murrplastik

Cable drag chain systems

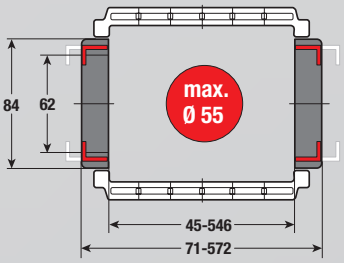
MP 62.4

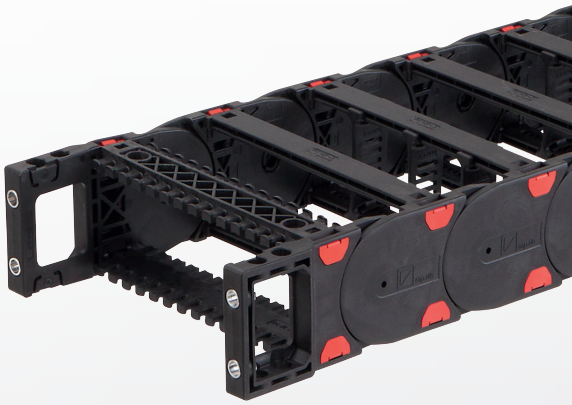
Neue Kettenserie
62 mm Innenhöhe
Mit zusätzlicher
Dämpfungsoption

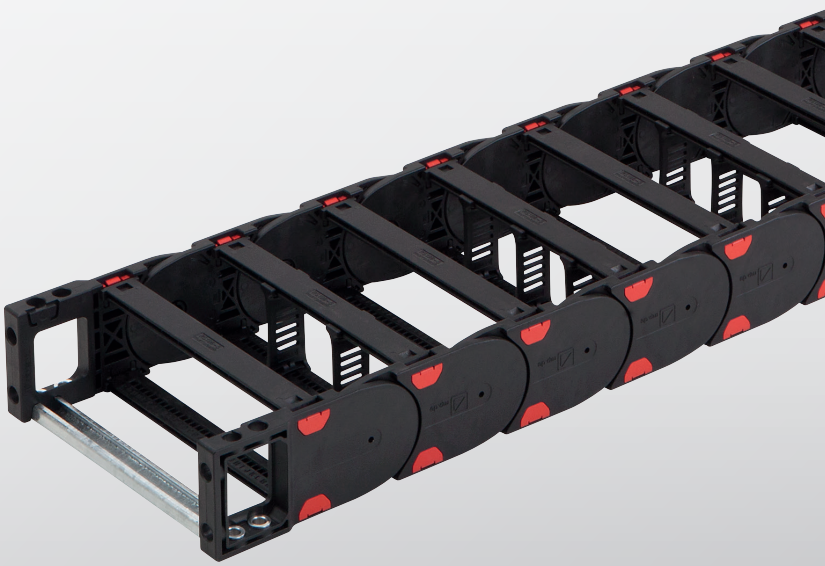
EFK

MP 62.4
OPEN

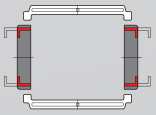
- REDUCED-COST
- SOFT-STOP SYSTEM
- FLEXIBLE CHAIN BRACKET
- BROAD INTERIOR LAYOUT
- PLASTIC OR ALUMINIUM VERSION



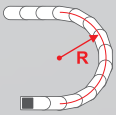




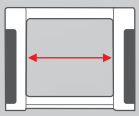
TECHNICAL DATA



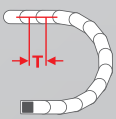
Loading side
Inside and outside bend



Available radii
135.0 – 300.0



Available interior widths
With plastic frame bridge
45.0 – 546.0
With Alu frame bridge / With Alu cover
67.0 – 600.0 mm /



Pitch
T = 91.0 mm

noise attenuator
Reduction of the noise emission by up to 10 dB(A) by the use of damping elements in the chain links.

