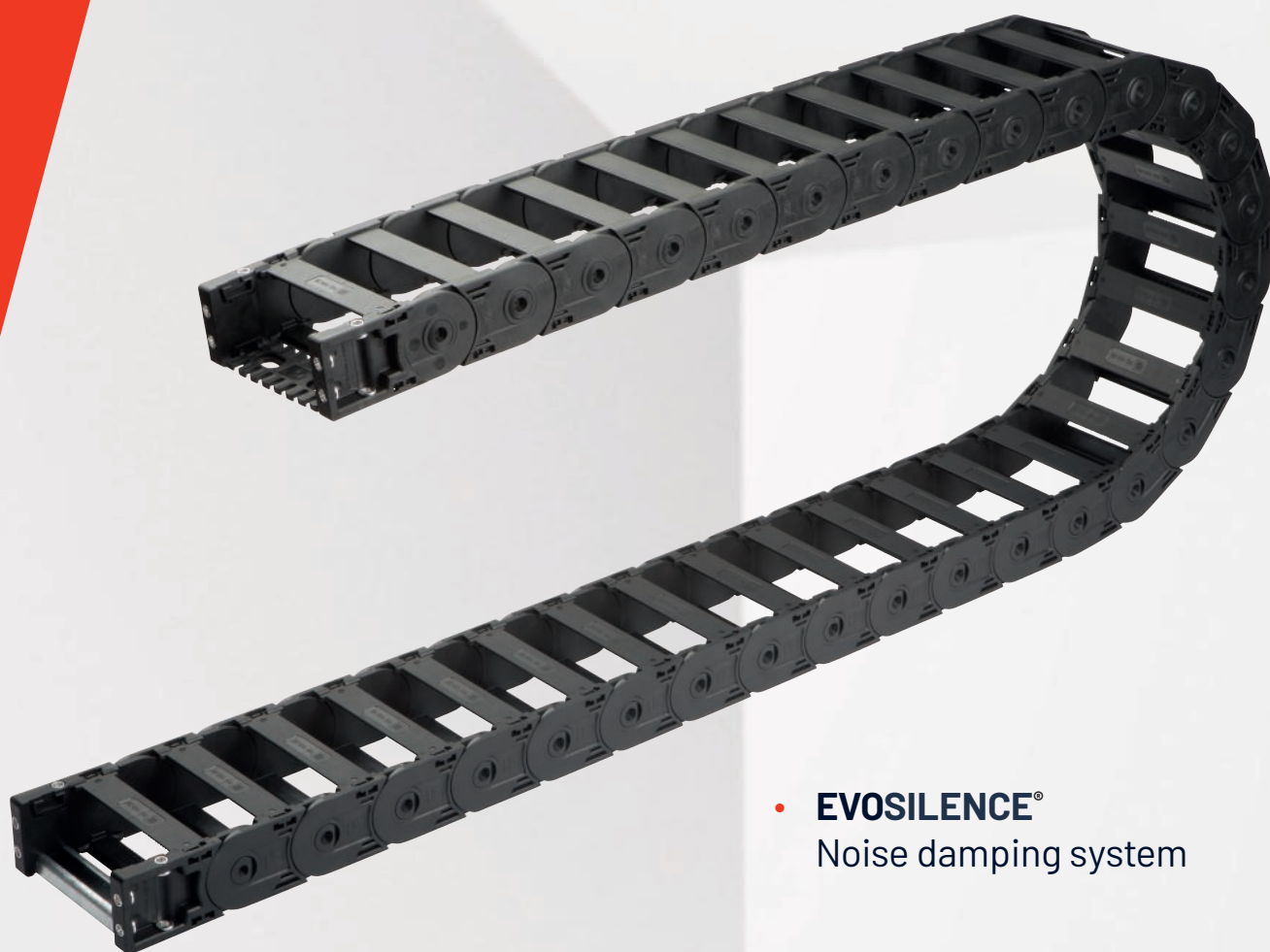


Data sheet

EVOCHAIN® PLUS MP 35.1 **MP 35.2**



- **EVOSILENCE®**
Noise damping system



murrplastik®
Simply Smart Systems



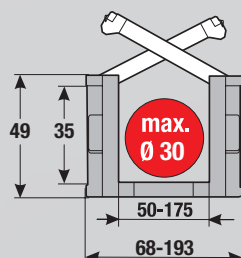
35.1

OPEN

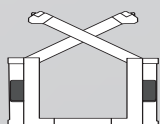

35.2

OPEN

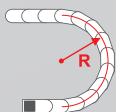

- LOW-COST VARIANT
- SOFT-STOP SYSTEM
- SUITABLE FOR UNIVERSAL USE
- CHAIN BRACKET WITH STRAIN RELIEF
- EXTENSIVE AND EASY TO INSTALL INTERIOR PARTITIONING



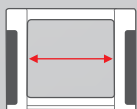
TECHNICAL DATA



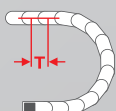
Loading side
Inside or outside bend



Available radii
63.0 - 250.0 mm



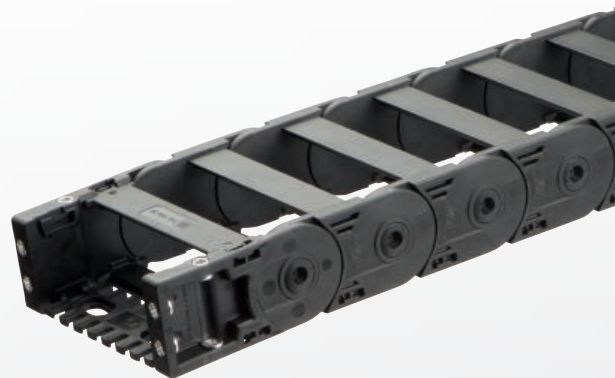
Available interior widths
With plastic crossbar
50.0 - 175.0 mm



Grid
T = 56.0 mm



EVOSILENCE®
Noise damping in side link
Reduction of the noise emission by up to 10 dB(A) by using damping elements in the chain links.





