

Transmisiones Ltda.
Carrera 68 B # 21 A - 24, bodega UE 28- 1
Parque Industrial Montevideo PBX: (57+1) 4126898
Bogotá - Colombia
info@ transmisiones.de
www.transmisiones.de



Cable drag chain systems

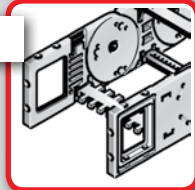
MP 52.6, MP 52.7

System overview

1

Chain bracket

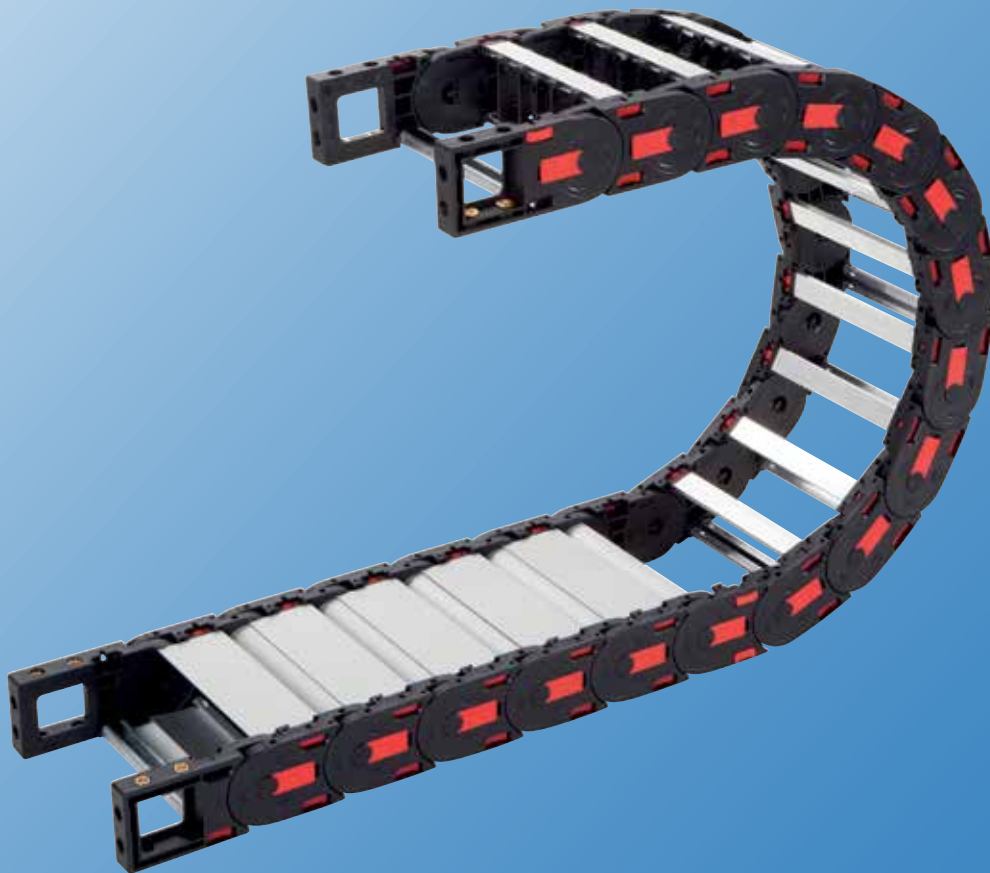
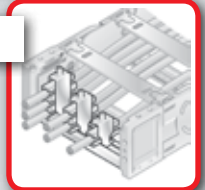
Chain bracket flexible