POWERLINE

TECHNICAL SPECIFICATIONS

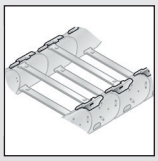
Travel distance gliding L_g max.	50.0 m
Travel distance self-supporting L_f max.	see diagram on page 5
Travel distance vertical, hanging L_{vh} max.	50.0 m
Travel distance vertical, upright L_{vs} max.	4.0 m
Rotated 90°, unsupported L_{90f} max.	1.0 m
Speed, gliding V_g max.	5.0 m/s
Speed, self-supporting V_f max.	20.0 m/s

MATERIAL PROPERTIES

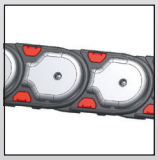
Standard material	Polyamide (PA) black
Service temperature	-30.0 – 120.0 °C
Gliding friction factor	0.3
Static friction factor	0.45
Fire classification	UL 94 HB

Other material properties on request.

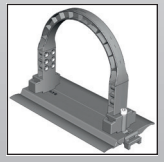
ACCESSORIES



Sliding block

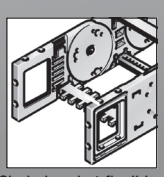


Slide plate



Extender frame bridge

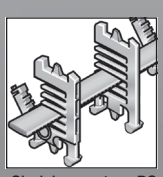
CHAIN BRACKET



Chain bracket flexible

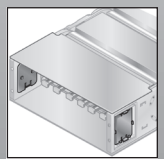
SHELVING SYSTEM

Separator TR

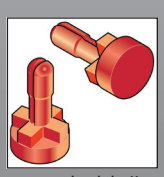


Shelving system RS

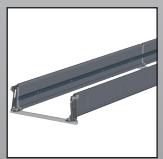
GUIDE CHANNELS



Cover



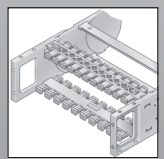
Lock button



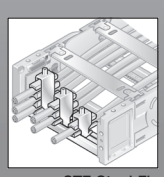
VAW steel galvanized / stainless steel

VAW aluminium

STRAIN RELIEF



RS-ZL frame rail

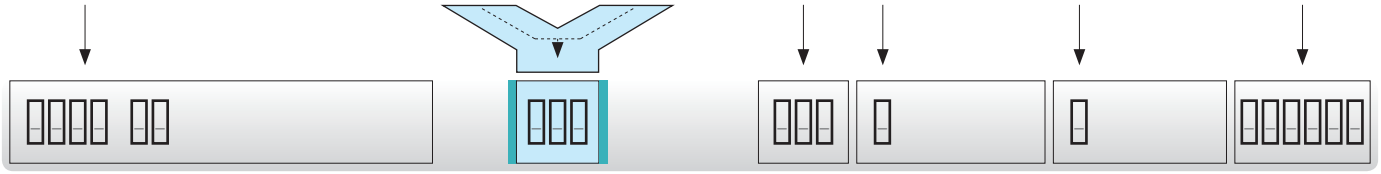


STF Steel Fix

ORDERING KEY

Dimensions in mm [US inch]

Type code	Variation	Inside width	Outside width	Inside width	Outside width	Radius	Rail variant	Material	Chain length
0624 30	Frame bridge on outside of radius Frame bridge on inside bend Opens on inside and outside of radius	045[1] [1.77]	071 [2.80]	233 [9.17]	259 [10.20]	135 [5.31]	0 Plastic, full-ridged with bias	2 Polyamide without attenuator (PA/black)	
		057[1] [2.24]	083 [3.27]	246 [9.69]	272 [10.71]				
		062[1] [2.44]	088 [3.46]	252 [9.92]	278 [10.94]	150 [5.91]	1 Plastic, full-ridged without bias	3 Polyamide with attenuator (PA/black)	
		071 [2.80]	097 [3.82]	258 [10.16]	284 [11.18]				
		084 [3.31]	110 [4.33]	296 [11.65]	322 [12.68]	175 [6.89]	2 Plastic, half-ridged with bias	9 Special version (on request)	
		093 [3.66]	119 [4.69]	346 [13.62]	372 [14.65]				
		096 [3.78]	122 [4.80]	350 [13.78]	376 [14.80]	200 [7.87]	3 Plastic, half-ridged without bias		
		104 [4.09]	130 [5.12]	358 [14.09]	384 [15.12]				
		107 [4.21]	133 [5.24]	371 [14.61]	397 [15.63]	250 [9.84]	4 Aluminium full-ridged with bias		
		121 [4.76]	147 [5.79]	396 [15.59]	422 [16.61]				
		133 [5.24]	159 [6.26]	421 [16.57]	447 [17.60]	300 [11.81]	5 Aluminium full-ridged without bias		
		144 [5.67]	170 [6.69]	446 [17.56]	472 [18.58]				
		146 [5.75]	172 [6.77]	496 [19.53]	522 [20.55]		6 Aluminium half-ridged with bias		
		158 [6.22]	184 [7.24]	546 [21.50]	572 [22.52]				
		164 [6.46]	190 [7.48]				7 Aluminium half-ridged without bias		
		171 [6.73]	197 [7.76]						
		182 [7.17]	208 [8.19]				9 Special version (on request)		
		196 [7.72]	222 [8.74]						
		208 [8.19]	234 [9.21]						
		220 [8.66]	246 [9.69]						



