

STANDARD MACHINE ELEMENTS WORLDWIDE



Modular roller tracks ELEROLL



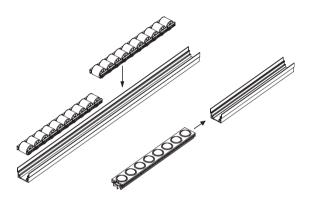
Modular roller tracks for idle handling.

They can be used to create sliding and containing benches suitable for several applications in different fields: feeding and discharging benches in construction machinery, storage and picking systems, packaging machinery, etc.

Modularity

The roller track can be easily assembled by fixing the roller or ball elements inside the appropriate aluminium profiles.

The particular section of the profile allows the snap-in assembly of the roller and ball elements into the profile without the need for screws or other fasteners.





Substitution

The roller and ball elements may be removed and replaced quickly and easily, without disassembling the entire roller track. The aluminium profile can be reused.

Sliding and quiet operation

The features of the materials of the rollers / balls and relative holders allow friction to be minimises and there is no need for lubrication maintenance.

High load capacity

The roller track ensures a high load capacity, thanks to a maximum capacity for single roller of 360N (RLT-U-PA), 200N (RLT-U15-PA) and 150N (RLT-U-TPU).

High impact strength

The roller elements are characterised by a high capacity to absorb shocks due to drop of material on the roller track.

Handling of delicate materials

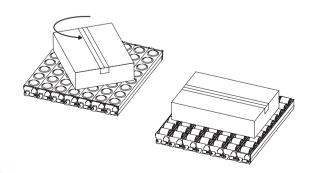
The thermoplastic (TPU) polyurethane rollers, anti-scratch and antitrace material, are also suitable for handling delicate materials such as glass and wood.

Omnidirectional handling

The technopolymer acetal resin based (POM) balls allow the easy handling of the material in any direction.

Handling of packages with reduced weight and size

The smaller diameter of the rollers ensures a reduction in vibrations and consequently a lower noise during handling of packages.





Modular roller tracks ELEROLL





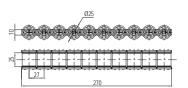
RLT-U

Roller elements

Acetal resin based (POM) technopolymer roller holder, black colour.

RLT-U-PA: polyamide based (PA) technopolymer rollers, black colour.

RLT-U-TPU: thermoplastic (TPU) polyurethane rollers, hardness 92 Shore A, grey colour.

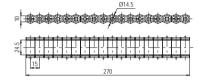




RLT-U15

Roller elements

Rollers: polyamide based (PA) technopolymer, black colour.
Roller holder: acetal resin based (POM) technopolymer,
black colour.





RLS-U

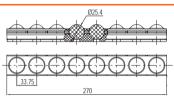
Ball elements

Balls: acetal resin based (POM) technopolymer,

white colour.

Ball holder: polyamide based (PA) technopolymer,

black colour.





RLT-AL

Aluminium profiles

The profile can hold up to 11 RLT-U, RLT-U15 roller elements or RLS-U ball elements.

The profile ensures a high resistance to bending under load, and the assembly of the roller tracks without the need for other supports.



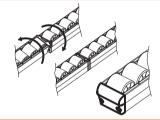
L max 2970 mm



RLT-H

Headers

RLT-HJ header serves to bind tightly two rollers by engaging them. RLT-HE header is the end-element of roller tracks. In addition to being an aesthetic element, the headers represent a safety element for the operator's hands and the handled material.





RLT-CE

Containment edge

RLT-CE containment edge is used for the lateral containment of products handled on roller tracks. It is snap-in assembled on RLT-AL aluminum profiles without the need for screws or other fasteners. It can also be mounted to the roller track already fixed.





RLT-B

Brakes

RLT-B brakes allow to slow down and/or stop packages handled on roller tracks. The brakes are snap-in assembled on RLT-U roller elements without the need for screws or other fasteners.

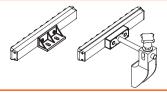




RLT-M

Bracket and support

The bracket and the support facilitate the mounting of roller tracks on machines and other supporting structures.