2

Strain relief

STF Steel Fix



3

Shelving system

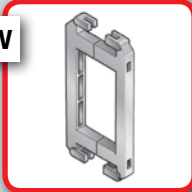
Shelving system RS



Separator TR



Frame bridge connector RSV



4

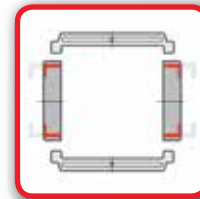
Guide channels

Aluminium VAW

VAW-E stainless steel

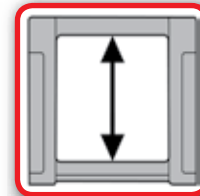


Technical data



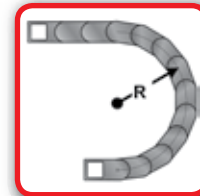
Loading side

Inside and outside bend



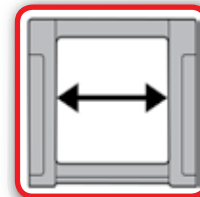
Available interior heights

52.0 mm



Available radii

250.0 – 300.0 mm



Available interior widths

71.0 – 600.0 mm

With aluminium frame rail
71.0 – 600.0 mm

Ordering key

Type	Variation	Dimensions			Rail variant	Material	Chain length mm
		Inside width mm	Outside width mm	Radius mm			
0526	30	71	121	250	5	1) reduced inner height, reduced max. cable diameter, see chain link drawing (values in brackets)	0
0527	44 ¹⁾	84	134	300	7		
		96	146				
		107	157				
		121	171				
		133	183				
		144	194				
		146	196				
		158	208				
		171	221				
		182	232				
		196	246				
		220	270				
		246	296				
		296	346				
		346	396				
		396	446				
		421	471				
		446	496				
		496	546				
		546	596				
		600	650				

Ordering key	Dimensions	Radius	Rail variant	Chain length
[-]-[-]-[-]	[-]-[-]-[-]	[-]-[-]	[-]-[-]	[-]-[-]-[-]-[-]

Note on configuration

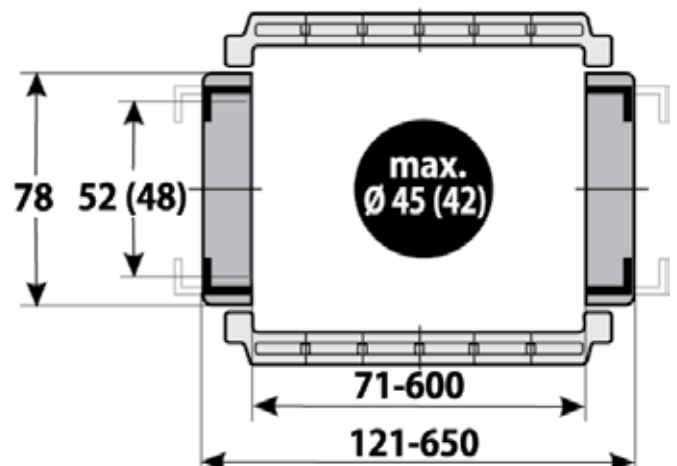
Frame bridges and cover from aluminium:
Aluminium frame bridges and covers can be supplied in 1 mm width sizes for inner widths from 71.0 mm – 600.0 mm available.

Crossbar connector:
Once inner widths exceed 246 mm, we recommend the deployment of crossbar connectors (RSV).
Crossbar connectors cannot be used in conjunction with covers made from plastic or aluminium.

For detailed information, please consult the corresponding product documentation.

Chain link

Loading side: Inside and outside bend



Dimensions in mm

0 Standard (PA/black)

5 Aluminium full-ridged
without bias
7 Aluminium half-ridged
without bias

30 Frame bridge on outside of radius
Frame bridge on inside bend
Opens on inside and outside of radius
44 Cover on outside of radius
Cover on inside of radius
Opens on inside and outside of radius

Sample order: 0526 30 220 250 5 0 25000

Frame bridge in outside bend, frame bridge in inside bend, can be opened from inside and outside bend
Inside width 220 mm; radius 250 mm
Aluminium bridge, full-ridged without bias, material black-coloured polyamide
Chain length 25000 mm (275 links)