TECHNICAL SPECIFICATIONS

Travel distance gliding L_g max.	80.0 m
Travel distance self-supporting L_t max.	see diagram on page 5
Travel distance vertical, hanging L_{vh} max.	50.0 m
Travel distance vertical standing L_{vs} max.	3.0 m
Rotated 90°, self-supporting L_{90} max.	1.0 m
Speed, gliding V_g max.	5.0 m/s
Speed, self-supporting V_t max.	20.0 m/s
Acceleration, gliding a_g max.	15.0 m/s ²
Acceleration, self-supporting a_t max.	50.0 m/s ²

Contact our engineering department to meet any higher requirements: efk@murrplastik.de

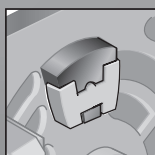
MATERIAL PROPERTIES

Standard material	Polyamide (PA) black
Service temperature	-30.0 - 120.0 °C (-76 to 176 °F)
Gliding friction factor	0.3
Static friction factor	0.45
Fire classification	UL 94 HB

Other material properties on request.

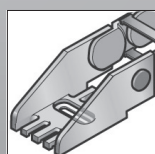
MP 35.1 OPEN / MP 35.2 OPEN

ACCESSORIES

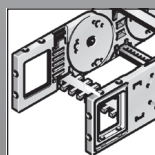


Damping element
EVOSILENCE® in side link

CHAIN BRACKET

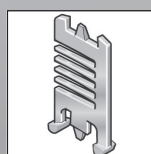


Chain bracket U-part

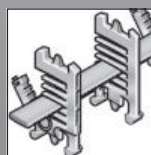


Flexible chain bracket

SHELVING SYSTEM



TR separator

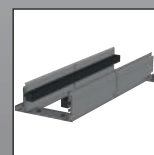


RS shelving system

GUIDE CHANNELS



VAW steel galvanized /
stainless steel

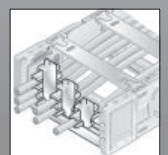


VAW aluminum

STRAIN RELIEF



Crossbar RS-ZL

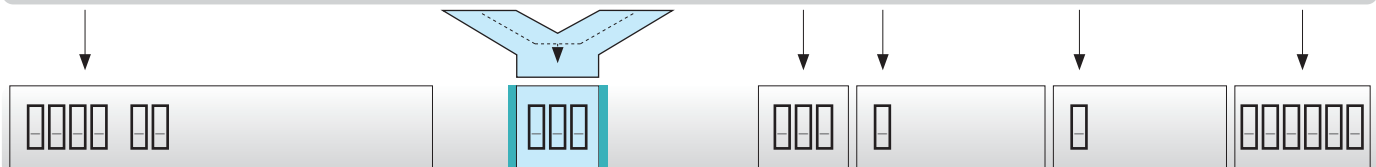


STF Steel Fix

ORDER KEY

Dimensions in mm [US inch]

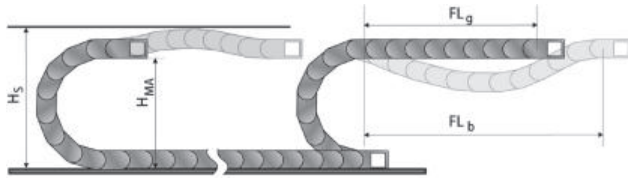
Type code	Variant	Inside width	Outside width	Inside width	Outside width	Radius	Crossbar variant	Material	Chain length
0351 01	MP 35.1 open Crossbar in outside bend Crossbar in inside bend Opens on outside bend	050 [1.97]	068 [2.68]			063 [2.48]	0 Plastic, full-ridged with bias	2 Polyamide without attenuator (PA/black)	
		065 [2.56]	083 [3.27]						
0352 02	MP 35.2 open Crossbar in outside bend Crossbar in inside bend Opens on inside bend	075 [2.95]	093 [3.66]			075 [2.95]	1 Plastic, full-ridged without bias	3 Polyamide with attenuator (PA/black)	
		090 [3.54]	108 [4.25]						
		100 [3.94]	118 [4.65]			100 [3.94]		7 ESD (PA/light gray) (on request)	
		125 [4.92]	143 [5.63]						
		150 [5.91]	168 [6.61]			125 [4.92]		9 Special version (on request)	
		175 [6.89]	193 [7.60]						
						150 [5.91]			
						175 [6.89]			
						200 [7.87]			
						250 [9.84]			



ORDERING EXAMPLE: 0352 02 075 100 0 3 2016

Crossbar in outside bend, crossbar in inside bend, can be opened from inside bend
 Inside width 075 mm, radius 3.93 in (100 mm)
 Plastic, full-ridged with bias, material polyamide with damper (PA/black)
 Chain length 2016 mm (36 links)

SELF-SUPPORTING LENGTH



The self-supporting length is the distance between the chain bracket on the moving end and the start of the chain arch.

The installation variant FL_g offers the lowest load and wear for the energy chain.

The maximum travel parameters (speed and acceleration) can be applied for this variant.

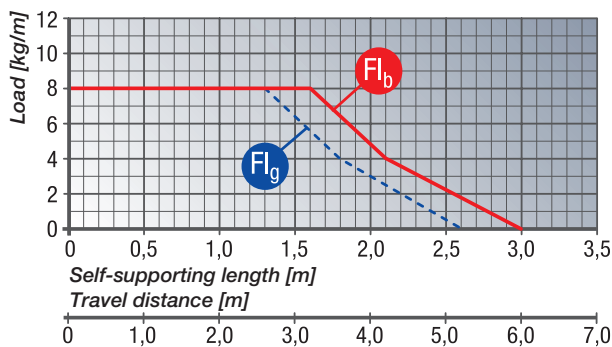
H_s = Installation height plus safety

H_{MA} = Height of moving end bracket

FL_g = Self-supporting length, upper run straight

FL_b = Self-supporting length, upper run bent

LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



FL_g Self-supporting length, upper run straight

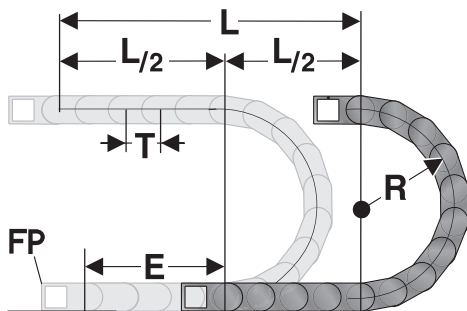
In the FL_g range, the chain upper run still has a bias, is straight or has a maximum sag of 60.0 mm.

