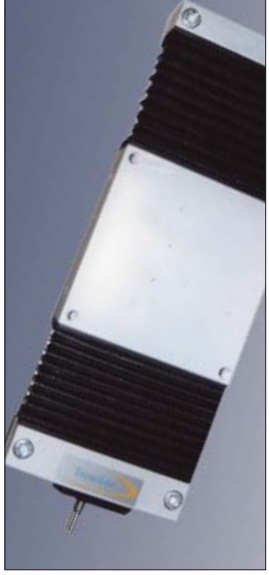




Tecnoline
Advanced technology in linear motion

Linear Guidance Systems

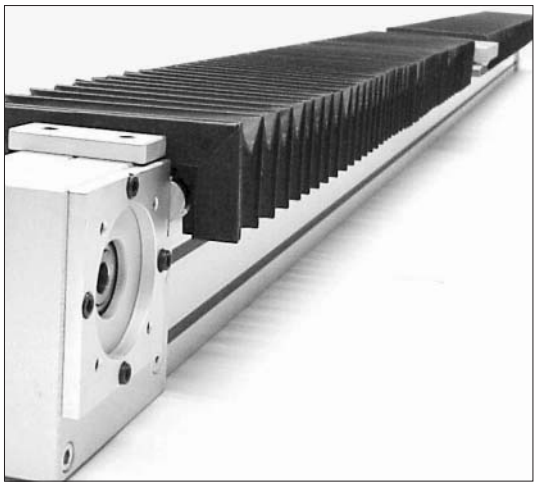
Cat.Guide0604/EN

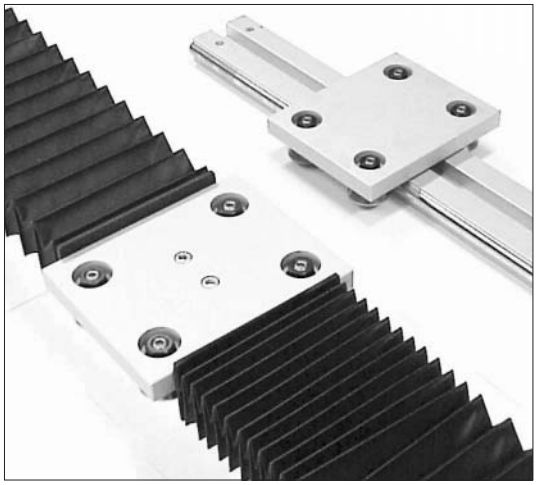
CONTENTS

GD - GS Series. Linear guidance system

The track roller systems **GD** and **GS** are easy to install and offer economical solutions to most linear motion problems.
The clearance between the track rollers and the rail is adjustable to achieve either very smooth movement, under light loads, or increased rigidity under heavier loads.
This is achieved by using eccentric bolts to adjust the track rollers. An additional benefit of this system is its relative insensitivity to contamination, such as dust, metal chips, etc. The track rollers are protected by integral seals.
The main characteristics of these systems are:

- High positioning accuracy
- Long life
- High linear speed
- Low noise operation
- Possibility to operate without lubrication
- Maintenance free
- High resistance to contaminants
- Interchangeability and ease of installation
- Versatility in different applications





GD Series Linear guidance system

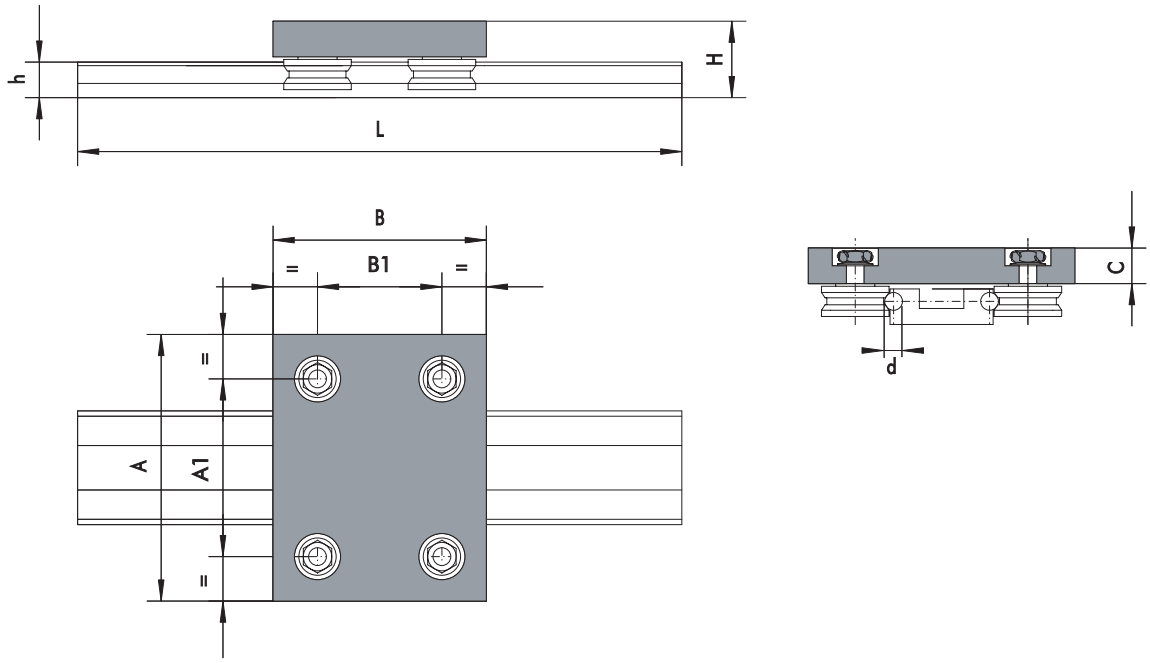


Fig. 1

GD Series Linear guidance system

The system **GD** is composed of a rail and a carriage.
The rails is made from an extruded aluminium profile, clear anodized as standard, in which two hardened chrome plated precision ground shafts, with h7 tolerance are inserted via a rolling process.
The maximum rail length is 6000 mm.
The carriage is made from anodized aluminium (steel can be had upon request), and four track rollers NIKO® with "V" groove profile on outer ring (120°), two mounted with eccentric studs and two with concentric studs.
Table n° 1 shows the designations and the dimensions of the standard systems.
For any questions regarding special types or calculations, please contact our engineering department.

Table n°1

Series	Dimensions								Components		
	A	A1	B	B1	C	H	dH7	h	Rails	Carriage	Track Roller
GD 6	80	51	60	31	8	21	6	12	GD6	C6	17E+17C
GD10A	120	83	80	41	10	31	10	20	GD10	C10A	22E+22C
GD10B	140	90.5	120	70	15	37	10	20	GD10	C10B	30E+30C
GD10C	150	98.5	120	70	20	44	10	20	GD10	C10C	38E+38C
GD20A	180	126	150	90	20	51	20	30	GD20	C20A	41E+41C
GD20B	200	142	180	100	25	61.5	20	30	GD20	C20B	58E+58C
GDX20	300	195	200	120	30	66.5	20	30	GDX20	C20X	58E+58C

GDS 10 Series Linear guidance systems

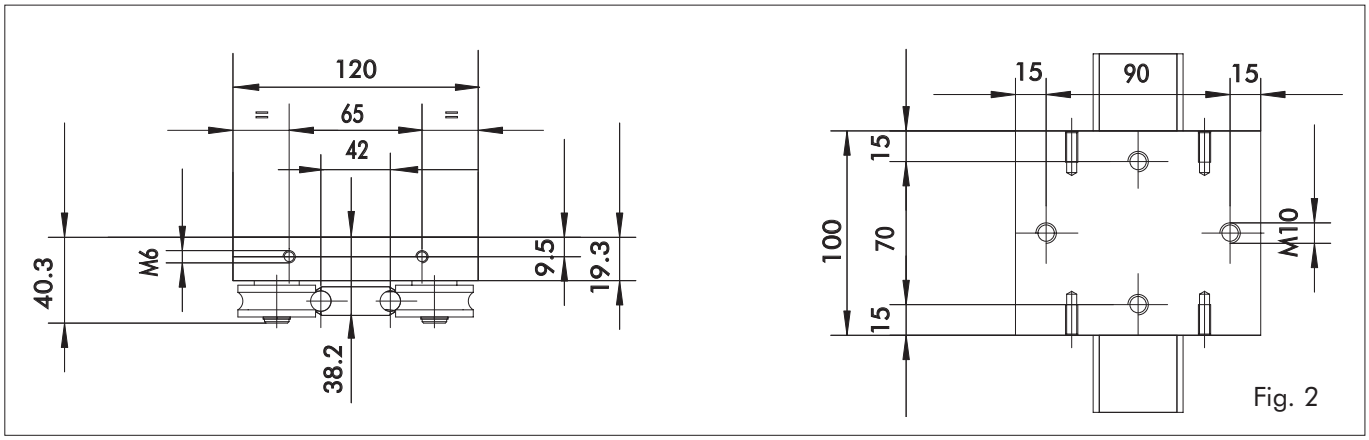


Fig. 2

GDS 10 Series Linear guidance systems

The system **GDS** differs from the system **GD** for its compact design, reduced dimensions and for rolling under ligth loads conditions. The system is composed of a rail and a carriage. The rail is made from extruded aluminium profile, clear anodized as standard in which two hardened chrome plated precision ground shafts with h7 tolerance are inserted via a rolling process. The maximum rail lenght is 6000 mm. The carriage is made from anodized aluminium (steel can be had upon request), and four track rollers NIKO® "V" groove profile on outer ring with an angle of 120 degrees, two mounted with eccentric studs and two with concentric studs types RPC35 and RPE35 (see page 23, fig. 32).

GS Series Linear guidance systems

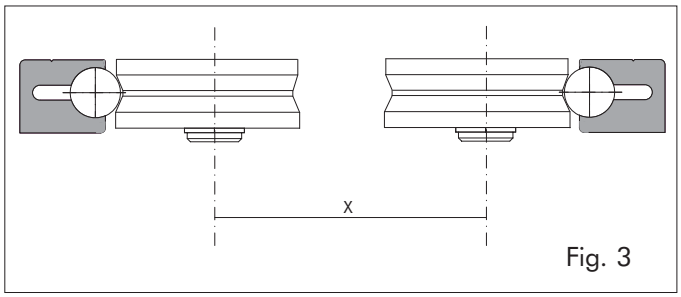


Fig. 3

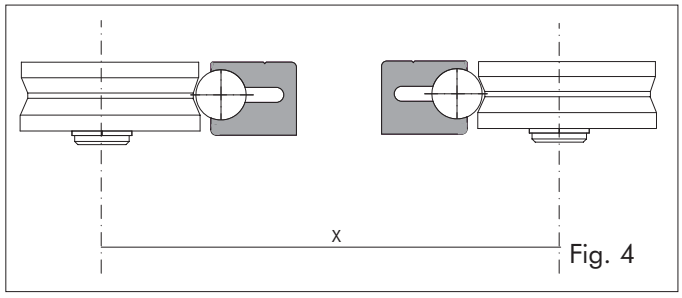


Fig. 4

GS Series Linear guidance systems

The system **GS** differs from the **GD** system in that the shaft is clamped into the extrusion, rather than inserted via a rolling process. The system **GS** can be used with the shafts mounted externally (fig.3) or internally (fig. 4) offering the customer more flexibility with their design. Guideways must be mounted parallel to each other for optimum performance. Table nr.2 shows the dimensions of the rail. The track rollers used for these systems are the same as in the system **GD**. The maximum rail lenght is 6000 mm.

Table n°2

Series	Dimensions					
	a	b	d_1	H	a1	b1
GS 10	14.5	17	10	20.5	8	6,3
GS 20	27	27	20	34.2	15	10

GS Profile shape

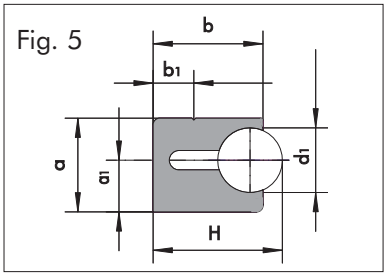


Fig. 5

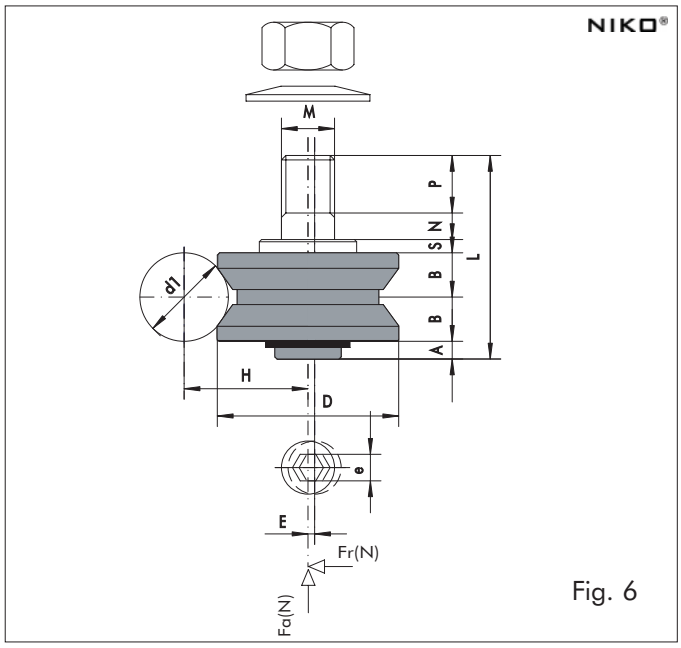


Fig. 6

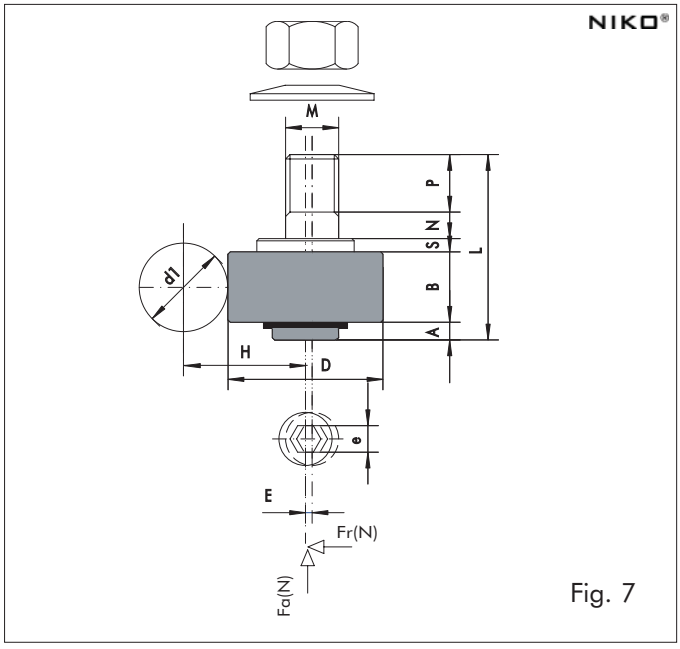


Fig. 7

GD/GS 10-20 Series Track roller for Linear guidance systems

The track rollers NIKO® used for **Tecnoline** systems are produced in bearing steel 100Cr 6 with "V" groove profile on outer ring with an angle of 120 degrees.
This guarantees a smooth, low friction movement and a good distribution of the radial load.
The structure of the "V" groove track roller with two rows of steel balls corresponds to the structure of the angular contact bearings.
The track roller can bear axial loads from both directions. Each size is available with either the concentric or the eccentric stud.
During installation the concentric bolts must be secured first, to guarantee the parallelism between carriage and rail.
The eccentric one are then set to the proper clearance/ preload. (see fig.6).