Technical specifications

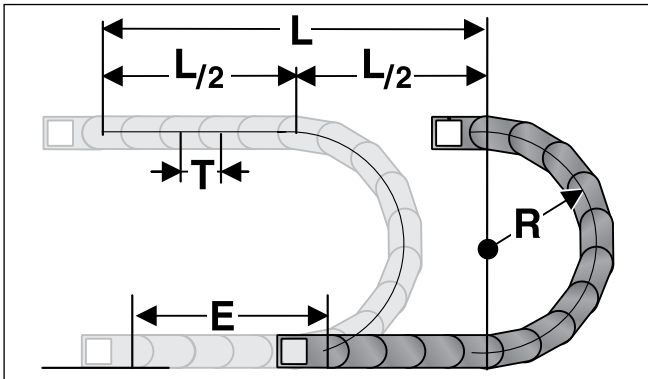
Travel distance gliding L_g max.:	150.0 m
Travel distance vertical, hanging L_{vh} max.:	60.0 m
Travel distance vertical, upright L_{vs} max.:	6.0 m
Rotated 90°, unsupported L_{90f} max.:	1.5 m
Speed, gliding V_g max.:	6.0 m/s
Acceleration, gliding a_g max.:	10.0 m/s ²

Material properties

Standard material:	Polyamide (PA) black
Service temperature:	-30.0 – 120.0 °C
Gliding friction factor:	0.3
Static friction factor:	0.45
Fire classification:	UL 94 HB

Other material properties on request.

Determining the chain length

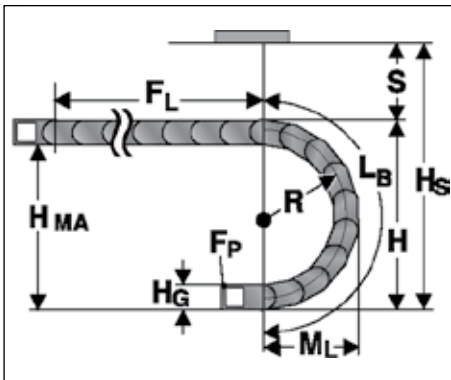


The fixed point of the cable drag chain should be connected in the middle of the travel distance. This arrangement gives the shortest connection between the fixed point and the moving consumer and thus the most efficient chain length.

Chain length calculation = $L/2 + \pi * R + E$
 $\approx 1 \text{ m chain} = 11 \text{ qty.links, } 91.0 \text{ mm each.}$

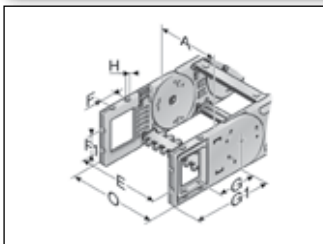
E = distance between entry point and middle of travel distance
 L = travel distance
 R = radius
 T = Pitch

Installation dimensions



Radius R	250	300
Outside height of chain link (H_0)	78	78
Height of bend (H)	578	678
Height of driver connection (H_{MA})	500	600
Safety margin (S)	12	12
Installation height (H_2)	590	690
Arc projection (M_L)	380	430
Bend length (L_b)	998	1155

Flexible chain bracket KA 52.6

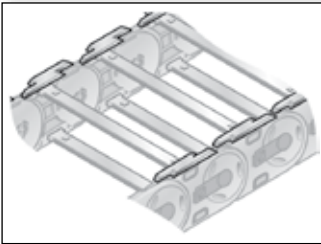


KA 82-F...

This chain bracket offers universal connection options (top, bottom and front) and is attached to the ends of the chain like a side link. This allows the chain to move right up to the bracket. Each chain requires one male and one female bracket. M8 screws are used to secure the brackets in place. Press-in metal bushes with a through-hole ensure the permanent, high-strength transmission of even extreme forces onto the cable drag chain.