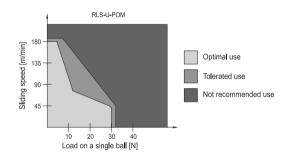




			Load capacity #	
	Profile	Roller and ball elements	Distributed load, roller fully supported	Concentrated load on a single roller / ball
MANAGE STATE OF THE PARTY OF TH	RLT-AL	RLT-U-PA	13330 N/m	360 N
The state of the s	KLI-AL	RLT-U15-PA	13330 N/m	200 N
ALL LAND	RLT-AL	RLT-U-TPU	5550 N/m	150 N
STATE OF THE PARTY	RLT-AL	RLS-U-POM	850 N/m	30 N

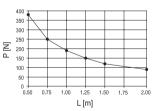
The data in the table refer to the handling of materials with a stiffness such as to keep flat the contact surface with the rollers. Otherwise the values may be lower.

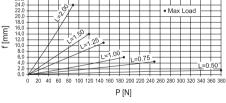
- # RLT-U-PA: load values produce an elastic deformation such as to prevent the regular rotation of the rollers, which come into contact with the ribs of the aluminum profile. At these load values however, no permanent deformation of the material occurs.
- #RLT-U15-PA: the load values exceeding the ones indicated in the table determine a reduction in the rolling resistance. However, no significant permanent deformation of the material occurs to these load values.
- # RLT-U-TPU: load values higher than those reported in the table produce a deformation such as to prevent the rotation of the rollers, that come into contact with the ribs of the aluminum profile. Loads higher than 100N for a single roller cause a reduction in the rolling resistance.
- **#RLS-U-POM:** load values that limit the smoothness of the balls inside its support, at low sliding speeds. At these load values, however, no permanent deformation of the material occurs. For higher sliding speeds, it is necessary to refer to the chart at the side.

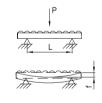


LOAD CAPACITY

LOAD CONCENTRATED IN THE CENTRE, ROLLER TRACK SUPPORTED IN TWO POINTS



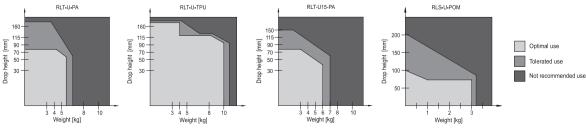




P: applied in the centre of the roller track, the load value generates an elastic deflection of the aluminum profile beyond which the product functionality may be compromised. At this load value, however, no permanent deformation of the material occurs.

L = distance between supports.f = arrow.

IMPACT STRENGTH





Roller elements for roller tracks

Technopolymer and polyurethane













Acetal resin based (POM) technopolymer roller holder, black colour.

- RLT-U-PA: polyamide based (PA) technopolymer rollers, black colour. Working temperature +90°/-20°C.
- RLT-U-TPU: thermoplastic (TPU) polyurethane rollers, hardness 92 Shore A, grey colour. Working temperature +70°/-20°C.

FEATURES AND APPLICATIONS

- The roller elements, suitably fixed inside the RLT-AL aluminum profiles (Fig. 1) create modular roller tracks for idle handling (both as sliding or containing surfaces), suitable for several applications in different fields: feeding and discharging benches in construction machinery, storage and picking systems, packaging machinery, etc..
- RLT-U-PA roller elements are also suitable for handling heavy packages, RLT-U-TPU roller elements, with rollers in anti-scratch material, allow the handling of delicate materials such as glass and wood.
- The low friction coefficient between the roller and the roller holder eliminates the need for lubrication maintenance.
- The particular section of RLT-AL profile allows the snap-in assembly
 of the roller elements into the profile without the need for screws or
 other fasteners (Fig.1). Therefore the roller elements may be quickly
 and easily removed and replaced, without disassembling the entire
 roller track.
- The roller elements are divisible in correspondence of predefined sections (Fig.2) so as to create roller tracks of the precise required length.



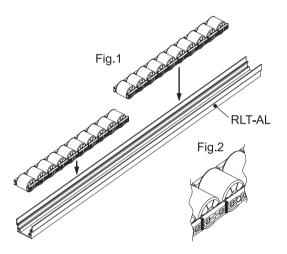
See: ELEROLL Modular roller tracks (on page 2).

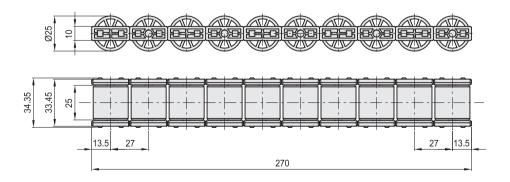
SPECIAL EXECUTIONS ON REQUEST

Rollers in different colour (for example red, yellow, green for the setting up of assembly lines and dynamic warehouses according to Kanban criteria).