Table n°3

Track Roller	Rail	Dimensions												Axial Load Fa (N)	Radial Load Fr (N)
		A	B	S	N	P	L	M	H	D	E	e	d_1		
22C	**GD10A**	2.5	5.5	2.5	4	5.5	25.5	6	14.5	22	-	2	10	292	292
22E	**GD10A**	2.5	5.5	2.5	4	5.5	25.5	6	14.5	22	1.5	2	10	292	292
30C	**GD10B**	3	7	2	5	9	33	8	18.3	30	-	3	10	387	960
30E	**GD10B**	3	7	2	5	9	33	8	18.3	30	1.5	3	10	387	960
38C	**GD10C**	3.5	8.5	2.5	8	12	43	10	22.3	38	-	5	10	552	1225
38E	**GD10C**	3.5	8.5	2.5	8	12	43	10	22.3	38	2	5	10	552	1225
41C	**GD20A**	4	10	3	6	13	46	12	28	41	-	5	20	836	1680
41E	**GD20A**	4	10	3	6	13	46	12	28	41	2	5	20	836	1680
58C	**GD20B**	4	12.5	6	11	13	59	16	35	58	-	6	20	4238	4238
58E	**GD20B**	4	12.5	6	11	13	59	16	35	58	2.5	6	20	4238	4238

Stud Type Track Rollers

In some applications track rollers NIKO® with cylindrical ring are used to compensate for misalignement or lack of rigidity of the supporting structure. Table n.4 shows the dimensions of the track rollers including their max loads. (see fig. 7)

Table n°4

Track Roller	Rail	Dimensions												Axial load Fa (N)	Radial load Fr (N)
		A	B	S	N	P	L	M	H	D	E	e	d_1		
34A	**GD10**	2	17	3	4	15	41	10	22	34	1	5	10	-	1300
36A	**GD20**	0,5	20	3	4	15	42.5	12	28	36	1	5	20	-	1600
50A	**GD20**	2,5	25	6.5	10	14	58	16	35	50	1.5	8	20	-	3500

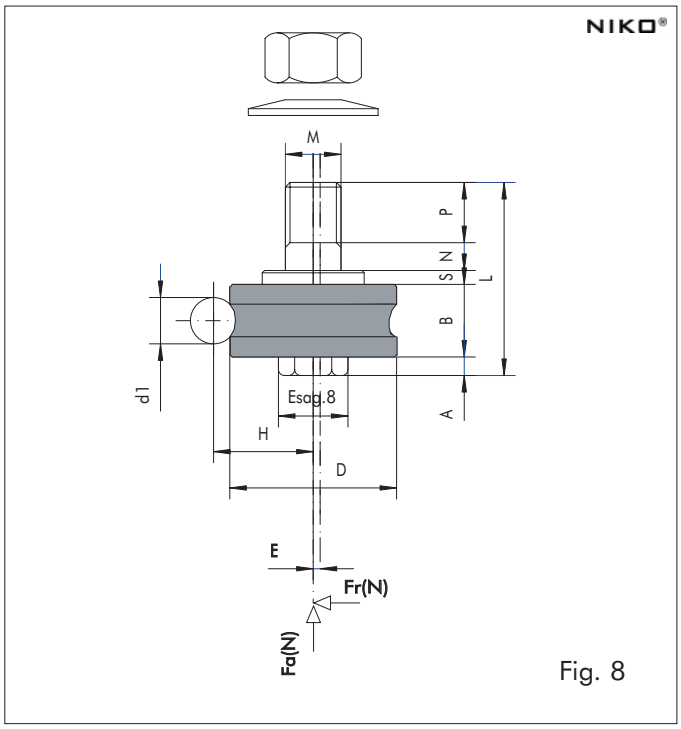


Fig. 8

Track rollers for GD6 Linear guidance systems

The track rollers type 17E and/or 17C used for the system GD6 are double row of balls track rollers with gothic arch profile on outer ring. Table n.5 shows their dimensions and their max allowable loads.

Table n°5

Track roller	Rail	Dimensions												Axial load Fa (N)	Radial load Fr (N)
		A	B	S	N	P	L	M	H	D	E	e	d_1		
17C	**GD6-GD6M**	2	8	1.5	2.5	4.5	18.5	4	10.5	17	-	-	6	256	520
17E	**GD6-GD6M**	2	8	1.5	2.5	4.5	18.5	4	10.5	17	0.5	-	6	256	520

GD10-GD20-GDS-GD6 Series Track roller Linear guidance systems

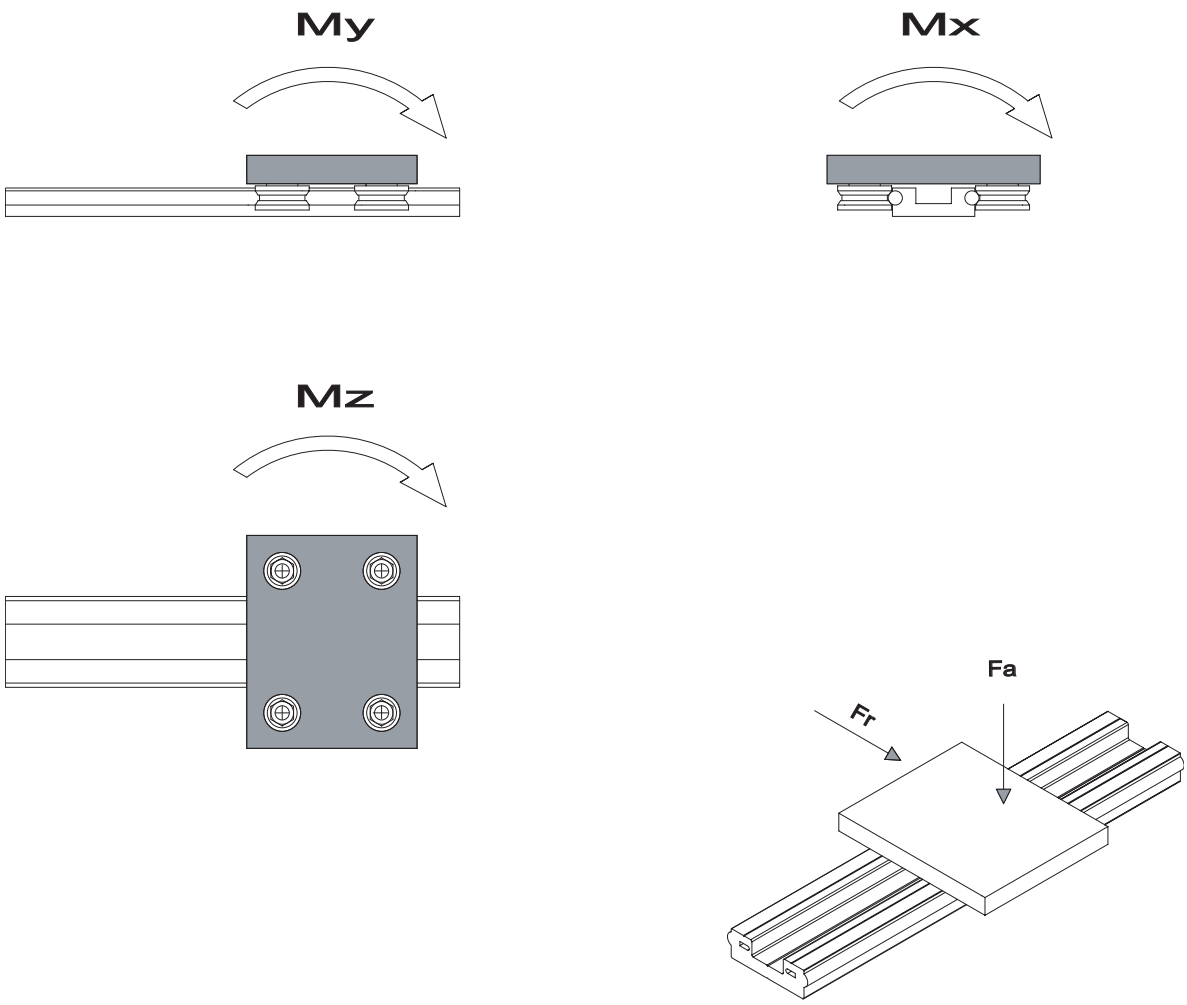


Fig. 9

GD10-GD20-GDS-GD6 Series Track roller Linear guidance systems

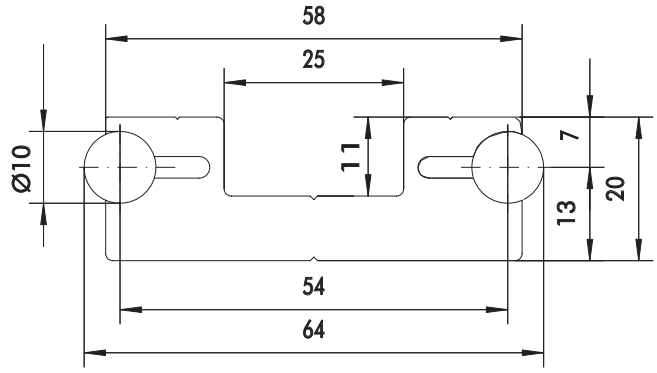
Systems **GD** and **GS** can support loads and moments on each axis.
Table n.6 shows the allowable values for each system.

Table n°6

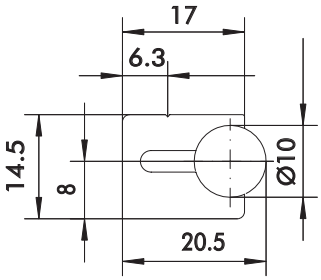
Components			Limit load (N)		Static moment (Nm)			Carriage mass (Kg)
Rail	Carriage	Track rollers	Fr	Fa	My	Mz	Mx	
GD10	**C10A**	**22C - 22E**	410	812	44	89	58	0.26
GD10	**C10B**	**30C - 30E**	1900	1600	166	332	128	0.62
GD10	**C10C**	**38C - 38E**	2650	2400	184	368	142	0.92
GD20	**C20A**	**41C - 41E**	3215	3200	343	633	267	1.34
GD20	**C20B**	**58C - 58E**	6980	6400	499	872	349	2.64
GDX20	**C20X**	**58C - 58E**	6980	6400	635	1046	550	7.54
GD6	**C6**	**17C - 17E**	1280	520	14	20	13	0.18
GDS10	**C10S**	**RPC35 - RPE35**	2320	1150	144	300	106	0.96

Profile Dimensions Table

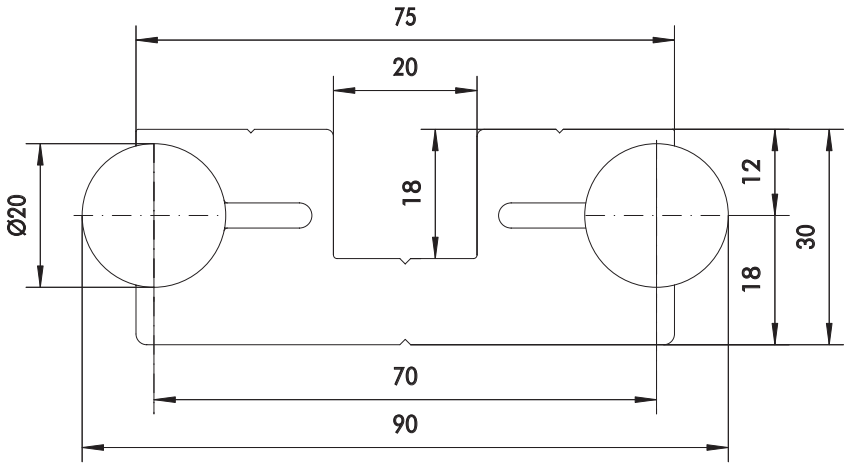
GD10



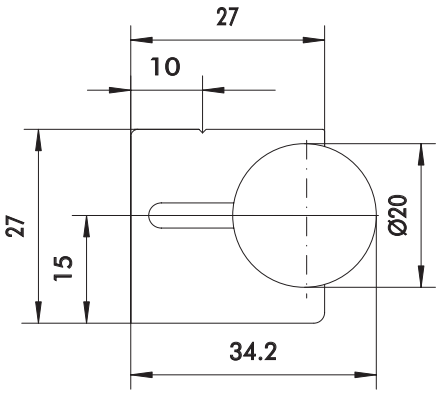
GS10



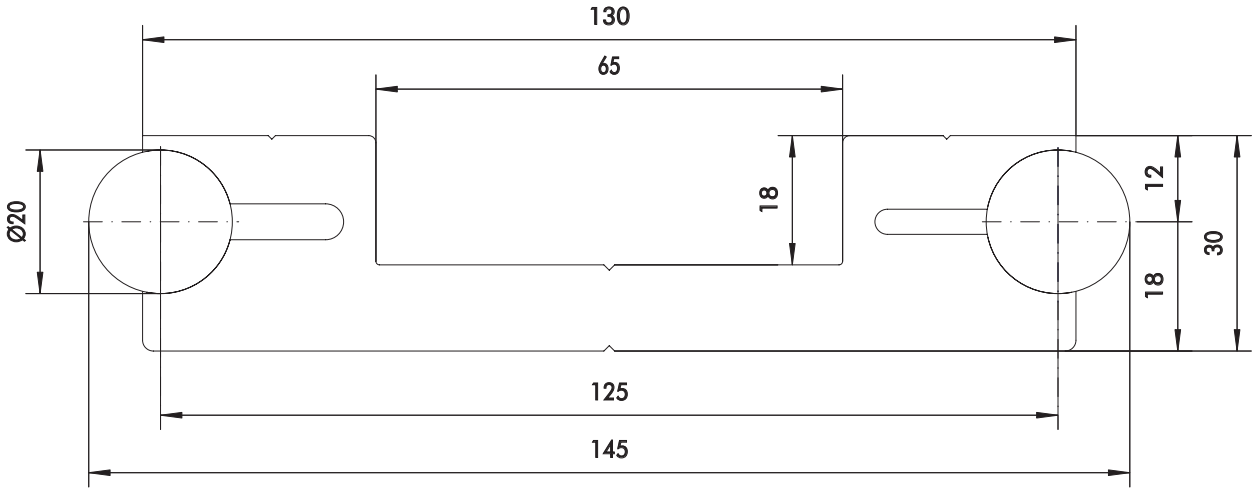
GD20



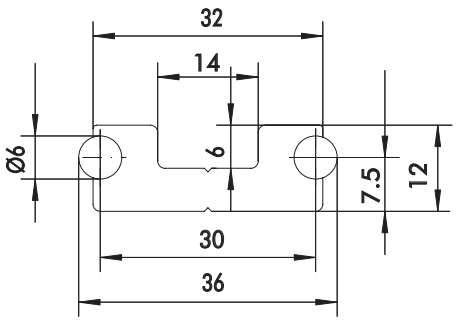
GS20



GDX20



GD6



GDS10

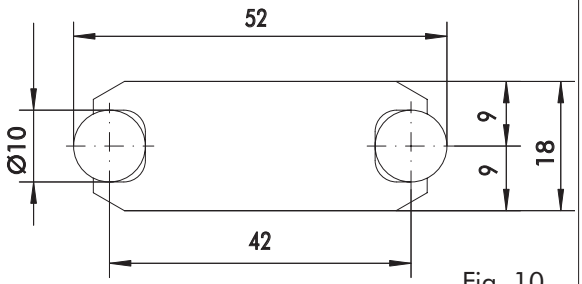
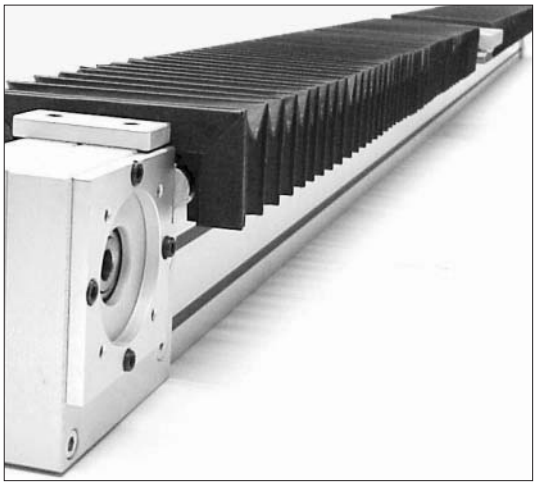
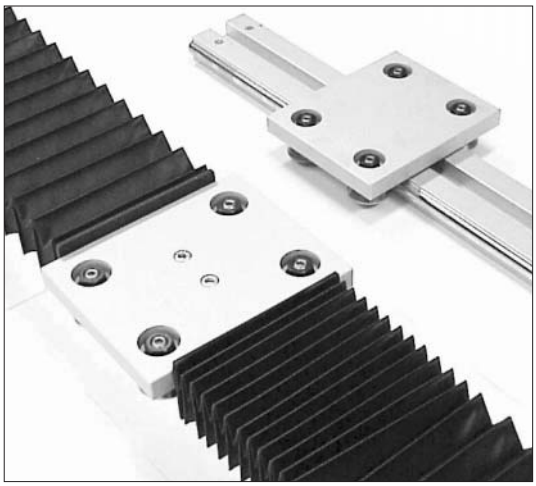


