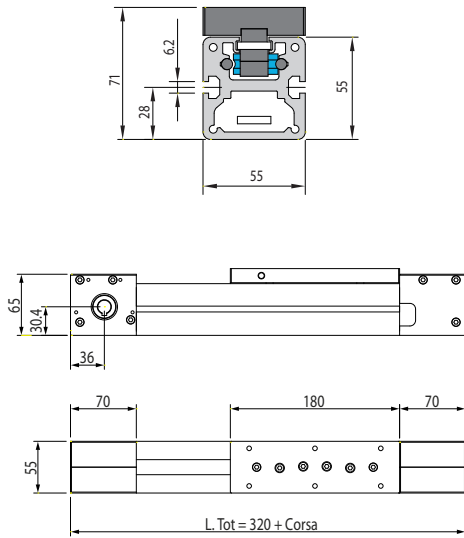
#### OPTIONS

- preparation for motor/reduction unit connection: direct or with bell and coupling
- additional holes
- fixing accessories
- connection system for lengths over 6000 mm
- possibility of anti-corrosion treatments

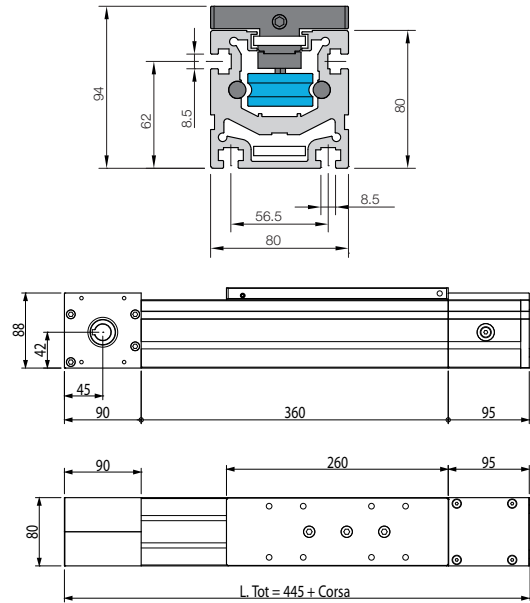
All linear modules are supplied assembled, without motors.

N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.

## AR55



## AR80

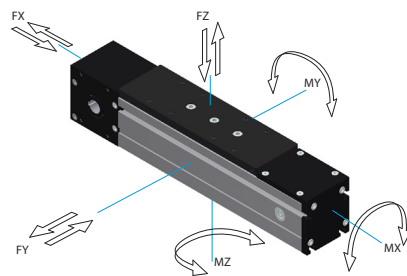
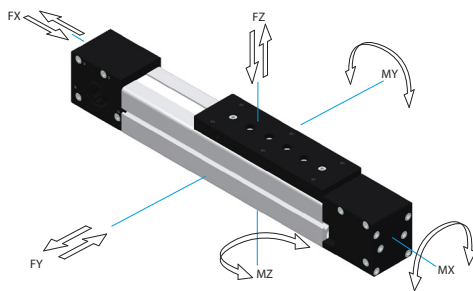


### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 12 - 14 mm
Pitch diameter	Ø 41.38 mm
Pulley	Z26 RPP5
Belt	RPP5 18
Travel mass 0 mm	2.893 Kg
Travel mass every 100 mm	0.41 Kg

### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 16 - 19 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 66.21 mm
Pulley	Z26 RPP8
Belt	RPP8 30
Travel mass 0 mm	7.782 Kg
Travel mass every 100 mm	0.88 Kg



### Maximum loads

FX = 600 N *	MX = 4.5 Nm
FY = 2590 N	MY = 36 Nm
FZ = 2376 N	MZ = 64 Nm

MINIMUM EMPTY TORQUE 1.1 Nm

### Recommended loads

FX = 300 N	MX = 1.5 Nm
FY = 518 N	MY = 7.2 Nm
FZ = 475 N	MZ = 12.8 Nm

\* The belt breaking load is 6050 N.

### Maximum loads

FX = 4510 N **	MX = 27 Nm
FY = 4500 N	MY = 75 Nm
FZ = 2770 N	MZ = 200 Nm

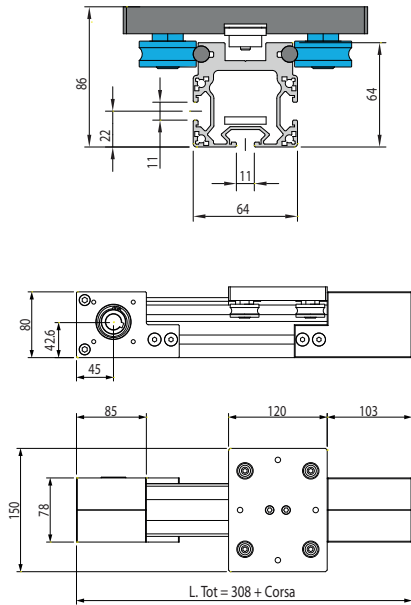
MINIMUM EMPTY TORQUE 1.5 Nm

### Recommended loads

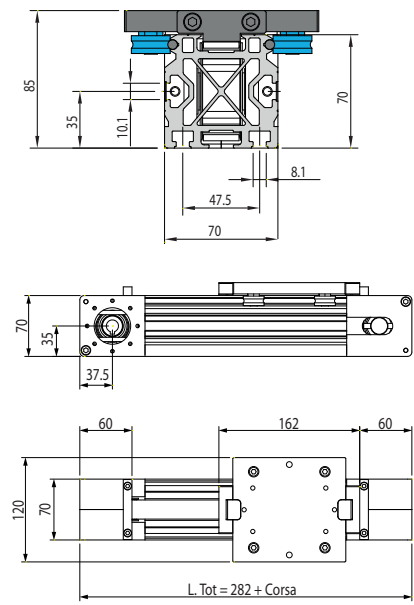
FX = 2250 N	MX = 5.4 Nm
FY = 900 N	MY = 15 Nm
FZ = 554 N	MZ = 40 Nm

\*\* The belt breaking load is 18050 N.

## ELC



## EL70

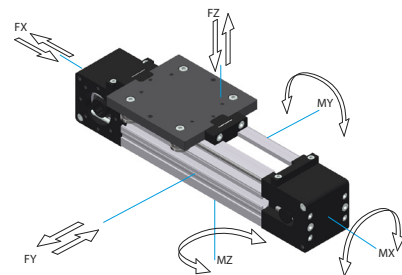
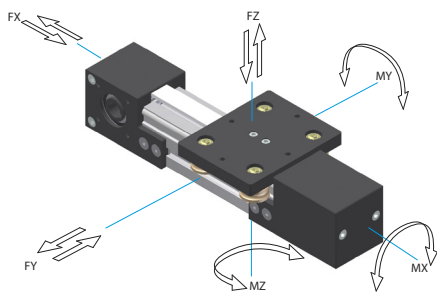


### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 19 mm
Pitch diameter	Ø 56.59 mm
Pulley	Z14 H100
Belt	H100
Travel mass 0 mm	5.013 Kg
Travel mass every 100 mm	0.49 Kg

### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 mm
Complete male shaft	Ø 14 mm
Pitch diameter	Ø 57.3 mm
Pulley	Z36 RPP5
Belt	RPP5 22
Travel mass 0 mm	3.649 Kg
Travel mass every 100 mm	0.54 Kg



### Maximum loads

FX = 2290 N *	MX = 252 Nm
FY = 6609 N	MY = 211 Nm
FZ = 5280 N	MZ = 411 Nm

### Maximum loads

FX = 1510 N**	MX = 138 Nm
FY = 6609 N	MY = 127 Nm
FZ = 3168 N	MZ = 396 Nm

MINIMUM EMPTY TORQUE 1.2 Nm

MINIMUM EMPTY TORQUE 1.2 Nm

### Recommended loads

FX = 1145 N	MX = 36 Nm
FY = 944 N	MY = 30.2 Nm
FZ = 754 N	MZ = 58.8 Nm

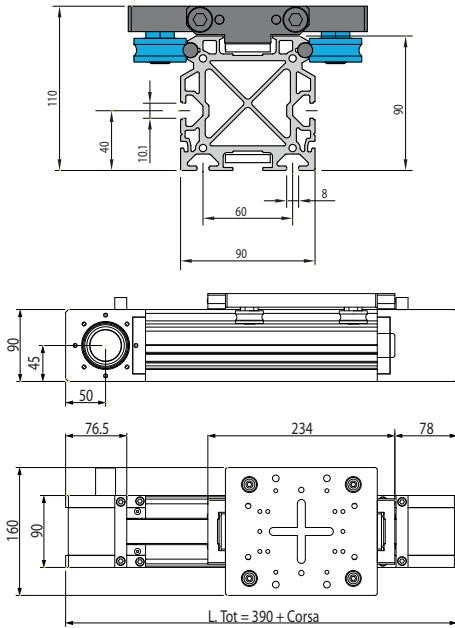
### Recommended loads

FX = 755 N	MX = 19.8 Nm
FY = 944 N	MY = 18.1 Nm
FZ = 452 N	MZ = 56.7 Nm

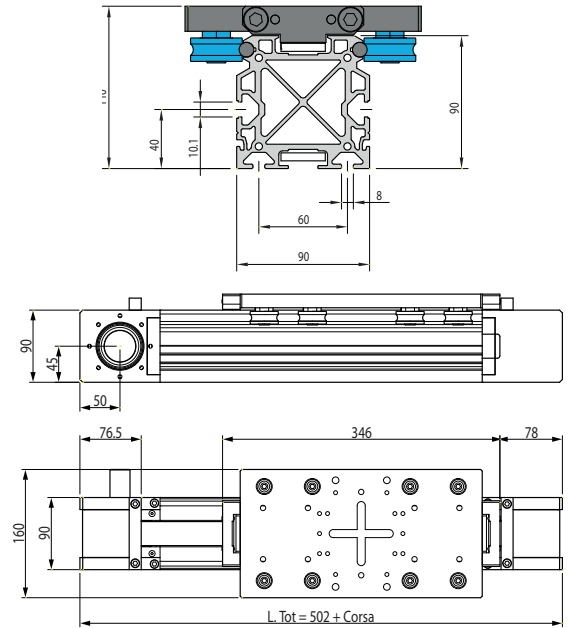
\* The belt breaking load is 9175 N.

\*\* The belt breaking load is 6045 N.

EL90



EL90L

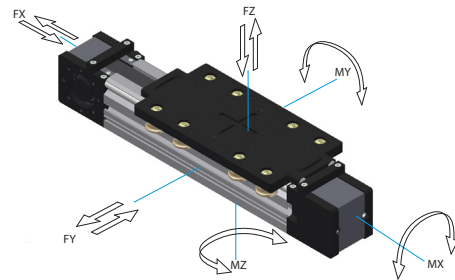
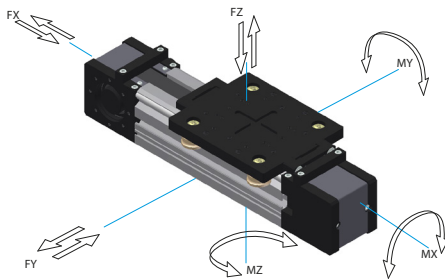


Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 20 - 22 - 25 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39 mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	8.066 Kg
Travel mass every 100 mm	0.86 Kg

Technical features

No. of wheels	8
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 20 - 22 - 25 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39 mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	9.909 Kg
Travel mass every 100 mm	0.86 Kg



Maximum loads      Maximum moments

FX = 4510 N *	MX = 310 Nm
FY = 6609 N	MY = 343 Nm
FZ = 5280 N	MZ = 582 Nm

MINIMUM EMPTY TORQUE      1.5 Nm

Recommended loads      Recommended moments

FX = 2550 N	MX = 44.3 Nm
FY = 944 N	MY = 49 Nm
FZ = 754 N	MZ = 83.2 Nm

\* The belt breaking load is 18050 N.

Maximum loads      Maximum moments

FX = 4510 N**	MX = 423 Nm
FY = 10771 N	MY = 639 Nm
FZ = 7200 N	MZ = 889 Nm

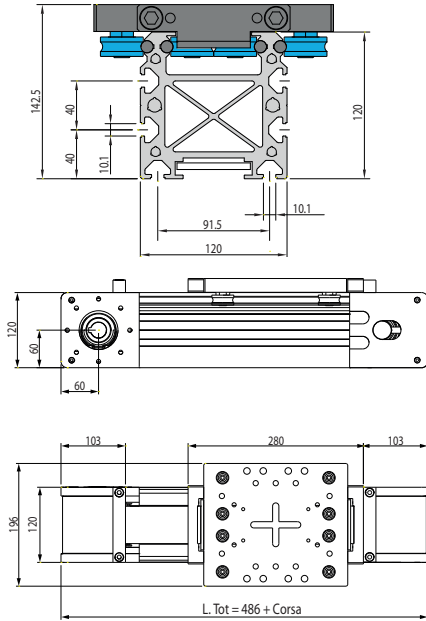
MINIMUM EMPTY TORQUE      1.5 Nm

Recommended loads      Recommended moments

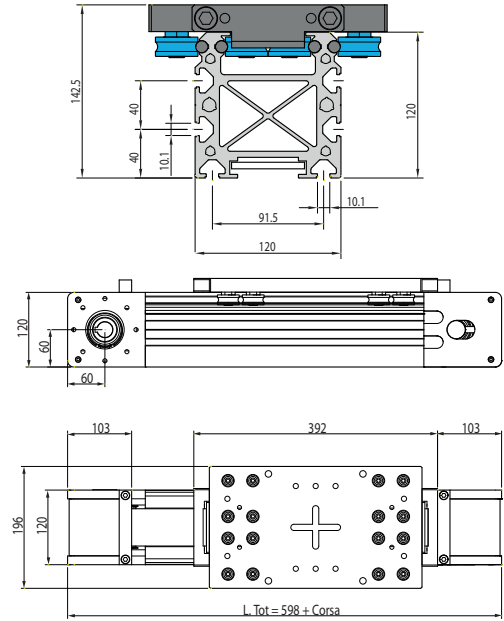
FX = 2550 N	MX = 60.4 Nm
FY = 1538 N	MY = 91.3 Nm
FZ = 1028 N	MZ = 127 Nm

\*\* The belt breaking load is 18050 N.

## EL120



## EL120L



### Technical features

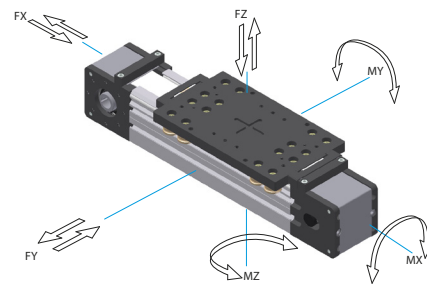
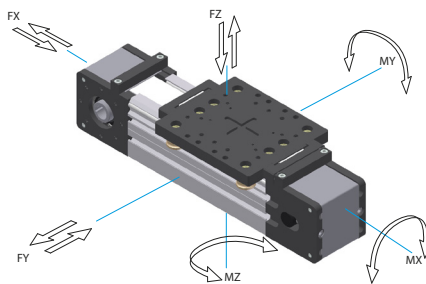
No. of wheels	8
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 35 mm
Pitch diameter	Ø 101.86 mm
Pulley	Z40 RPP8
Belt	RPP8 60

Travel mass 0 mm	19.169 Kg
Travel mass every 100 mm	1.79 Kg

### Technical features

No. of wheels	16
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 35 mm
Pitch diameter	Ø 101.86 mm
Pulley	Z40 RPP8
Belt	RPP8 60

Travel mass 0 mm	22.265 Kg
Travel mass every 100 mm	1.83 Kg



### Maximum loads

FX = 9020 N *	MX = 397 Nm
FY = 10771 N	MY = 612 Nm
FZ = 7200 N	MZ = 750 Nm

MINIMUM EMPTY TORQUE	1.7 Nm
----------------------	--------

### Recommended loads

FX = 4510 N	MX = 56.7 Nm
FY = 1538 N	MY = 87.4 Nm
FZ = 1028 N	MZ = 107 Nm

### Maximum loads

FX = 9020 N**	MX = 541 Nm
FY = 14688 N	MY = 1015 Nm
FZ = 14400 N	MZ = 1056 Nm

MINIMUM EMPTY TORQUE	1.7 Nm
----------------------	--------

### Recommended loads

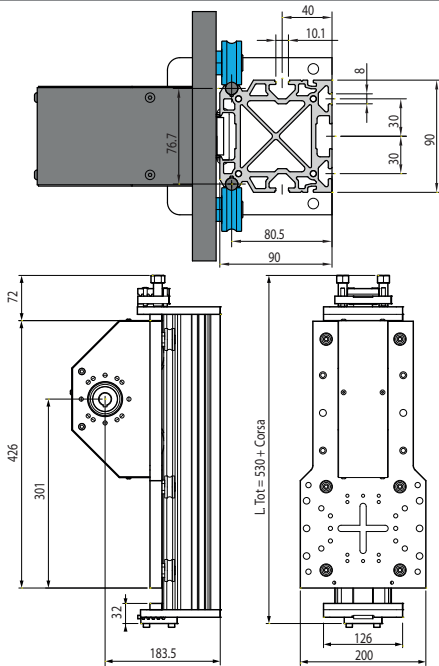
FX = 4510 N	MX = 77.2 Nm
FY = 2098 N	MY = 145 Nm
FZ = 2057 N	MZ = 150.8 Nm

\* The belt breaking load is 36100 N.

\*\* The belt breaking load is 36100 N.

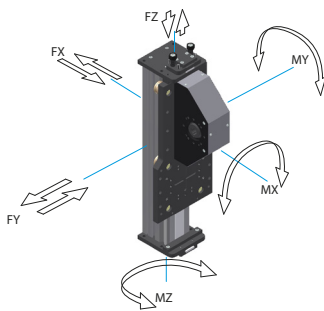


## ELZ90



### Technical features

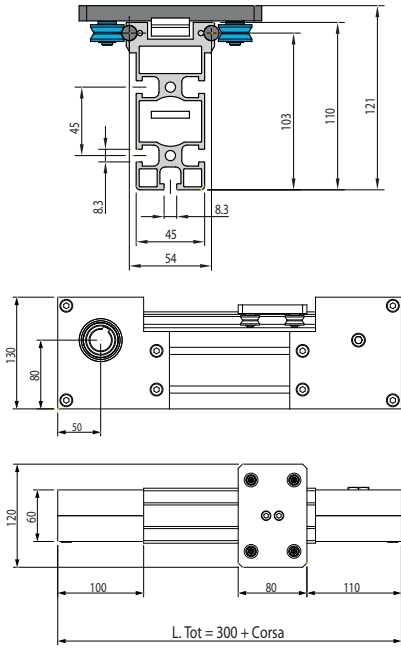
No. of wheels	6
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 19 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39 mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	14.567 Kg
Travel mass every 100 mm	0.86 Kg



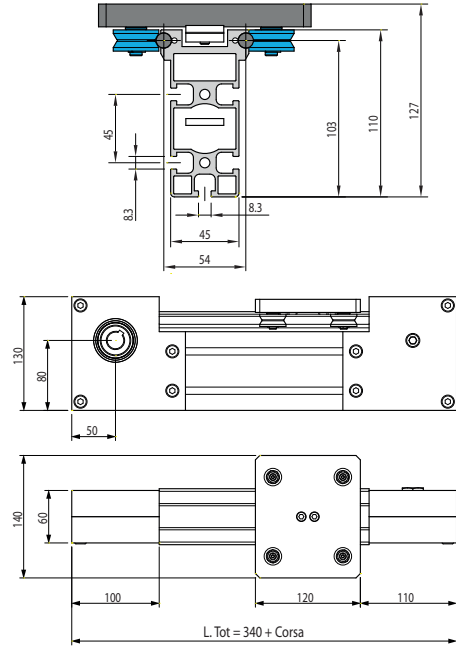
Maximum loads	Maximum moments
FX = 1890 N *	MX = 1060 Nm
FY = 5540 N	MY = 216 Nm
FZ = 4510 N	MZ = 117 Nm
MINIMUM EMPTY TORQUE	1.5 Nm
Recommended loads	Recommended moments
FX = 378 N	MX = 212 Nm
FY = 1108 N	MY = 43 Nm
FZ = 2550 N	MZ = 23 Nm

\* The belt breaking load is 18050 N.