FL_b Self-supporting length, upper run bent

In the FL_b range, the chain upper run has a sag of more than 60.00 mm, but this is still less than the maximum sag.

Where the sag is greater than that permitted in the FL_b range, the application is critical and should be avoided. The self-supporting length can be optimized by using a support for the upper run or a more stable energy chain.

DETERMINING THE CHAIN LENGTH



The fixed point of the energy chain should be connected in the middle of the travel distance.

This arrangement gives the shortest connection between the fixed point (FP) and the moving bracket and thus the most efficient chain length.

Chain length calculation = $L/2 + \pi \cdot R + E$

≈ 1 m chain = 18 links, 56.0 mm each

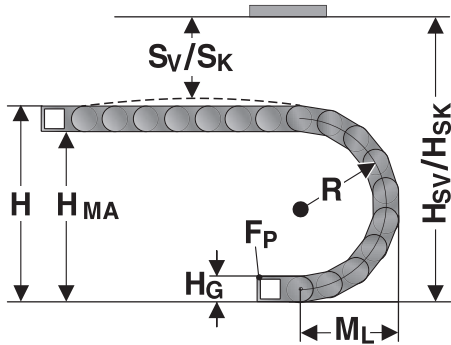
E = Distance between entry point and middle of travel distance

L = Travel distance

R = Radius

T = Grid 56.0 mm

INSTALLATION DIMENSIONS



The moving end chain bracket is to be screw fixed at height H_{MA} for the respective radius.

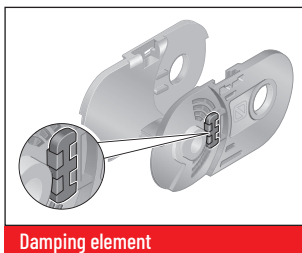
Concerning the installed dimensions, you must take into account whether the chain links are equipped with or without bias.

For chain links without bias, the "installed height without bias H_{SK} " has to be taken into account.

If the chain links are equipped with a bias, the "installed height with bias H_{SV} " has to be taken into account.

Radius R	63	75	100	125	150	175	200	250
Outside height of chain link (H_b)	49	49	49	49	49	49	49	49
Height of bend (H)	175	199	249	299	349	399	449	549
Height of moving end bracket (H_{MA})	126	150	200	250	300	350	400	500
Safety margin with bias (S_V)	20	20	20	20	20	20	20	20
Installation height with bias (H_{SV}) without damper	245	269	319	369	419	469	519	619
Installation height with bias (H_{SV}) with damper	265	289	339	389	439	489	539	639
Safety margin without bias (S_K)	20	20	20	20	20	20	20	20
Installation height without bias (H_{SK}) without damper	195	219	269	319	369	419	469	569
Installation height without bias (H_{SK}) with damper	215	239	289	339	389	439	489	589
Arc projection (M_L)	144	156	181	206	231	256	281	331

EVOSILENCE® DAMPING ELEMENT IN SIDE LINK

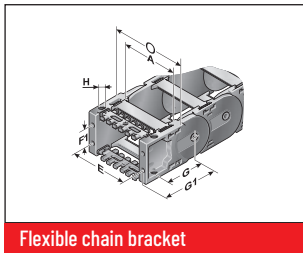


Damping element

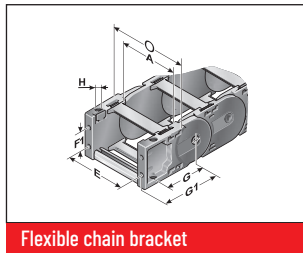
The EVOSILENCE® damping element is an extremely durable noise damping system in the chain link, which works through a specially developed TPE (thermoplastic elastomer) (optional).

Due to the large and almost wear-free damping element in the chain link, the energy chains roll up to 10 dB(A) quieter.

KA 35 FLEXIBLE CHAIN BRACKET



Flexible chain bracket



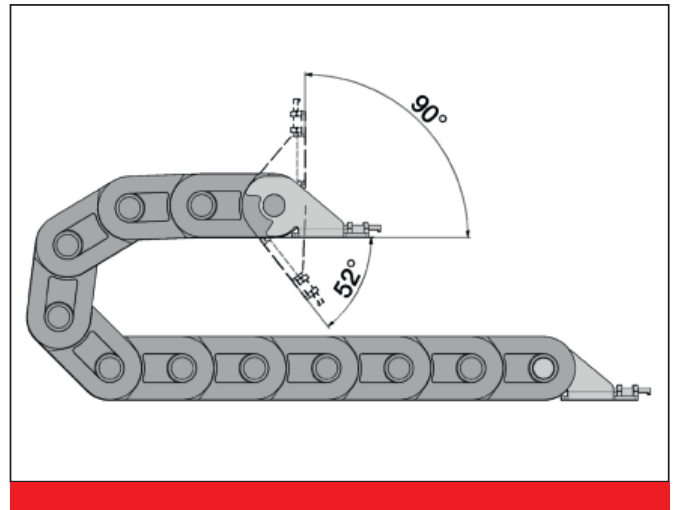
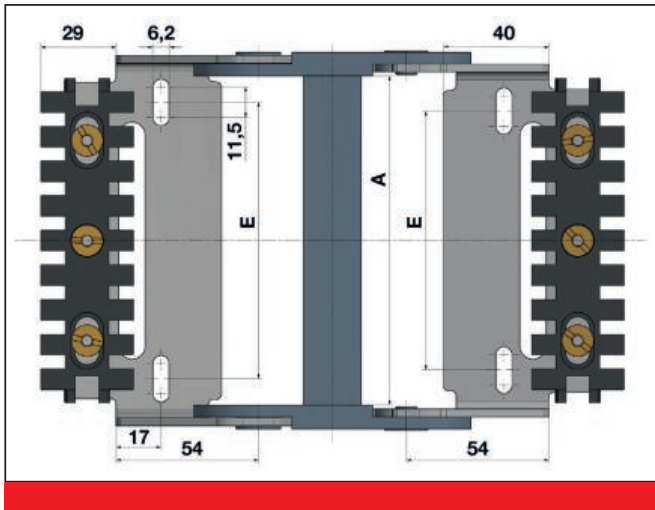
Flexible chain bracket

This chain bracket offers universal connection options (top, bottom and front) and is attached to the ends of the cable drag chain like a side link. This allows the chain to move right up to the bracket. Each energy chain requires one male and one female bracket. M5 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 energy chain. By default, the chain bracket is supplied with crossbars.