SAMPLE ORDER: 0624 30 144 200 0 3 3000

Frame bridge in outside bend, frame bridge in inside bend, can be opened from inside and outside bend
Inside width 144 mm, radius 200 mm
Plastic, full-ridged with bias, material polyamide with damper (PA/black)
Chain length 3000 mm (33 links)

[1] for Variant 30 only

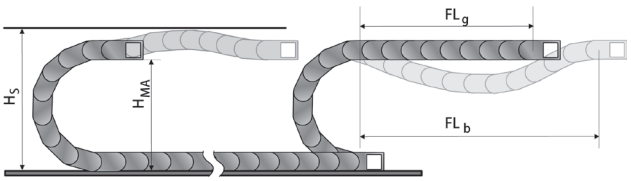
NOTE ON CONFIGURATION

Aluminium frame bridges:
Aluminium frame bridges can be supplied in 1 mm width sizes for inner widths from 67.0 mm – 600.0 mm.

Frame bridge strain relief plate:
If frame bridge strain relief plates (RS-ZL) are to be deployed in the chain brackets, take standard inside widths into account.

For detailed information, please consult the corresponding product documentation.

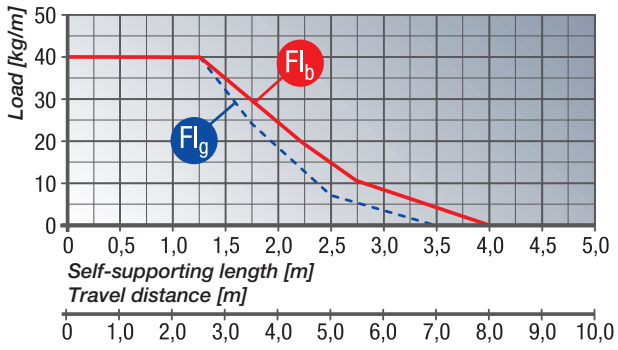
SELF-SUPPORTING LENGTH



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 connection
FL_g = Self-supporting length, upper run straight
FL_b = Self-supporting length, upper run bent

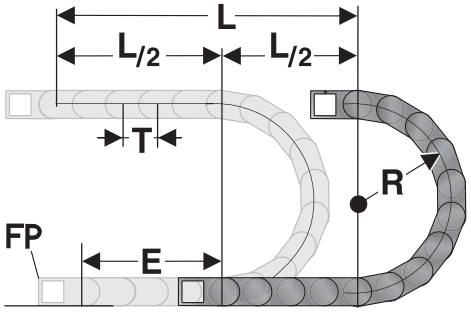
LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



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 of70.0 mm.

FL_b Self-supporting length, upper run bent
In the FL_b range, the chain upper run has a sag of more than70.0 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.
Closed cable drag chains (with covers) have a higher unit weight than open chains (with frame bridges). This higher weight must be taken into account when calculating the self-supporting length. To the weight of the cabling (cable load, in kg/m), you must add 1.5 kg/m, to account for the higher weight of closed-cover chains.