GDR10A



GDR10B

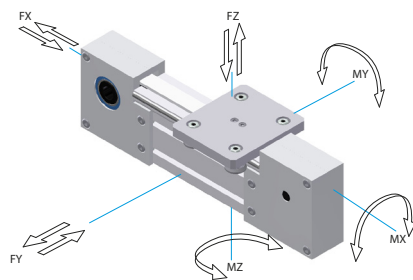
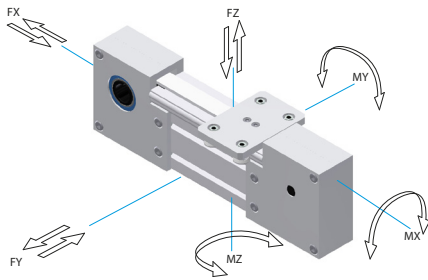


Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	5.681 Kg
Travel mass every 100 mm	0.57 Kg

Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	6.601 Kg
Travel mass every 100 mm	0.57 Kg



Maximum loads

Maximum moments

FX = 3610 N *	MX = 105 Nm
FY = 1552 N	MY = 63 Nm
FZ = 2534 N	MZ = 75 Nm

MINIMUM EMPTY TORQUE

- Nm

Recommended loads

Recommended moments

FX = 1805 N	MX = 15 Nm
FY = 222 N	MY = 9 Nm
FZ = 362 N	MZ = 10.8 Nm

\* The belt breaking load is 14440 N.

Maximum loads

Maximum moments

FX = 3610 N**	MX = 258 Nm
FY = 3500 N	MY = 228 Nm
FZ = 5702 N	MZ = 211 Nm

MINIMUM EMPTY TORQUE

- Nm

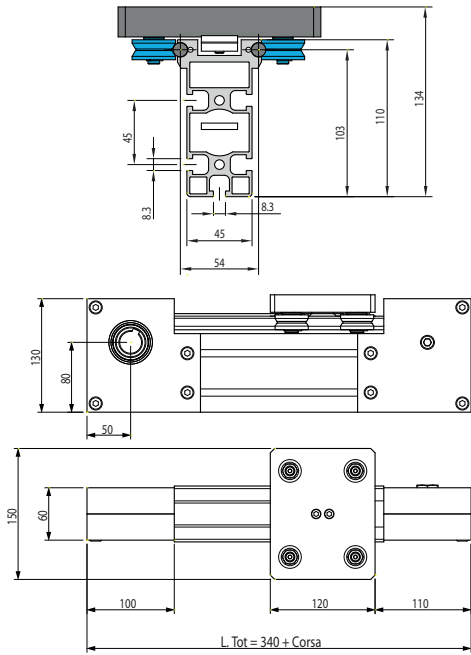
Recommended loads

Recommended moments

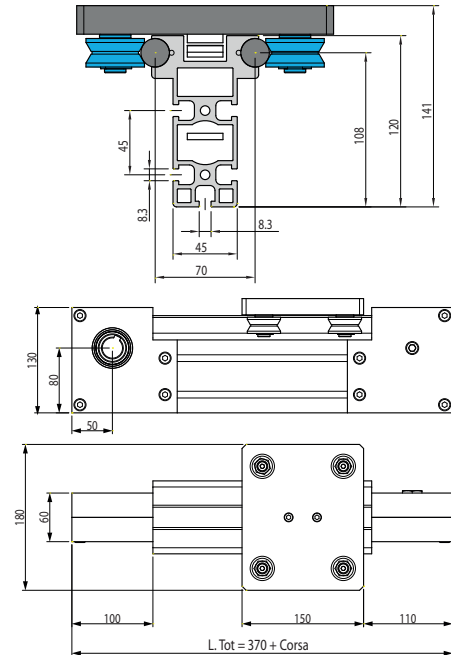
FX = 1805 N	MX = 36.8 Nm
FY = 500 N	MY = 32.6 Nm
FZ = 814 N	MZ = 30.2 Nm

\*\* The belt breaking load is 14440 N.

**GDR10C**



**GDR20A**

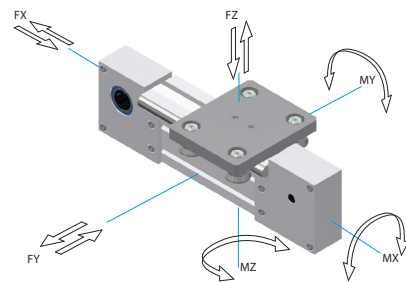
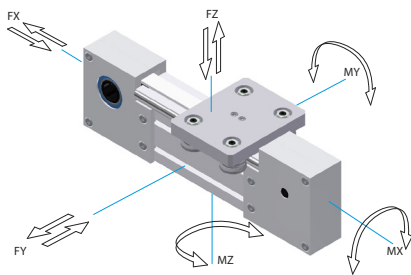


**Technical features**

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	7.179 Kg
Travel mass every 100 mm	0.57 Kg

**Technical features**

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	9.079 Kg
Travel mass every 100 mm	1.15 Kg



**Maximum loads**

FX = 3610 N *	MX = 718 Nm
FY = 9720 N	MY = 546 Nm
FZ = 14573 N	MZ = 602 Nm

MINIMUM EMPTY TORQUE - Nm

**Recommended loads**

FX = 1805 N	MX = 102.6 Nm
FY = 1388 N	MY = 78 Nm
FZ = 2082 N	MZ = 86 Nm

\* The belt breaking load is 14440 N.

**Maximum loads**

FX = 3610 N**	MX = 918 Nm
FY = 9720 N	MY = 728 Nm
FZ = 14573 N	MZ = 782 Nm

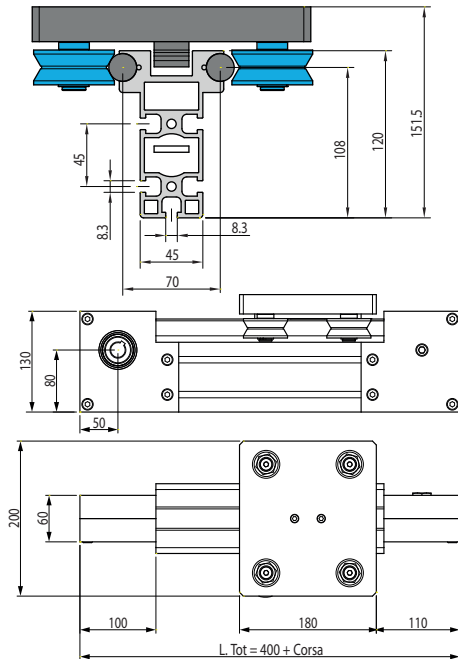
MINIMUM EMPTY TORQUE - Nm

**Recommended loads**

FX = 1805 N	MX = 131 Nm
FY = 1388 N	MY = 104 Nm
FZ = 2082 N	MZ = 112 Nm

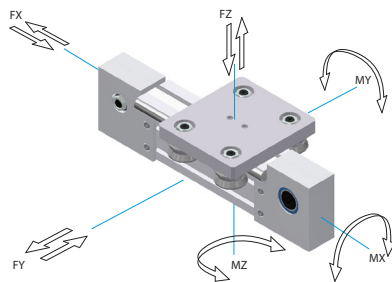
\*\* The belt breaking load is 14440 N.

## GDR20B



## Technical features

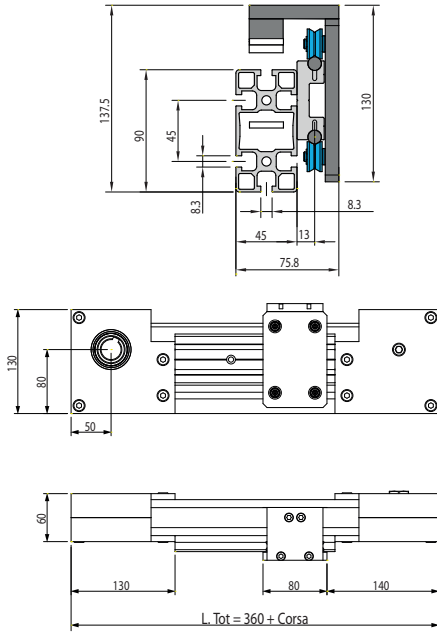
No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	11.643 Kg
Travel mass every 100 mm	1.15 Kg



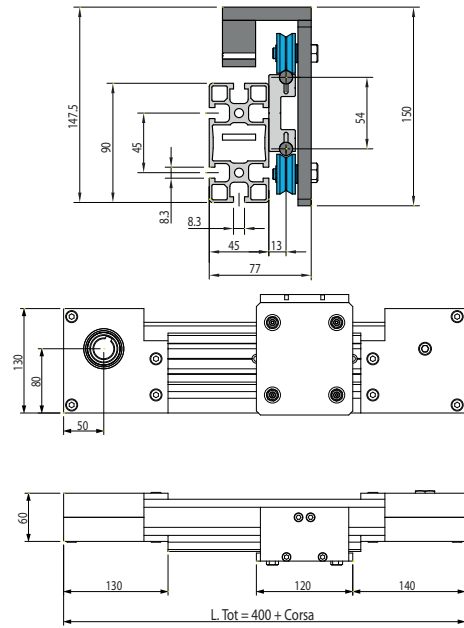
Maximum loads	Maximum moments
FX = 3610 N *	MX = 1182 Nm
FY = 12960 N	MY = 929 Nm
FZ = 16896 N	MZ = 1153 Nm
MINIMUM EMPTY TORQUE	- Nm
Recommended loads	Recommended moments
FX = 1805 N	MX = 169 Nm
FY = 1851 N	MY = 133 Nm
FZ = 2414 N	MZ = 165 Nm

\* The belt breaking load is 14440 N.

## GDR10AMLT



## GDR10BMLT

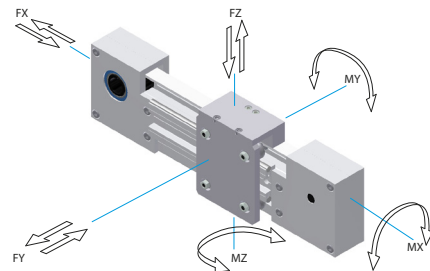
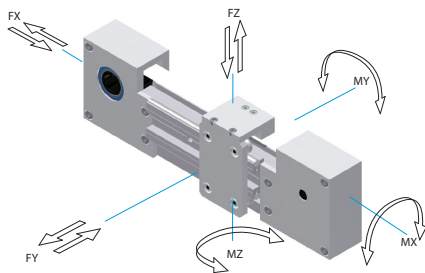


### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	6.083 Kg
Travel mass every 100 mm	0.55 Kg

### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	6.866 Kg
Travel mass every 100 mm	0.55 Kg



### Maximum loads

FX = 3610 N *	MX = 105 Nm
FY = 2534 N	MY = 75 Nm
FZ = 1552 N	MZ = 63 Nm

MINIMUM EMPTY TORQUE - Nm

### Recommended loads

FX = 1805 N	MX = 15 Nm
FY = 362 N	MY = 10.8 Nm
FZ = 222 N	MZ = 9 Nm

\* The belt breaking load is 14440 N.

### Maximum loads

FX = 3610 N**	MX = 258 Nm
FY = 5702 N	MY = 211 Nm
FZ = 3500 N	MZ = 228 Nm

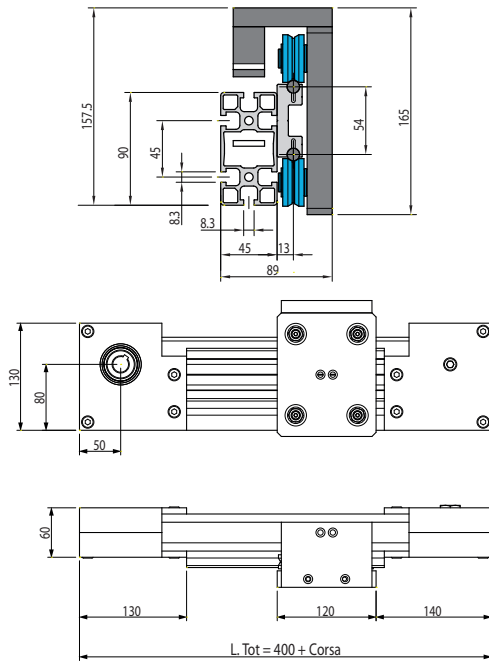
MINIMUM EMPTY TORQUE - Nm

### Recommended loads

FX = 1805 N	MX = 36.8 Nm
FY = 814 N	MY = 30.2 Nm
FZ = 500 N	MZ = 32.6 Nm

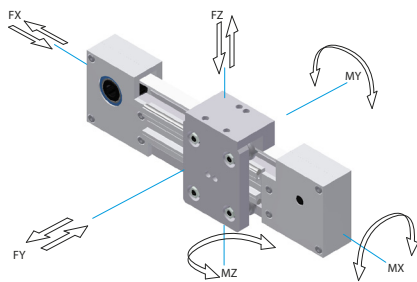
\*\* The belt breaking load is 14440 N.

GDR10CMLT



## Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	8.133 Kg
Travel mass every 100 mm	0.55 Kg



## Maximum loads

FX = 3610 N \*  
FY = 14573 N  
FZ = 9720 N

## Maximum moments

MX = 718 Nm  
MY = 602 Nm  
MZ = 546 Nm

## MINIMUM EMPTY TORQUE

- Nm

## Recommended loads

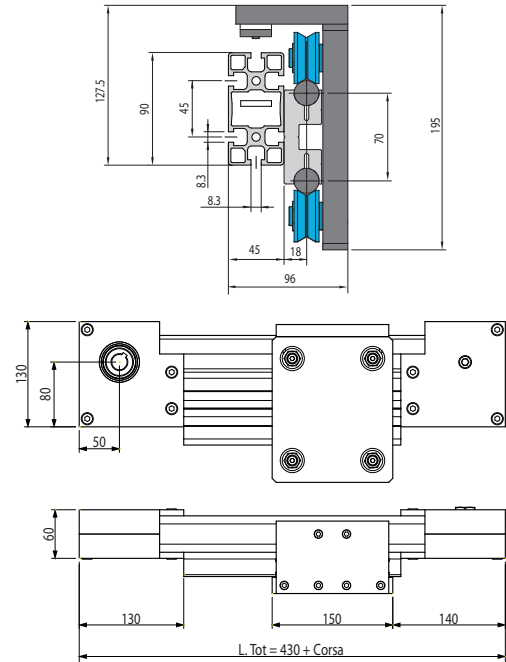
FX = 1805 N  
FY = 2082 N  
FZ = 1388 N

## Recommended moments

MX = 102.6 Nm  
MY = 86 Nm  
MZ = 78 Nm

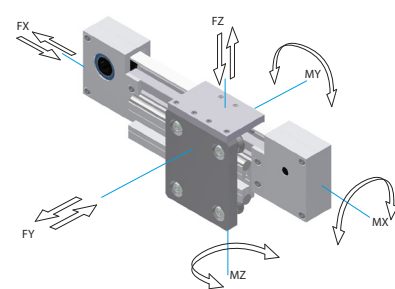
\* The belt breaking load is 14440 N.

GDR20AMLT



## Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	9.995 Kg
Travel mass every 100 mm	1.23 Kg



## Maximum loads

FX = 3610 N\*\*  
FY = 14573 N  
FZ = 9720 N

## Maximum moments

MX = 918 Nm  
MY = 782 Nm  
MZ = 728 Nm

## MINIMUM EMPTY TORQUE

- Nm

## Recommended loads

FX = 1805 N  
FY = 2082 N  
FZ = 1388 N

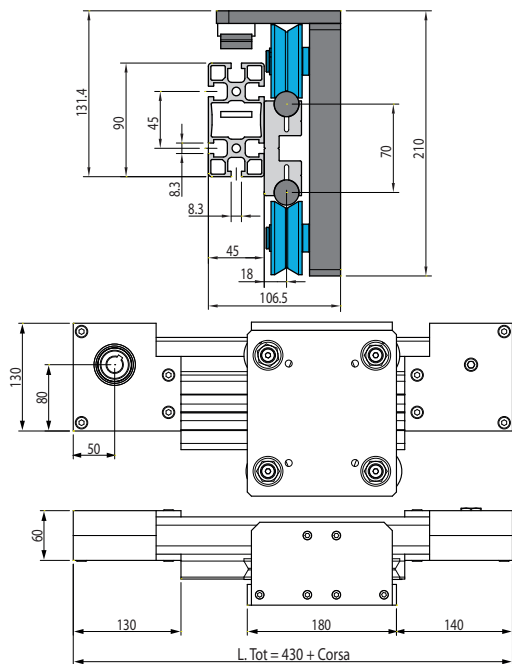
## Recommended moments

MX = 131 Nm  
MY = 112 Nm  
MZ = 104 Nm

\*\* The belt breaking load is 14440 N.

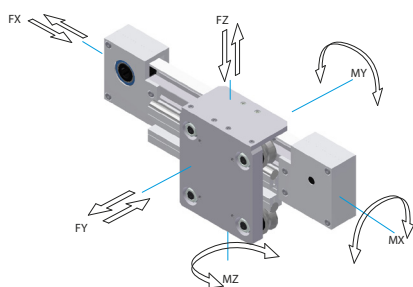


## GDR20BMLT



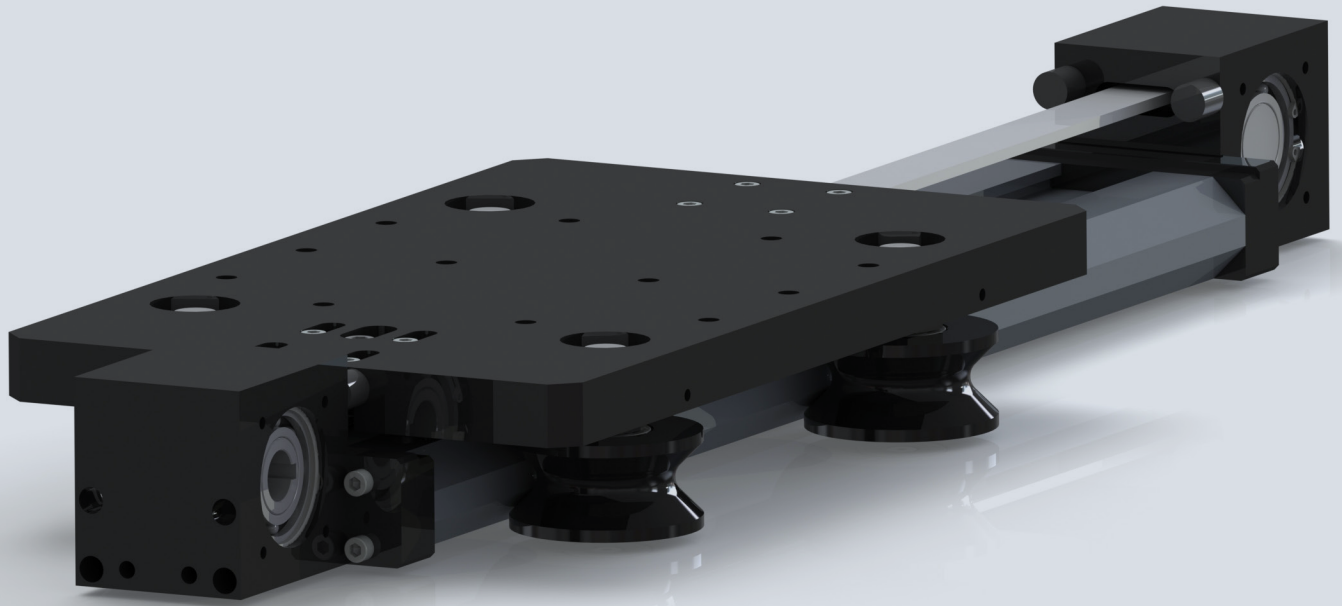
### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Pitch diameter	Ø 63.66 mm
Pulley	Z20 AT10
Belt	AT10 25
Travel mass 0 mm	12.533 Kg
Travel mass every 100 mm	1.23 Kg



Maximum loads	Maximum moments
FX = 3610 N *	MX = 1182 Nm
FY = 16896 N	MY = 1153 Nm
FZ = 12690 N	MZ = 929 Nm
MINIMUM EMPTY TORQUE	- Nm
Recommended loads	Recommended moments
FX = 1805 N	MX = 169 Nm
FY = 2414 N	MY = 165 Nm
FZ = 1851 N	MZ = 133 Nm

\* The belt breaking load is 14440 N.