Type	Order no.	Material	Version	Inside width							Outside width KA	
				A mm	E mm	F mm	F1 mm	G mm	G1 mm	H0 mm	O mm	
KA 52.6-F Hole, completely	0526000050	Plastic	with bush	71.0 – 600.0	A+25.0	35.0	30.0	72.5	131.0	8.5	A+50.0	
KA 52.6-F Male end, completely	0526000051	Plastic	with bush	71.0 – 600.0	A+25.0	35.0	30.0	72.5	131.0	8.5	A+50.0	

Sliding block MP 52.6



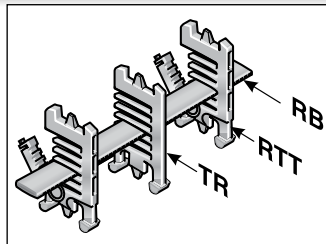
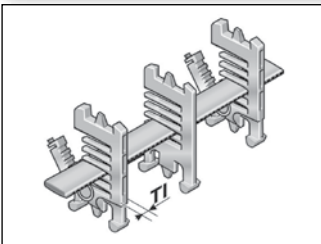
In the case of cable drag chains, sliding blocks are used in a horizontally sliding installation mode (the tight side of the chain slides on the slack side).

The sliding blocks are set onto the side links on the interior bend (no tools necessary). This forces the chain to slide on the sliding blocks instead on the side links of the chain.

Depending on the application, the service life of the cable drag chain may be extended five-fold, by using slide blocks.

Type	Order no.	Installation site	Sliding block height mm
GS 52.6.1 G	052690400306	for right side link	4.0
GS 52.6.2 G	052690400304	for left side link	4.0

Shelving system 52.6

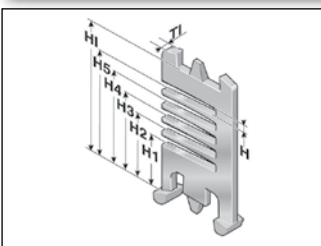


In connection with at least two shelf supports (RTT) the shelf becomes a shelving system. The additional levels prevent cables from criss-crossing and therefore destroying each other, whilst also avoiding excessive friction. Pre-assembly is not necessary as the shelving system and cabling can be assembled quickly and easily on site.

Shelving system

Type	Order no.	Designation	Width mm	Pitch mm	Tl mm
RB 028-5	100000002800	Shelf	28.0	5.6	
RB 056-5	100000005601	Shelf	56.0	5.6	
RB 084-5	100000008400	Shelf	84.0	5.6	
RB 112-5	100000011200	Shelf	112.0	5.6	
RB 140-5	100000014000	Shelf	140.0	5.6	
RB 168-5	100000016800	Shelf	168.0	5.6	
RB 196-5	100000019600	Shelf	196.0	5.6	
RTT 52	100090522000	Shelf support, divisible		5.6	7.0

Separator TR 52.1

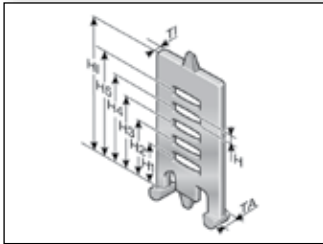


We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

The TR 52.1 dividing mullion is used with the separable RTT 52 shelf support and RB shelf floors.

Type	Order no.	Designation	Tl mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	Hl mm
TR 52.1	052100009200	TR 52.1 Separator	3.5	4.0	15.6	22.0	28.2	34.6	41.0	52.0

Separator TR 52

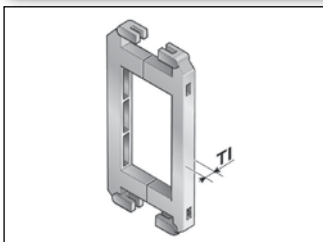


We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

The closed and sturdy TR52 dividing mullion is used when the shelving system of choice is one without separable shelf supports and shelf floors. This is the recommended design for travel paths of 30 metres or greater.