The chain bracket can then be optionally fitted with crossbar strain relief plates (RS-ZL) or with strain relief using C-rails and type STF bow clamps.

Type	Order No.	Material	Inside width							Outside width KA	
			A mm	E mm	F1 mm	G mm	G1 mm	H mm	HØ mm	O mm	
KA 35-FB Female end, 050, complete	0350005050	Plastic	50.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 050, pendular, complete	0350005052	Plastic	50.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 050, complete	0350005051	Plastic	50.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 050, pendular, complete	0350005053	Plastic	50.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 065, complete	0350006550	Plastic	65.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 065, pendular, complete	0350006552	Plastic	65.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 065, complete	0350006551	Plastic	65.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 065, pendular, complete	0350006553	Plastic	65.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 075, complete	0350007550	Plastic	75.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 075, pendular, complete	0350007552	Plastic	75.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 075, complete	0350007551	Plastic	75.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 075, pendular, complete	0350007553	Plastic	75.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 090, complete	0350009050	Plastic	90.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 090, pendular, complete	0350009052	Plastic	90.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 090, complete	0350009051	Plastic	90.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 090, pendular, complete	0350009053	Plastic	90.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 100, complete	0350010050	Plastic	100.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 100, pendular, complete	0350010052	Plastic	100.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 100, complete	0350010051	Plastic	100.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 100, pendular, complete	0350010053	Plastic	100.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 125, complete	0350012550	Plastic	125.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 125, pendular, complete	0350012552	Plastic	125.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 125, complete	0350012551	Plastic	125.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 125, pendular, complete	0350012553	Plastic	125.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 150, complete	0350015050	Plastic	150.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 150, pendular, complete	0350015052	Plastic	150.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 150, complete	0350015051	Plastic	150.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 150, pendular, complete	0350015053	Plastic	150.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 175, complete	0350017550	Plastic	175.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Female end, 175, pendular, complete	0350017552	Plastic	175.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 175, complete	0350017551	Plastic	175.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	
KA 35-FB Male end, 175, pendular, complete	0350017553	Plastic	175.0	A+8.0	19.0	49.1	77.6	M5	5.5	A+19.0	

KA 35 FLEXIBLE CHAIN BRACKET

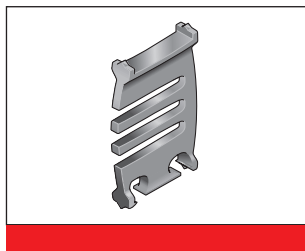
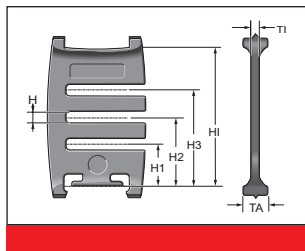


The metal bracket (U-part) is precisely adjusted to the respective chain width and only needs to be snapped into the chain link. Each energy chain requires one chain bracket with drilled holes and one chain bracket with bolts.

The brackets should be fastened with M5 screws. For fixing the cables or conduit directly in the chain bracket, use the order number including strain relief.

Type	Order No.	Order No. with strain relief	Quantity teeth	Material	Inside width A mm	Drill dimension E mm
KA 35.1 050 U Female end, pendular, steel	035150505000	0351506050	5.0	Steel	50.0	30.0
KA 35.1 050 U Female end, steel	035150005000	0351501050	5.0	Steel	50.0	30.0
KA 35.1 050 U Male end, steel	035160005000	0351601050	5.0	Steel	50.0	30.0
KA 35.1 065 U Female end, pendular, steel	035150506500	0351506065	6.0	Steel	65.0	45.0
KA 35.1 065 U Female end, steel	035150006500	0351501065	6.0	Steel	65.0	45.0
KA 35.1 065 U Male end, steel	035160006500	0351601065	6.0	Steel	65.0	45.0
KA 35.1 075 U Female end, pendular, steel	035150507500	0351506075	7.0	Steel	75.0	55.0
KA 35.1 075 U Female end, steel	035150007500	0351501075	7.0	Steel	75.0	55.0
KA 35.1 075 U Male end, steel	035160007500	0351601075	7.0	Steel	75.0	55.0
KA 35.1 090 U Female end, pendular, steel	035150509000	0351506090	8.0	Steel	90.0	70.0
KA 35.1 090 U Female end, steel	035150009000	0351501090	8.0	Steel	90.0	70.0
KA 35.1 090 U Male end, steel	035160009000	0351601090	8.0	Steel	90.0	70.0
KA 35.1 100 U Female end, pendular, steel	035150510000	0351506100	8.0	Steel	100.0	80.0
KA 35.1 100 U Female end, steel	035150010000	0351501100	8.0	Steel	100.0	80.0
KA 35.1 100 U Male end, steel	035160010000	0351601100	8.0	Steel	100.0	80.0
KA 35.1 125 U Female end, pendular, steel	035150512500	0351506125	9.0	Steel	125.0	105.0
KA 35.1 125 U Female end, steel	035150012500	0351501125	9.0	Steel	125.0	105.0
KA 35.1 125 U Male end, steel	035160012500	0351601125	9.0	Steel	125.0	105.0
KA 35.1 150 U Female end, pendular, steel	035150515000	0351506150	11.0	Steel	150.0	130.0
KA 35.1 150 U Female end, steel	035150015000	0351501150	11.0	Steel	150.0	130.0
KA 35.1 150 U Male end, steel	035160015000	0351601150	11.0	Steel	150.0	130.0
KA 35.1 175 U Female end, pendular, steel	035150517500	0351506175	13.0	Steel	175.0	155.0
KA 35.1 175 U Female end, steel	035150017500	0351501175	13.0	Steel	175.0	155.0
KA 35.1 175 U Male end, steel	035160017500	0351601175	13.0	Steel	175.0	155.0