## LINEAR MODULES BELT DRIVEN

### Sliding wheels/ELP120-ELP180 SERIES

The ELP wheels series allows high sliding speeds to be reached and good positioning accuracy. The positive “V” profile of the monorail guide makes it particularly suitable for dirty environments.

To complete the range, where there are medium/high loads, the ELP120C/ELPC180C series is supplied with wheels fitted at 45° on a car support.

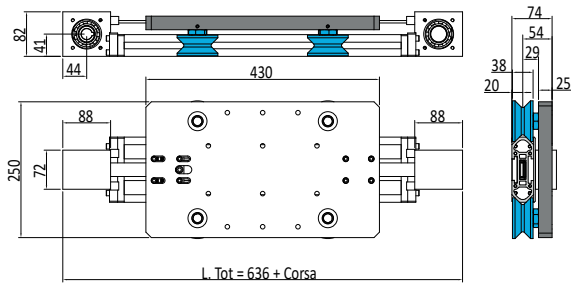
#### OPTIONS

- preparation for motor/reduction unit connection: direct or with bell and coupling
- additional holes
- fixing accessories
- connection system for lengths over 6000 mm
- possibility of anti-corrosion treatments

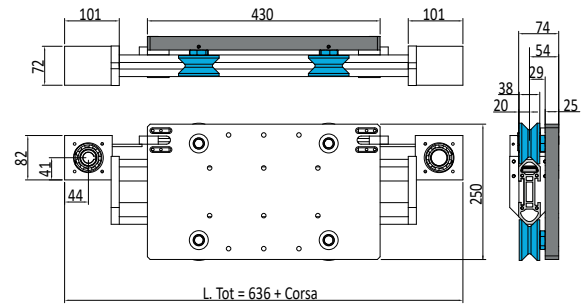
All linear modules are supplied assembled, without motors.

N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.

ELP120R



ELP120RLT

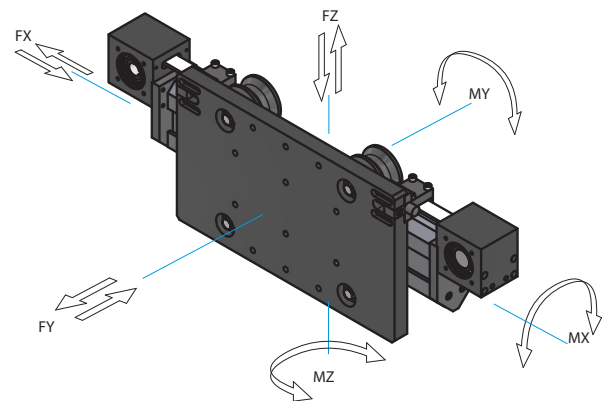
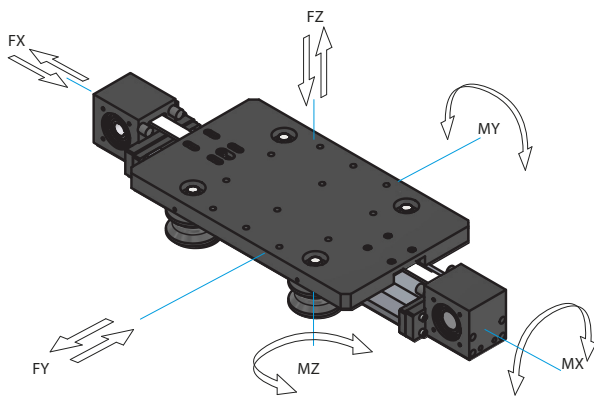


Technical features

Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 20 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z15 AT10
Belt	AT10 25
Travel mass 0 mm	14.52 Kg
Travel mass every 100 mm	0.52 Kg

Technical features

Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 20 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z15 AT10
Belt	AT10 25
Travel mass 0 mm	15.17 Kg
Travel mass every 100 mm	0.51 Kg



Maximum loads

Maximum moments

FX = 3610 N *	MX = 115 Nm
FY = 2400 N	MY = 155 Nm
FZ = 1296 N	MZ = 300 Nm

MINIMUM EMPTY TORQUE

- Nm

Recommended loads

Recommended moments

FX = 1800 N	MX = 23 Nm
FY = 480 N	MY = 31 Nm
FZ = 256 N	MZ = 60 Nm

\* The belt breaking load is 14440 N.

Maximum loads

Maximum moments

FX = 3610 N**	MX = 115 Nm
FY = 1296 N	MY = 300 Nm
FZ = 2400 N	MZ = 155 Nm

MINIMUM EMPTY TORQUE

- Nm

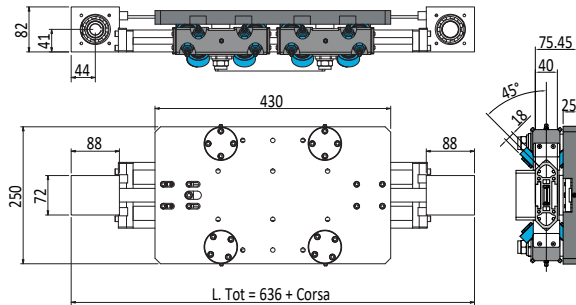
Recommended loads

Recommended moments

FX = 1800 N	MX = 23 Nm
FY = 256 N	MY = 60 Nm
FZ = 480 N	MZ = 31 Nm

\*\* The belt breaking load is 14440 N.

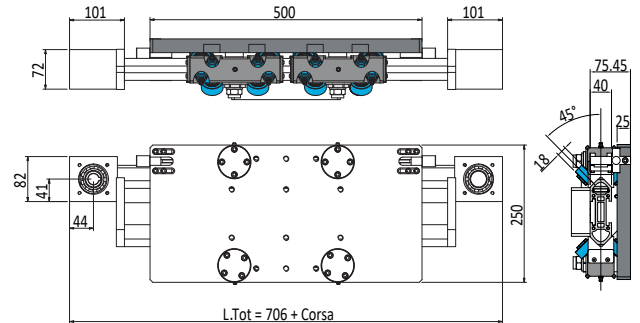
ELP120C



## Technical features

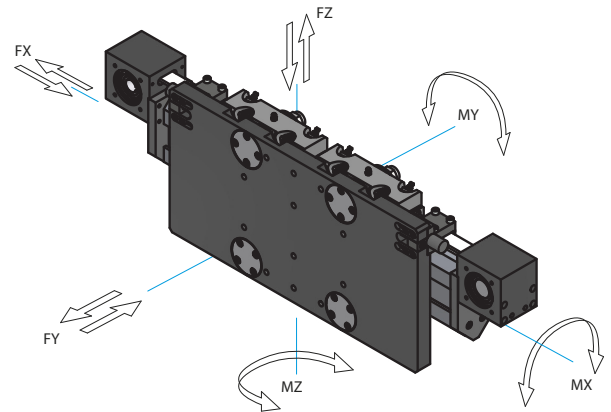
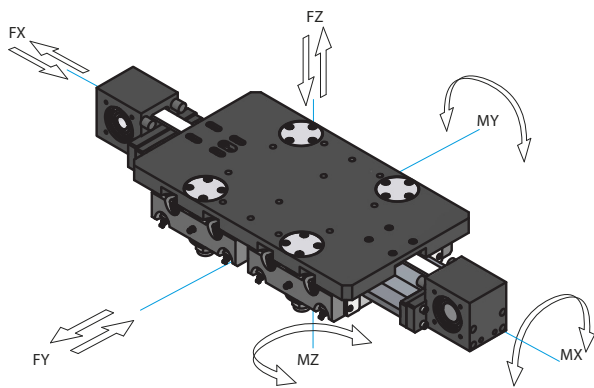
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 20 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z15 AT10
Belt	AT10 25
Travel mass 0 mm	21.07 Kg
Travel mass every 100 mm	0.52 Kg

ELP120CLT



## Technical features

Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 20 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z15 AT10
Belt	AT10 25
Travel mass 0 mm	21.72 Kg
Travel mass every 100 mm	0.51 Kg



## Maximum loads

FX = 3610 N \*  
FY ° = 7070 N  
FZ = 5728 N

## Maximum moments

MX = 538 Nm  
MY = 544 Nm  
MZ = 671 Nm

## MINIMUM EMPTY TORQUE

- Nm

## Recommended loads

FX = 1800 N  
FY = 1414 N  
FZ = 1145 N

## Recommended moments

MX = 107 Nm  
MY = 109 Nm  
MZ = 134 Nm

\* The belt breaking load is 14440 N.

° The Fy values are intended for the load applied to the concentric wheels

## Maximum loads

FX = 3610 N \*\*  
FY ° = 5728 N  
FZ °° = 7070 N

## Maximum moments

MX = 538 Nm  
MY = 671 Nm  
MZ = 544 Nm

## MINIMUM EMPTY TORQUE

- Nm

## Recommended loads

FX = 1800 N  
FY = 1145 N  
FZ = 1414 N

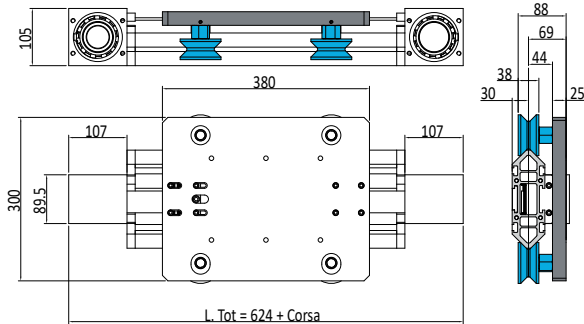
## Recommended moments

MX = 107 Nm  
MY = 134 Nm  
MZ = 109 Nm

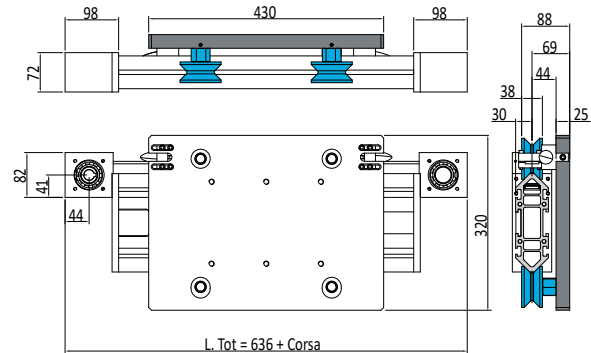
\*\* The belt breaking load is 14440 N.

°° The Fz values are intended for the load applied to the concentric wheels

ELP180R



ELP180RLT

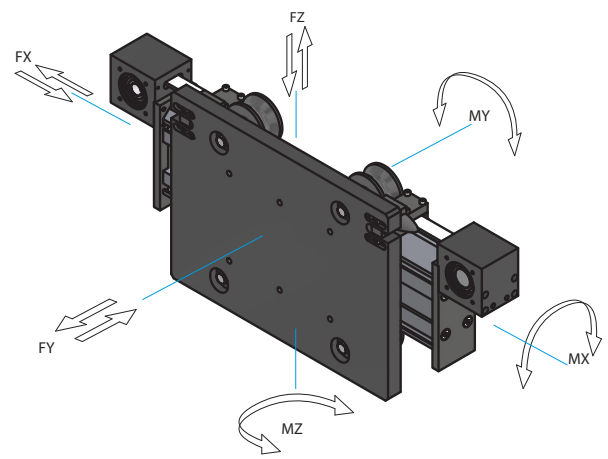
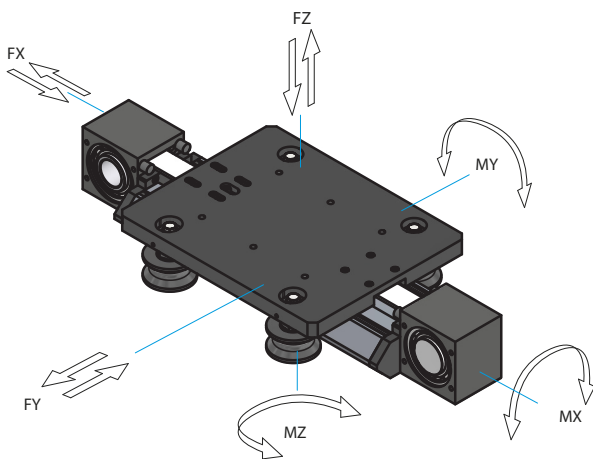


Technical features

Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 41 mm
Pitch diameter	Ø 66.84 mm
Pulley	Z21 AT10
Belt	AT10 40
Travel mass 0 mm	18.28 Kg
Travel mass every 100 mm	1.00 Kg

Technical features

Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 19 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z15 AT10
Belt	AT10 25
Travel mass 0 mm	20.30 Kg
Travel mass every 100 mm	0.98 Kg



Maximum loads

Maximum moments

FX = 6080 N *	MX = 152 Nm
FY = 2400 N	MY = 155 Nm
FZ = 1296 N	MZ = 300 Nm

MINIMUM EMPTY TORQUE

- Nm

Recommended loads

Recommended moments

FX = 3040 N	MX = 30 Nm
FY = 480 N	MY = 31 Nm
FZ = 259 N	MZ = 60 Nm

\* The belt breaking load is 22560 N.

Maximum loads

Maximum moments

FX = 3610 N**	MX = 152 Nm
FY = 1296 N	MY = 300 Nm
FZ = 2400 N	MZ = 155 Nm

MINIMUM EMPTY TORQUE

- Nm

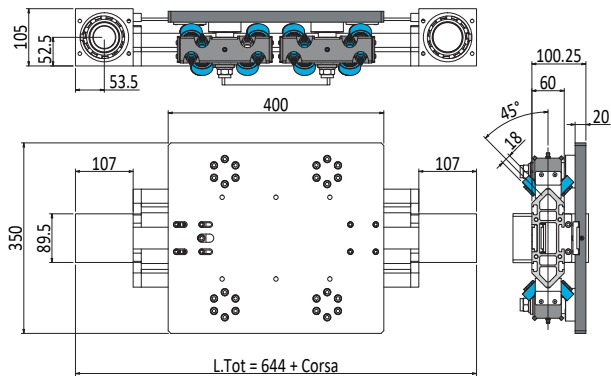
Recommended loads

Recommended moments

FX = 1800 N	MX = 30 Nm
FY = 259 N	MY = 60 Nm
FZ = 480 N	MZ = 31 Nm

\*\* The belt breaking load is 14440 N.

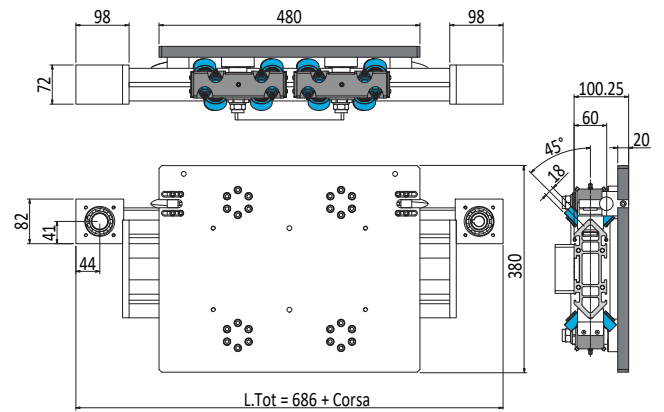
ELP180C



## Technical features

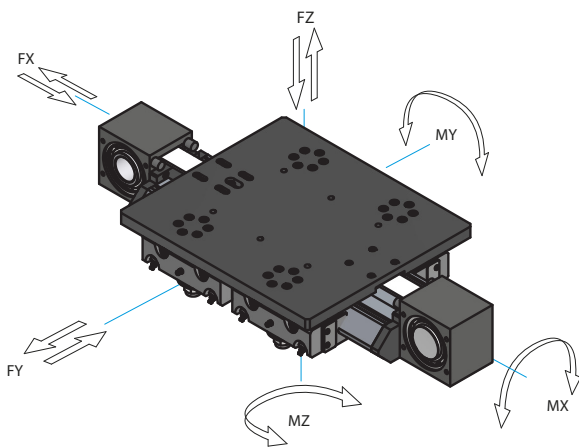
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 41 mm
Pitch diameter	Ø 66.84 mm
Pulley	Z21 AT10
Belt	AT10 40
Travel mass 0 mm	29.33 Kg
Travel mass every 100 mm	1.00 Kg

ELP180CLT



## Technical features

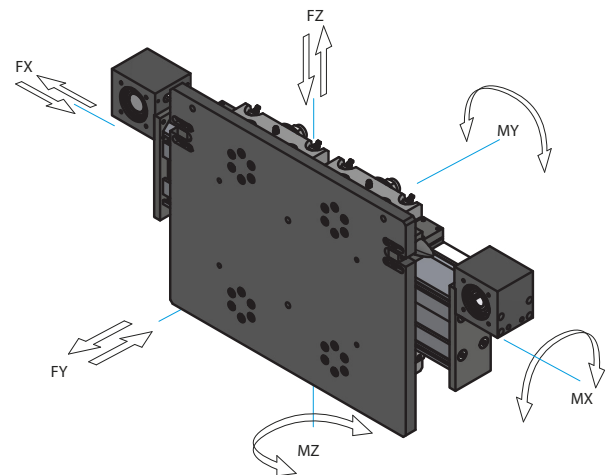
Positioning repeatability	+/- 0.1 mm
Standard hole with tab seat	Ø 19 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z15 AT10
Belt	AT10 25
Travel mass 0 mm	31.09 Kg
Travel mass every 100 mm	0.98 Kg



Maximum loads	Maximum moments
FX = 6080 N *	MX = 576 Nm
FY ° = 7070 N	MY = 448 Nm
FZ = 4716 N	MZ = 864 Nm
MINIMUM EMPTY TORQUE	- Nm
Recommended loads	Recommended moments
FX = 3040 N	MX = 115 Nm
FY = 1414 N	MY = 89 Nm
FZ = 943 N	MZ = 173 Nm

\* The belt breaking load is 22560 N.

° The Fy values are intended for the load applied to the concentric wheels

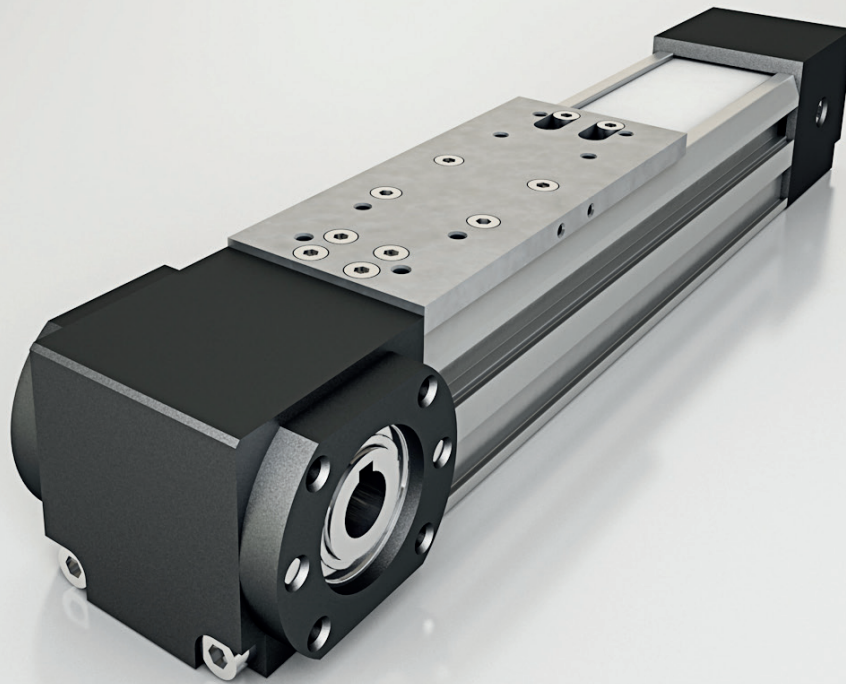


Maximum loads	Maximum moments
FX = 3610 N **	MX = 576 Nm
FY = 4716 N	MY = 864 Nm
FZ °° = 7070 N	MZ = 448 Nm
MINIMUM EMPTY TORQUE	- Nm
Recommended loads	Recommended moments
FX = 1800 N	MX = 115 Nm
FY = 943 N	MY = 173 Nm
FZ = 1414 N	MZ = 89 Nm

\*\* The belt breaking load is 14440 N.