Fig. 10

Driven Track roller guidance systems

The driven track roller systems **GDM** are economical, easy to install and reliable in the automation of productive cycles in the linear motion. The vast range of driven track roller systems with their standard accessories or special accessories upon request offer solutions in speeds, loads and stroke requirements.
The track rollers systems **GDM** are composed of:





• **Driving head**
Clear anodized aluminium housing for the driving pulley, with standard or special drill/tapping on both ends for the application of the gearmotor.
• **Idle head**
Clear anodised aluminium housing for the mule pulley equipped with bearings and eccentric bolt for the adjustment of the tension of the transmission belt.
• **Supporting structure**
Special aluminium extrusion with beading braces, internal area for the running of the belt and crossing grooves on three sides of structure for the assembling with sensing devices, clumping brackets, stroke stop devices or for junctions to get a lenght >6000. The rail GD equipped with its carriage and belt fixing plate is placed on the upper side of the aluminium profile.
• **Carriage**
Clear anodised with standard dimensions aluminium plate complete with bolts and track rollers NIKO® and a plate for the fixing of the belt.
• **Drive belt**
Type AT pitch 10mm (belt type AT pitch 5mm for GD6), is a steel reinforced polyurethane toothed belt.
For special application chain or rack and pinion drive can be considered.
• **Special equipments**
Driven track rollers system GDM can be equipped with:
• Stainless steel shafts
• Steel carriages and/or non-standard dimensions
• Non-standard shafts for gear motor applications
• Adapter for gear motor
• Protection Bellows
• Customized engineering

GD10M-GD20M driven Track roller guidance systems

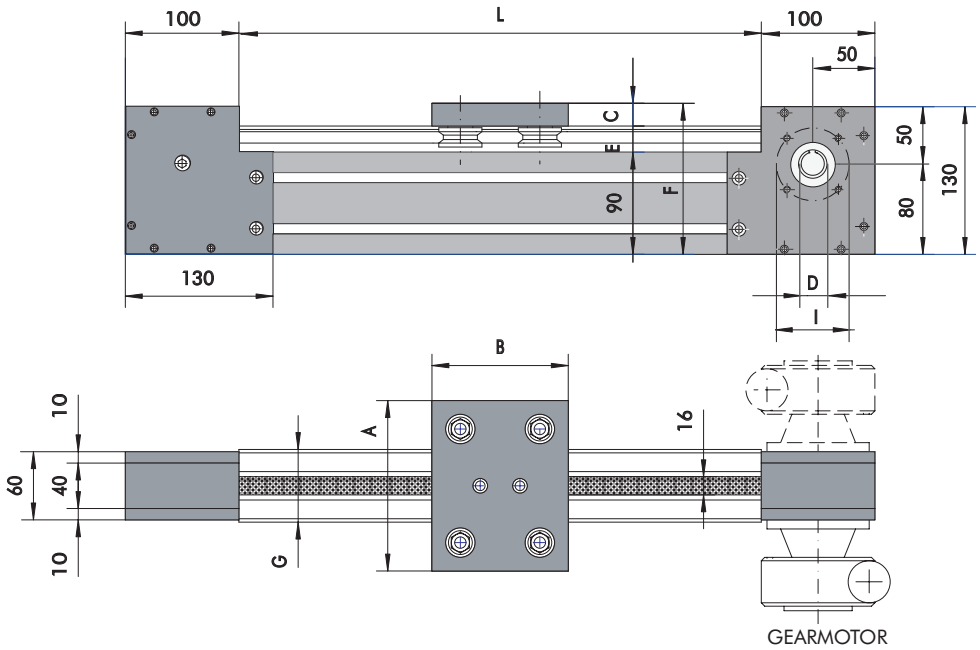


Fig. 11

GD10M-GD20M driven Track roller guidance systems

The belt driven track roller system **GDM** can be supplied from the factory with a gearmotor. Fig. n.11 and table n.7 show the dimensions and the types. Table n.8 shows the specifications for the standard gearmotors, diameters, number of holes, tapping type and locations and the specifications for the driving devices.
Fig. n.12 shows the dimensions of the fixing points on the main structure.

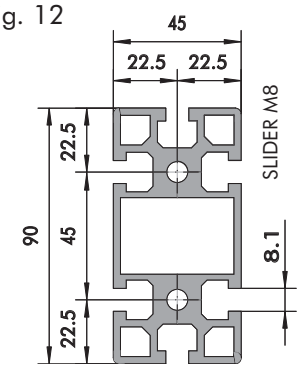
Table n°7

Type	Dimensions					
	A	**B**	**C**	**E**	**F**	**G**
GD 10AM	120	80	10	21	121	64
GD 10BM	140	120	15	22	127	64
GD 10CM	150	120	20	24	134	64
GD 20AM	180	150	20	31	141	90
GD 20BM	200	180	25	36.5	151.5	90

Table n°8

Gearmotor Type	Brand	Diameter øl	Nr° of holes	Tapping	Position
RMI-28F1	**(STM)**	62	4	M6	90°
RMI-40F1	**(STM)**	87	4	M8	90°
øD_{H7}	14-19				
Belt type	AT10/16				
Max force trans. by belt	2190 N				
Limit of belt elasticity	7480 N				
Motor pulley	Z20AT10-16				
1 rev. of motor shaft	200mm				
Belt adjustement range 14 mm					

Fig. 12



GD10MLT-GD20MLT driven Track roller guidance systems

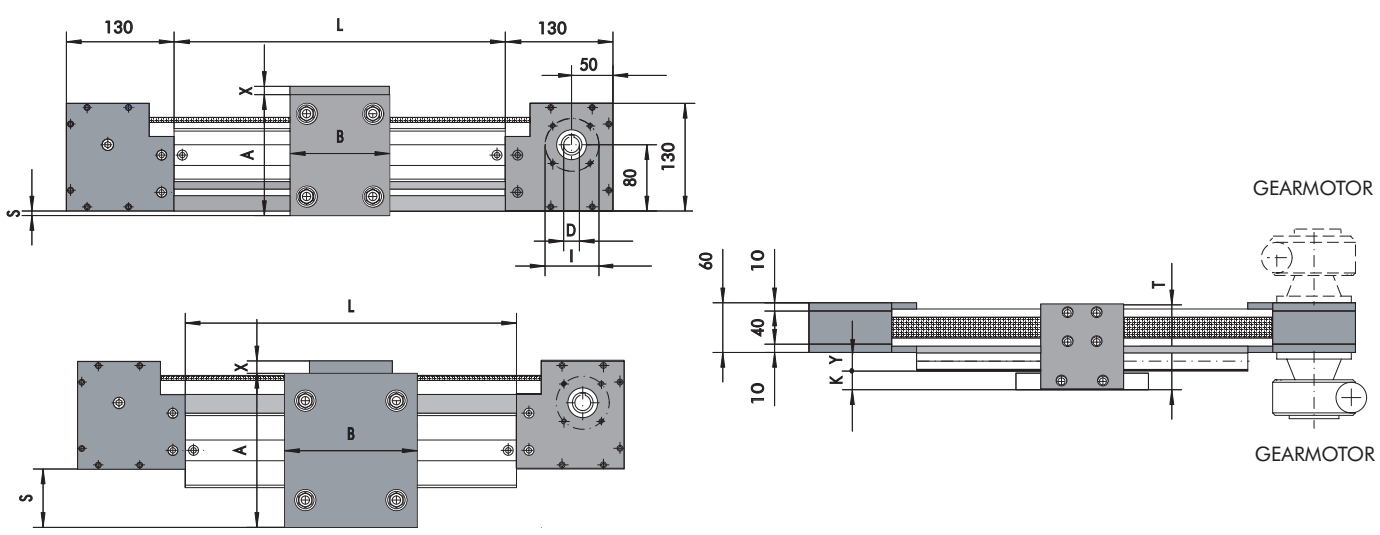


Fig. 13

GD10MLT-GD20MLT driven Track roller guidance systems

The belt driven track roller systems **GDMLT** can be supplied from the factory with a gearmotor. Fig. n.13 and table n.9 show the side dimensions of the driven systems. Table n.10 shows the type of the gearmotor, shafts diameters, number of holes, tapping type, and the specifications for the driving devices. Fig. n.14 shows the mounting dimensions of the extrusion.

Table n°9

Type	Dimensions						
	A	B	K	S	T	X	Y
GD 10AMLT	120	80	11	-	80	10	12.5
GD 10BMLT	140	120	17	2.5	80	10	12.5
GD 10CMLT	150	120	24	7.5	92	15	12.5
GD 20AMLT	180	150	21	67.5	100	15	22.5
GD 20BMLT	200	180	31.5	77.5	110	14	22.5

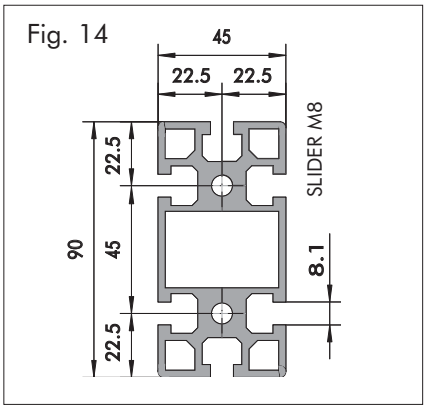
Table n°10

Gearmotor Type	Brand	Diameter øI	Nr° of holes	Tapping	Position
RMI-28F1	**(STM)**	62	4	M6	90°
RMI-40F1	**(STM)**	87	4	M8	90°

øD$_{H7}$	14-19 (25)	
Belt type	AT10/16	AT10/25
Max force trans. by belt	2190 N	3600 N
Limit of belt elasticity	7480 N	12400 N
Motor pulley	Z20AT10-16/25	
1 rev. of motor shaft	200mm	

Belt adjustment range 14 mm

Fig. 14



GD6M driven Track roller guidance systems

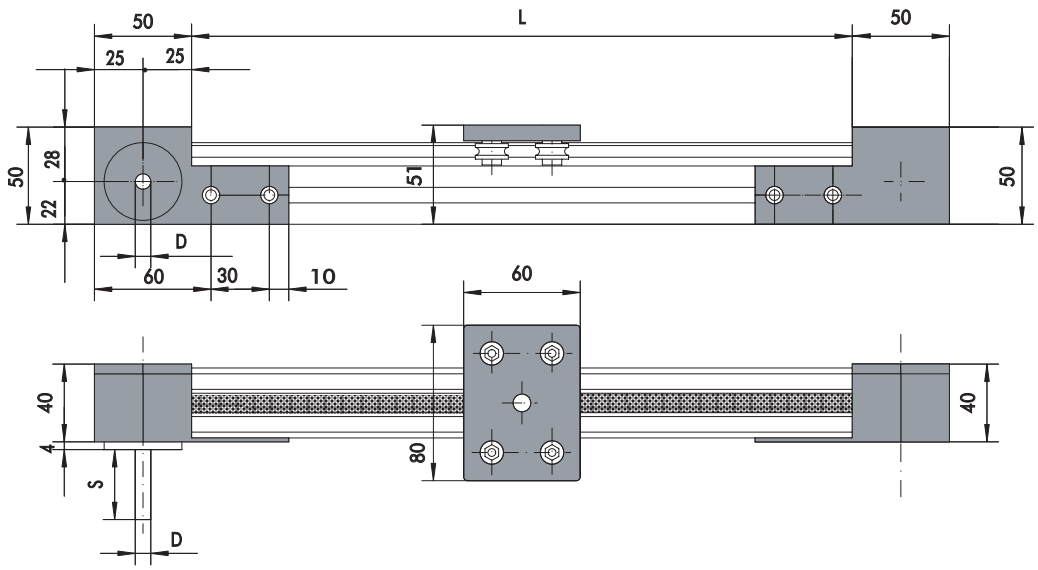


Fig. 15

GD6M driven Track roller guidance systems

Fig n.15 shows the dimensions of the driven track roller system **GD6M**. Table n.11 shows transmission belt allowed loads, belt adjustment range, pulley circumference and the standard dimensions of the motor shaft. Fig. n.16 and table n.12 show static moments and limit loads of the carriage and the track roller.

Table n°11

Drive belt			Belt Adjustment range	Motor pulley		Motor shaft			
						Standard		Special	
Type	Max force trans. by belt	Limit of belt elasticity		type	1 rev. of motor shaft	S	Dh7	S	Dh7
10AT5	630 N	1960 N	5mm	**Z22AT5**	110mm	40mm	ø8	specify	

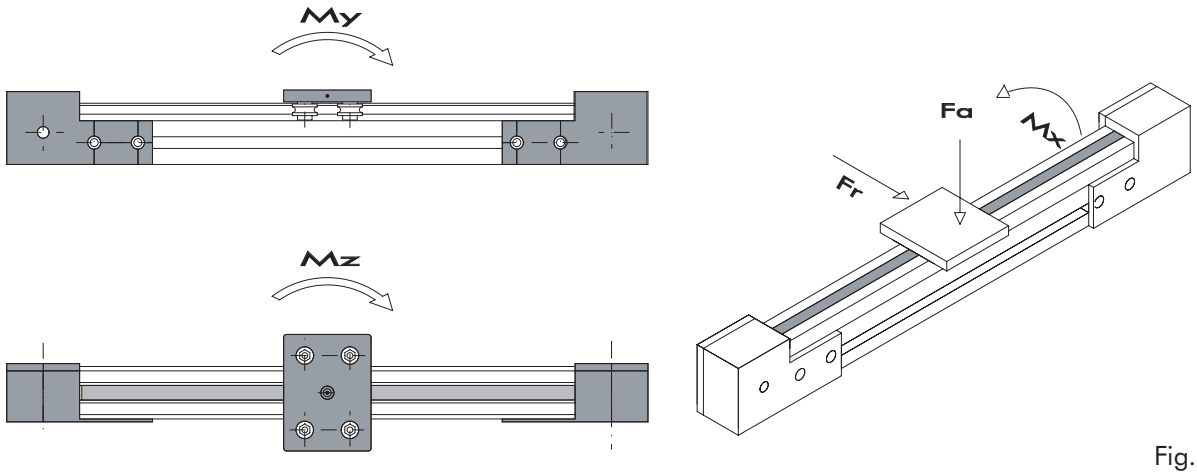


Fig. 16

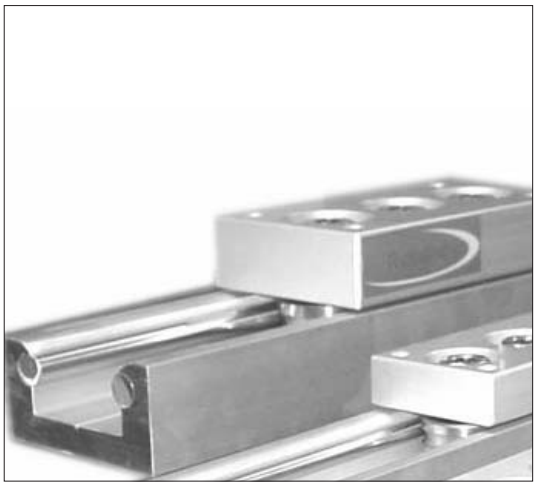
Table n°12

Carriage	Track rollers	Limit load (N)		Static moment (Nm)		
		Fr	Fa	My	Mz	Mx
C6	**17C - 17E**	1300	888	13	20	14

IL Series Track roller Linear guidance systems

The systems **IL** offer compact design and good smooth rolling under heavy loads. The rail is made from an extruded aluminium profile, clear anodized as standard, in which two precision shafts are inserted via a rolling process.
The carriage and the rail have the same width. The carriage is equipped with three aligned gothic arc profile track rollers NIKO®.
The central track roller is mounted with an eccentric stud to allow the pre-load operation of the carriage.
The main characteristics of these systems are:

- Compact design
- High translation speed
- Maintenance free
- Low noise operation
- Interchangeability
- Ease of installation
- Compact applications



IL32 Series Track roller Linear guidance systems

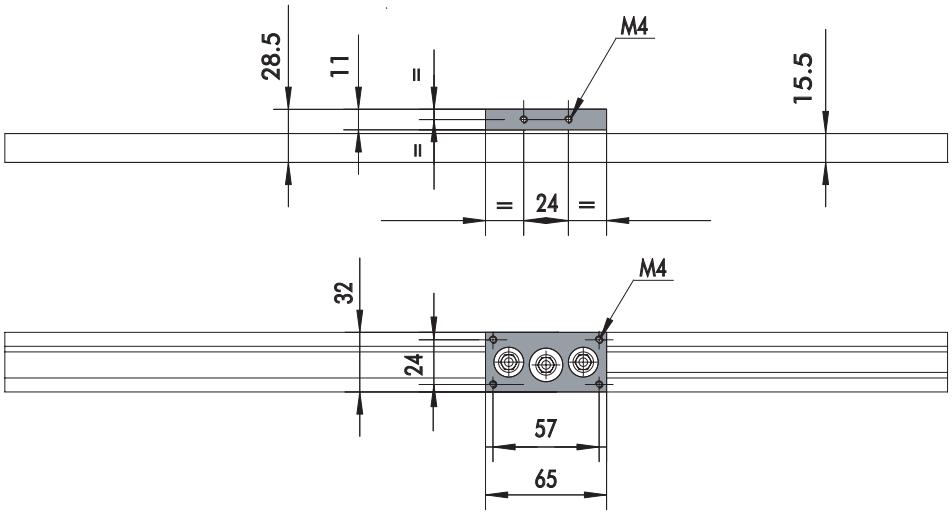


Fig. 17

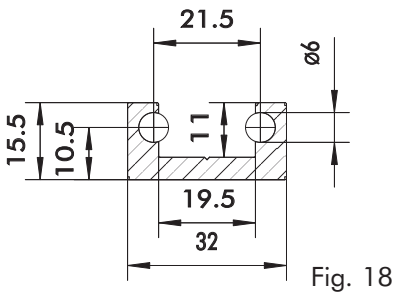


Fig. 18

Rail shape

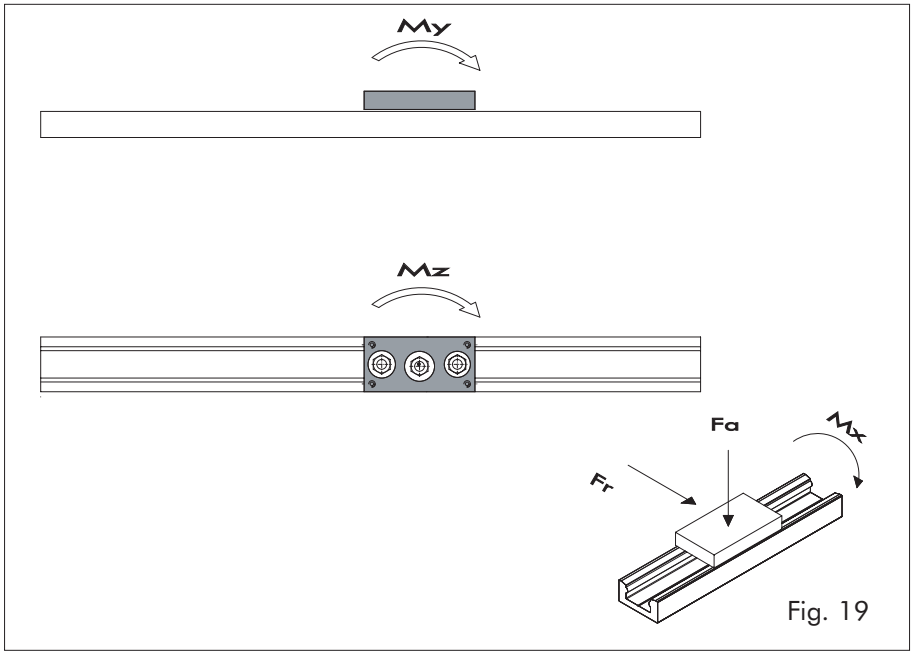


Fig. 19

Static moments and limit loads

Table n° 12

Components		Limit load (N)		Static moment (Nm)			Carriage mass (Kg)
Carriage	Track rollers	Fr	Fa	My	Mz	Mx	
C32	**RPC 17-RPE17**	980	330	4	7	11	0.15

IL42 Series Track roller Linear guidance systems

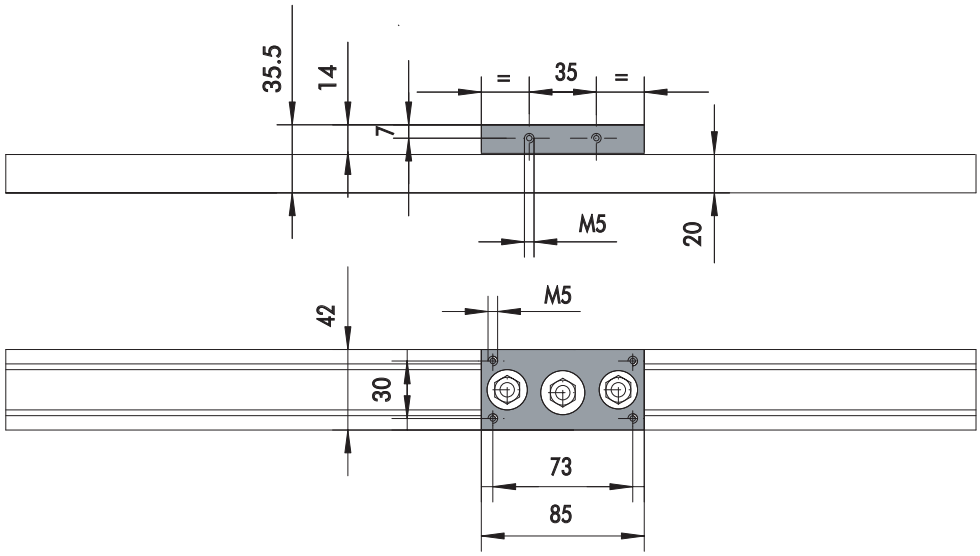


Fig. 20

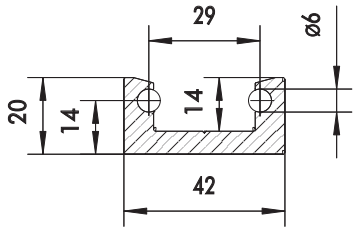


Fig. 21

Rail shape

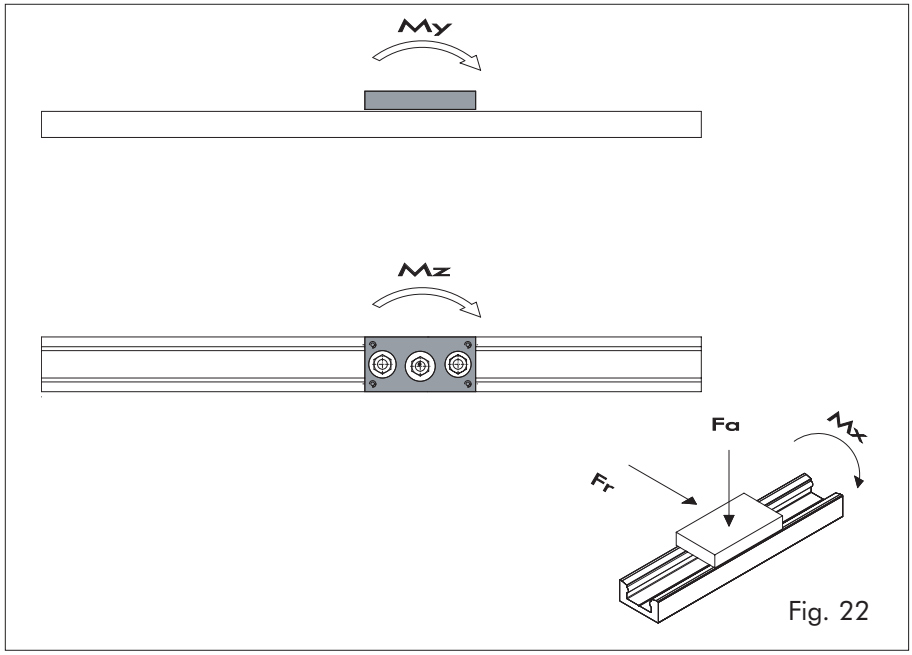


Fig. 22

Static moments and limit loads

Table n° 13

Components		Limit load (N)		Static moment (Nm)			Carriage mass (Kg)
Carriage	Track rollers	Fr	Fa	My	Mz	Mx	
C42	RPC24-RPE24	1680	500	7,2	14,3	25	0.30

IL65 Series Track roller Linear guidance systems

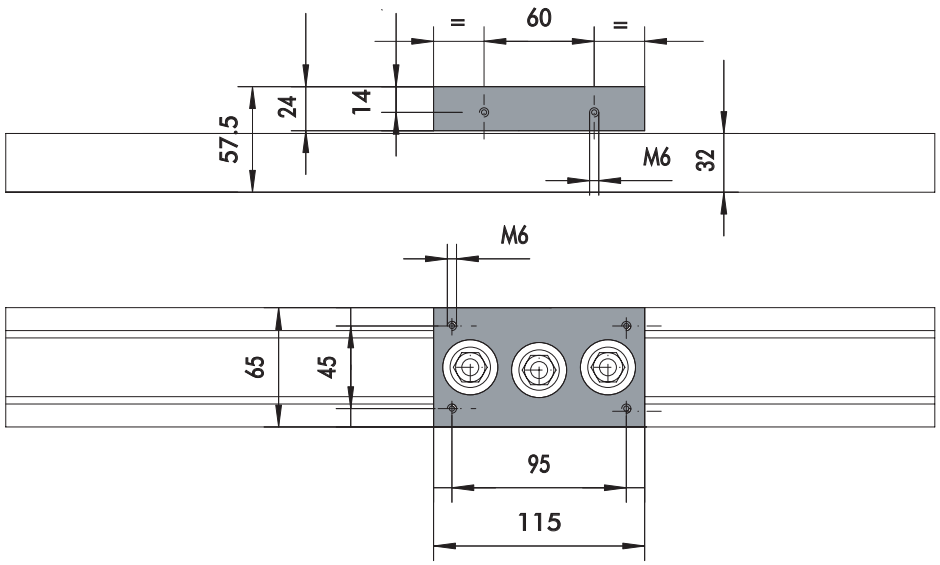


Fig. 23

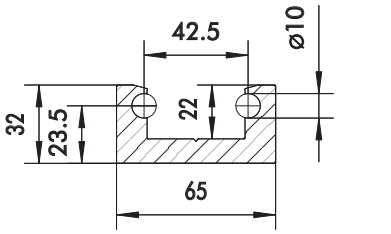


Fig. 24

Rail shape

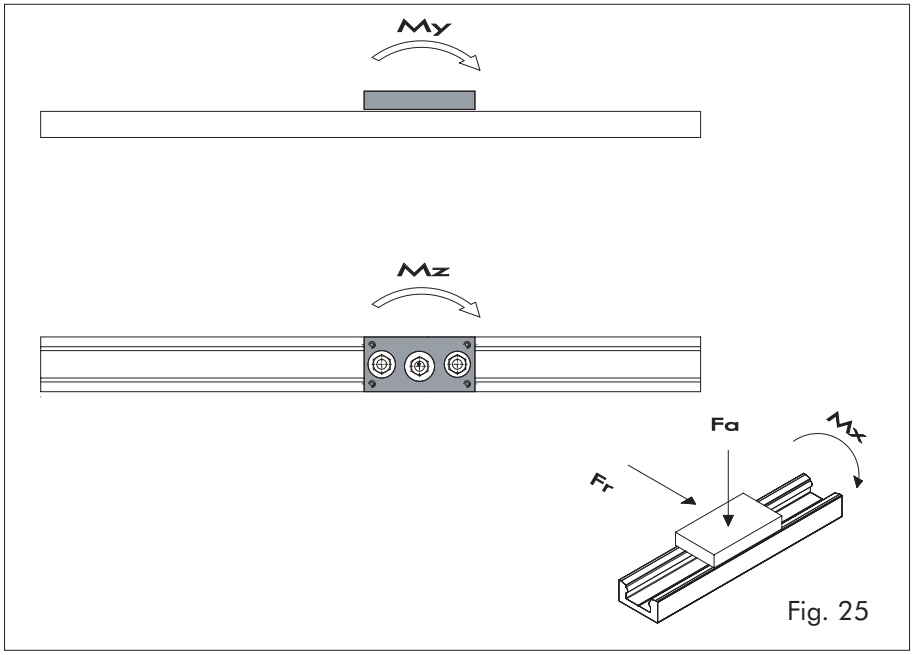


Fig. 25

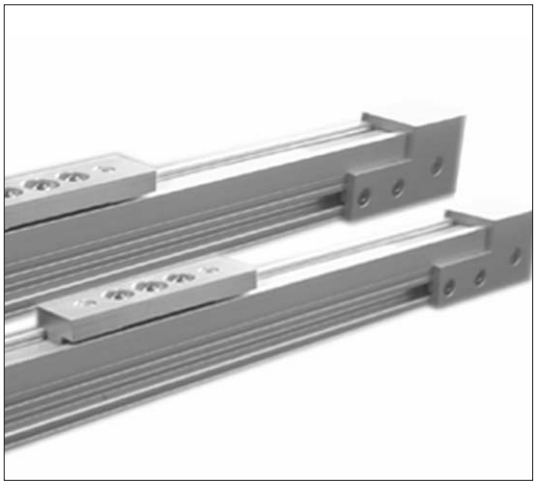
Static moments and limit loads

Table n° 14

Components		Limit load (N)		Static moment (Nm)			Carriage mass (Kg)
Carriage	Track rollers	Fr	Fa	My	Mz	Mx	
C65	RPC35-RPE35	3930	1160	26,5	47,5	81	0.80

ILM Series driven Track roller guidance systems

The driven linear systems **ILM** offer a solution to compact and accurate motion problems. The systems **ILM** are composed of:



Driving head

Clear anodized aluminium housing for the driving pulley.

Idle head

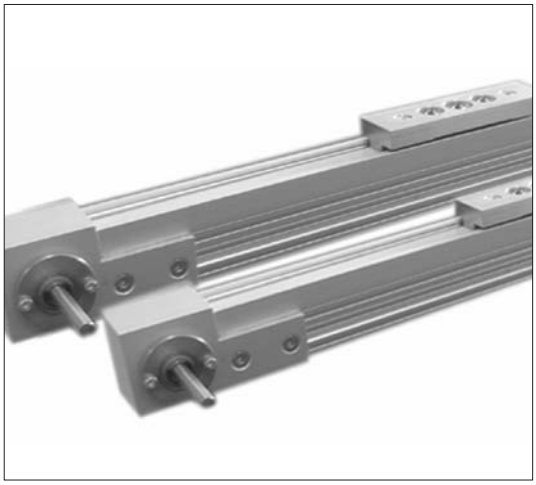
Clear anodized aluminium housing for the mule pulley equipped with bearings and eccentric bolts for the adjustment of the transmission belt.

Supporting structure

Special aluminium extrusion with beading braces, internal groove for belt and "T" slots on three sides (two sides for ILM32) for mounting. The rail IL equipped with its carriage and belt fixing plates is placed on the upper side of the aluminium profile.

Drive belt

Type AT pitch 5 mm. (AT pitch 10 mm. for ILM65) is a steel reinforced polyurethane toothed belt.