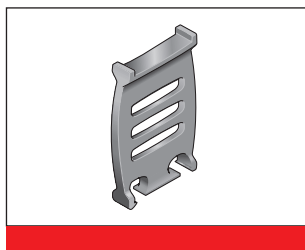
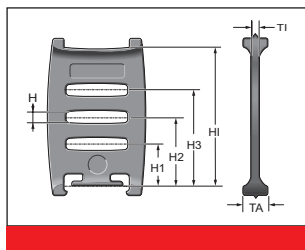
SEPARATOR DIVISIBLE TRT 35



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

Type	Order No.	Description	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	HI mm
TRT 35	035000009400	TRT 35, separator, divisible	lockable	3.0	8.0	3.2	10.5	17.5	24.5	35.0

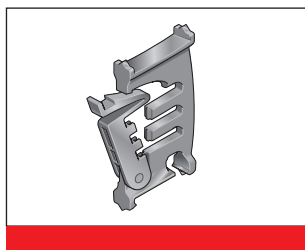
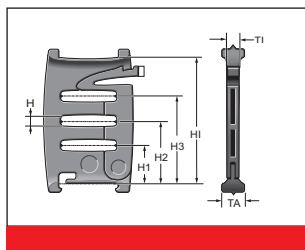
SEPARATOR TR 35-V



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

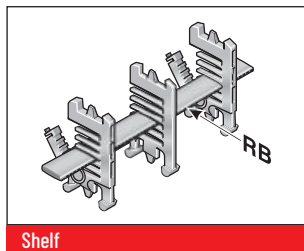
Type	Order No.	Description	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	HI mm
TR 35-V	035000009300	TR 35-V Separator	movable	3.0	8.0	3.2	10.5	17.5	24.5	35.0

RTT 35 SHELF SUPPORT DIVISIBLE



In connection with two separable shelf supports (RTT) with at least one end-to-end shelf (RB) the shelf becomes an easy to fill shelving system. The additional levels prevent cables from criss-crossing and minimize the friction between them.

Type	Order No.	Description	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	HI mm
RTT 35	100090350000	Shelf support divisible	lockable	5.0	8.0	3.2	10.5	17.5	24.5	35.0

RB-3 SHELF

The shelf RBD creates a horizontal division over the entire inner width of the chain link. When used together with the TRT separator, an additional vertical division can be realized.

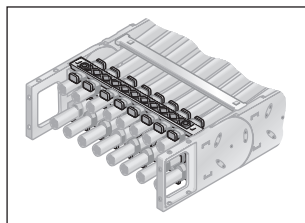
Type	Order No.	Description	Width mm	for inside width mm
RB 039-3	030100003900	Shelf	38.6	40.0
RB 041-3	1000004103	Shelf	41.1	50.0
RB 044-3	1000004403	Shelf	43.6	50.0
RB 046-3	1000004603	Shelf	46.1	50.0
RB 049-3	030100004900	Shelf	48.6	50.0
RB 051-3	1000005103	Shelf	51.1	60.0
RB 054-3	1000005403	Shelf	53.6	60.0
RB 056-3	1000005603	Shelf	56.1	60.0
RB 059-3	030100005900	Shelf	58.6	60.0
RB 061-3	1000006103	Shelf	61.1	75.0
RB 064-3	1000006403	Shelf	63.6	75.0
RB 066-3	1000006603	Shelf	66.1	75.0
RB 069-3	1000006903	Shelf	68.6	75.0
RB 071-3	1000007103	Shelf	71.1	75.0
RB 074-3	030100007400	Shelf	73.6	75.0
RB 076-3	1000007603	Shelf	76.1	85.0
RB 079-3	1000007903	Shelf	78.6	85.0
RB 081-3	1000008103	Shelf	81.1	85.0
RB 084-3	030100008400	Shelf	83.6	85.0
RB 086-3	1000008603	Shelf	86.1	100.0
RB 089-3	1000008903	Shelf	88.6	100.0
RB 091-3	1000009103	Shelf	91.1	100.0
RB 094-3	1000009403	Shelf	93.6	100.0
RB 096-3	1000009603	Shelf	96.1	100.0
RB 099-3	030100009900	Shelf	98.6	100.0
RB 101-3	1000010103	Shelf	101.1	115.0
RB 104-3	1000010403	Shelf	103.6	115.0
RB 106-3	1000010603	Shelf	106.1	115.0
RB 109-3	1000010903	Shelf	108.6	115.0
RB 111-3	1000011103	Shelf	111.1	115.0
RB 114-3	030100011400	Shelf	113.6	115.0
RB 116-3	1000011603	Shelf	116.1	125.0
RB 119-3	1000011903	Shelf	118.6	125.0
RB 121-3	1000012103	Shelf	121.1	125.0
RB 124-3	030100012400	Shelf	123.6	125.0
RB 126-3	1000012603	Shelf	126.1	150.0

RB-3 SHELF

Type	Order No.	Description	Width mm	for inside width mm
RB 129-3	1000012903	Shelf	128.6	150.0
RB 131-3	1000013103	Shelf	131.1	150.0
RB 134-3	1000013403	Shelf	133.6	150.0
RB 136-3	1000013603	Shelf	136.1	150.0
RB 139-3	1000013903	Shelf	138.6	150.0
RB 141-3	1000014103	Shelf	141.1	150.0
RB 144-3	1000014403	Shelf	143.6	150.0
RB 146-3	1000014603	Shelf	146.1	150.0
RB 149-3	030100014900	Shelf	148.6	150.0
RB 151-3	1000015103	Shelf	151.1	175.0
RB 154-3	1000015403	Shelf	153.6	175.0
RB 156-3	1000015603	Shelf	156.1	175.0
RB 159-3	1000015903	Shelf	158.6	175.0
RB 161-3	1000016103	Shelf	161.1	175.0
RB 164-3	1000016403	Shelf	163.6	175.0
RB 166-3	1000016603	Shelf	166.1	175.0
RB 169-3	1000016903	Shelf	168.6	175.0
RB 174-3	030100017400	Shelf	173.6	175.0

MP 35.1 OPEN / MP 35.2 OPEN

RS-ZL-3 ZLA MP 35 CROSSBAR STRAIN RELIEF PLATE



Crossbar strain relief plate

Fixed integrated crossbar strain relief plates in the chain brackets. Tailored to all crossbars widths up to 175 mm. May be assembled on the inside and outside bends at both chain endings.