°° The Fz values are intended for the load applied to the concentric wheels





## LINEAR MODULES BELT DRIVEN

### Recirculating ball slide/AG-ELG-MDR-AGZ-ELGZ SERIES

The AG, ELG and MDr series that slide on recirculating ball guides are divided according to the type of sliding (internal or external to the extrusion) and according to the section of the guide profile (which varies from 50 to 200mm). They allow the most varied requirements to be met in terms of dynamics and load capacity and are particularly suitable for medium/heavy loads and offer excellent resistance to vibrations.

The AGZ and ELGZ models with motors fixed on the car are also available for this type.

The telescopic models ELG90T and AGZ200T are suitable if the application requires vertical movements with reduced dimensions.

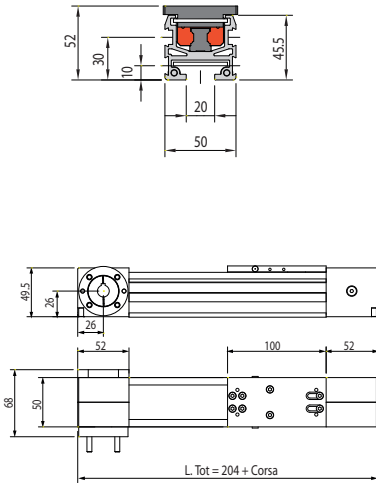
#### OPTIONS

- preparation for motor/reduction unit connection: direct or with bell and coupling
- additional holes
- fixing accessories
- connection system for lengths over 6000 mm
- possibility of anti-corrosion treatments

All linear modules are supplied assembled, without motors.

N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.

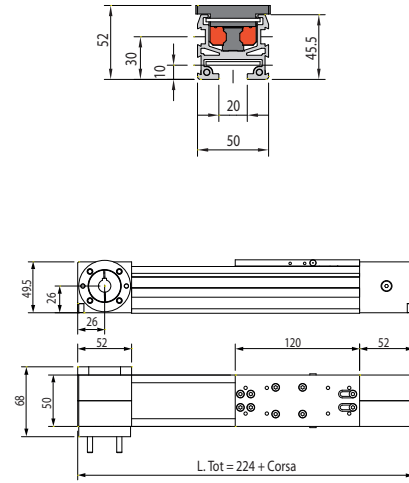
AG50-100



## Technical features

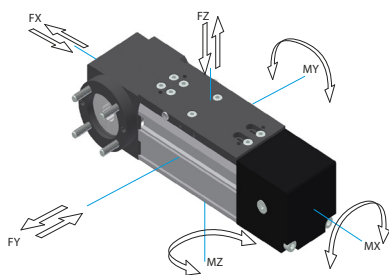
No. of shoes	1
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 12 mm
Pitch diameter	Ø 31.83 mm
Pulley	Z20 T5
Belt	T5 38
Travel mass 0 mm	1.378 Kg
Travel mass every 100 mm	0.23 Kg

AG50-120



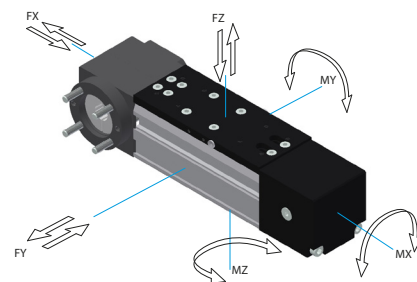
## Technical features

No. of shoes	1
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 12 mm
Pitch diameter	Ø 31.83 mm
Pulley	Z20 T5
Belt	T5 38
Travel mass 0 mm	1.502 Kg
Travel mass every 100 mm	0.23 Kg



Maximum loads	Maximum moments
FX = 1260 N *	MX = 52 Nm
FY = 5400 N	MY = 19 Nm
FZ = 5400 N	MZ = 19 Nm
MINIMUM EMPTY TORQUE	1.1 Nm
Recommended loads	Recommended moments
FX = 630 N	MX = 10 Nm
FY = 1080 N	MY = 3.8 Nm
FZ = 1080 N	MZ = 3.8 Nm

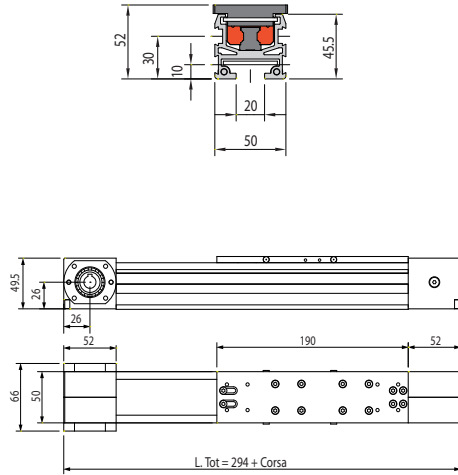
\* The belt breaking load is 5050 N.



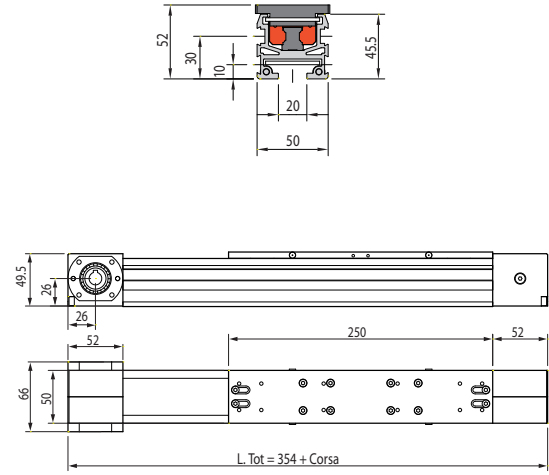
Maximum loads	Maximum moments
FX = 1260 N**	MX = 74 Nm
FY = 7800 N	MY = 40 Nm
FZ = 7800 N	MZ = 40 Nm
MINIMUM EMPTY TORQUE	1.1 Nm
Recommended loads	Recommended moments
FX = 630 N	MX = 15 Nm
FY = 1560 N	MY = 8 Nm
FZ = 1560 N	MZ = 8 Nm

\*\* The belt breaking load is 5050 N.

## AG50-190



## AG50-250

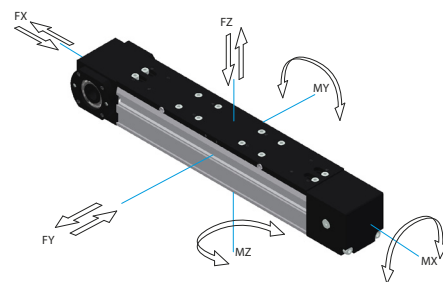
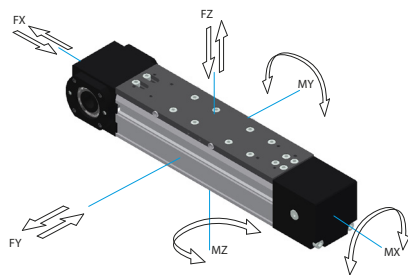


### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 12 mm
Pitch diameter	Ø 31.83 mm
Pulley	Z20 T5
Belt	T5 38
Travel mass 0 mm	1.934 Kg
Travel mass every 100 mm	0.23 Kg

### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 12 mm
Pitch diameter	Ø 31.83 mm
Pulley	Z20 T5
Belt	T5 38
Travel mass 0 mm	2.130 Kg
Travel mass every 100 mm	0.23 Kg



### Maximum loads

FX = 1260 N *	MX = 120 Nm
FY = 12600 N	MY = 423 Nm
FZ = 12600 N	MZ = 423 Nm

MINIMUM EMPTY TORQUE 1.1 Nm

### Recommended loads

FX = 630 N	MX = 24 Nm
FY = 2520 N	MY = 84 Nm
FZ = 2520 N	MZ = 84 Nm

\* The belt breaking load is 5050 N.

### Maximum loads

FX = 1260 N**	MX = 120 Nm
FY = 12600 N	MY = 530 Nm
FZ = 12600 N	MZ = 530 Nm

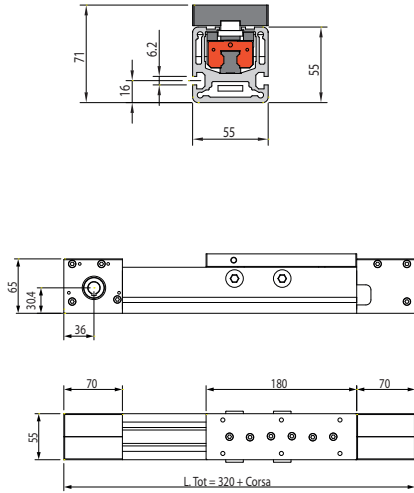
MINIMUM EMPTY TORQUE 1.1 Nm

### Recommended loads

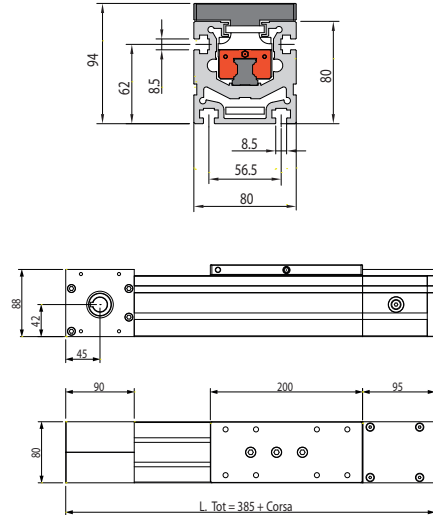
FX = 630 N	MX = 24 Nm
FY = 2520 N	MY = 106 Nm
FZ = 2520 N	MZ = 106 Nm

\*\* The belt breaking load is 5050 N.

## AG55



## AG80

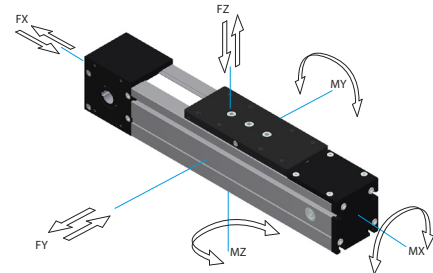
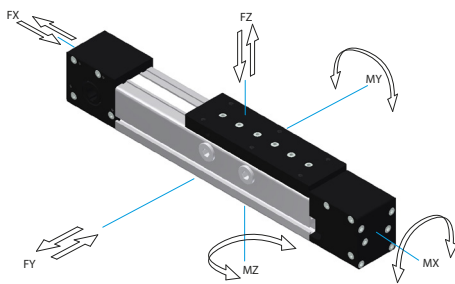


### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 12 - 14 mm
Pitch diameter	Ø 41.38 mm
Pulley	Z26 RPP5
Belt	RPP5 18
Travel mass 0 mm	3.425 Kg
Travel mass every 100 mm	0.46 Kg

### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 14 - 16 - 19 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 66.21mm
Pulley	Z26 RPP8
Belt	RPP8 30
Travel mass 0 mm	6.961 Kg
Travel mass every 100 mm	1.00 Kg



### Maximum loads

FX = 1240 N *	MX = 120 Nm
FY = 12630 N	MY = 670 Nm
FZ = 12630 N	MZ = 670 Nm

MINIMUM EMPTY TORQUE 1.1 Nm

### Recommended loads

FX = 620 N	MX = 24 Nm
FY = 2526 N	MY = 134 Nm
FZ = 2526 N	MZ = 134 Nm

\* The belt breaking load is 6050 N.

### Maximum loads

FX = 4510 N**	MX = 388 Nm
FY = 30450 N	MY = 1780 Nm
FZ = 30450 N	MZ = 1780 Nm

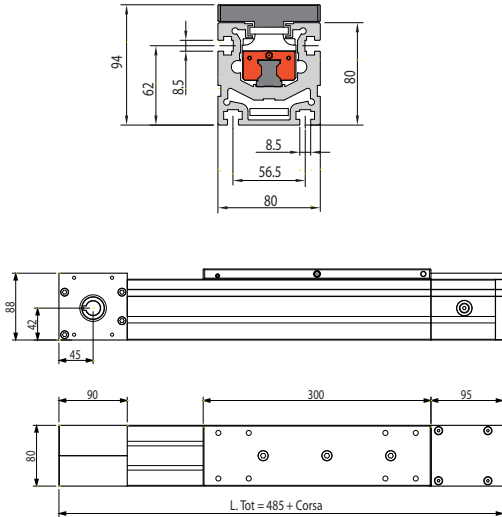
MINIMUM EMPTY TORQUE 1.5 Nm

### Recommended loads

FX = 2250 N	MX = 77 Nm
FY = 6090 N	MY = 356 Nm
FZ = 6090 N	MZ = 356 Nm

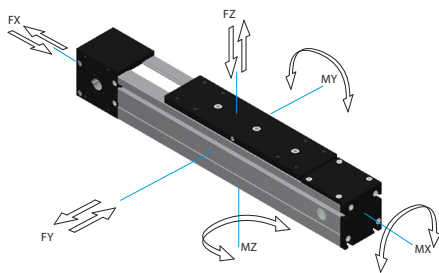
\*\* The belt breaking load is 18050 N.

## AG80L



### Technical features

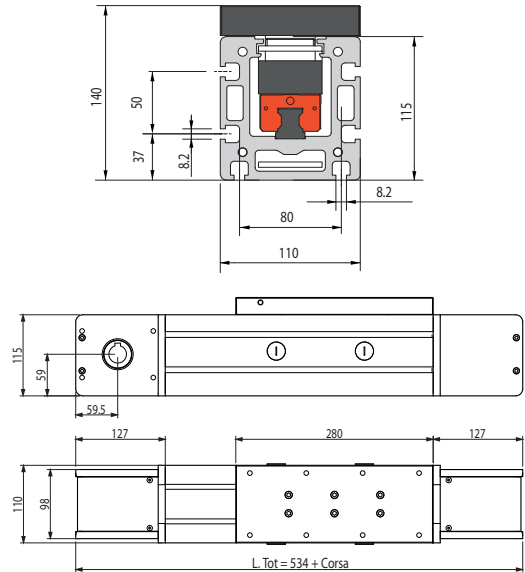
No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 14 - 16 - 19 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 66.21mm
Pulley	Z26 RPP8
Belt	RPP8 30
Travel mass 0 mm	8.731 Kg
Travel mass every 100 mm	1.00 Kg



Maximum loads	Maximum moments
FX = 4510 N *	MX = 388 Nm
FY = 30450 N	MY = 3300 Nm
FZ = 30450 N	MZ = 3300 Nm
MINIMUM EMPTY TORQUE	1.5 Nm
Recommended loads	Recommended moments
FX = 2250 N	MX = 77 Nm
FY = 6090 N	MY = 660 Nm
FZ = 6090 N	MZ = 660 Nm

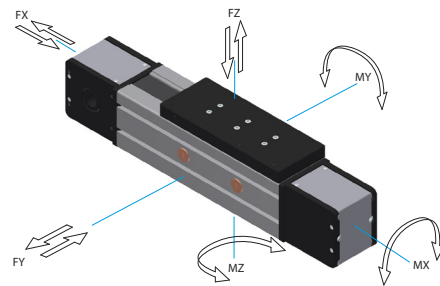
\* The belt breaking load is 18050 N.

## AG110



### Technical features

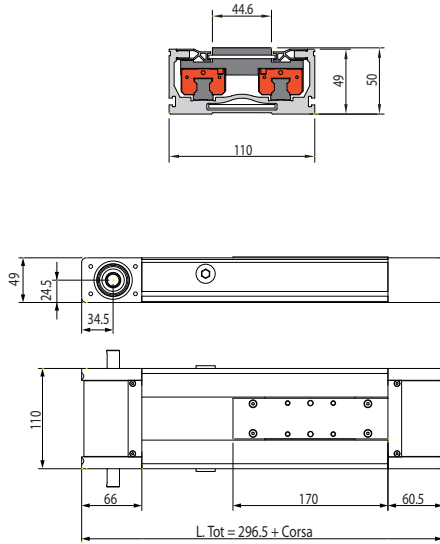
No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 14 - 19 - 25 mm
Complete male shaft	Ø 25 - 32 - 40 mm
Pitch diameter	Ø 95.49mm
Pulley	Z30 AT10
Belt	AT10 50
Travel mass 0 mm	16.396 Kg
Travel mass every 100 mm	1.69 Kg



Maximum loads	Maximum moments
FX = 7670 N**	MX = 518 Nm
FY = 36900 N	MY = 3638 Nm
FZ = 36900 N	MZ = 3638 Nm
MINIMUM EMPTY TORQUE	1.7 Nm
Recommended loads	Recommended moments
FX = 3835 N	MX = 103 Nm
FY = 7380 N	MY = 727 Nm
FZ = 7380 N	MZ = 727 Nm

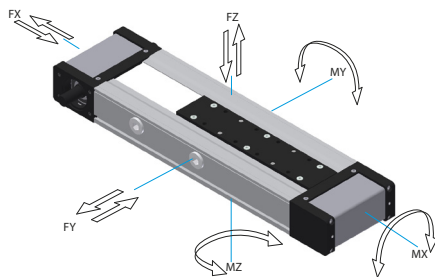
\*\* The belt breaking load is 30685 N.

## AG2C110



### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Complete male shaft	Ø 14
Pitch diameter	Ø 38.2 mm
Pulley	Z24 AT5
Belt	AT5 50
Travel mass 0 mm	3.348 Kg
Travel mass every 100 mm	0.48 Kg



### Maximum loads

FX = 3560 N \*  
FY = 15600 N  
FZ = 15600 N

### Maximum moments

MX = 468 Nm  
MY = 80 Nm  
MZ = 80 Nm

### MINIMUM EMPTY TORQUE

1.05 Nm

### Recommended loads

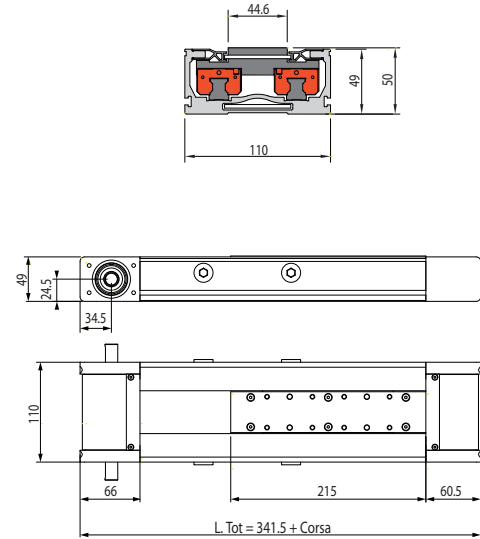
FX = 1780 N  
FY = 3120 N  
FZ = 3120 N

### Recommended moments

MX = 93 Nm  
MY = 16 Nm  
MZ = 16 Nm

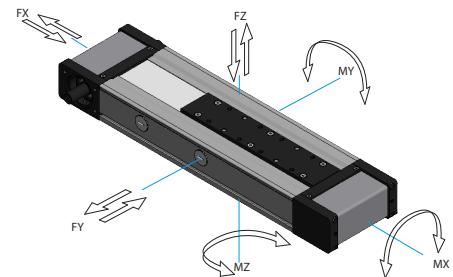
\* The belt breaking load is 14255.