Other components

Driven track rollers system ILM can be equipped with:

- Stainless steel shafts
- Steel carriages and/or non-standard dimensions
- Non standard shafts for gearmotor applications
- Adapting plates for gearmotor
- Customized engineering

ILM32 Series driven Track roller guidance systems

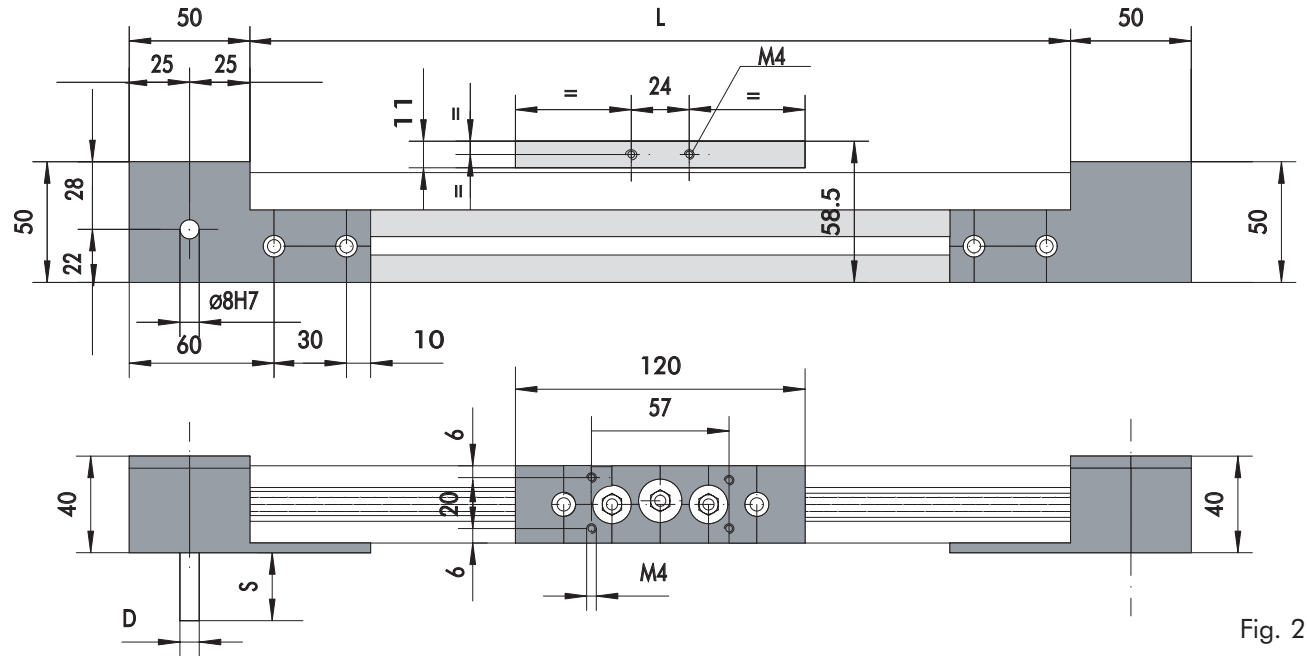


Fig. 26

Table n° 15

Drive belt			Belt adjustment range	Motor pulley		Motor shaft			
type	Max force trans. by belt	Limit of belt elasticity		Type	1 rev. of motor shaft	Standard S	Standard D	Special S	Special D
10AT5	630N	1960 N	5mm	**Z 22AT5**	110mm	40mm	Ø8	specify	

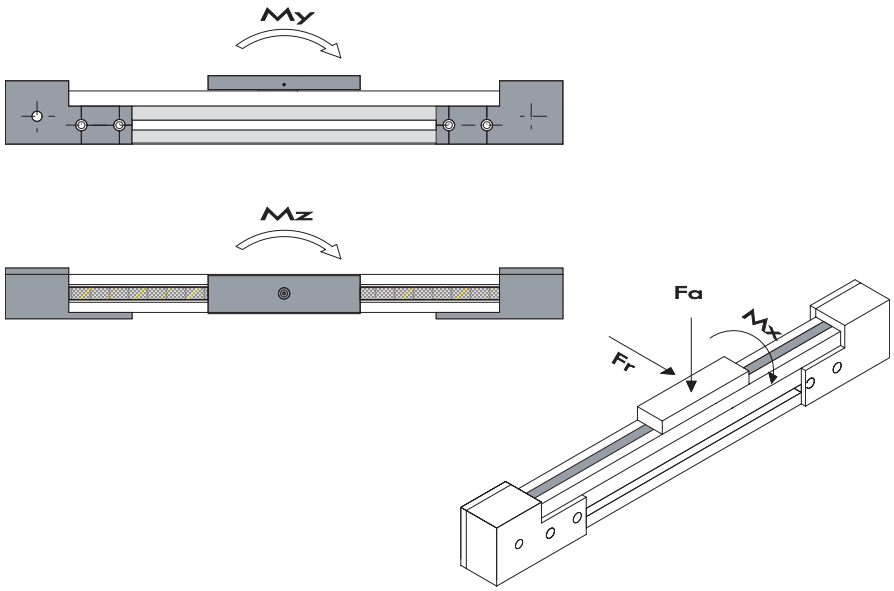


Fig. 27

Static moments and limit loads

Table n° 16

Components		Limit load (N)		Static moment (Nm)		
Carriage	Track rollers	Fr	Fa	My	Mz	Mx
C32M	**RPC 17-RPE17**	1270	330	7	21	4

ILM42 Series driven Track roller guidance systems

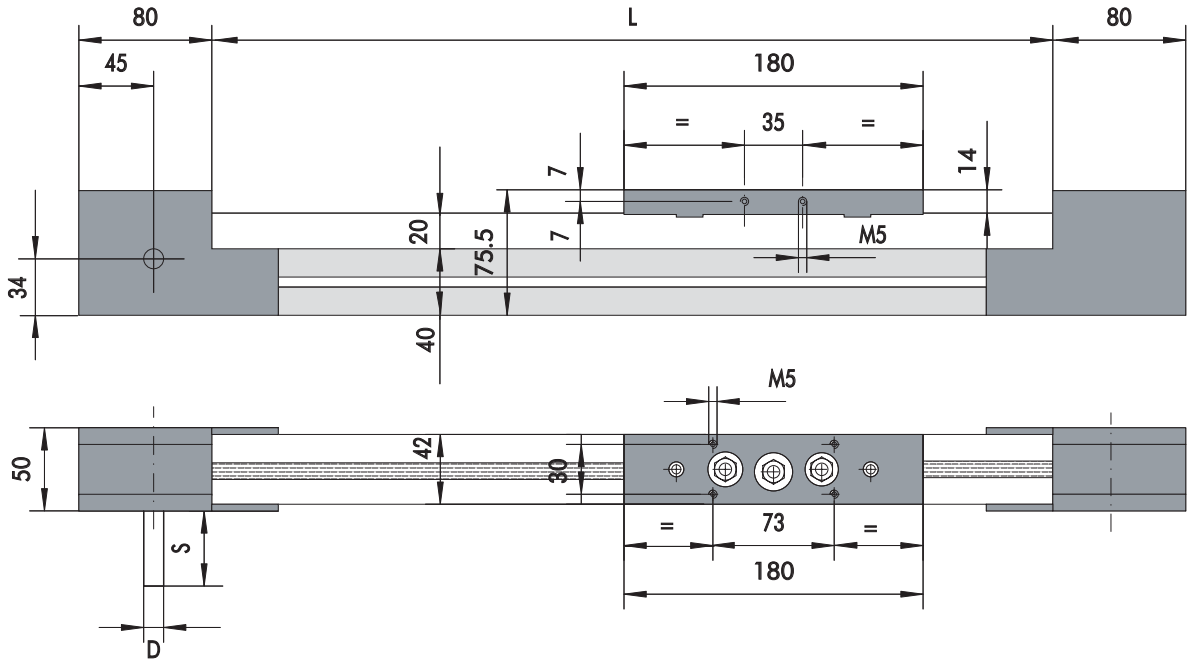


Fig. 28

Table n° 17

Drive belt			Belt adjustment range	Motor pulley		Motor shaft			
Type	Max force trasm. by belt	Limit of belt elasticity		Type	1 rev. of motor shaft	Standard S	Standard D	Special S	Special D
10AT5	630N	1960 N	5mm	**Z 32AT5**	160mm/rev	50mm	Ø12	Specify	

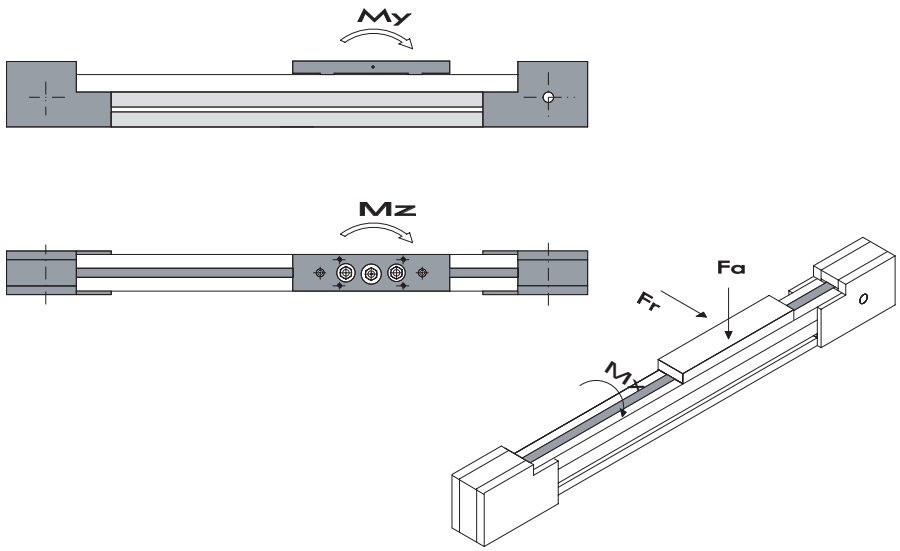


Fig. 29

Static moments and limit loads

Table n° 18

Components		Limit load (N)		Static moment (Nm)		
Carriage	Track rollers	Fr	Fa	My	Mz	Mx
C42M	**RPC24-RPE24**	3600	710	32	82	14

ILM65 Series driven Track roller guidance systems

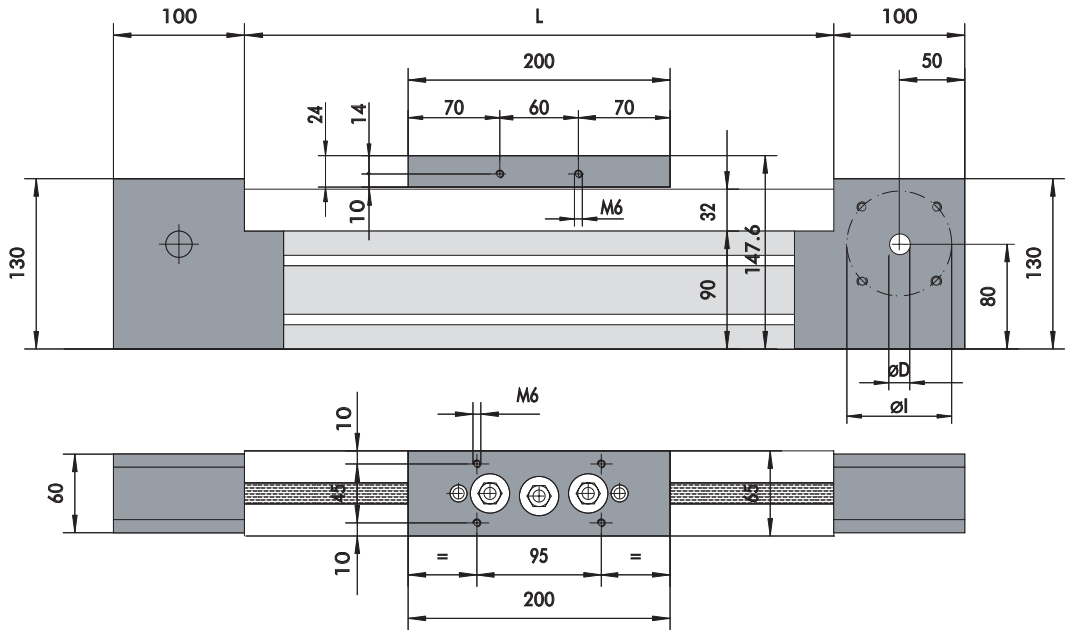


Fig. 30

Table n° 19

Drive belt			Belt Adjustment range	Motor pulley		Gearmotor mounting	
Type	Max force trans. by belt	Limit of belt elasticity		Type	1 rev. of motor shaft	ØI	62 n°4 holes M6 90° RMI 28 F1 (STM) 87 n°4 holes M8 90° RMI 40 F1 (STM)
16AT10	2190N	7480 N	14mm	**Z 20AT10**	200mm	**ØD H7**	14-19

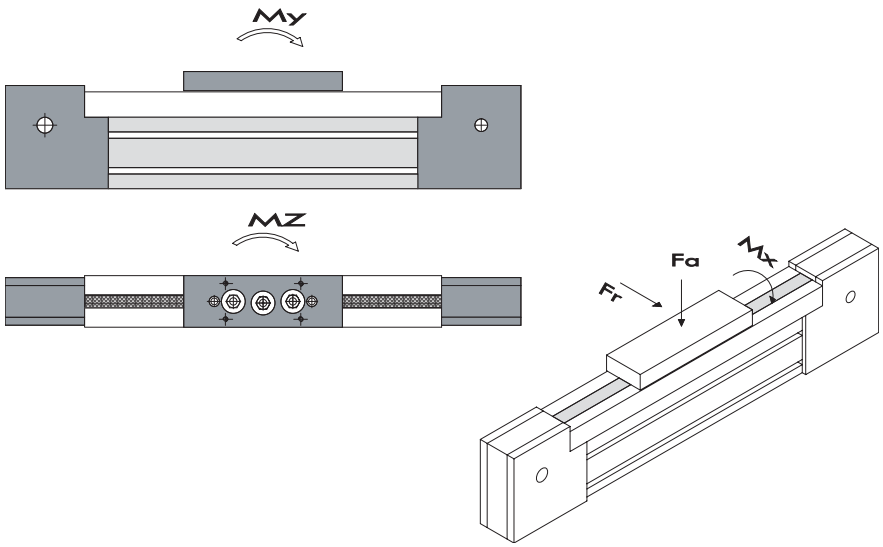


Fig. 31

Static moments and limit loads

Table n° 20

Components		Limit load (N)		Static moment (Nm)		
Carriage	Track rollers	Fa	Fr	My	Mx	Mz
C42M	**RPC35-RPE35**	6240	930	105	275	93

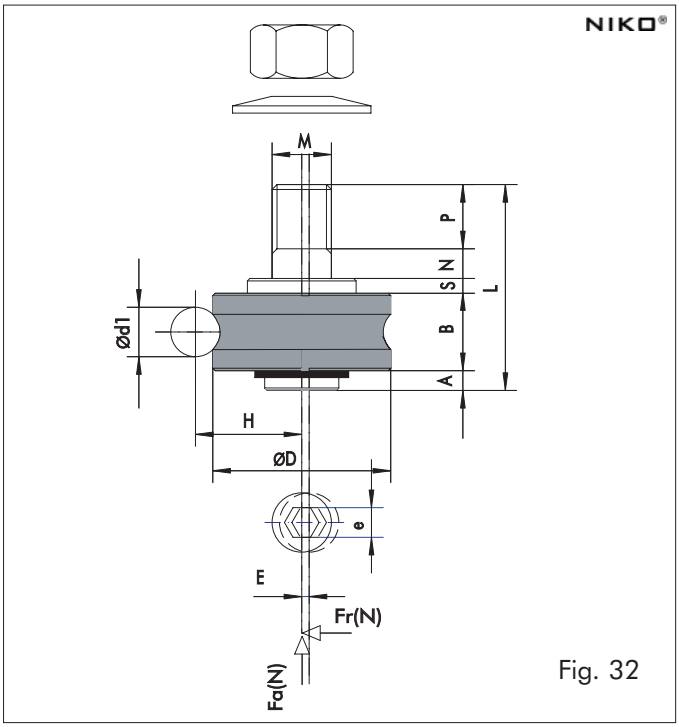


Fig. 32

Track rollers for Linear guidance systems IL-ILM

The track rollers for linear system IL-ILM type RPC and RPE have a gothic arc profile. Table n.21 shows the dimensions and max allowable loads. (see fig.32)