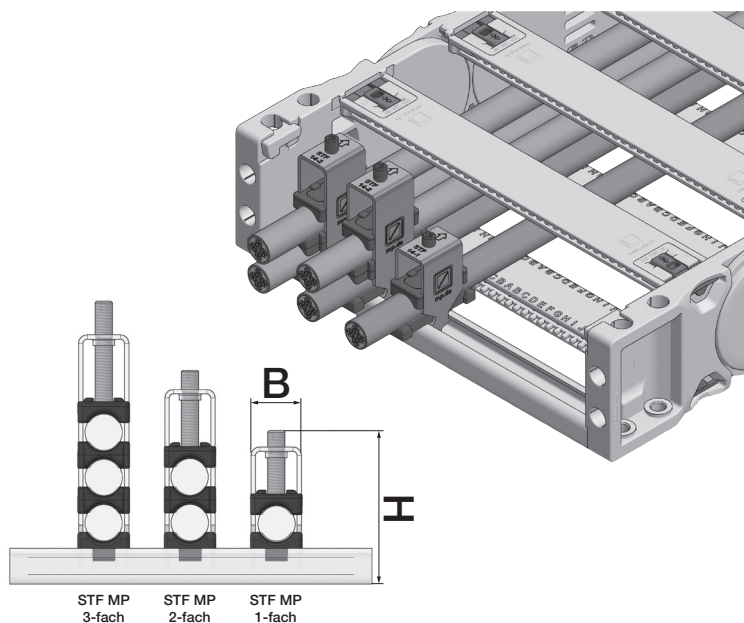
Type	Order No.	Description	for inside width mm
RS-ZL 050-3 ZLA MP 35	0351050010	Crossbar strain relief plate	50.0
RS-ZL 075-3 ZLA MP 35	0351075010	Crossbar strain relief plate	75.0
RS-ZL 100-3 ZLA MP 35	0351100010	Crossbar strain relief plate	100.0
RS-ZL 125-3 ZLA MP 35	0351125010	Crossbar strain relief plate	125.0
RS-ZL 150-3 ZLA MP 35	0351150010	Crossbar strain relief plate	150.0
RS-ZL 175-3 ZLA MP 35	0351175010	Crossbar strain relief plate	175.0

Product information

Steel Fix bow clamps for secure strain relief of cables at the C-rail at high accelerations, loads and long travel distances. The indication of the total height is indicative.

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.

- Up to 3 cables on top of each other
- Suitable for C-rails with a groove width of 11 mm
- Plastic channels in specially developed design for strain relief that is gentle on cables
- May be assembled on the inside and outside bends at both ends of the energy chain

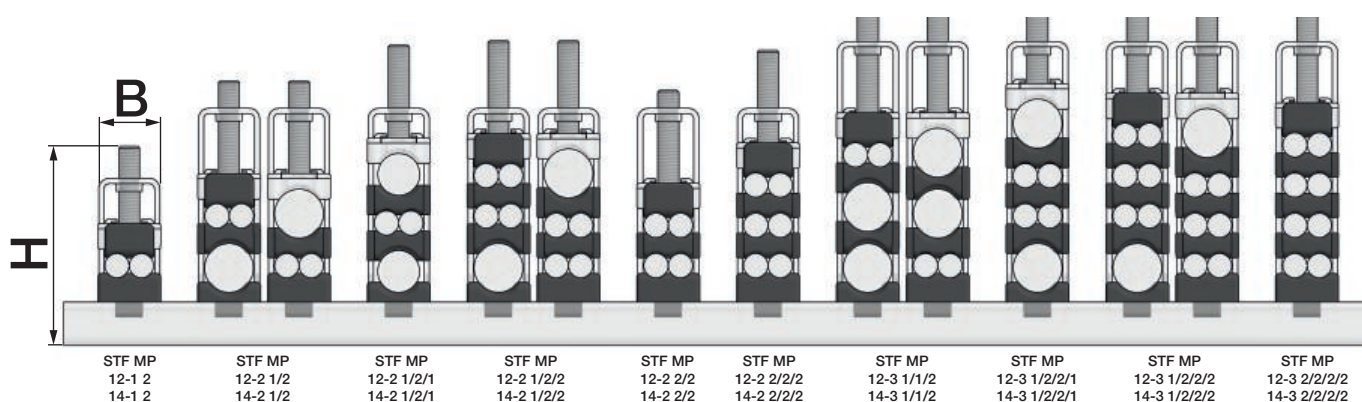
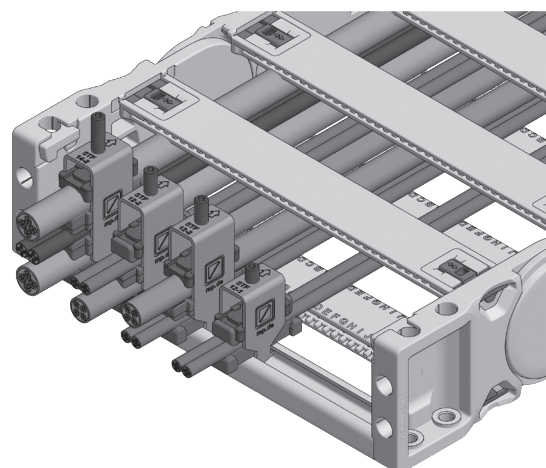