Type	Order no.	Designation	T1 mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	HI mm
TR 52	052000009200	TR 52 Separator	3.5	4.0	16.3	22.3	28.2	33.8	39.8	52.0

Crossbar connector RSV 52

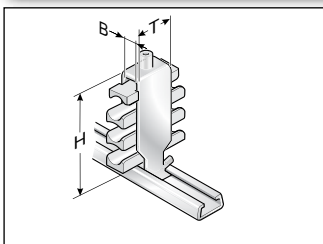


Crossbar connector

For frame bridges wider than 246 mm, we recommend the use of crossbar connectors. These prevent deformation to the frame bridge under large amounts of additional weight of the chain assembly.

Type	Order no.	Designation	T1 mm
RSV 52 Alu	052000009800	Crossbar connector for aluminium frame bridges	7.5

Steel Fix



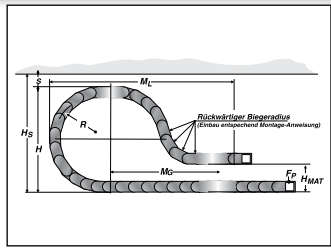
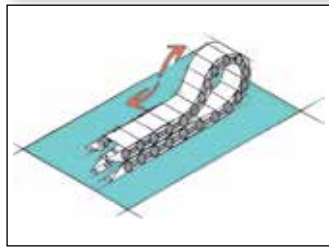
C-rails (cathodic dipped) for permanent integration, for accommodating the Steel Fix bow clamps in the chain brackets. The bow clamps can take up to 3 cables and are suitable for C-rails with a groove width of 11 mm. Due to the design of the trough elements a cable preserving cable guidance is ensured. Adjusted to all inside widths up to 200 mm. May be assembled on the inside and outside flexure curves at both chain endings. The entire height entered is a guide only. The actual height is, amongst other things, dependent on the diameter and the quality of the cable. A safety distance of 10 mm at the fixed point above the strain relief must be kept during gliding applications.

Type	Order no.	Designation	Ø mm	Seats qty.
Abrazadera omega simple (para un cable)				
STF 12-1 Steel Fix	81661801	Hooped clamp	6.0 – 12.0	1
STF 14-1 Steel Fix	81661802	Hooped clamp	12.0 – 14.0	1
STF 16-1 Steel Fix	81661803	Hooped clamp	14.0 – 16.0	1
STF 18-1 Steel Fix	81661804	Hooped clamp	16.0 – 18.0	1
STF 20-1 Steel Fix	81661805	Hooped clamp	18.0 – 20.0	1
STF 22-1 Steel Fix	81661806	Hooped clamp	20.0 – 22.0	1
STF 26-1 Steel Fix	81661807	Hooped clamp	22.0 – 26.0	1
STF 30-1 Steel Fix	81661808	Hooped clamp	26.0 – 30.0	1
STF 34-1 Steel Fix	81661809	Hooped clamp	30.0 – 34.0	1
STF 38-1 Steel Fix	81661810	Hooped clamp	34.0 – 38.0	1

Lowered fixing point MP 52.6

Type	Order no.	Designation	Ø mm	Seats qty.
STF 42-1 Steel Fix	81661811	Hooped clamp	38.0 – 42.0	1
Abrazadera omega doble (para dos cables)				
STF 12-2 Steel Fix	81661821	Hooped clamp	6.0 – 12.0	2
STF 14-2 Steel Fix	81661822	Hooped clamp	12.0 – 14.0	2
STF 16-2 Steel Fix	81661823	Hooped clamp	14.0 – 16.0	2
STF 18-2 Steel Fix	81661824	Hooped clamp	16.0 – 18.0	2
STF 20-2 Steel Fix	81661825	Hooped clamp	18.0 – 20.0	2
STF 22-2 Steel Fix	81661826	Hooped clamp	20.0 – 22.0	2
STF 26-2 Steel Fix	81661827	Hooped clamp	22.0 – 26.0	2
STF 30-2 Steel Fix	81661828	Hooped clamp	26.0 – 30.0	2
STF 34-2 Steel Fix	81661829	Hooped clamp	30.0 – 34.0	2
Triple clamp (for three cables)				
STF 12-3 Steel Fix	81661841	Hooped clamp	6.0 – 12.0	3
STF 14-3 Steel Fix	81661842	Hooped clamp	12.0 – 14.0	3
STF 16-3 Steel Fix	81661843	Hooped clamp	14.0 – 16.0	3
STF 18-3 Steel Fix	81661844	Hooped clamp	16.0 – 18.0	3
STF 20-3 Steel Fix	81661845	Hooped clamp	18.0 – 20.0	3
STF 22-3 Steel Fix	81661846	Hooped clamp	20.0 – 22.0	3