## AG2C110L



### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Complete male shaft	Ø 14
Pitch diameter	Ø 38.2 mm
Pulley	Z24 AT5
Belt	AT5 50
Travel mass 0 mm	4.136 Kg
Travel mass every 100 mm	0.48 Kg



### Maximum loads

FX = 3560 N\*\*  
FY = 31200 N  
FZ = 31200 N

### Maximum moments

MX = 936 Nm  
MY = 2246 Nm  
MZ = 2246 Nm

### MINIMUM EMPTY TORQUE

1.32 Nm

### Recommended loads

FX = 1780 N  
FY = 6240 N  
FZ = 6240 N

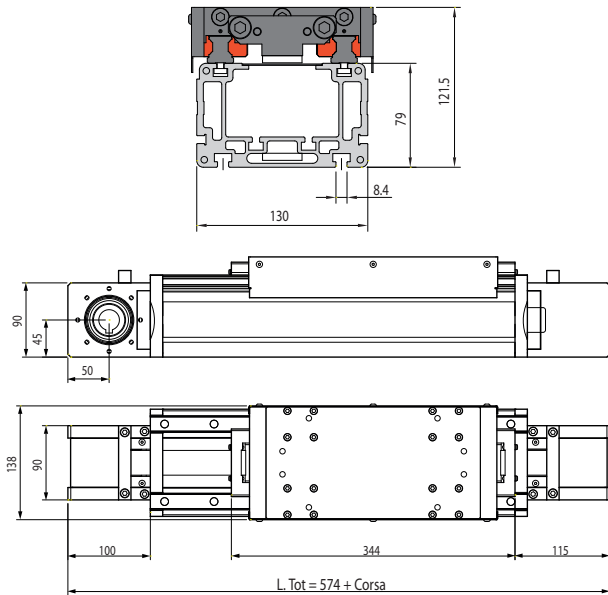
### Recommended moments

MX = 187 Nm  
MY = 449 Nm  
MZ = 449 Nm

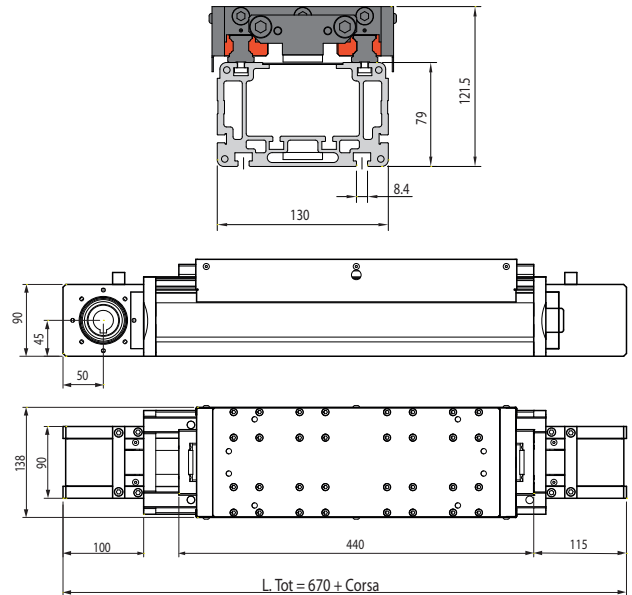
\*\* The belt breaking load is 14255.



## AG2C130



## AG2C130L

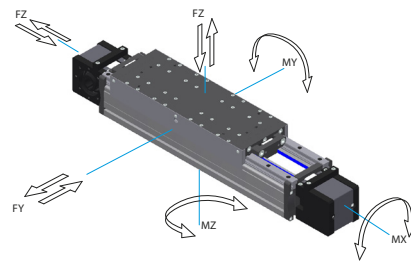
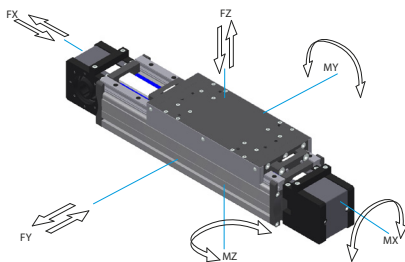


### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	2.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 25
Pitch diameter	Ø 76.39 mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	12.702 Kg
Travel mass every 100 mm	1.33 Kg

### Technical features

No. of shoes	8
Positioning repeatability	+/- 0.1 mm
Max speed	2.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 25
Pitch diameter	Ø 76.39 mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	14.819 Kg
Travel mass every 100 mm	1.33 Kg



### Maximum loads

FX = 4510 N *	MX = 1800 Nm
FY = 38280 N	MY = 3368 Nm
FZ = 38280 N	MZ = 3368 Nm

MINIMUM EMPTY TORQUE 1.7 Nm

### Recommended loads

FX = 2255 N	MX = 360 Nm
FY = 7656 N	MY = 673 Nm
FZ = 7656 N	MZ = 673 Nm

\* The belt breaking load is 18050 N.

### Maximum loads

FX = 4510 N**	MX = 2915 Nm
FY = 62010 N	MY = 5206 Nm
FZ = 62010 N	MZ = 5206 Nm

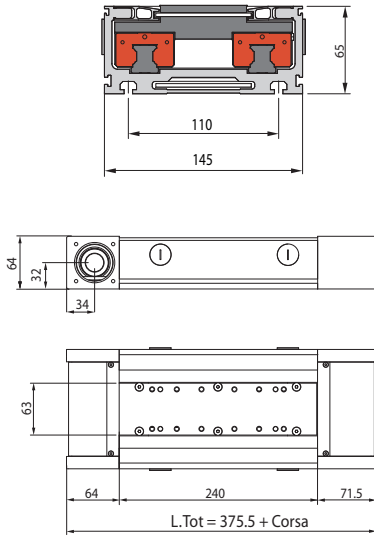
MINIMUM EMPTY TORQUE 1.7 Nm

### Recommended loads

FX = 2255 N	MX = 583 Nm
FY = 12402 N	MY = 1041 Nm
FZ = 12402 N	MZ = 1041 Nm

\*\* The belt breaking load is 18050 N.

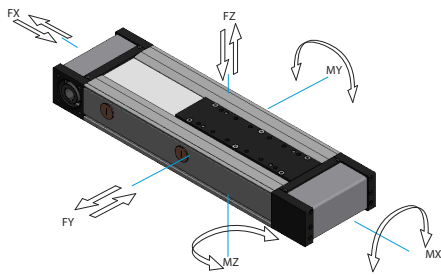
## AG2C145



### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 - 22 mm
Pitch diameter	Ø 52.51 mm
Pulley	Z33 AT5
Belt	AT5 70

Travel mass 0 mm	6.39 Kg
Travel mass every 100 mm	0.64 Kg



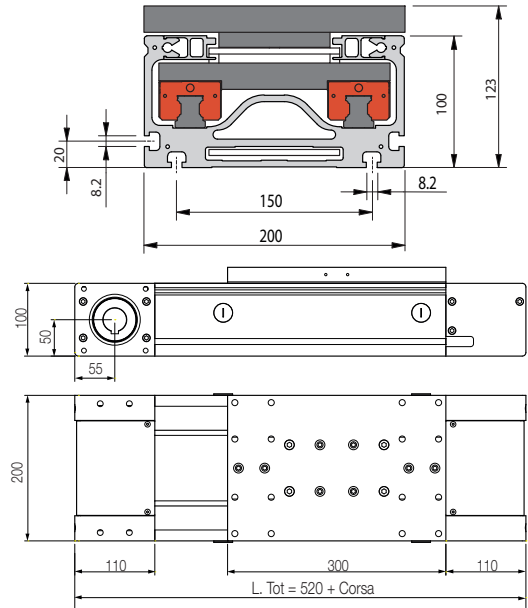
Maximum loads	Maximum moments
FX = 4564 N *	MX = 2520 Nm
FY = 45857 N	MY = 3549 Nm
FZ = 45857 N	MZ = 3549 Nm

MINIMUM EMPTY TORQUE	2.4 Nm
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Recommended loads	Recommended moments
FX = 2280 N	MX = 504 Nm
FY = 9171 N	MY = 710 Nm
FZ = 9171 N	MZ = 710 Nm

\* The belt breaking load is 17346 N.

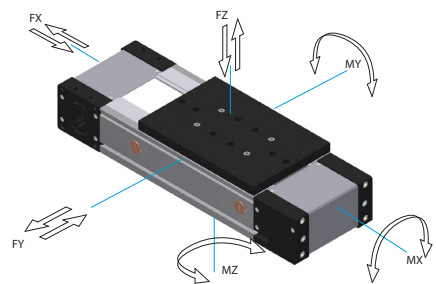
## AG2C200



### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 - 25 - 32 mm
Pitch diameter	Ø 79.58 mm
Pulley	Z25 AT10
Belt	AT10 100

Travel mass 0 mm	26.261 Kg
Travel mass every 100 mm	2.18 Kg



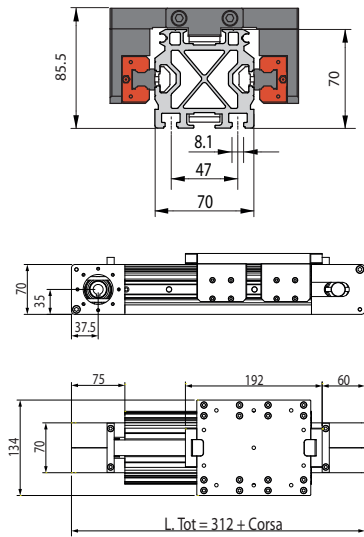
Maximum loads	Maximum moments
FX = 16625 N**	MX = 3900 Nm
FY = 60000 N	MY = 6000 Nm
FZ = 60000 N	MZ = 6000 Nm

MINIMUM EMPTY TORQUE	2.5 Nm
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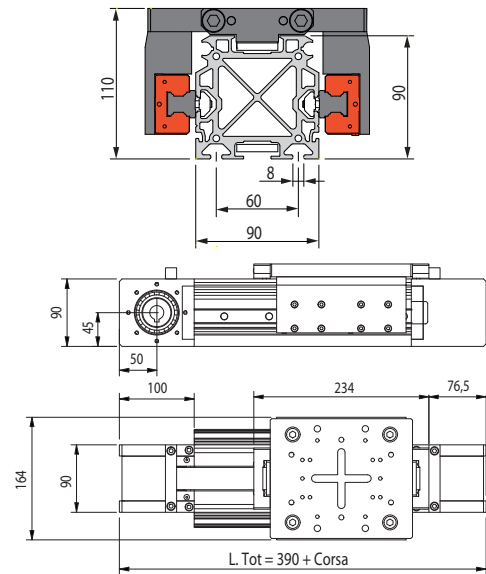
Recommended loads	Recommended moments
FX = 8310 N	MX = 780 Nm
FY = 12000 N	MY = 1200 Nm
FZ = 12000 N	MZ = 1200 Nm

\*\* The belt breaking load is 63175 N.

## ELG70



## ELG90

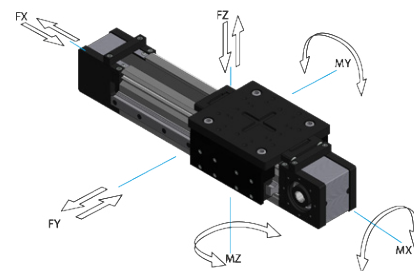
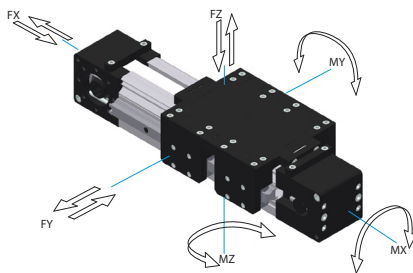


### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 14 mm
Complete male shaft	Ø 14 mm
Pitch diameter	Ø 57.3mm
Pulley	Z36 RPP5
Belt	RPP5 22
Travel mass 0 mm	5.916 Kg
Travel mass every 100 mm	0.81 Kg

### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 14 - 19 - 20 - 22 - 25 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	10.291 Kg
Travel mass every 100 mm	1.23 Kg



### Maximum loads

FX = 1510 N *	MX = 947 Nm
FY = 20590 N	MY = 926 Nm
FZ = 20590 N	MZ = 1440 Nm

MINIMUM EMPTY TORQUE - Nm

### Recommended loads

FX = 755 N	MX = 189 Nm
FY = 4118 N	MY = 185 Nm
FZ = 4118 N	MZ = 288 Nm

\* The belt breaking load is 6045 N.

### Maximum loads

FX = 4510 N**	MX = 3100 Nm
FY = 37500 N	MY = 2830 Nm
FZ = 49000 N	MZ = 2830 Nm

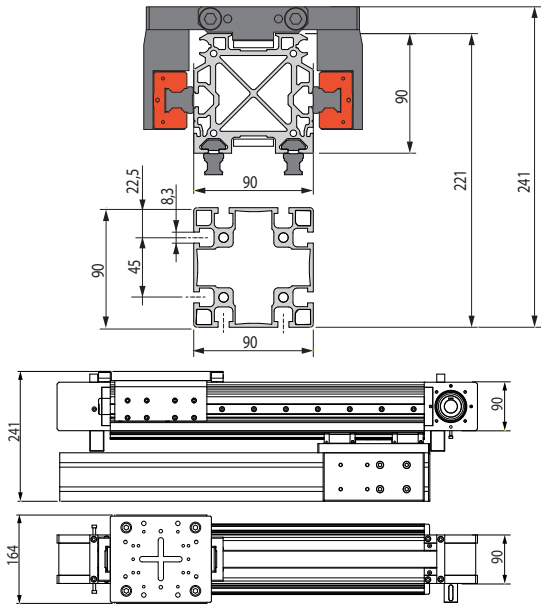
MINIMUM EMPTY TORQUE - Nm

### Recommended loads

FX = 2550 N	MX = 620 Nm
FY = 7500 N	MY = 566 Nm
FZ = 9800 N	MZ = 566 Nm

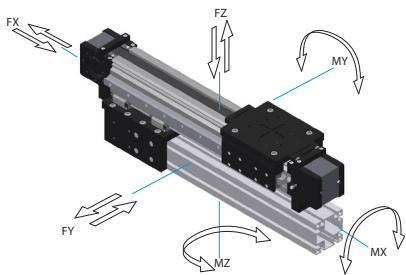
\*\* The belt breaking load is 18050 N.

## ELG90T (TELESCOPIC)



### Technical features

No. of shoes	4+4
Positioning repeatability	+/- 0.1 mm
Max speed	+/- 4.5 m/sec
Standard hole with tab seat	Ø 14 - 19 - 20 - 22 - 25 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	19.298 Kg
Travel mass every 100 mm	1.007 Kg



### Maximum loads

FX = - N
FY = - N
FZ = - N

### Maximum moments

MX = - Nm
MY = - Nm
MZ = - Nm

### MINIMUM EMPTY TORQUE

- Nm

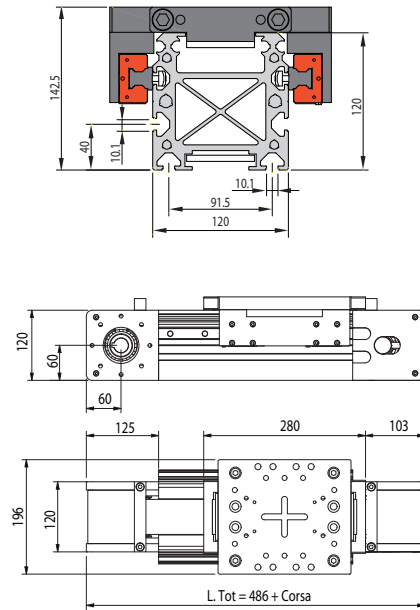
### Recommended loads

FX = - N
FY = - N
FZ = - N

### Recommended moments

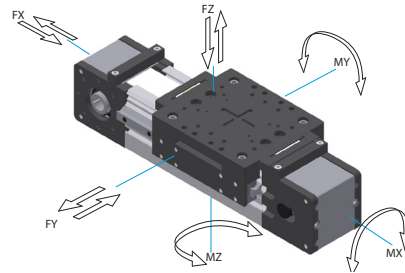
MX = - Nm
MY = - Nm
MZ = - Nm

## ELG120



### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 35 mm
Pitch diameter	Ø 101.86mm
Pulley	Z40 RPP8
Belt	RPP8 60
Travel mass 0 mm	21.315 Kg
Travel mass every 100 mm	1.78 Kg



### Maximum loads

FX = 9020 N**
FY = 38170 N
FZ = 49600 N

### Maximum moments

MX = 3740 Nm
MY = 3770 Nm
MZ = 3770 Nm

### MINIMUM EMPTY TORQUE

1.7 Nm

### Recommended loads

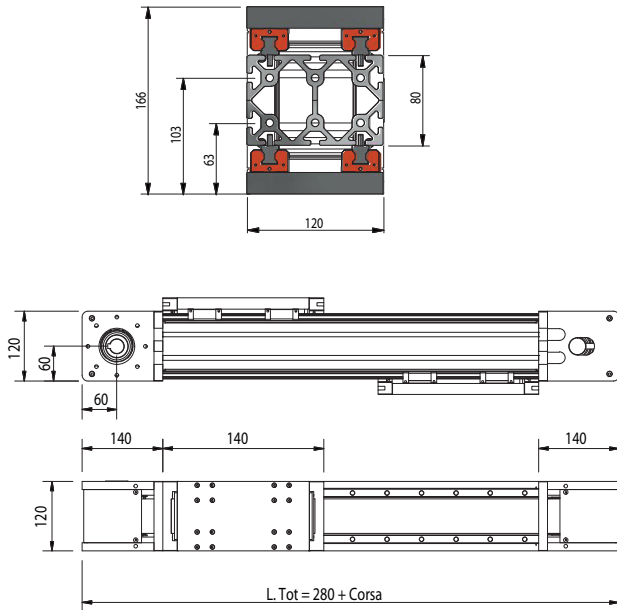
FX = 4510 N
FY = 7634 N
FZ = 9920 N

### Recommended moments

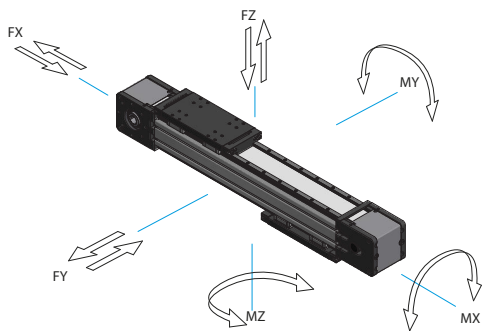
MX = 748 Nm
MY = 754 Nm
MZ = 754 Nm

\*\* The belt breaking load is 36822 N.

## ELG120C



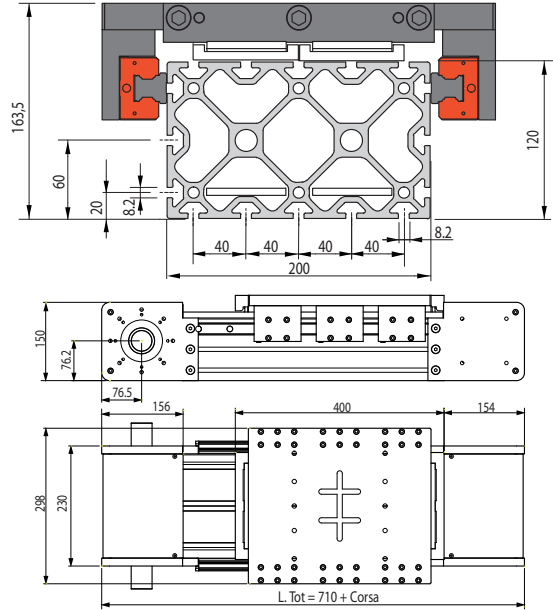
Technical features	
No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Pitch diameter	Ø 101.86mm
Pulley	Z40 RPP8
Belt	RPP8 60
Travel mass 0 mm	21.958 Kg
Travel mass every 100 mm	1.54 Kg



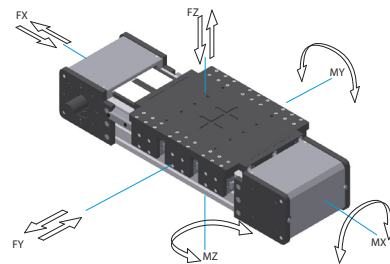
Maximum loads	Maximum moments
FX = 9020 N**	MX = 1041 Nm
FY = 26030 N	MY = 1744 Nm
FZ = 26030 N	MZ = 1744 Nm
MINIMUM EMPTY TORQUE	1.7 Nm
Recommended loads	Recommended moments
FX = 4510 N	MX = 208 Nm
FY = 5206 N	MY = 349 Nm
FZ = 5206 N	MZ = 349 Nm

\*\* The belt breaking load is 36822 N.