DETERMINING THE CHAIN LENGTH

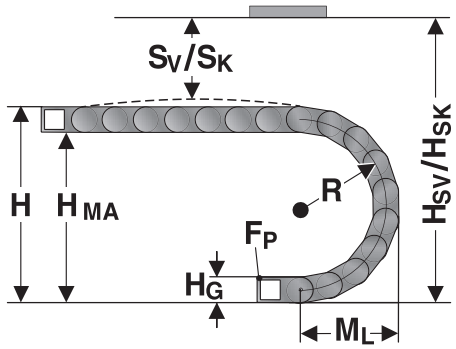


The fixed point of the energy chain should be connected in the middle of the travel distance.
This arrangement gives the shortest connection between the fixed point (FP) and the moving consumer and thus the most efficient chain length.

Chain length calculation = L/2 + π * R + E
≈ 1 m chain =11 qty. x91.0 mm.

E = distance between entry point and middle of travel distance
L = travel distance
R = radius
P = Pitch91.0 mm

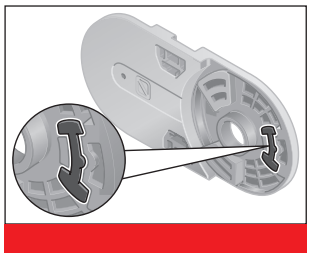
EINBAUMASSE



The moving end chain connection is to be screw fixed at height H_{MA} for the respective radius.
Concerning the installed dimensions, you must take into consideration whether the chain links are equipped with damping elements or not.
For chain links without damping elements, the value “Installed height with bias H_{SV} without damper” or “Installed height without bias H_{SK} without damper” must be taken into account.
If the chain links are equipped with a damping element, the value “Installed height with bias H_{SV} with damper” or “Installed height without bias H_{SK} with damper” is to be taken into account.

Radius R	135	150	175	200	250	300
Outside height of chain link (H_G)	84	84	84	84	84	84
Height of bend (H)	354	384	434	484	584	684
Height of moving end bracket (H_{MA})	270	300	350	400	500	600
Safety margin with bias (S_v)	20	20	20	20	20	20
Installation height with bias (H_{SV}) without damper	434	464	514	564	664	764
Installation height with bias (H_{SV}) with damper	464	494	544	594	694	794
Safety margin without bias (S_K)	20	20	20	20	20	20
Installation height without bias (H_{SK}) without damper	374	404	454	504	604	704
Installation height without bias (H_{SK}) with damper	404	434	484	534	634	734
Arc projection (M_L)	268	283	308	333	383	433

DAMPING ELEMENTS FOR THE SIDE LINKS



The damping elements in the stops facilitate a significantly quieter unrolling of the chain links. The dampers can be chosen optionally.
A reduction of the noise emission by up to 10 dB(A) comparing to the variants without the use of damping elements is possible.

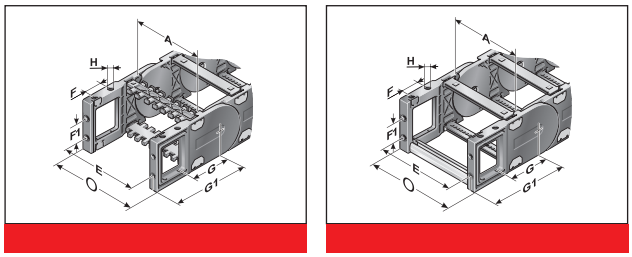
POWERLINE PLASTIC FRAME BRIDGE

Frame bridge

The frame bridges connect the two side runs of the energy chain. The frame bridge length is synonymous with the inside width of the energy chain.