Lowered fixing point MP 52.6



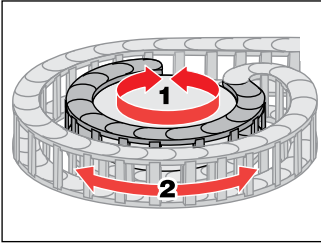
It is sometimes necessary to lower the height of the moving attachment point.

In such cases, modifications to the chain layout should be noted (e.g. extension of chain).

Please contact our application engineers.

Radius R mm	Hight of driver connection (H_{MA}) mm	Safety margin (S) mm	Installation height incl. safety (H_s) mm	Projection (M_l) mm	Additional links qty.	of which additional back chain links qty.
250.0	250.0	50.0	628.0	990.0	13.0	3.0
300.0	300.0	50.0	728.0	900.0	14.0	3.0

Rear-facing MP 52.6



Rotating movement

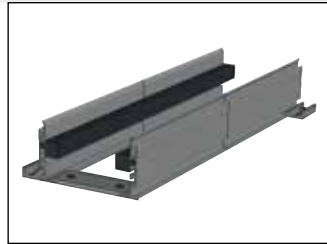
Side links with radius forward (R) and radius backward (Rü) allow for movement in two directions. This is intended for rotating movements and lowered chain brackets. Note: This type of chain has different chain links for the left or right side!

Type	Order no.	Radius mm	Rear-facing radius mm
SR 52.6 RK250.2 (RÜ250/R250) left GS	052600025060	250.0	250.0
SR 52.6 RK250.1 (RÜ250/R250) right GS	052600025062	250.0	250.0

Guide channel VAW (aluminium / stainless steel)



VAW-E



VAW

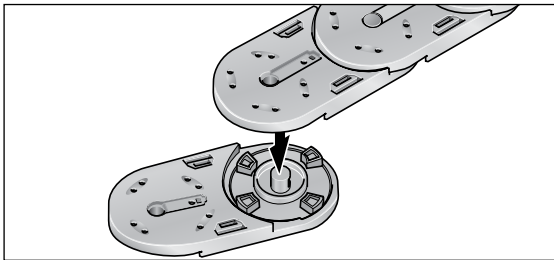
For this cable drag chain, a range of variable guide channel systems are available, constructed from aluminium or stainless steel sections.

The variable guide channel ensures that the cable drag chain is supported and guided securely.

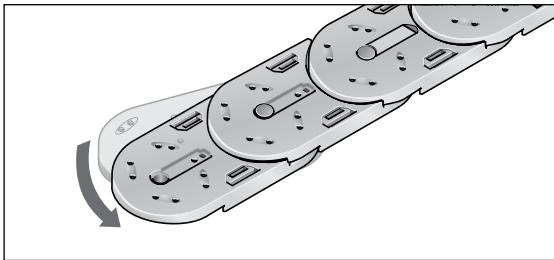
For help on choosing, please consult the chapter „Variable Guide Channel System“.