## ELG200



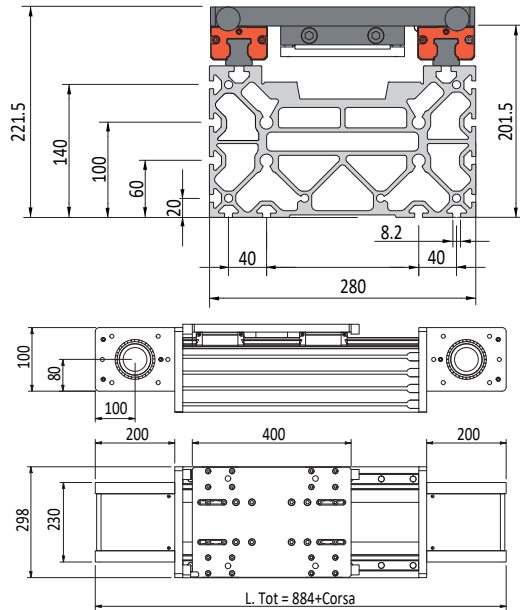
Technical features	
No. of shoes	6
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Complete male shaft	Ø 32 - 40 mm
Pitch diameter	Ø 112.05mm
Pulley	Z44 RPP8
Belts	2 x RPP8 60
Travel mass 0 mm	48.957 Kg
Travel mass every 100 mm	2.84 Kg



Maximum loads	Maximum moments
FX = 18408 N *	MX = 6922 Nm
FY = 60192 N	MY = 5718 Nm
FZ = 60192 N	MZ = 5718 Nm
MINIMUM EMPTY TORQUE	3 Nm
Recommended loads	Recommended moments
FX = 9204 N	MX = 1384 Nm
FY = 12038 N	MY = 1143 Nm
FZ = 12038 N	MZ = 1143 Nm

\* The belt breaking load is 36822 N (value refers to the single belt).

## ELG280X

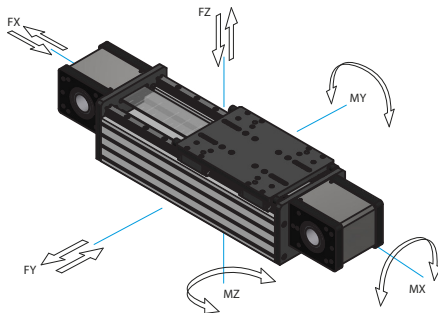


## Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 60 mm
Pitch diameter	Ø 95.49mm
Pulley	Z30 AT10
Belt	AT10 100

Travel mass 0 mm	60.5 Kg
Travel mass every 100 mm	4.65 Kg

AVAILABLE WITH SCREW AND RACK HANDLING. (Contact the technical department)



Maximum loads	Maximum moments
FX = 16625 N *	MX = 13206 Nm
FY = 121440 N	MY = 15787 Nm
FZ = 121440 N	MZ = 15787 Nm

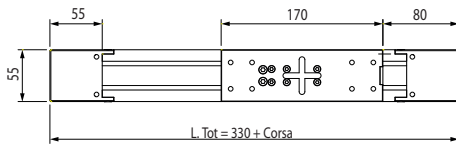
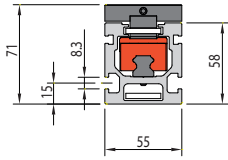
MINIMUM EMPTY TORQUE	6 Nm
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Recommended loads	Recommended moments
FX = 8310 N	MX = 2641 Nm
FY = 24288 N	MY = 3157 Nm
FZ = 24288 N	MZ = 3157 Nm

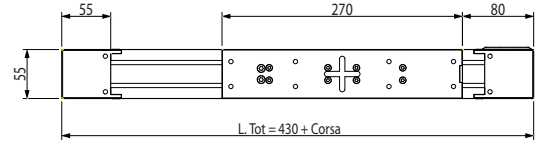
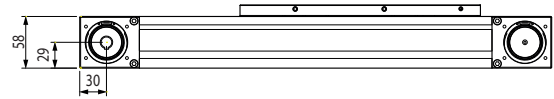
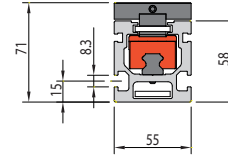
\* The belt breaking load is 63175 N



## MDR55A



## MDR55A-2P

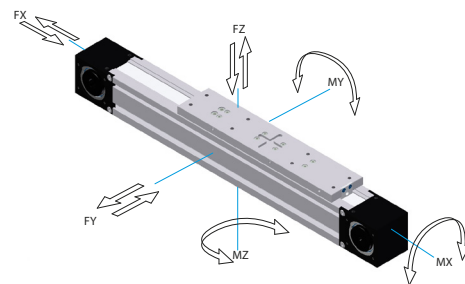
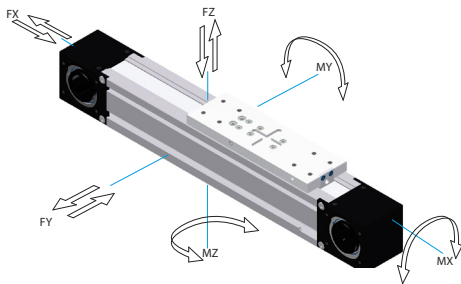


### Technical features

No. of shoes	1
Positioning repeatability	+/- 0.1 mm
Max speed	2 m/sec
Standard hole with tab seat	Ø 12-14-15-16-18-19-20-25 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z30 RPP5
Belt	RPP5 25
Travel mass 0 mm	3.254 Kg
Travel mass every 100 mm	0.49 Kg

### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	2 m/sec
Standard hole with tab seat	Ø 12-14-15-16-18-19-20-25 mm
Pitch diameter	Ø 47.75 mm
Pulley	Z30 RPP5
Belt	RPP5 25
Travel mass 0 mm	4.724 Kg
Travel mass every 100 mm	0.63 Kg



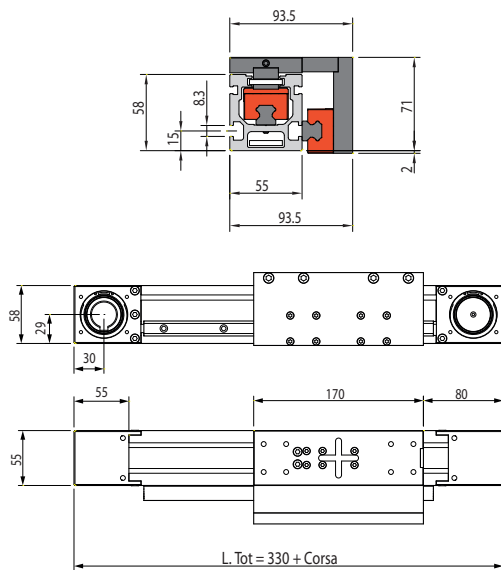
Maximum applicable loads (N)	Allowable twisting moments (Nm)
------------------------------	---------------------------------

FX = 1372	MX = 24
FY = 2276	MY = 20
FZ = 2276	MZ = 20
<b>MINIMUM EMPTY TORQUE</b>	- Nm

Maximum applicable loads (N)	Allowable twisting moments (Nm)
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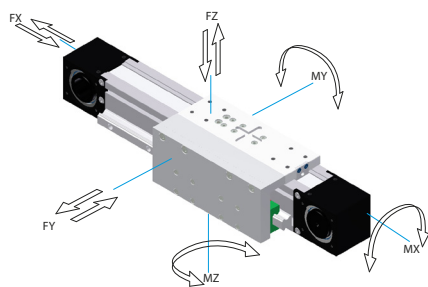
FX = 1372	MX = 48
FY = 4552	MY = 228
FZ = 4552	MZ = 228
<b>MINIMUM EMPTY TORQUE</b>	- Nm

## MDR55A-3P



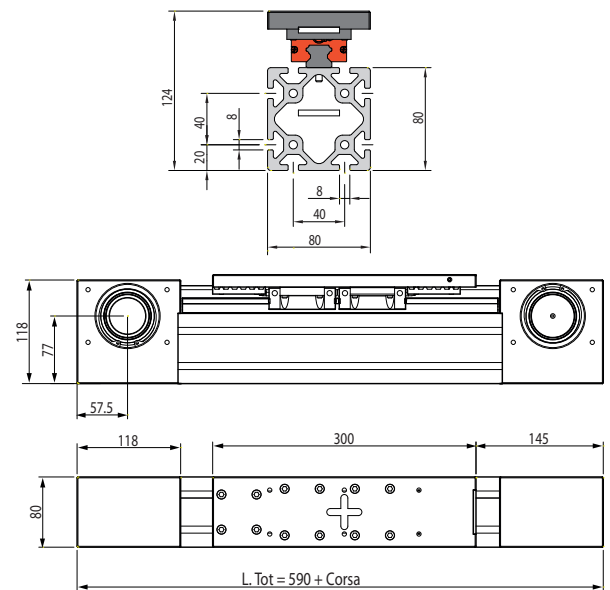
## Technical features

No. of shoes	3
Positioning repeatability	+/- 0.1 mm
Max speed	2 m/sec
Standard hole with tab seat	Ø 12-14-15-16-18-19-20-25 mm
Pitch diameter	Ø 47.75mm
Pulley	Z30 RPP5
Belt	RPP5 25
Travel mass 0 mm	4.534 Kg
Travel mass every 100 mm	0.90 Kg



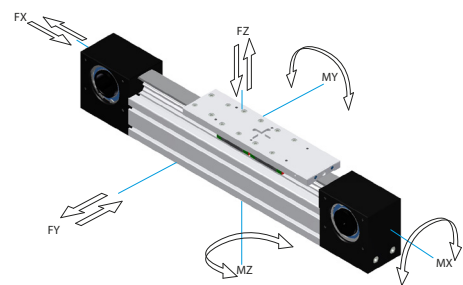
Maximum applicable loads (N)	Allowable twisting moments (Nm)
FX = 1372	MX = 96
FY = 6828	MY = 361
FZ = 6828	MZ = 391
MINIMUM EMPTY TORQUE	- Nm

## MDRE80-220



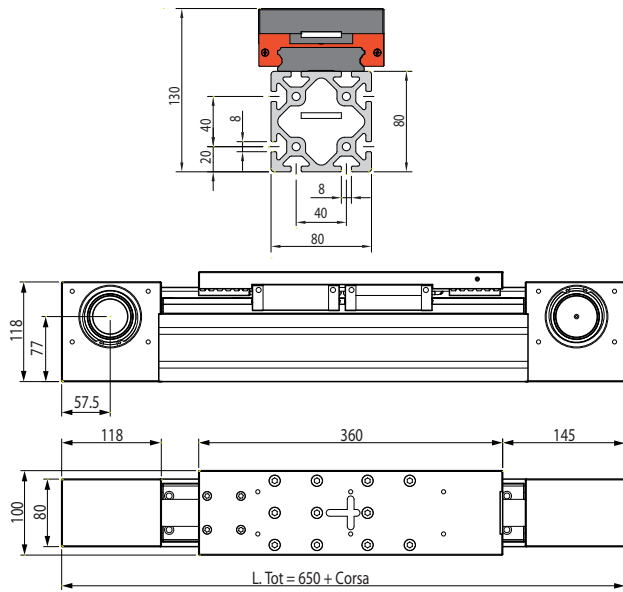
## Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	2 m/sec
Standard hole with tab seat	Ø 30 mm
Pitch diameter	Ø 66.85mm
Pulley	Z21 AT10
Belt	AT10 32
Travel mass 0 mm	11.998 Kg
Travel mass every 100 mm	0.68 Kg

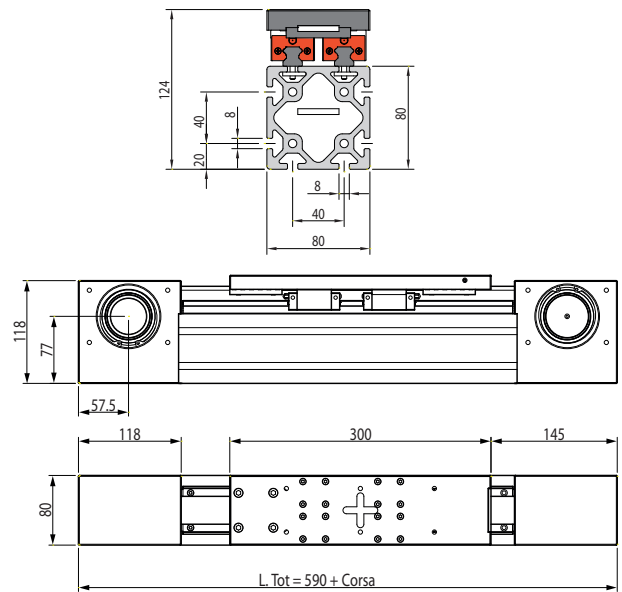


Maximum applicable loads (N)	Allowable twisting moments (Nm)
FX = 3608	MX = 108
FY = 7100	MY = 284
FZ = 7100	MZ = 284
MINIMUM EMPTY TORQUE	- Nm

## MDRE80-235



## MDRE80-415



### Technical features

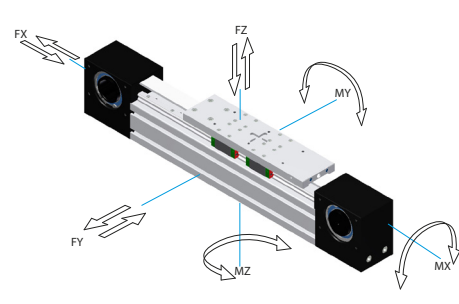
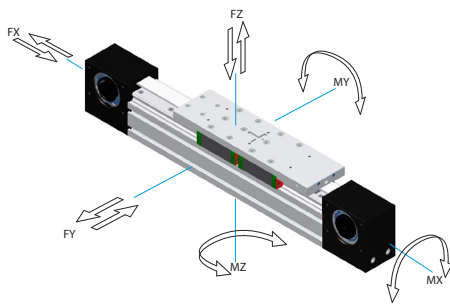
No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	2 m/sec
Standard hole with tab seat	Ø 30 mm
Pitch diameter	Ø 66.85mm
Pulley	Z21 AT10
Belt	AT10 32

Travel mass 0 mm	15.290 Kg
Travel mass every 100 mm	0.69 Kg

### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	2 m/sec
Standard hole with tab seat	Ø 30 mm
Pitch diameter	Ø 66.85mm
Pulley	Z21 AT10
Belt	AT10 32

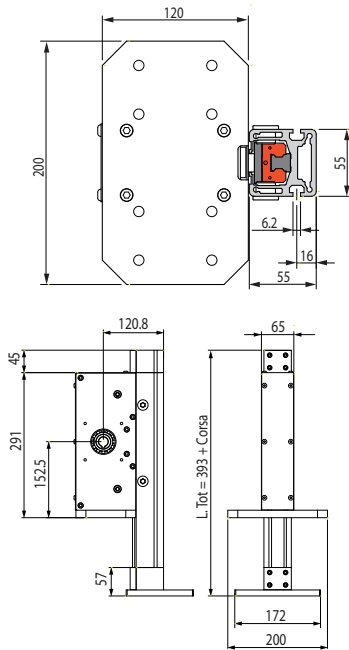
Travel mass 0 mm	12.169 Kg
Travel mass every 100 mm	0.68 Kg



Maximum applicable loads (N)	Allowable twisting moments (Nm)
FX = 3608	MX = 640
FY = 11920	MY = 656
FZ = 11920	MZ = 656
MINIMUM EMPTY TORQUE	- Nm

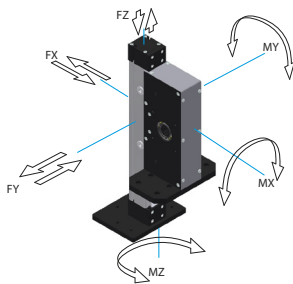
Maximum applicable loads (N)	Allowable twisting moments (Nm)
FX = 3608	MX = 182
FY = 9104	MY = 391
FZ = 9104	MZ = 432
MINIMUM EMPTY TORQUE	- Nm

## AGZ55



### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 14 - 19 mm
Pitch diameter	Ø 63.69mm
Pulley	Z20 AT 10
Belt	AT10 25
Travel mass 0 mm	9.207 Kg
Travel mass every 100 mm	0.45 Kg



### Maximum loads

FX = 12630 N  
 FY = 12630 N  
 FZ = 3610 N \*

### Maximum moments

MX = 670 Nm  
 MY = 670 Nm  
 MZ = 120 Nm

MINIMUM EMPTY TORQUE

2.9 Nm

### Recommended loads

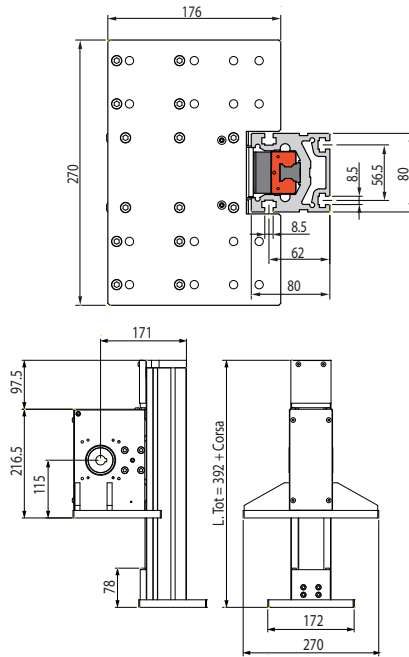
FX = 2526 N  
 FY = 2526 N  
 FZ = 1805 N

### Recommended moments

MX = 134 Nm  
 MY = 134 Nm  
 MZ = 24 Nm

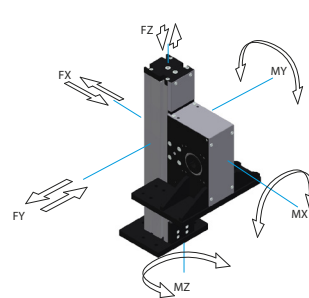
\* The belt breaking load is 14440 N.

## AGZ80



### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39mm
Pulley	Z24 AT10
Belt	AT10 45
Travel mass 0 mm	14.934 Kg
Travel mass every 100 mm	0.94 Kg



### Maximum loads

FX = 30450 N  
 FY = 30450 N  
 FZ = 7670 N\*\*

### Maximum moments

MX = 1780 Nm  
 MY = 1780 Nm  
 MZ = 388 Nm

MINIMUM EMPTY TORQUE

3.5 Nm

### Recommended loads

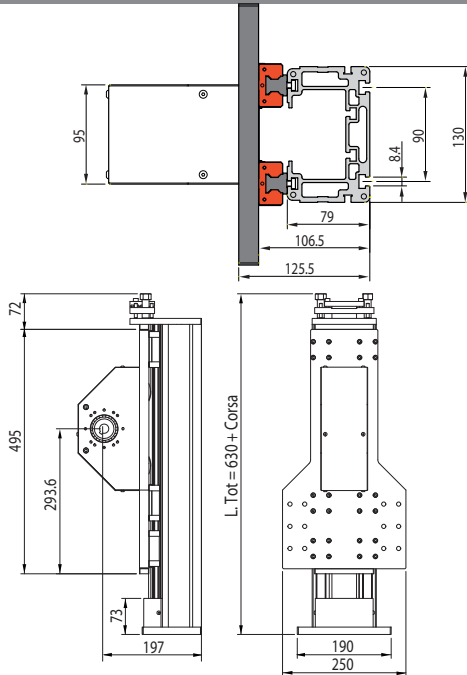
FX = 6090 N  
 FY = 6090 N  
 FZ = 3835 N

### Recommended moments

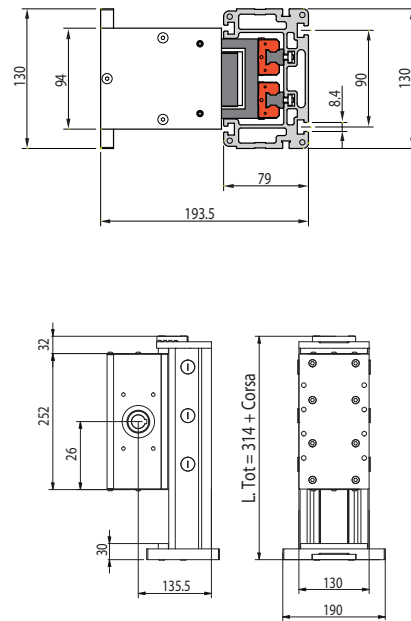
MX = 356 Nm  
 MY = 356 Nm  
 MZ = 77 Nm

\*\* The belt breaking load is 30685 N.