Type	Order No.	Description	Holders pieces	Cable Ø mm	Width (B) mm	Total height (H) mm
Single clamp (for one cable)						
STF MP 12-1 Steel Fix	80661801	Bow clamp	1	6 – 12	16	53
STF MP 14-1 Steel Fix	80661802	Bow clamp	1	12 – 14	18	53
STF MP 16-1 Steel Fix	80661803	Bow clamp	1	14 – 16	20	55
STF MP 18-1 Steel Fix	80661804	Bow clamp	1	16 – 18	22	57
STF MP 20-1 Steel Fix	80661805	Bow clamp	1	18 – 20	24	60
STF MP 22-1 Steel Fix	80661806	Bow clamp	1	20 – 22	26	62
STF MP 26-1 Steel Fix	80661807	Bow clamp	1	22 – 26	30	70
STF MP 30-1 Steel Fix	80661808	Bow clamp	1	26 – 30	34	74
STF MP 34-1 Steel Fix	80661809	Bow clamp	1	30 – 34	38	78
STF MP 38-1 Steel Fix	80661810	Bow clamp	1	34 – 38	42	82
STF MP 42-1 Steel Fix	80661811	Bow clamp	1	38 – 42	46	87
Double clamp (for two cables)						
STF MP 12-2 Steel Fix	80661821	Bow clamp	2	6 – 12	16	73
STF MP 14-2 Steel Fix	80661822	Bow clamp	2	12 – 14	18	74
STF MP 16-2 Steel Fix	80661823	Bow clamp	2	14 – 16	20	81
STF MP 18-2 Steel Fix	80661824	Bow clamp	2	16 – 18	22	85
STF MP 20-2 Steel Fix	80661825	Bow clamp	2	18 – 20	24	89
STF MP 22-2 Steel Fix	80661826	Bow clamp	2	20 – 22	26	93
STF MP 26-2 Steel Fix	80661827	Bow clamp	2	22 – 26	30	110
STF MP 30-2 Steel Fix	80661828	Bow clamp	2	26 – 30	34	118
STF MP 34-2 Steel Fix	80661829	Bow clamp	2	30 – 34	38	126
Triple clamp (for three cables)						
STF MP 12-3 Steel Fix	80661841	Bow clamp	3	6 – 12	16	96
STF MP 14-3 Steel Fix	80661842	Bow clamp	3	12 – 14	18	100
STF MP 16-3 Steel Fix	80661843	Bow clamp	3	14 – 16	20	106
STF MP 18-3 Steel Fix	80661844	Bow clamp	3	16 – 18	22	113
STF MP 20-3 Steel Fix	80661845	Bow clamp	3	18 – 20	24	120
STF MP 22-3 Steel Fix	80661846	Bow clamp	3	20 – 22	26	126

Product information

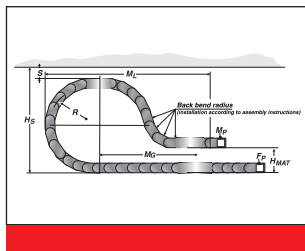
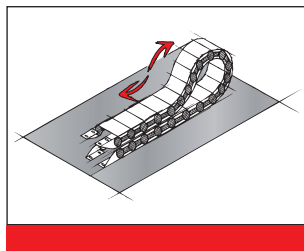
Compact strain relief for pneumatic hoses and signal cables. The indication of the total height is indicative. The actual height is, amongst other things, dependent on the diameter and the quality of the cable. A safety distance of 10 mm at the fixed point above the strain relief must be kept during gliding applications.

- For 2 cables side by side with max. Ø 7 mm
- Up to 4 cables on top of each other
- Suitable for C-rails with a groove width of 11 mm
- Plastic channels in specially developed design for strain relief that is gentle on cables
- May be assembled on the inside and outside bends at both ends of the energy chain



Type	Order No.	Description	Holders pieces	Cable Ø 2 x 1 x mm	Width (B) mm	Total height (H) mm
Bow clamp multiple size 12 (for two cables side by side)						
STF MP 12-1 2	80662001	Bow clamp	2	3-6 / -	16	54
STF MP 12-2 1/2	80662025	Bow clamp	3	3-6 / 6-12	16	74
STF MP 12-2 1/2/1	80662029	Bow clamp	4	3-6 / 6-10	16	83
STF MP 12-2 1/2/2	80662027	Bow clamp	5	3-6 / 6-12	16	73
STF MP 12-2 2/2	80662021	Bow clamp	4	3-6 / -	16	70
STF MP 12-2 2/2/2	80662023	Bow clamp	6	3-6 / -	16	80
STF MP 12-3 1/1/2	80662045	Bow clamp	4	3-6 / 6-12	16	97
STF MP 12-3 1/2/2/1	80662047	Bow clamp	6	3-6 / 6-12	16	104
STF MP 12-3 1/2/2/2	80662043	Bow clamp	7	3-6 / 6-12	16	101
STF MP 12-3 2/2/2/2	80662041	Bow clamp	8	3-6 / -	16	97
Bow clamp multiple size 14 (for two cables side by side)						
STF MP 14-1 2	80662002	Bow clamp	2	5-7 / -	18	57
STF MP 14-2 1/2	80662026	Bow clamp	3	5-7 / 12-14	18	76
STF MP 14-2 1/2/1	80662030	Bow clamp	4	5-7 / 12	18	86
STF MP 14-2 1/2/2	80662028	Bow clamp	5	5-7 / 12-14	18	87
STF MP 14-2 2/2	80662022	Bow clamp	4	6-7 / -	18	73
STF MP 14-2 2/2/2	80662024	Bow clamp	6	5-7 / 12-14	18	85
STF MP 14-3 1/1/2	80662046	Bow clamp	4	5-7 / 12-14	18	104
STF MP 14-3 1/2/2/1	80662048	Bow clamp	6	5-7 / 12-14	18	112
STF MP 14-3 1/2/2/2	80662044	Bow clamp	7	5-7 / 12-14	18	109
STF MP 14-3 2/2/2/2	80662042	Bow clamp	8	5-7 / -	18	107

LOWERED MOVING END BRACKET MP 35



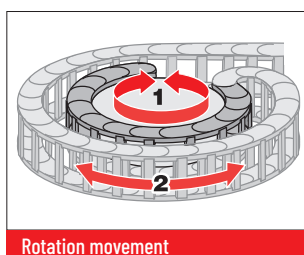
It is sometimes necessary to lower the height of the moving end bracket.

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

Please contact our application engineers.