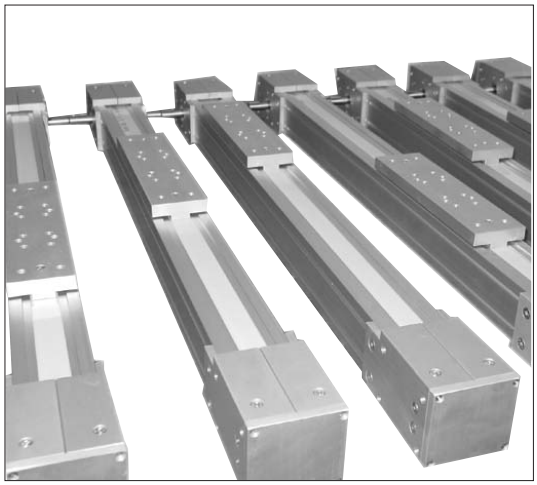
Table n°21

Track roller	Rail	Dimensions												Axial load Fa (N)	Radial load Fr (N)
		A	B	S	N	P	L	M	H	D	E	e	d_1		
RPC17	**IL-ILM32**	1.5	8	3	5	5.5	23	5	10.5	17	-	2.5	6	1700	1250
RPE17	**IL-ILM32**	1.5	8	3	5	5.5	23	5	10.5	17	0.5	2.5	6		
RPC24	**IL-ILM42**	3	11	2	6	7	29	8	14.5	24	-	4	6	4350	1250
RPE24	**IL-ILM42**	3	11	2	6	7	29	8	14.5	24	0.5	4	6		
RPC35	**IL-ILM65**	3.2	7.95	2	12	11	44	10	20.6	35	-	5	10	9700	4900
RPE35	**IL-ILM65**	3.2	7.95	2	12	11	44	10	20.6	35	0.75	5	10		

Driven linear modules series TLM

The driven linear modules series **TLM** are designed for high accuracy and high speed applications.
The linear modules **TLM** are composed of:

- Self-supporting structure
- Carriage
- Transmission belt
- Protection strip
- Guiding system
- Driving head
- Idle head

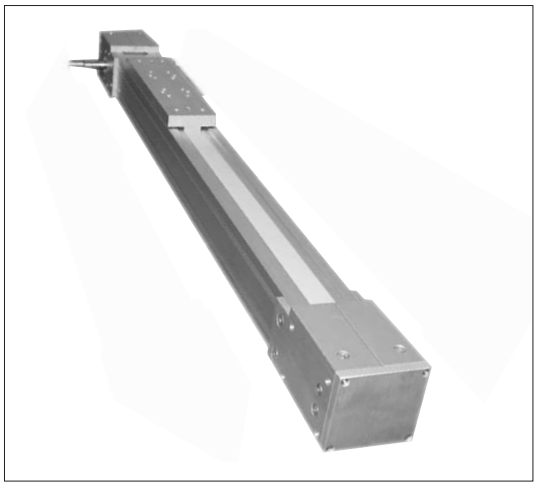


- **Self-supporting structure**

It is a special aluminium profile engineering to contain the components of the entire module and to obtain an high stability to flexion and torsion. The structure is provided with "T" slots grooves for mounting.

- **Carriage**

Aluminium moving block containing the motion components (track rollers, blocks, ballscrews)



- **Drive belt**

Type **AT** pitch 5, is a steel reinforced polyurethane toothed belt.
This belt guarantees:
- High motion speed
- Low wearing
- Low noise
- Positioning accuracy
- High efficiency

- **Protection strip**

Plastic strip fixed to the driving heads crossing the carriage for protecting the rail from contaminants such as dust, metal chips etc.

- **Guidance systems**

According to the different requirements the following models are available:
- **TLM R** - Gothic arc profile track rollers NIKO® rolling on hardened and chrome plated steel shafts
- **TLM G** - Ball bearing guideway + blocks
- **TLM V** - Ball bearing guideway + blocks + ballscrew

- **Driving head**

Clear anodized aluminium block housing the driving pulley and the transmission shaft

- **Idle head**

Clear anodized aluminium block housing the mule pulley and the belt tension adjustment device.

Series TLM 65-80 - Driven linear modules

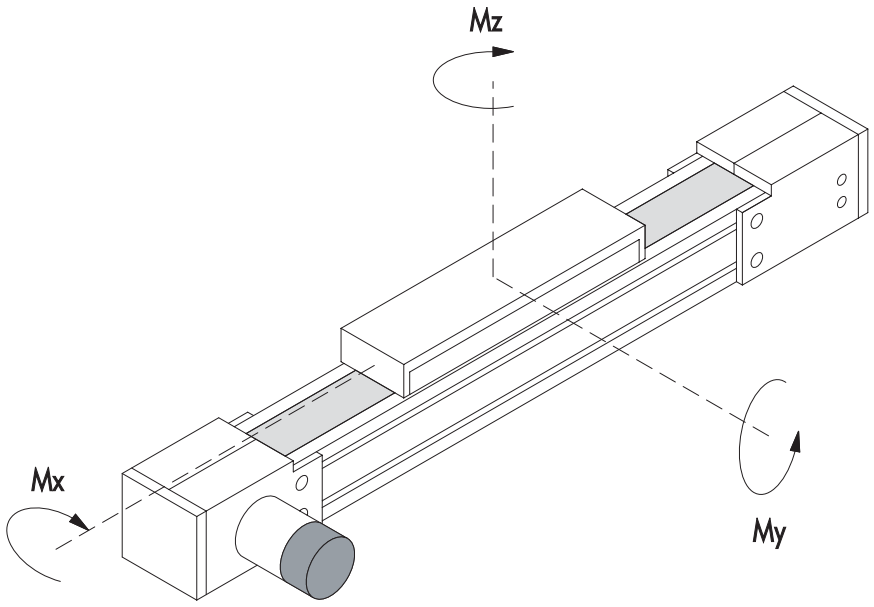


Fig. 33

Table n° 22

Informations		TLM65R	TLM65G	TLM65V	TLM80R	TLM80G	TLM80V
Working stroke min.	**mm**	105	105	105	105	105	105
Working stroke max.	**mm**	5730	5730	5800	5670	5670	5700
Max traverse speed	**m/s**	2.5	4.5	-	2.5	4.5	-
Recirculating ballscrew (standard)				16P5			16P5
Drive belt		AT5x35	AT5x35		AT5x50	AT5x50	
Motor pulley		34AT5	34AT5		37AT5	37AT5	
1 rev. of motor shaft	**mm**	170	170		185	185	
Carriage mass	**Kg.**	1.1	1.2	1.2	2.4	2.5	2.5
Zero stroke	**Kg.**.	3.4	3.6	2.8	6.2	6.4	3.6
100 mm. stroke	**Kg.**	0.6	0.7	0.9	1.1	1.3	1.4

Table n° 23

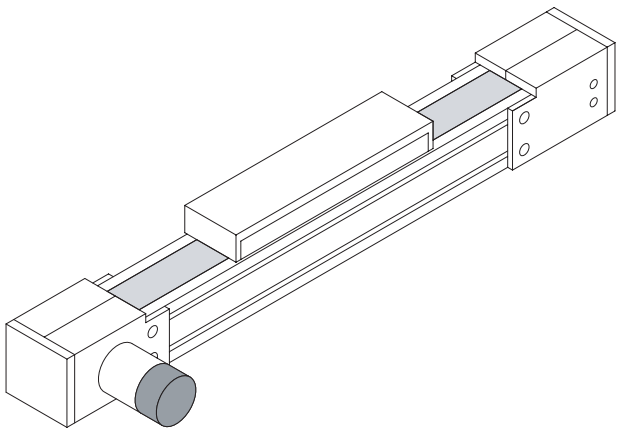
Loads (N)	TLM65R		TLM65G		TLM65V		TLM80R		TLM80G		TLM80V	
	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic
	635	530	16500	3400	16500	3400	635	530	23400	4600	23400	4600

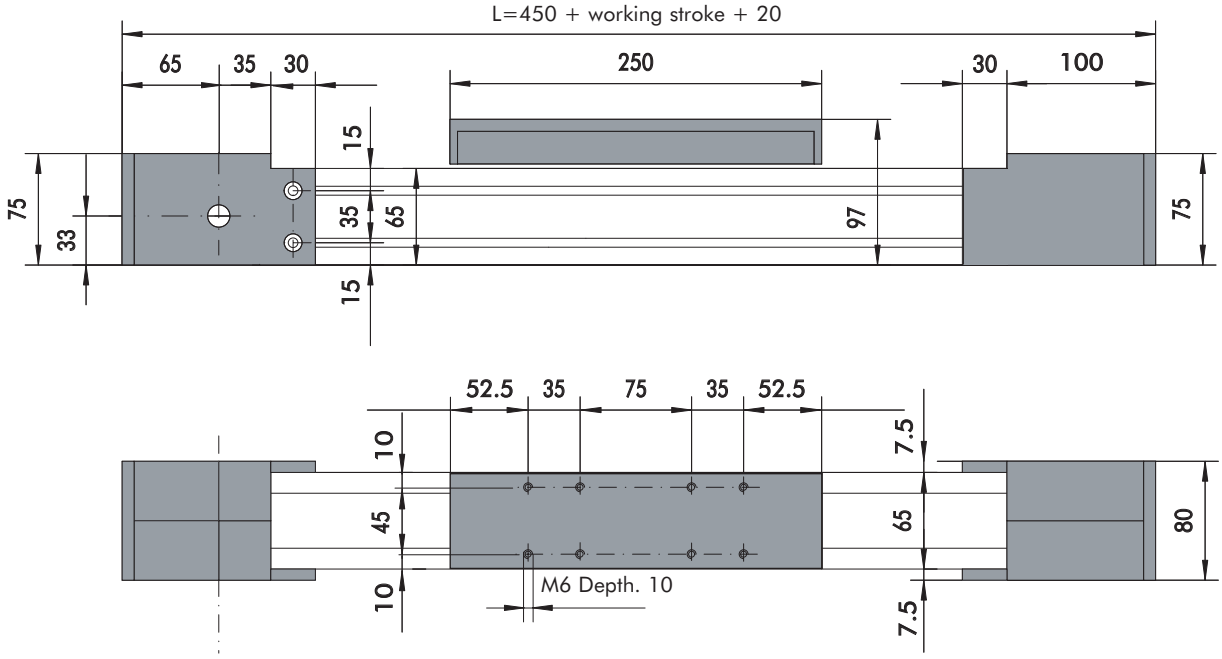
Table n° 24

Moments (Nm)	TLM65R		TLM65G		TLM65V		TLM80R		TLM80G		TLM80V	
	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic
Mz	16	13	68	15	68	15	38	35	118	25	118	25
My	26	24	445	92	445	92	98	92	860	178	860	178
Mx	42	42	380	82	380	82	176	176	740	160	740	160