## AGZ130



## AGZ130C

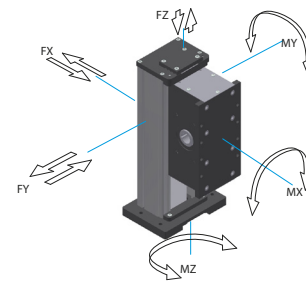
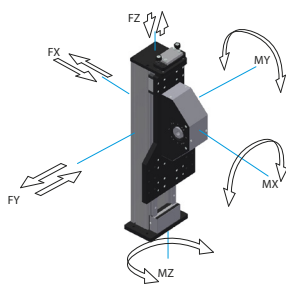


### Technical features

No. of shoes	6
Positioning repeatability	+/- 0.1 mm
Max speed	2.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 32 mm
Pitch diameter	Ø 76.39mm
Pulley	Z24 AT10
Belt	AT10 50
Travel mass 0 mm	20.698 Kg
Travel mass every 100 mm	1.25 Kg

### Technical features

No. of shoes	6
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 32 mm
Pitch diameter	Ø 76.39mm
Pulley	Z24 AT10
Belt	AT10 50
Travel mass 0 mm	14.425 Kg
Travel mass every 100 mm	1.12 Kg



### Maximum loads

FX = 62040 N	MX = 10100 Nm
FY = 62040 N	MY = 10100 Nm
FZ = 7670 N *	MZ = 2915 Nm

MINIMUM EMPTY TORQUE 3.7 Nm

### Recommended loads

FX = 12408 N	MX = 2020 Nm
FY = 12408 N	MY = 2020 Nm
FZ = 3835 N	MZ = 583 Nm

\* The belt breaking load is 30685 N.

### Maximum loads

FX = 25740 N	MX = 1894 Nm
FY = 25740 N	MY = 1894 Nm
FZ = 7670 N**	MZ = 515 Nm

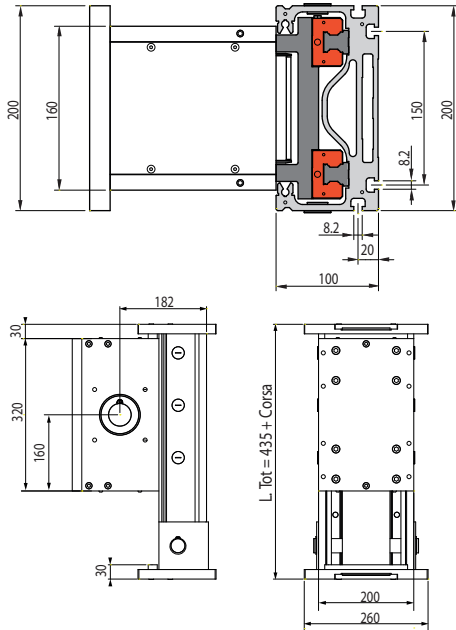
MINIMUM EMPTY TORQUE - Nm

### Recommended loads

FX = 5148 N	MX = 379 Nm
FY = 5148 N	MY = 379 Nm
FZ = 3677 N	MZ = 103 Nm

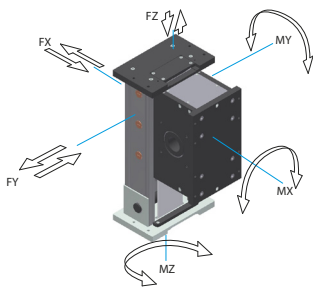
\*\* The belt breaking load is 30685 N.

## AGZ200



### Technical features

No. of shoes	6
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 47 mm
Pitch diameter	Ø 101.86mm
Pulley	Z32 AT10
Belt	AT10 100
Travel mass 0 mm	46.051 Kg
Travel mass every 100 mm	2.17 Kg



### Maximum loads

FX = 75000 N  
 FY = 75000 N  
 FZ = 16625 N \*

### Maximum moments

MX = 6000 Nm  
 MY = 6000 Nm  
 MZ = 4875 Nm

### MINIMUM EMPTY TORQUE

2.5 Nm

### Recommended loads

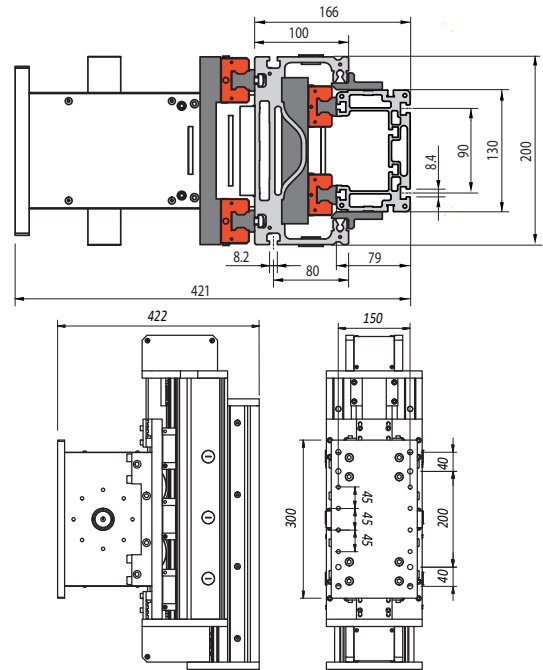
FX = 15000 N  
 FY = 15000 N  
 FZ = 8310 N

### Recommended moments

MX = 1200 Nm  
 MY = 1200 Nm  
 MZ = 975 Nm

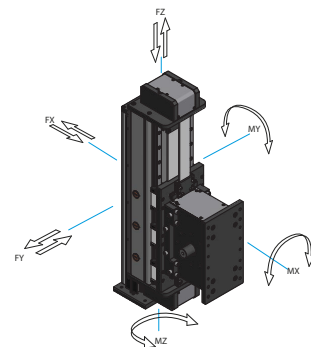
\* The belt breaking load is 63175 N.

## AGZ200T (TELESCOPIC)



### Technical features

No. of shoes	6+6
Positioning repeatability	+/- 0.1 mm
Max speed	4 m/sec
Complete male shaft	Ø 30 - 35 mm
Pitch diameter	Ø 101.86mm
Pulley	Z32 AT10
Belts	AT10 50 and AT10 75
Travel mass 0 mm	58.141 Kg
Travel mass every 100 mm	1.726 Kg



### Maximum loads

FX = 38280 N  
 FY = 38280 N  
 FZ = 7670 N\*\*

### Maximum moments

MX = 3368 Nm  
 MY = 3368 Nm  
 MZ = 1800 Nm

### MINIMUM EMPTY TORQUE

3.7 Nm

### Recommended loads

FX = 7656 N  
 FY = 7656 N  
 FZ = 3835 N

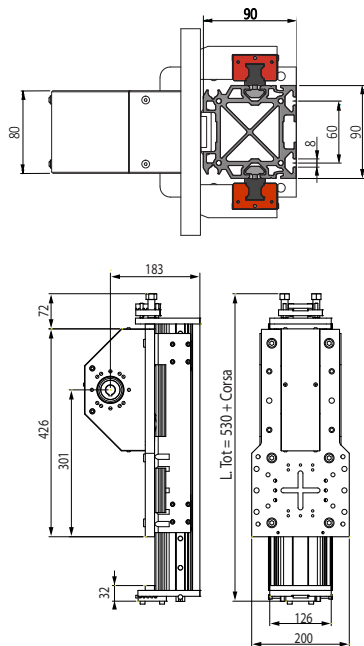
### Recommended moments

MX = 673 Nm  
 MY = 673 Nm  
 MZ = 360 Nm

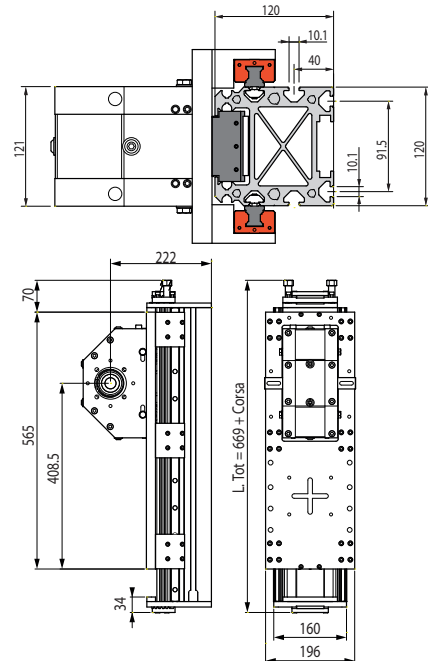
\*\* The belt breaking load is 30685 N.



## ELGZ90



## ELGZ120

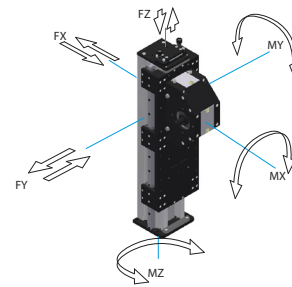
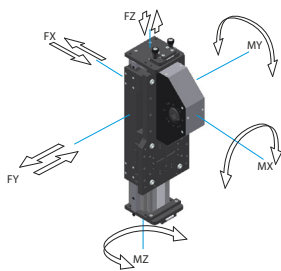


### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 19 - 25 mm
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39mm
Pulley	Z30 RPP8
Belt	RPP8 30
Travel mass 0 mm	22.189 Kg
Travel mass every 100 mm	1.23 Kg

### Technical features

No. of shoes	6
Positioning repeatability	+/- 0.1 mm
Max speed	2.5 m/sec
Complete male shaft	Ø 25 mm
Pitch diameter	Ø 76.39mm
Pulley	Z30 RPP8
Belt	RPP8 60
Travel mass 0 mm	29.899 Kg
Travel mass every 100 mm	1.76 Kg



### Maximum loads

### Maximum moments

FX = 62040 N	MX = 8660 Nm
FY = 47700 N	MY = 8660 Nm
FZ = 4510 N *	MZ = 3940 Nm

### MINIMUM EMPTY TORQUE

- Nm

### Recommended loads

### Recommended moments

FX = 12408 N	MX = 1732 Nm
FY = 9540 N	MY = 1732 Nm
FZ = 2550 N	MZ = 788 Nm

\* The belt breaking load is 18050 N.

### Maximum loads

### Maximum moments

FX = 62040 N	MX = 10220 Nm
FY = 47720 N	MY = 10220 Nm
FZ = 7670 N**	MZ = 4680 Nm

### MINIMUM EMPTY TORQUE

4.2 Nm

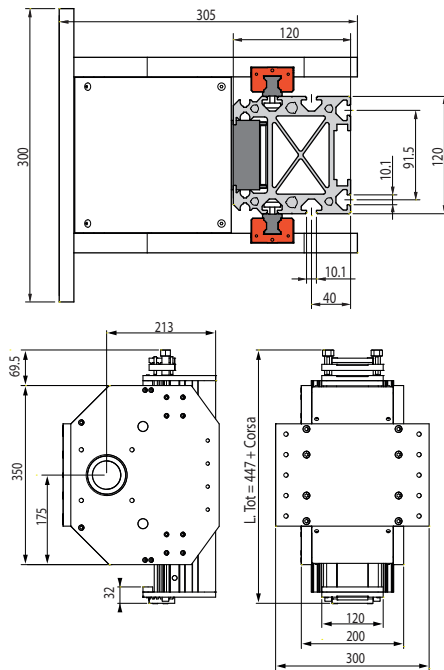
### Recommended loads

### Recommended moments

FX = 12408 N	MX = 2044 Nm
FY = 9544 N	MY = 2044 Nm
FZ = 3835 N	MZ = 936 Nm

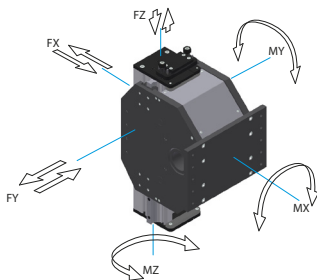
\*\* The belt breaking load is 30685 N.

## ELGZ120C



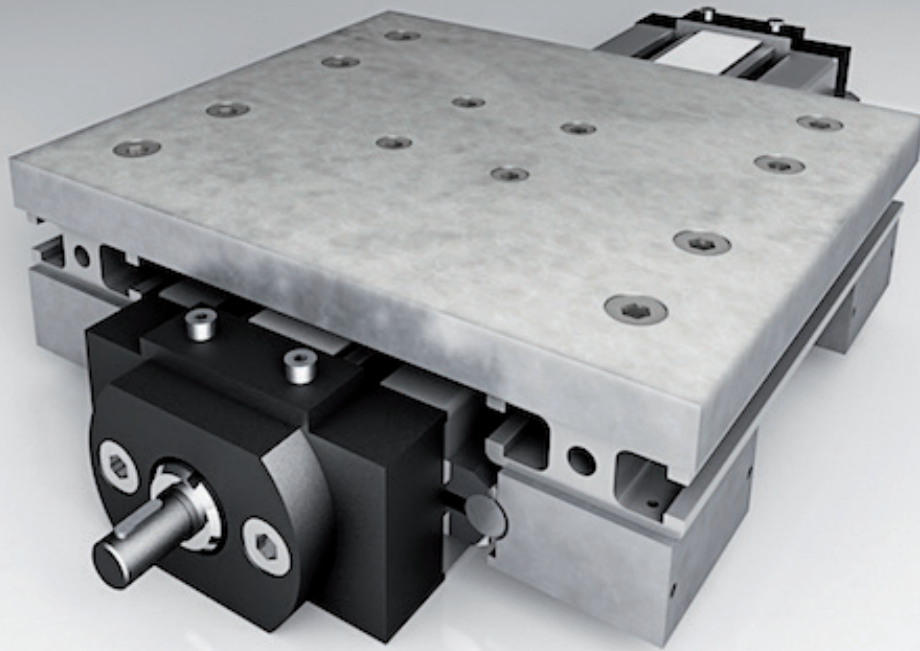
## Technical features

No. of shoes	4
Positioning repeatability	+/- 0.1 mm
Max speed	4.5 m/sec
Standard hole with tab seat	Ø 32 - 47 - 55 mm
Pitch diameter	Ø 91.67mm
Pulley	Z36 RPP8
Belt	RPP8 60
Travel mass 0 mm	31.111 Kg
Travel mass every 100 mm	1.70 Kg



Maximum loads	Maximum moments
FX = 60000 N	MX = 8010 Nm
FY = 60000 N	MY = 8010 Nm
FZ = 9020 N *	MZ = 4350 Nm
MINIMUM EMPTY TORQUE	4.2 Nm
Recommended loads	Recommended moments
FX = 12000 N	MX = 1602 Nm
FY = 12000 N	MY = 1062 Nm
FZ = 4510 N	MZ = 870 Nm

\*The belt breaking load is 36822 N.



## LINEAR MODULES SCREW DRIVEN

### Sliding wheels/ ELV Series

The ELV series is characterized by sliding on wheels and drive through trapezoidal screw. It is indicated for all those applications where particular positioning precision and high dynamics are not required.

The ELVC series with right/left trapezoidal screw allows a single motor to obtain a counterposed movement of the cars.

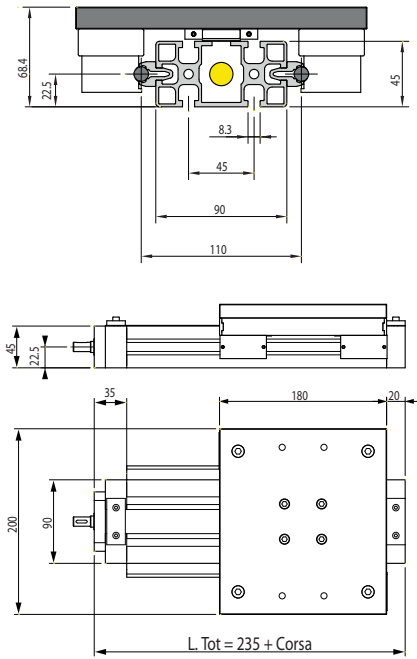
#### OPTIONS

- motor connection preparation
- additional holes
- fixing accessories
- possibility of anti-corrosion treatments

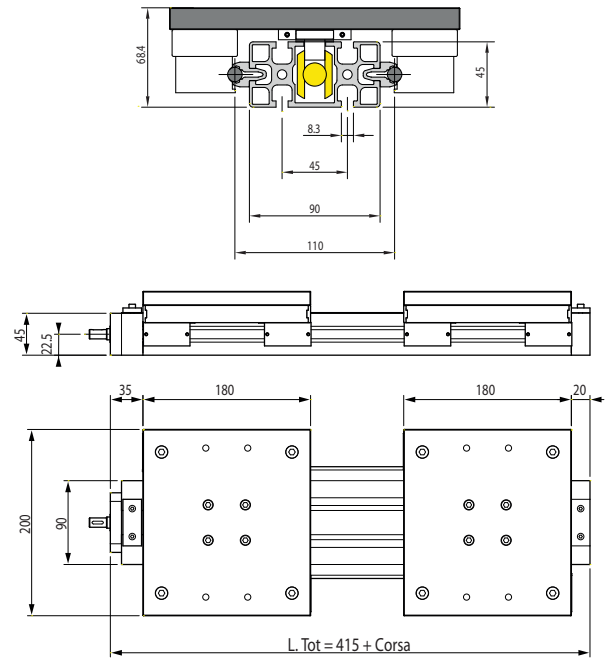
All linear modules are supplied assembled, without motors.

N.B. All linear modules can be customized according to customer specifications. This catalogue shows the standards available in stock and the data may be subject to change without notice. Always contact the technical department to verify the application.

## ELV



## ELVC

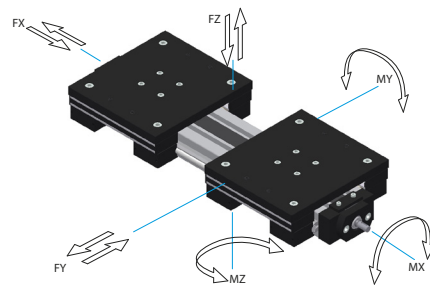
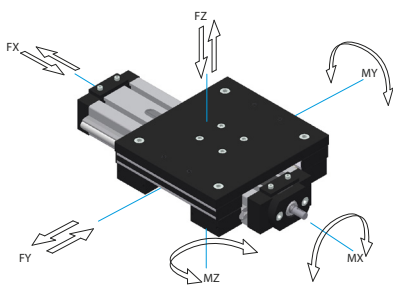


### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.5 mm
Shank diameter	Ø 10 mm
Screw	TPN 16x4
Travel mass 0 mm	4.103 Kg
Travel mass every 100 mm	0.49 Kg

### Technical features

No. of wheels	4
Positioning repeatability	+/- 0.5 mm
Shank diameter	Ø 10 mm
Screw	TPN 16x4
Travel mass 0 mm	7.546 Kg
Travel mass every 100 mm	0.49 Kg



### Maximum loads

FX = - N	MX = 140 Nm
FY = 2100 N	MY = 120 Nm
FZ = 1200 N	MZ = 220 Nm

### MINIMUM EMPTY TORQUE

0.2 Nm

### Recommended loads

FX = - N	MX = 28 Nm
FY = 420 N	MY = 24 Nm
FZ = 240 N	MZ = 44 Nm

### Maximum loads

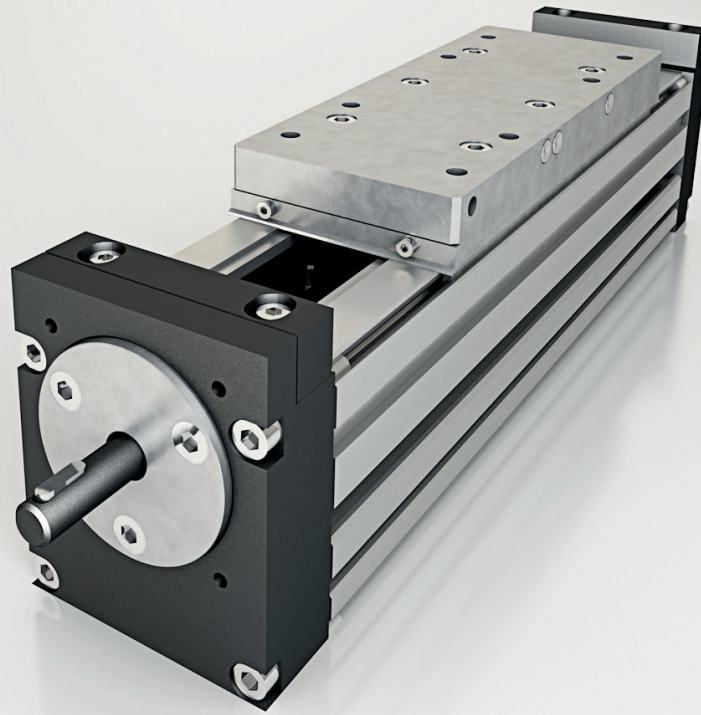
FX = - N	MX = 140 Nm
FY = 2100 N	MY = 120 Nm
FZ = 1200 N	MZ = 220 Nm

### MINIMUM EMPTY TORQUE

0.2 Nm

### Recommended loads

FX = - N	MX = 28 Nm
FY = 420 N	MY = 24 Nm
FZ = 240 N	MZ = 44 Nm



## LINEAR MODULES SCREW DRIVEN

### Recirculating ball slide/AGV-AG2V Series

The AGV series, with an extruded section varying from 50 to 200mm, is suitable when important positioning and repeatability accuracy is required. The standard screw is ISO7 rolled with a reduced-play thread and the car slides on recirculating ball guides by means of two/four sliders depending on the type of profile.