Radius R mm	Height of moving end bracket (H_{NA}) mm	Safety margin (S) mm	Installation height incl. safety (H_s) mm	Projection (M_L) mm	Additional links pcs.	of which additional rearward chain links pcs.
150.0	180.0	50.0	399.0	590.0	12	4
175.0	180.0	50.0	449.0	680.0	15	4
200.0	180.0	50.0	499.0	780.0	18	5
250.0	180.0	50.0	599.0	980.0	24	5

REARWARD RADII MP 35

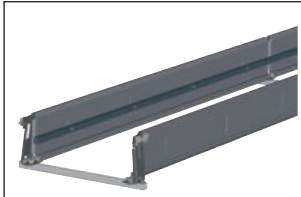


Rotation movement

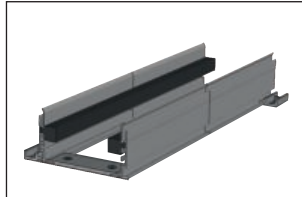
Side links with rearward radius allow movements in both directions. This is intended for rotating movements and lowered chain brackets. Rotation movements are only possible with open variants.

Type	Order No.	Radius mm	Rearward Radius mm
UT 35.1 050 RÜ100/R100	035105010060	100	100
UT 35.1 050 RÜ150/R150	035105015060	150	150
UT 35.1 065 RÜ100/R100	035106510060	100	100
UT 35.1 065 RÜ150/R150	035106515060	150	150
UT 35.1 075 RÜ100/R100	035107510060	100	100
UT 35.1 075 RÜ150/R150	035107515060	150	150
UT 35.1 090 RÜ100/R100	035109010060	100	100
UT 35.1 090 RÜ150/R150	035109015060	150	150
UT 35.1 100 RÜ100/R100	035110010060	100	100
UT 35.1 100 RÜ150/R150	035110015060	150	150
UT 35.1 125 RÜ100/R100	035112510060	100	100
UT 35.1 125 RÜ150/R150	035112515060	150	150
UT 35.1 150 RÜ100/R100	035115010060	100	100
UT 35.1 150 RÜ150/R150	035115015060	150	150
UT 35.1 175 RÜ100/R100	035117510060	100	100
UT 35.1 175 RÜ150/R150	035117515060	150	150

VAW GUIDE CHANNEL (ALUMINUM / STAINLESS STEEL)



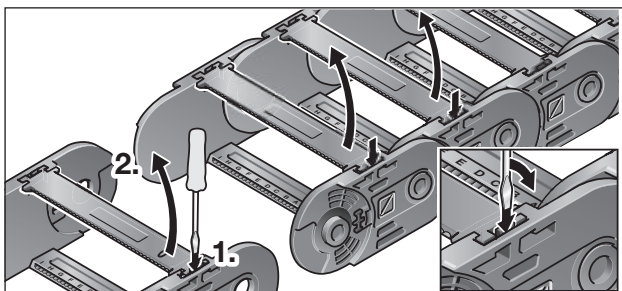
VAW steel galvanized/stainless steel



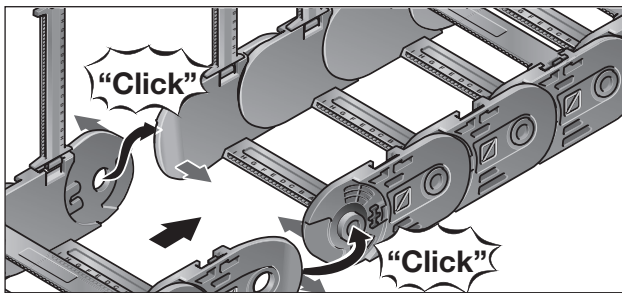
VAW aluminum

A range of variable guide channel systems, constructed from aluminum or stainless steel sections, is available for this energy chain. The variable guide channel ensures that the energy chain is supported and guided securely.

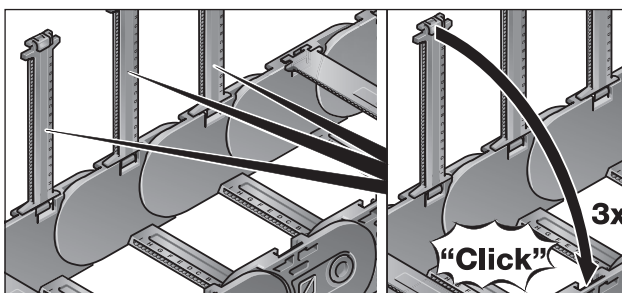
ASSEMBLY



Step 1

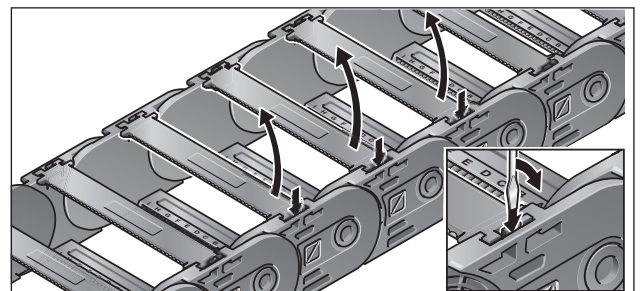


Step 2

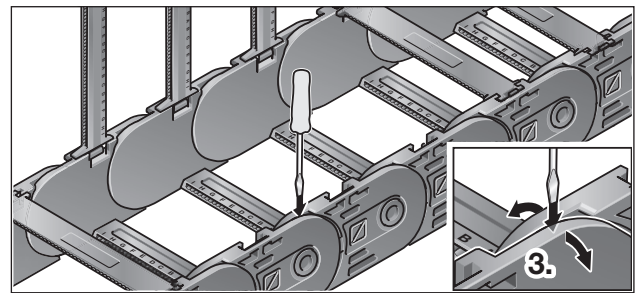


Step 3

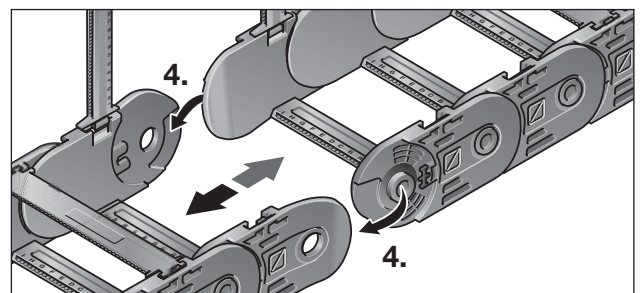
DISASSEMBLY



Step 1



Step 2



Step 3

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