RLT-U-PA

Code	Description	47
429806	RLT-U-PA	106

RLT-U-TPU

Code	Description	44
429811	RLT-U-TPU	114



Roller elements for roller tracks

For packages with reduced size, technopolymer









ROLL FRS

Polyamide based (PA) technopolymer, black colour. Working temperature +90°/-20°C.

ROLLER HOLDER

Acetal resin based (POM) technopolymer, black colour.

FEATURES AND APPLICATIONS

- The roller elements, suitably fixed inside the RLT-AL aluminum profiles (Fig. 1) create modular roller tracks for idle handling (both as sliding or containing surfaces), suitable for several applications in different fields: feeding and discharging benches in construction machinery, storage and picking systems, packaging machinery, etc..
- RLT-U15 roller elements are suitable for handling of packages with reduced weight and size. The smaller diameter of the rollers ensures a reduction in vibrations and consequently a lower noise during handling of packages.
- The low friction coefficient between the roller and the roller holder eliminates the need for lubrication maintenance.
- The particular section of RLT-AL profile allows the snap-in assembly
 of the roller elements into the profile without the need for screws or
 other fasteners (Fig.1). Therefore the roller elements may be quickly
 and easily removed and replaced, without disassembling the entire
 roller track.
- The roller elements are divisible in correspondence of predefined sections (Fig.2) so as to create roller tracks of the precise required length.
- All the accessories of ELEROLL series can also be used with the RLT-U15 roller elements, except for RLT-B brakes.

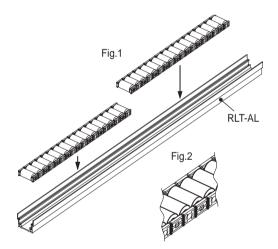
TECHNICAL DATA

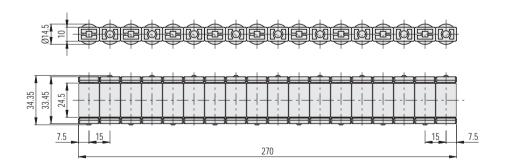
See: ELEROLL Modular roller tracks (on page 2).

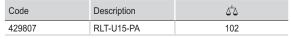
SPECIAL EXECUTIONS ON REQUEST

Thermoplastic (TPU) polyurethane rollers.











Ball elements for roller tracks

Technopolymer







BALLS

Acetal resin based (POM) technopolymer, white colour.

BALL HOLDER

Polyamide based (PA) technopolymer, black colour.

FEATURES AND APPLICATIONS

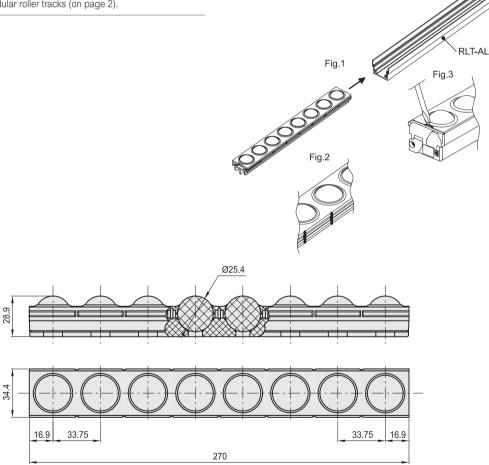
- The ball elements, suitably fixed within the RLT-AL aluminum profiles (Fig. 1) create modular roller tracks for idle omnidirectional handling.
- The ball elements can be combined with RLT-U roller elements for various applications in different fields: feeding and discharging benches in construction machinery, storage and picking systems, packaging machinery, etc.
- The low friction coefficient between the ball and the ball holder eliminates the need for lubrication maintenance.
- The particular section of RLT-AL profile allows the fixing of the ball elements into the profile without the need for screws or other fasteners (Fig.1).
- The ball elements are divisible in correspondence of predefined sections (Fig.2) so as to create roller tracks of the precise required length.
- The balls may be removed and replaced without disassembling the entire roller track, by using a common screwdriver in the appropriate notch cut into the ball holder (Fig. 3).



See: ELEROLL Modular roller tracks (on page 2).