The choice between different pitches, precision and screw preload is provided.

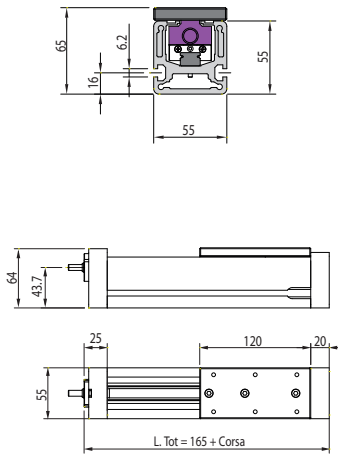
#### OPTIONS

- motor connection preparation
- additional holes
- fixing accessories
- possibility of anti-corrosion treatments

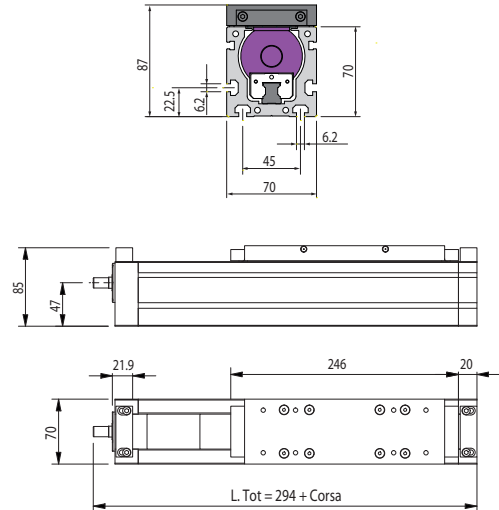
All linear modules are supplied assembled, without motors.

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## AGV55



## AGV70

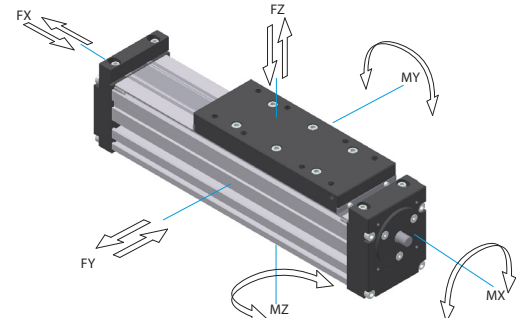
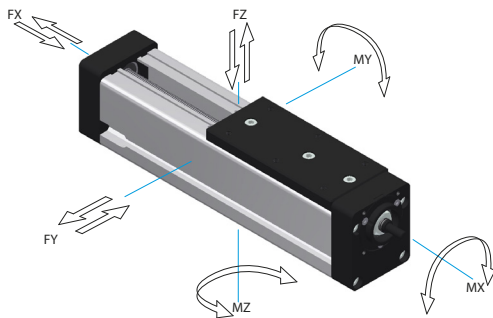


## Technical features

No. of shoes	1
Positioning repeatability	+/- 0.07 mm
Shank diameter	Ø 6 - 6.35 mm
Screw	D.10 P3
Travel mass 0 mm	1.496 Kg
Travel mass every 100 mm	0.47 Kg

## Technical features

No. of shoes	2
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 11 mm
Screw	D.16 P5 / P10
Travel mass 0 mm	4.623 Kg
Travel mass every 100 mm	0.71 Kg



## Maximum loads

FX = 2300 N

FY = 6370 N

FZ = 6370 N

## Maximum moments

MX = 73.5 Nm

MY = 57.8 Nm

MZ = 57.8 Nm

## MINIMUM EMPTY TORQUE

0.1 Nm

## Recommended loads

FX = 460 N

FY = 1274 N

FZ = 1274 N

## Recommended moments

MX = 14.7 Nm

MY = 11.5 Nm

MZ = 11.5 Nm

## Maximum loads

FX = 12300 N

FY = 12775 N

FZ = 12775 N

## Maximum moments

MX = 123 Nm

MY = 881 Nm

MZ = 881 Nm

## MINIMUM EMPTY TORQUE

0.2 Nm

## Recommended loads

FX = 2460 N

FY = 2555 N

FZ = 2555 N

## Recommended moments

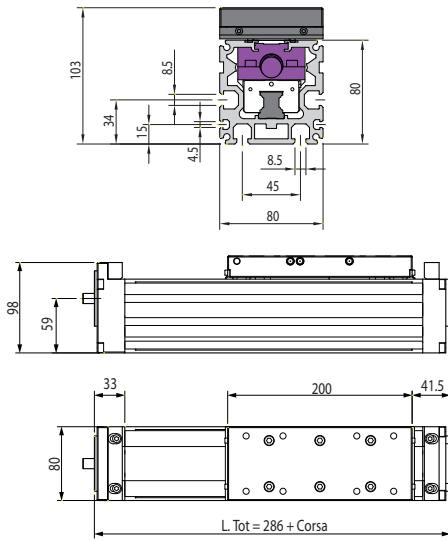
MX = 24.6 Nm

MY = 176.2 Nm

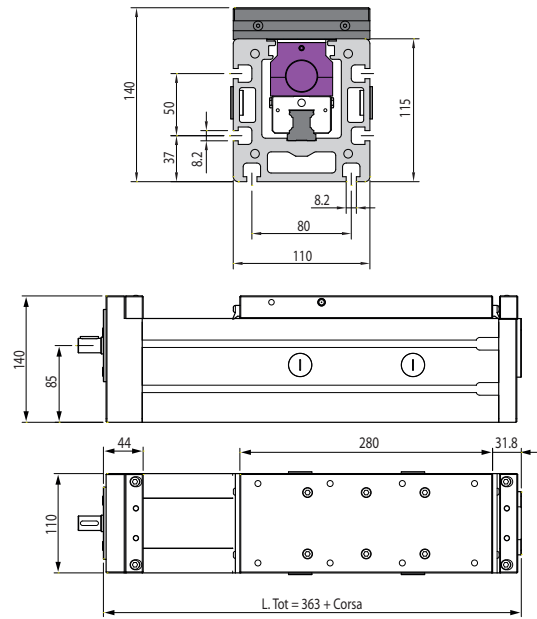
MZ = 176.2 Nm



## AGV80



## AGV110

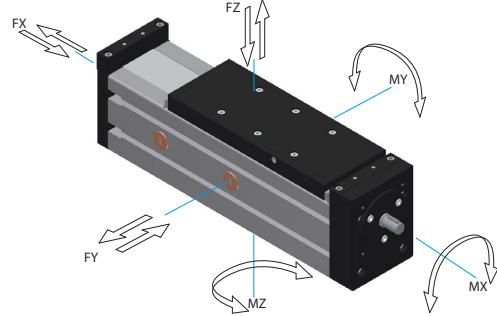
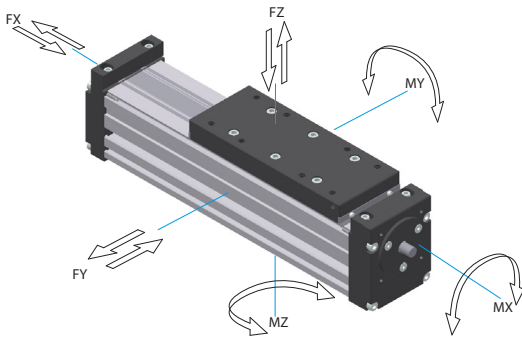


### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 11 mm
Screw	D.16 P5 / P10
Travel mass 0 mm	5.011 Kg
Travel mass every 100 mm	0.93 Kg

### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 16 mm
Screw	D.25 P5 / P10
Travel mass 0 mm	11.926 Kg
Travel mass every 100 mm	2.01 Kg



### Maximum loads

### Maximum moments

FX = 12300 N	MX = 246 Nm
FY = 18792 N	MY = 1371 Nm
FZ = 18792 N	MZ = 1371 Nm

### MINIMUM EMPTY TORQUE

0.2 Nm

### Recommended loads

### Recommended moments

FX = 2460 N	MX = 49.2 Nm
FY = 3758 N	MY = 274.2 Nm
FZ = 3758 N	MZ = 274.2 Nm

### Maximum loads

### Maximum moments

FX = 15900 N	MX = 531 Nm
FY = 37065 N	MY = 3650 Nm
FZ = 37065 N	MZ = 3650 Nm

### MINIMUM EMPTY TORQUE

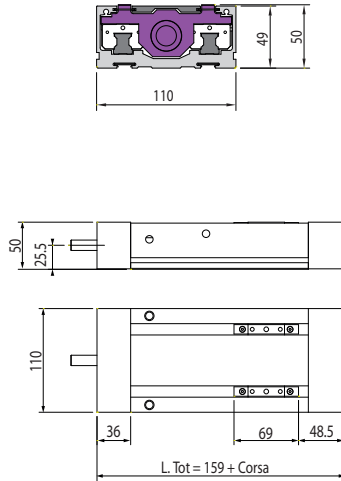
0.32 Nm

### Recommended loads

### Recommended moments

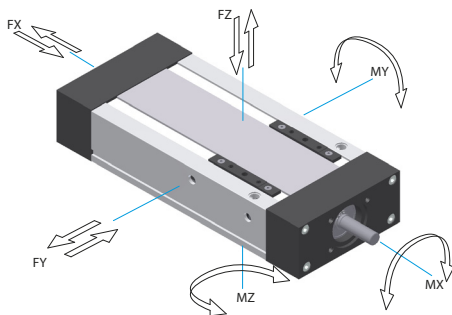
FX = 3180 N	MX = 106.2 Nm
FY = 7413 N	MY = 730 Nm
FZ = 7413 N	MZ = 730 Nm

AG2V110



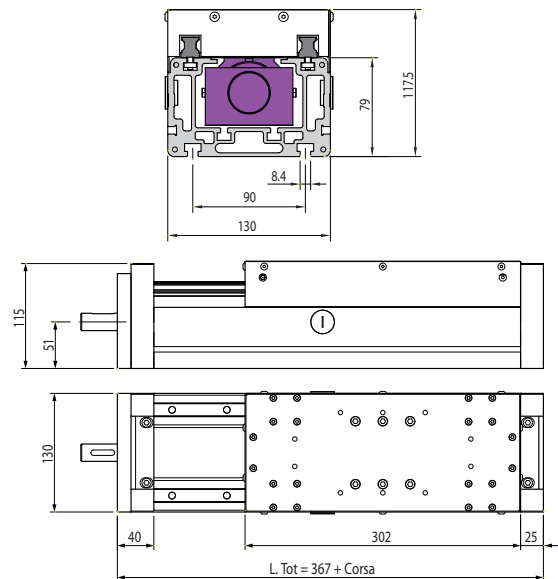
## Technical features

No. of shoes	2
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 11 mm
Screw	D.16 P5 / P10
Travel mass 0 mm	2.687 Kg
Travel mass every 100 mm	0.90 Kg



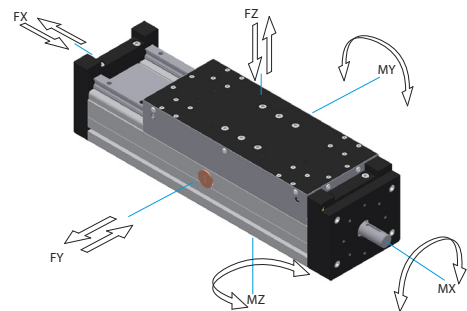
Maximum loads	Maximum moments
FX = 12300 N	MX = 437 Nm
FY = 12778 N	MY = 88 Nm
FZ = 12778 N	MZ = 437 Nm
MINIMUM EMPTY TORQUE	0.2 Nm
Recommended loads	Recommended moments
FX = 2460 N	MX = 87.4 Nm
FY = 2555 N	MY = 17.6 Nm
FZ = 2555 N	MZ = 87.4 Nm

AG2V130



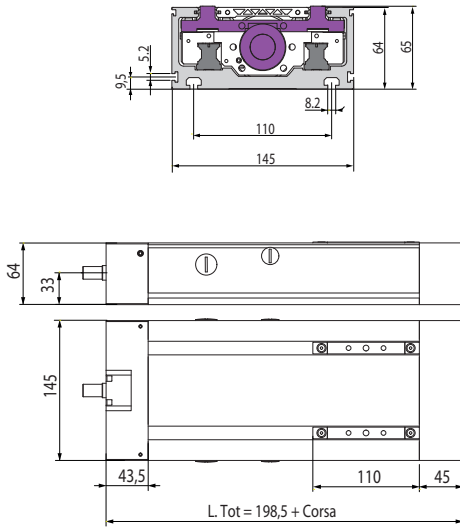
## Technical features

No. of shoes	4
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 19 mm
Screw	D.32 P5 / P10
Travel mass 0 mm	10.468 Kg
Travel mass every 100 mm	1.24 Kg

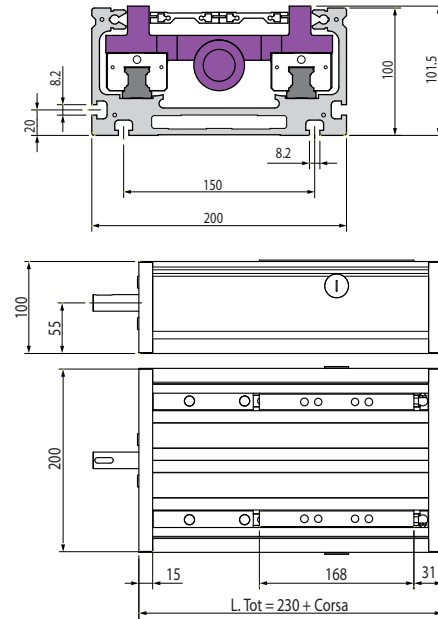


Maximum loads	Maximum moments
FX = 31700 N	MX = 978 Nm
FY = 20824 N	MY = 2228 Nm
FZ = 20824 N	MZ = 2228 Nm
MINIMUM EMPTY TORQUE	0.4 Nm
Recommended loads	Recommended moments
FX = 6340 N	MX = 193.4 Nm
FY = 4164 N	MY = 445.6 Nm
FZ = 4164 N	MZ = 445.6 Nm

## AG2V145



## AG2V200

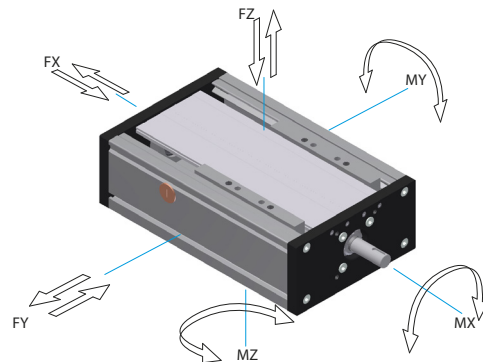
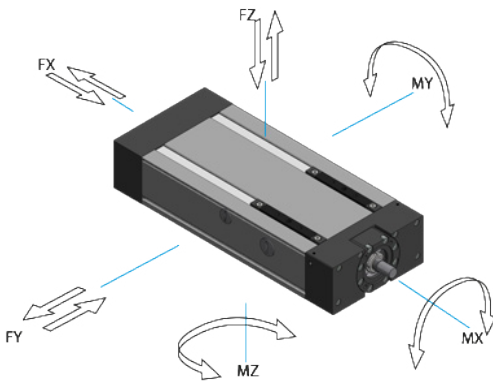


### Technical features

No. of shoes	2
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 13 mm
Screw	D.25 P5 / P10
Travel mass 0 mm	5.112 Kg
Travel mass every 100 mm	1.5 Kg

### Technical features

No. of shoes	4
Positioning repeatability	+/- 0.05 mm
Shank diameter	Ø 18 mm
Screw	D.25 P5 / P10
Travel mass 0 mm	8.602 Kg
Travel mass every 100 mm	2.16 Kg



### Maximum loads

FX = 15900 N	MX = 1304 Nm
FY = 30326 N	MY = 259 Nm
FZ = 30326 N	MZ = 1304 Nm

### MINIMUM EMPTY TORQUE

0.25 Nm

### Recommended loads

FX = 3180 N	MX = 260 Nm
FY = 6065 N	MY = 51.8 Nm
FZ = 6065 N	MZ = 260 Nm

### Maximum loads

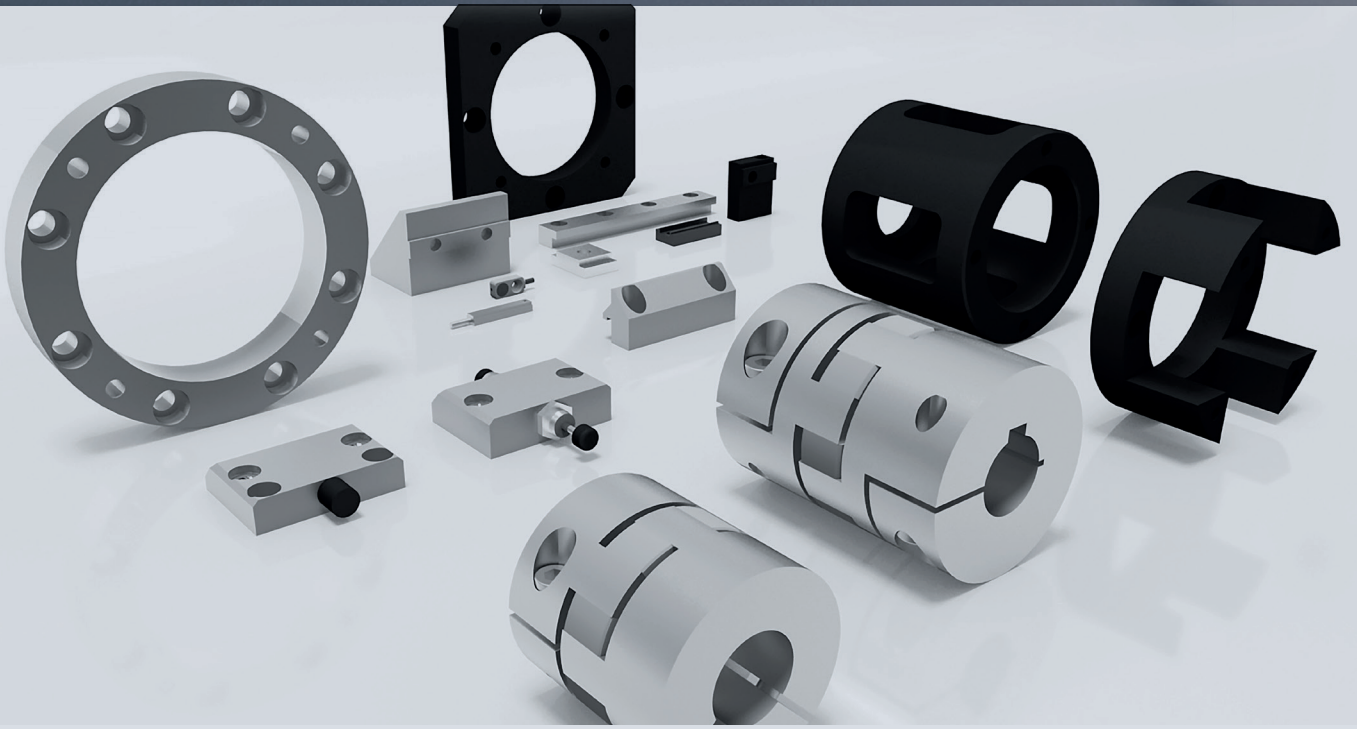
FX = 15900 N	MX = 3896 Nm
FY = 60403 N	MY = 2896 Nm
FZ = 60403 N	MZ = 2896 Nm

### MINIMUM EMPTY TORQUE

0.35 Nm

### Recommended loads

FX = 3180 N	MX = 779 Nm
FY = 12080 N	MY = 579 Nm
FZ = 12080 N	MZ = 579 Nm



## ACCESSORIES

All linear modules have specific accessories and optionals for each type of module.

Details of each component are on our website [www.dierre.eu](http://www.dierre.eu)

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