Assembly

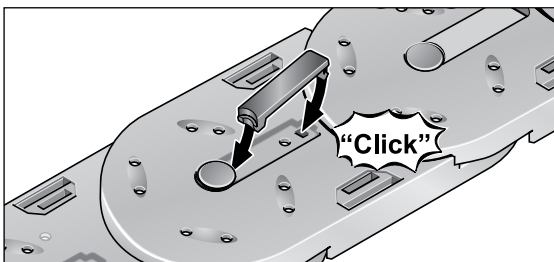
Disassembly



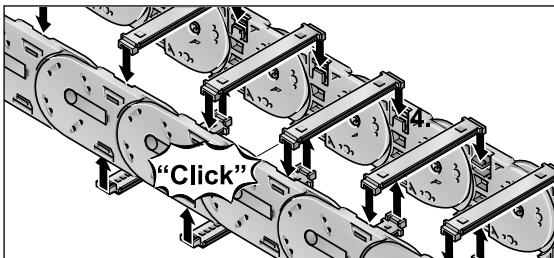
Step 1



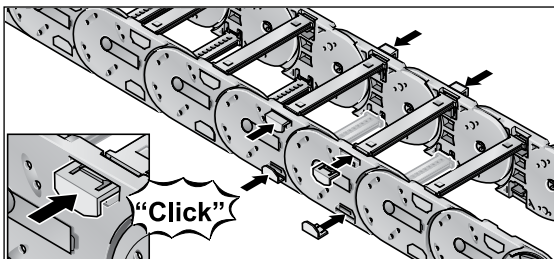
Step 2



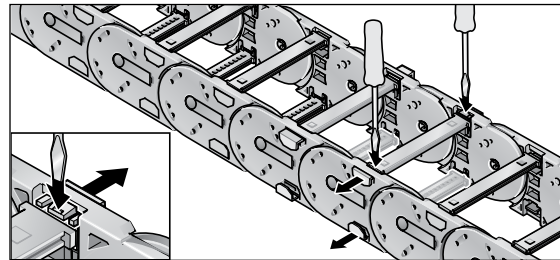
Step 3



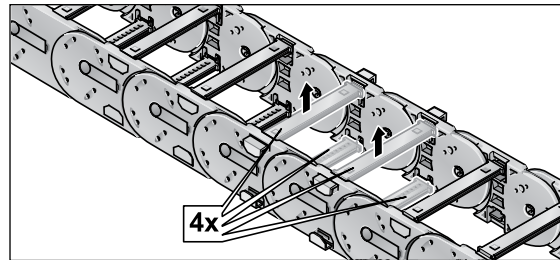
Step 4



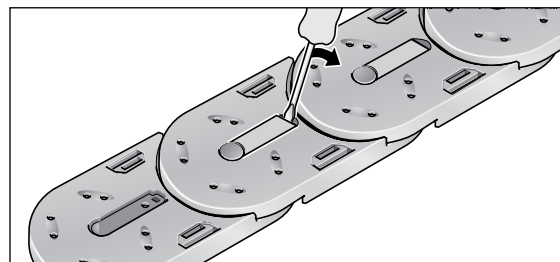
Step 5



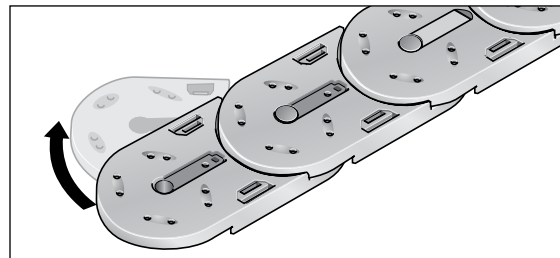
Step 1



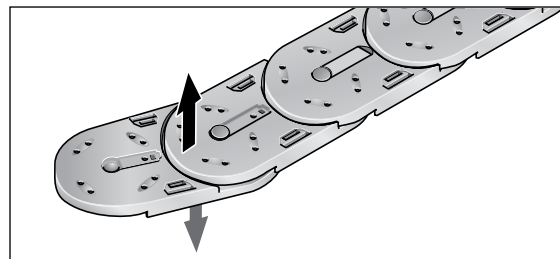
Step 2



Step 3



Step 4



Step 5

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The electronic data and files made available by Murrplastik, particularly CAD files are based on our current knowledge of the product described.

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