Code	Description	44
429801	RLS-U-POM	151



Profiles for roller tracks

Aluminium



STANDARD EXECUTIONS

- RLT-AL-AN: anodised aluminium, natural colour.
- RLT-AL-BL: aluminium, natural colour.
- RLT-AL-AN-SL: anodised aluminium, natural colour, slotted holes .

FEATURES AND APPLICATIONS

The profile can hold up to 11 RLT-U, RLT-U15 roller elements or RLS-U ball elements. The particular section of the profile allows the interlocking fixing of the roller and ball elements without the need for screws or other fasteners.

The profile ensures a high resistance to bending under load, and the assembly of the roller tracks, even in case of not complete support (Fig. 2), without the need for other supports.

SPECIAL EXECUTIONS ON REQUEST

Profiles with length different from the standard executions (maximum length 2970 mm).

ASSEMBLY INSTRUCTIONS

Fix the profile to the supporting structure with screws of suitable size and number for the specific application, by making, if necessary, appropriate holes in the base of the profile.

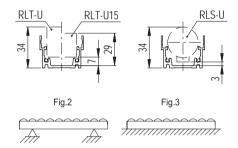
The profile can be mounted in two points of support (Fig.2) or in complete support (Fig. 3).

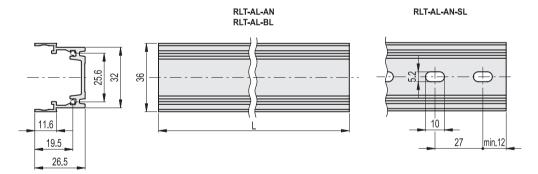
For the drainage of any fluids that can collect inside the profile (for example in case of applications on machines and equipment whose parts must be frequently cleaned by using water jets, for hygienic reasons) it is recommended, if necessary to make holes of appropriate size and shape in the base of the profile.

TECHNICAL DATA

See: ELEROLL Modular roller tracks (on page 2).







RLT-AL-AN		RLT-AL-BL		RLT-AL-AN-S	L		
Code	Description	Code	Description	Code	Description	L	47
429900-0270	RLT-AL-270-AN	429920-0270	RLT-AL-270-BL	429910-0270	RLT-AL-270-AN-SL	270	123
429900-0540	RLT-AL-540-AN	429920-0540	RLT-AL-540-BL	429910-0540	RLT-AL-540-AN-SL	540	247
429900-0810	RLT-AL-810-AN	429920-0810	RLT-AL-810-BL	429910-0810	RLT-AL-810-AN-SL	810	370
429900-1080	RLT-AL-1080-AN	429920-1080	RLT-AL-1080-BL	429910-1080	RLT-AL-1080-AN-SL	1080	495
429900-1350	RLT-AL-1350-AN	429920-1350	RLT-AL-1350-BL	429910-1350	RLT-AL-1350-AN-SL	1350	618
429900-1620	RLT-AL-1620-AN	429920-1620	RLT-AL-1620-BL	429910-1620	RLT-AL-1620-AN-SL	1620	740
429900-1890	RLT-AL-1890-AN	429920-1890	RLT-AL-1890-BL	429910-1890	RLT-AL-1890-AN-SL	1890	865
429900-2160	RLT-AL-2160-AN	429920-2160	RLT-AL-2160-BL	429910-2160	RLT-AL-2160-AN-SL	2160	990
429900-2430	RLT-AL-2430-AN	429920-2430	RLT-AL-2430-BL	429910-2430	RLT-AL-2430-AN-SL	2430	1110
429900-2700	RLT-AL-2700-AN	429920-2700	RLT-AL-2700-BL	429910-2700	RLT-AL-2700-AN-SL	2700	1235
429900-2970	RLT-AL-2970-AN	429920-2970	RLT-AL-2970-BL	429910-2970	RLT-AL-2970-AN-SL	2970	1360

Headers for roller tracks

Technopolymer







MATERIAL

Polyamide based (PA) technopolymer, black colour.

STANDARD EXECUTIONS

- RLT-HJ: joining header.
- RLT-HE: end header.

FEATURES AND APPLICATIONS

RLT-HJ header serves to bind tightly two ELEROLL rollers by engaging them (Fig. 1).

RLT-HE header is the end-element of ELEROLL roller tracks (Fig. 2). In addition to being an aesthetic element, the headers represent a safety element for the operator's hands and the handled material.