TLM65G - Driven linear modules dimensions

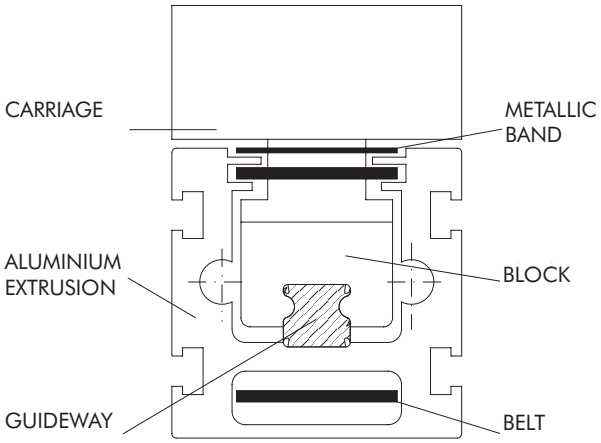
Fig. 36





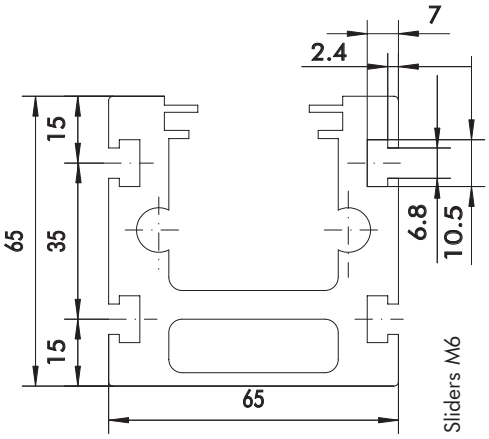
TLM65G

COMPONENTS



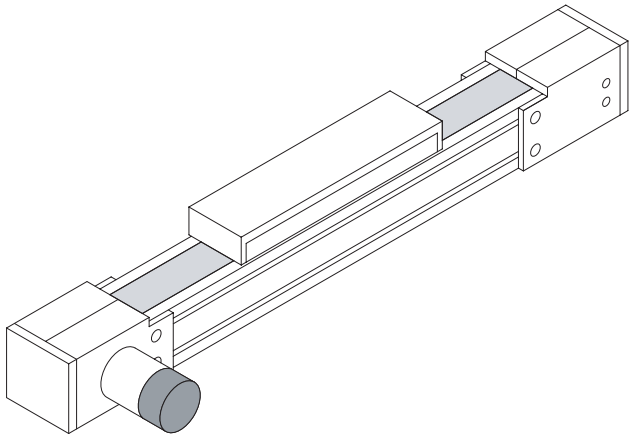
TLM65G

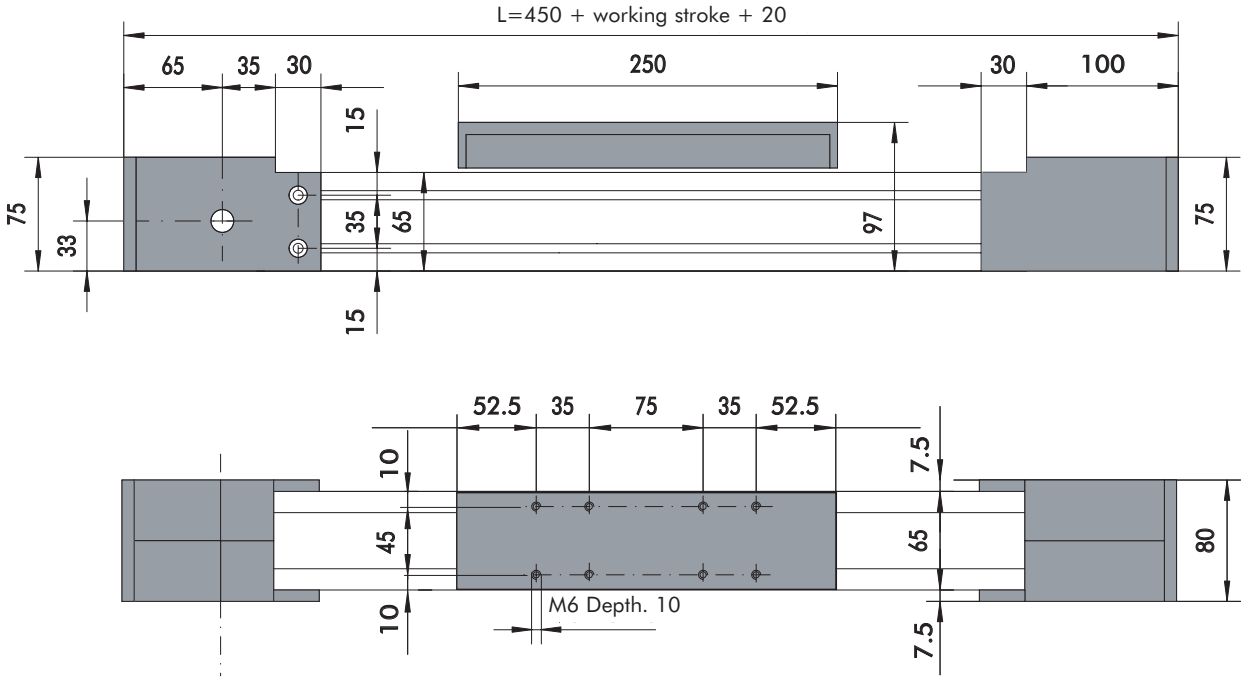
"T" SLOTS



TLM65R - Driven linear modules dimensions

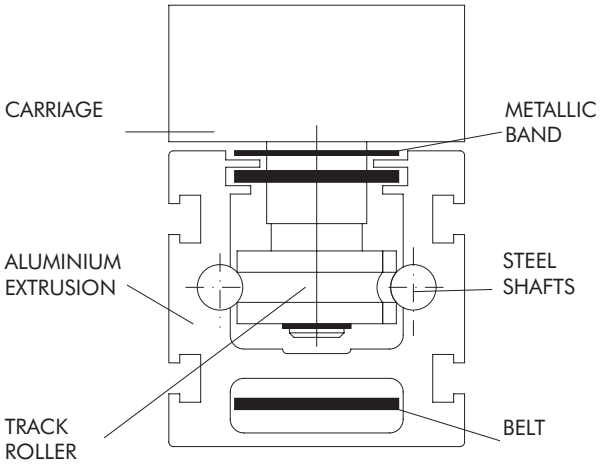
Fig. 37





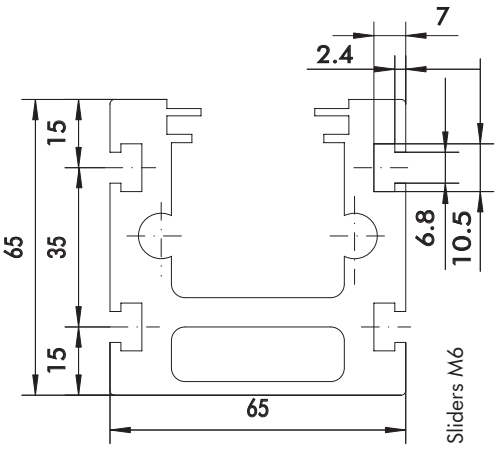
TLM65R

COMPONENTS



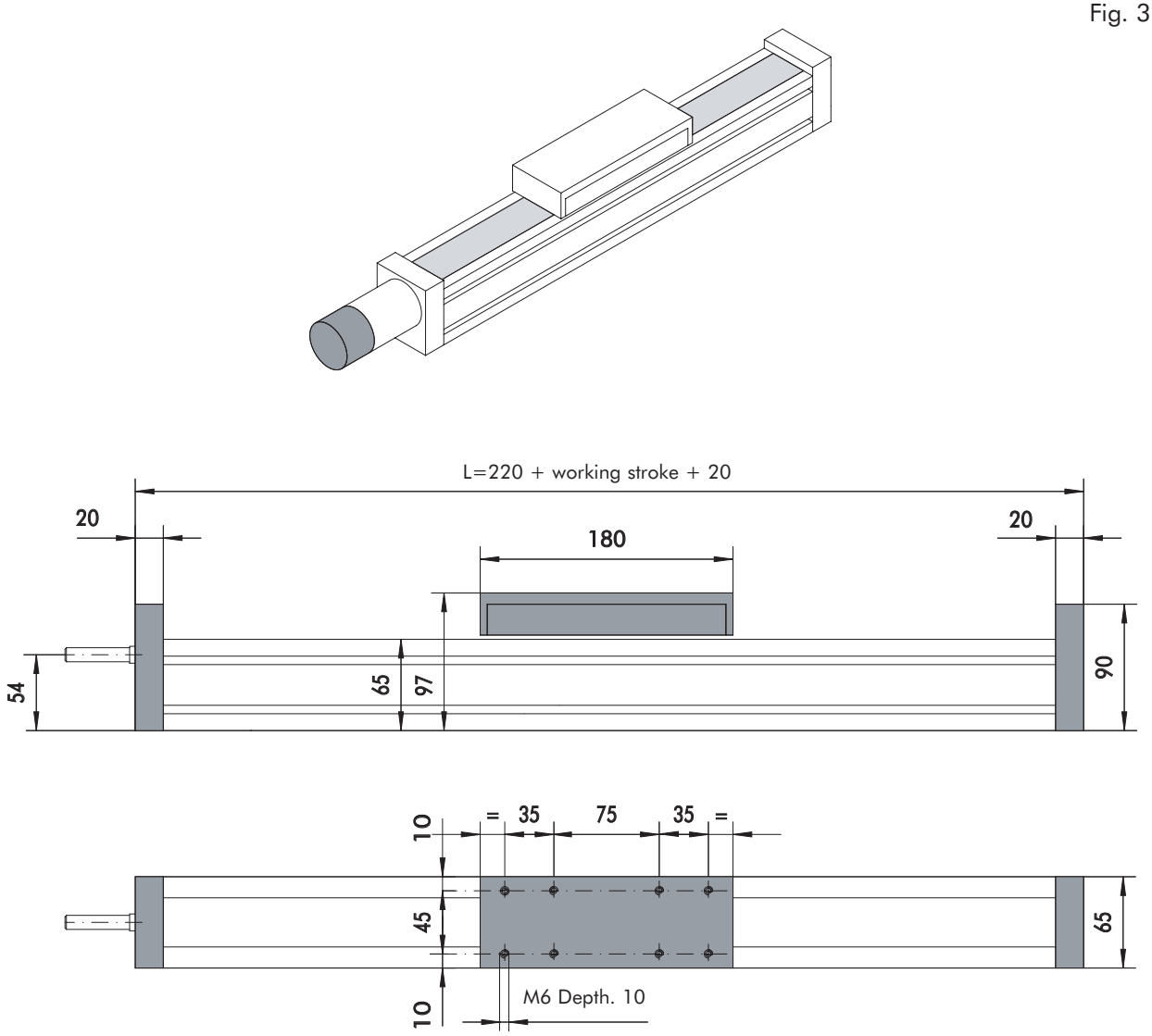
TLM65R

"T" SLOTS



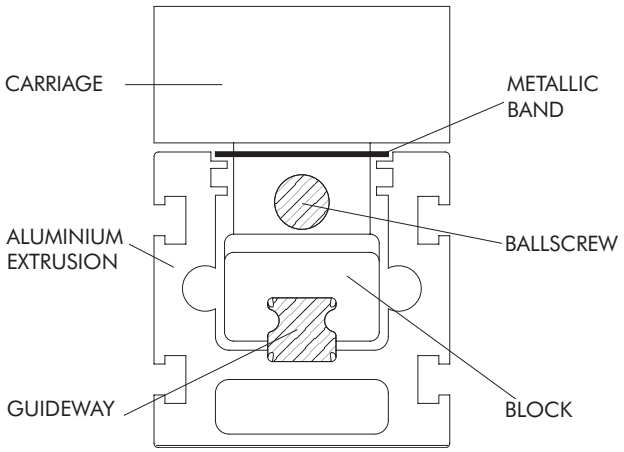
TLM65V - Driven linear modules dimensions

Fig. 38



TLM65V

COMPONENTS



TLM65V

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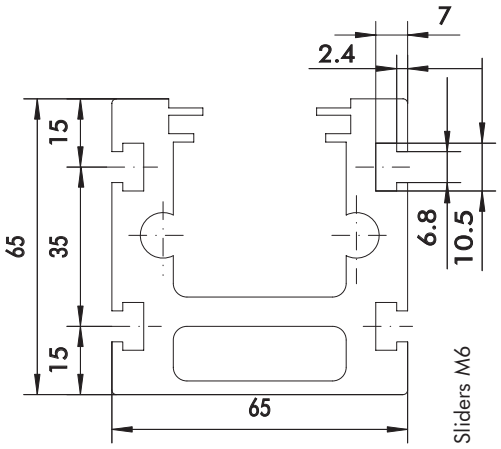
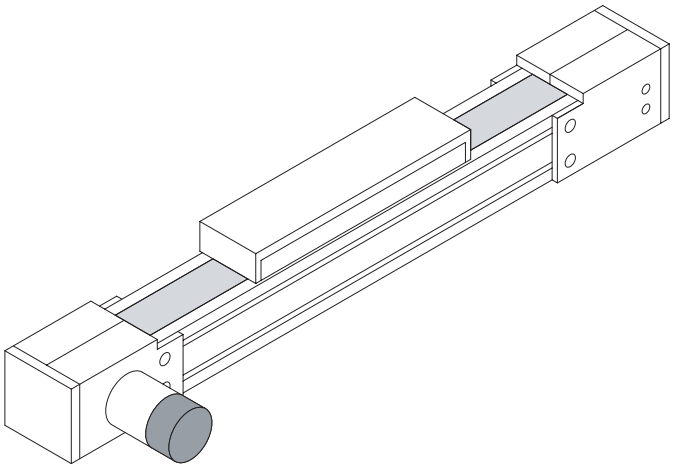
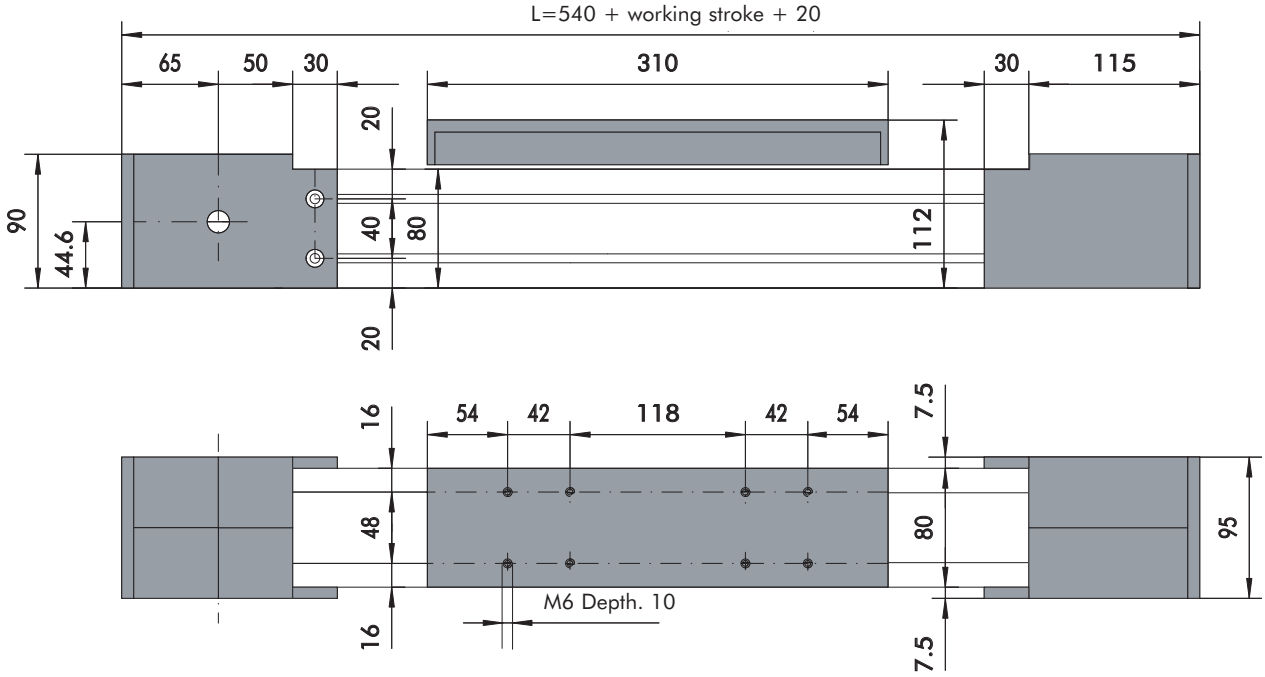


TLM80G - Driven linear modules dimensions

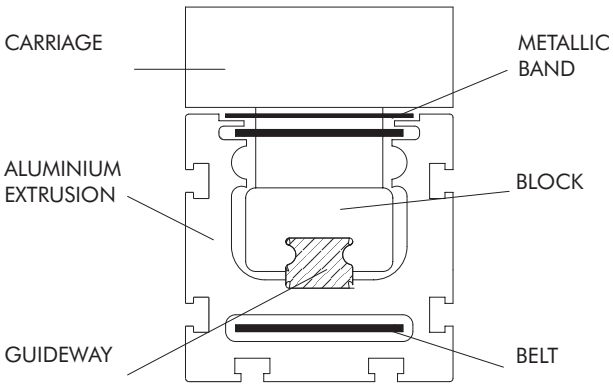
Fig. 39





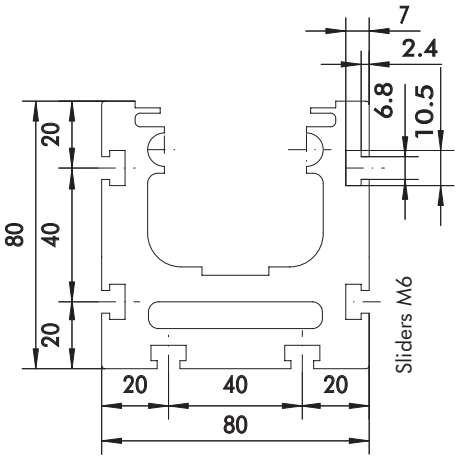
TLM80G

COMPONENTS



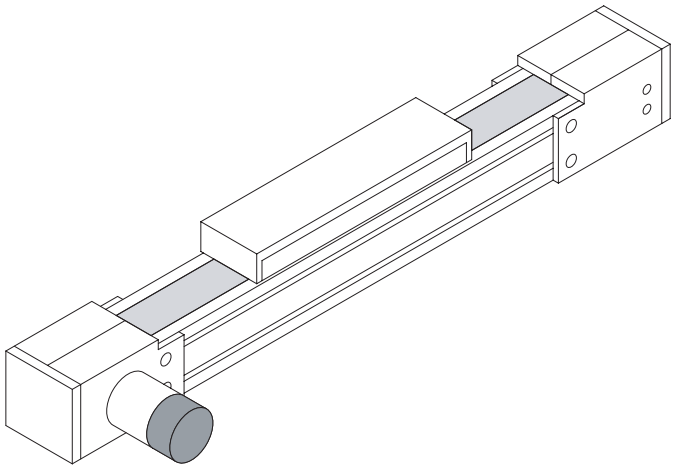
TLM80G

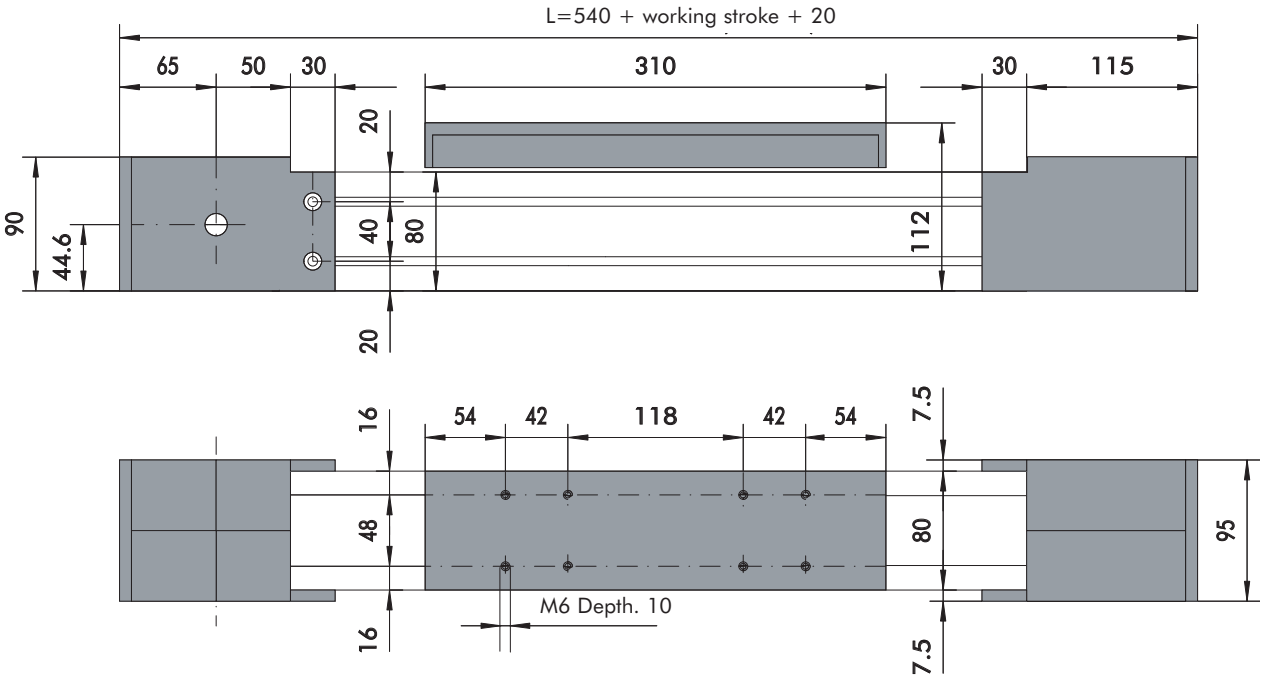
"T" SLOTS



TLM80R - Driven linear modules dimensions

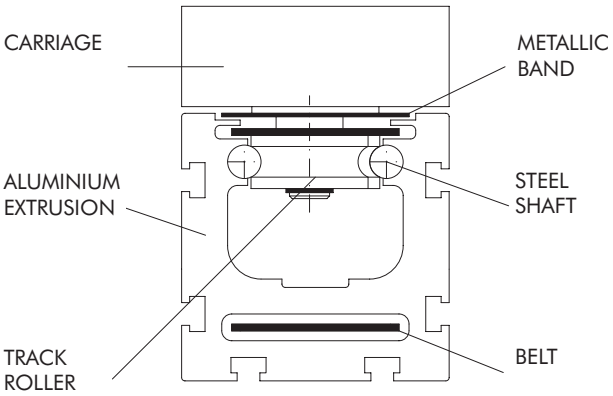
Fig. 40





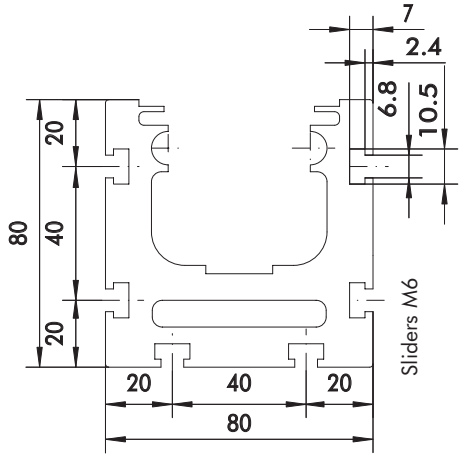
TLM80R

COMPONENTS



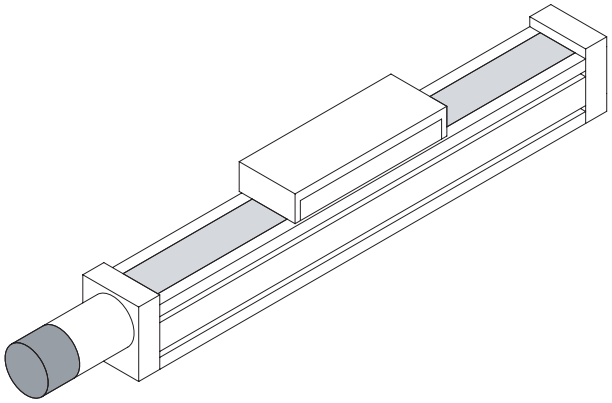
TLM80R

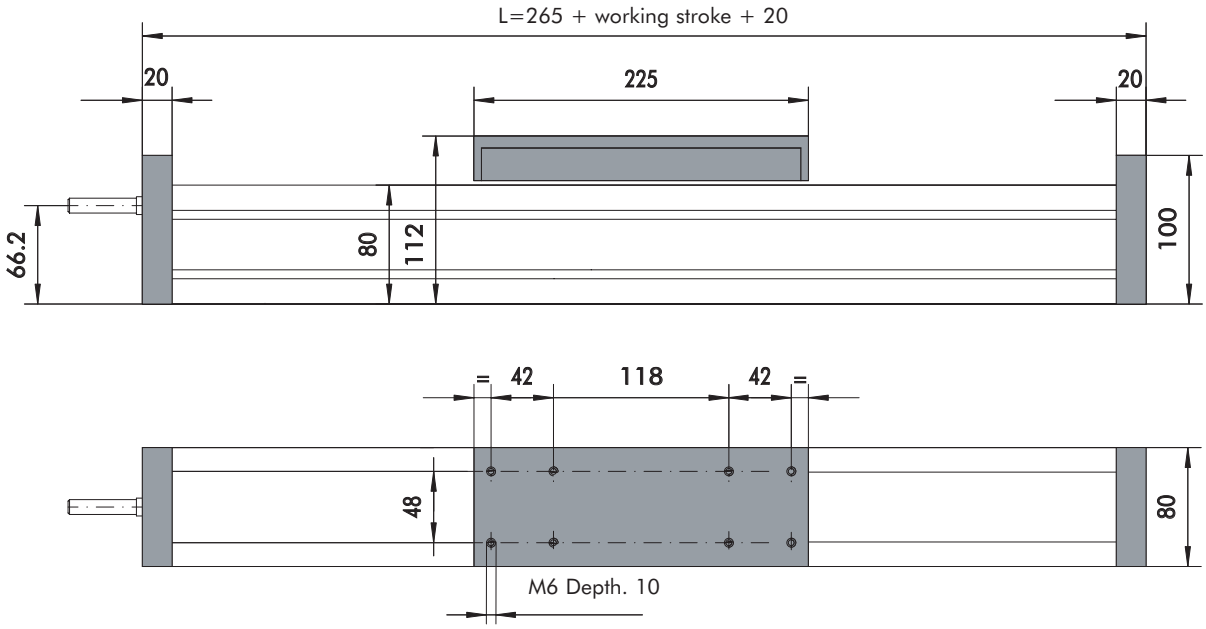
"T" SLOTS



TLM80V - Driven linear modules dimensions

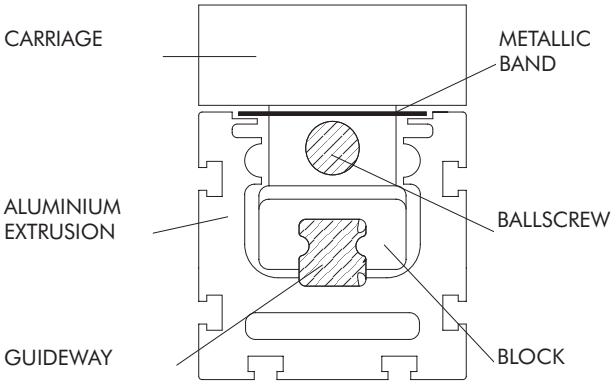
Fig. 41





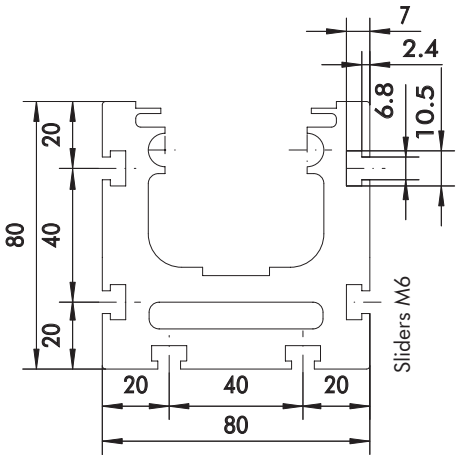
TLM80V

COMPONENTS



TLM80V

"T" SLOTS



SLTL Series Linear Tables

The linear table series **SLTL** are precision systems designed for applications that require high accuracy and repeatability. These systems are composed of:

- Driving head
- Support end
- Motion carriage
- Supporting shafts and guideway

Driving head

Clear anodized aluminium plate equipped with angular ball bearings and clamping units for the guiding shafts.

Support end

Clear anodized aluminium plate equipped with ball bearings and clamping units for the guiding shafts.

Motion carriage

Clear anodized aluminium moving block equipped with ball-screw nut and ball bushings for axial motion.

Supporting shafts and guideway

Standard **FTSN** extruded aluminium support + hardened and chrome plated shafts.

SLTL Series Linear Tables

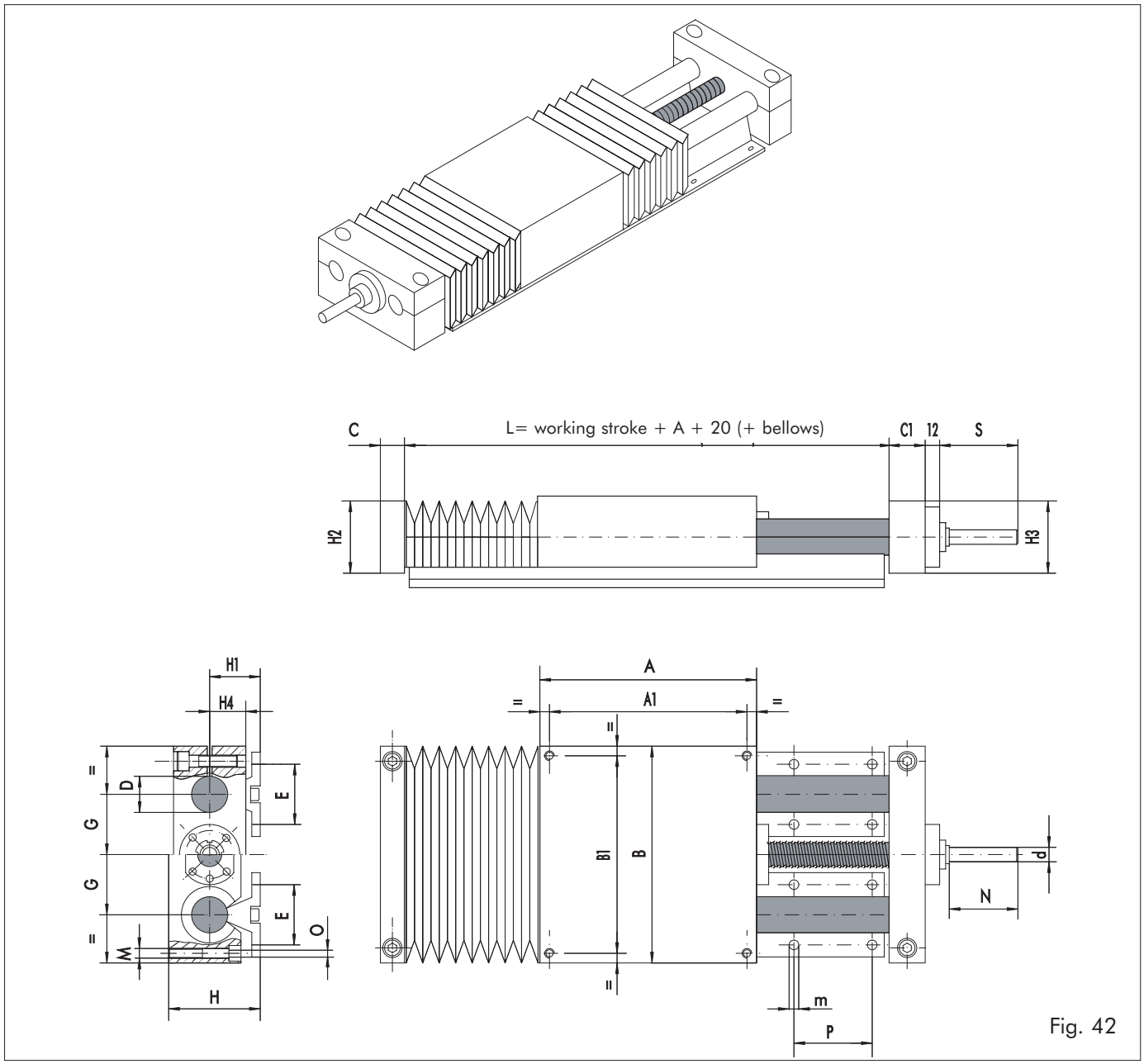


Fig. 42

Table n° 25

Type	A	A1	B	B1	C	C1	D	d	E	G	H	H1	H2	H3	H4	M	m
STL16-124	100	88	100	88	18	24	16	5	33	27	48	26	32	32	16	M6	5.5
STL20-165	130	115	130	115	20	29	20	9	37	36	57	32	42	42	21	M8	6.6
STL25-165	160	140	160	140	25	33	25	9	42	44	66	36	52	52	26	M10	6.6
STL30-205	180	158	180	158	25	38	30	10	51	48	77	42	58	58	29	M12	9

Table n° 26

Type	N	O	P	S	Ballscrew type	Code	Dynamic load (Kgf)	Static load(Kgf)
STL16-124	12	5.3	75	16.5	Dia.12 pitch 4	RSB12-04B1	344	574
STL20-165	18	6.7	100	25	Dia.16 pitch 5	FSI16-05T3	664	1196
STL25-165	18	8.5	120	22.5	Dia.16 pitch 5	FSI16-05T3	664	1196
STL30-205	18	10.3	150	24.5	Dia.20 pitch 5	FSI20-05T4	939	1993

SLTL Series Linear Tables. Static moments and limit loads

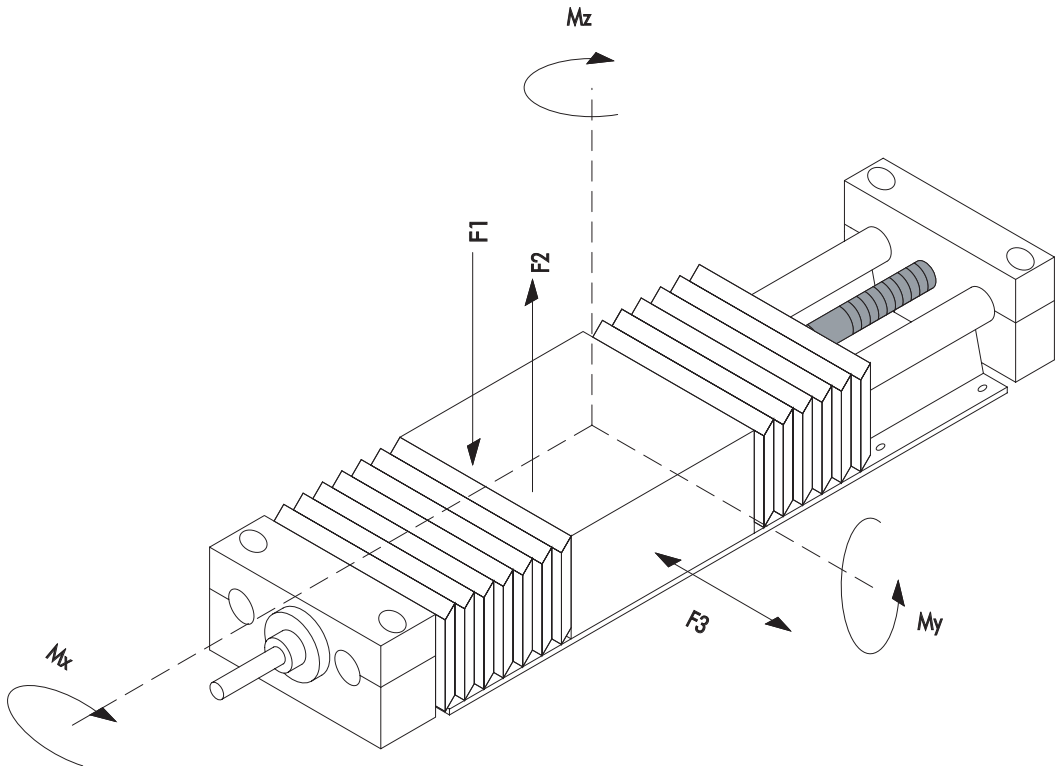


Fig. 43

Table n° 27

Loads	SLTL16 - 124		SLTL20 - 165		SLTL25 - 165		SLTL30 - 205	
(N)	Dynamic	Static	Dynamic	Static	Dynamic	Static	Dynamic	Static
F1	1800	2450	3600	5000	6585	9260	8340	12160
F2	820	980	2000	2800	3670	5135	4600	6650
F3	1500	2100	3680	5220	6585	9260	8340	12160

Table n° 28

Loads	SLTL16 - 124	SLTL20 - 165	SLTL25 - 165	SLTL30 - 205
(Nm)	Static	Static	Static	Static
Mx	28	104	230	320
My	34	125	265	378
Mz	68	223	480	675

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