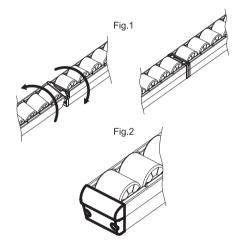
MOUNTING

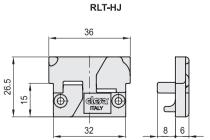
Assemble the headers to the end of RLT-AL aluminum profile by means of two UNI 6954 Ø 2,9 x13 self-tapping screws (included in the supply).











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RLT-HJ

Code	Description	\$
429823	RLT-HJ	4

RLT-HE

Code	Description	$\Delta \Delta$
429813	RLT-HE	6



Containment edge for roller tracks

RoHS

Technopolymer



Brakes for roller tracks

Technopolymer







MATERIAL

Polyamide based (PA) technopolymer, black colour.

FEATURES AND APPLICATIONS

Realized to be used with RLT-U and RLT-U15 roller elements, RLT-CE containment edge needs for the lateral containment of light products handled on ELEROLL roller tracks (Fig.1).

For the containment of medium-heavy materials refer to the RLT-M series (Fig. 3).

The edge is snap-in assembled on RLT-AL aluminum profiles without the need for screws or other fasteners (Fig.2). It can also be mounted to the roller track already fixed.

MATERIAL

RLT-B

Polyamide based (PA) technopolymer, black colour.

STANDARD EXECUTIONS

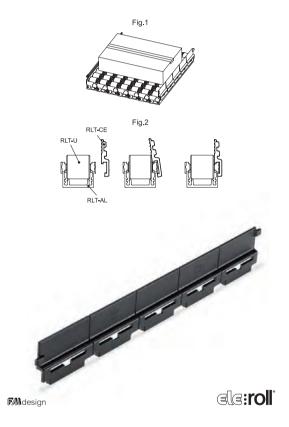
- RLT-BR: brake for RLT-U roller elements.
- RLT-BRS: brake for RLT-U roller elements with stop device.

FEATURES AND APPLICATIONS

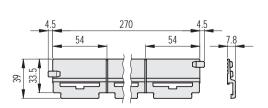
RLT-B brakes allow to slow down and/or stop packages handled on ELEROLL roller tracks.

The brakes are snap-in assembled on RLT-U roller elements without the need for screws or other fasteners.

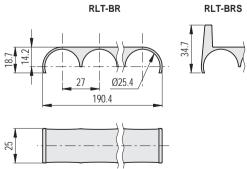
RLT-BR brake can be assembled on the upper side of RLT-U-PA and RLT-U-TPU roller elements (Fig. 1) or on the lower side of the RLT-U-TPU roller elements (Fig. 2).







Code	Description	2,7
429826	RLT-CE	34



Code	Description	55
429836	RLT-BR	12
429831	RLT-BRS	14



Bracket and support for roller tracks

Technopolymer







MATERIAL

Polyamide based (PA) technopolymer, black colour.

STANDARD EXECUTIONS

- RLT-MB: bracket.
- RLT-MS: support.
- RLT-MS-A12: support with connecting rod and M6 cylindrical head screw with hexagon socket.

FEATURES AND APPLICATIONS

The bracket and the support facilitate the mounting of ELEROLL roller tracks on machines and other supporting structures.

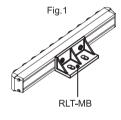
MOUNTING

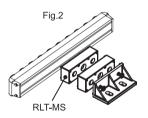
The bracket and the support are equipped with dowels that are housed in the slots in the lower side of RLT-AL aluminum profiles (Fig. 1) and in special counterseats on the same support for the combination of more supporting elements (Fig. 2).

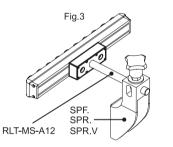
RLT-MB bracket is compatible with profiles having a slot of 8 mm width (Fig.4).

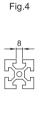
The bracket and the support allow to mount ELEROLL roller tracks in different configurations. Some examples are shown in Fig.1, Fig.2 and Fig.3.











RLT-MB RLT-MS RLT-MS-A12 Ø12 h11 Ø14.1 2.5 38 54 8 Ø12.1 33.5 20. 32 8.5 54 10 86 40

RLT-MB

85

Code	Description	77
429841	RLT-MB	35

RLT-MS

Code	Description	7,7
429846	RLT-MS	49

RLT-MS-A12

Code	Description	7.7
429848	RLT-MS-A12	145





ELESA. More and more...





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