Type	Order No.	Designation	Inside width mm
RS 045-5	052004500000	Frame bridge	45.0
RS 057-5	052005700000	Frame bridge	57.0
RS 062-5	052006200000	Frame bridge	62.0
RS 071-5	052007100000	Frame bridge	71.0
RS 084-5	052008400000	Frame bridge	84.0
RS 093-5	052009300000	Frame bridge	93.0
RS 096-5	052009600000	Frame bridge	96.0
RS 104-5	052010400000	Frame bridge	104.0
RS 107-5	052010700000	Frame bridge	107.0
RS 121-5	052012100000	Frame bridge	121.0
RS 133-5	052013300000	Frame bridge	133.0
RS 144-5	052014400000	Frame bridge	144.0
RS 146-5	052014600000	Frame bridge	146.0
RS 158-5	052015800000	Frame bridge	158.0
RS 164-5	052016400000	Frame bridge	164.0
RS 171-5	052017100000	Frame bridge	171.0
RS 182-5	052018200000	Frame bridge	182.0
RS 196-5	052019600000	Frame bridge	196.0
RS 208-5	052020800000	Frame bridge	208.0
RS 220-5	052022000000	Frame bridge	220.0
RS 233-5	052023300000	Frame bridge	233.0
RS 246-5	052024600000	Frame bridge	246.0
RS 252-5	052025200010	Frame bridge	252.0
RS 258-5	052025800000	Frame bridge	258.0
RS 296-5	052029600000	Frame bridge	296.0
RS 346-5	052034600000	Frame bridge	346.0
RS 350-5	052035000000	Frame bridge	350.0
RS 358-5	052035800000	Frame bridge	358.0
RS 371-5	052037100000	Frame bridge	371.0
RS 396-5	052039600000	Frame bridge	396.0
RS 421-5	052042100000	Frame bridge	421.0
RS 446-5	052044600000	Frame bridge	446.0
RS 496-5	052049600000	Frame bridge	496.0
RS 546-5	052054600000	Frame bridge	546.0

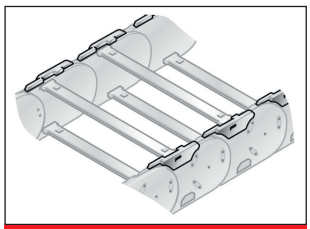
KA 62.4 FLEXIBLE CHAIN BRACKET



Dieser Kettenanschluss bietet universelle Anschlussmöglichkeiten (oben, unten, stirnseitig) und wird wie ein Seitenglied an den Enden der Kette befestigt. Dadurch ist diese bis zum Anschluss beweglich. Jede Kette benötigt einen Anschluss mit Bolzen und einen Anschluss mit Bohrung. Die Befestigung erfolgt mit Schrauben der Größe M8. Einpressbare Metallbuchsen entweder mit Durchgangsbohrung (-FB) oder mit Gewindebohrung (-FG) gewährleisten eine dauerhafte, hochfeste Übertragung selbst extremer Kräfte auf die Energieführungskette.

Type	Order No.	Material	Version	Inside width A mm	E mm	F mm	F1 mm	G mm	G1 mm	H	HØ mm	Outside width KA O1 mm
KA 62.4-FB Female end	0624000050	Plastic	with bush	45.0 – 546.0	A+16.0	20.0	45.0	85.0	125.0		9.0	A+34.0
KA 62.4-FB Male end	0624000051	Plastic	with bush	45.0 – 546.0	A+16.0	20.0	45.0	85.0	125.0		9.0	A+34.0
KA 62.4-FB Female end, pendular	0624000052	Plastic	with bush	45.0 – 546.0	A+16.0	20.0	45.0	85.0	125.0		9.0	A+34.0
KA 62.4-FG Female end	0624000053	Plastic	with thread	45.0 – 546.0	A+16.0	20.0	45.0	85.0	125.0	M8		A+34.0
KA 62.4-FG Female end, pendular	0624000055	Plastic	with thread	45.0 – 546.0	A+16.0	20.0	45.0	85.0	125.0	M8		A+34.0
KA 62.4-FG Male end	0624000054	Plastic	with thread	45.0 – 546.0	A+16.0	20.0	45.0	85.0	125.0	M8		A+34.0

MP 62.4 SLIDING BLOCK

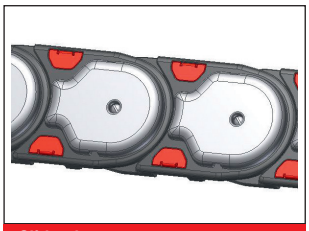


Sliding block

In the case of energy 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 instead of the usual frame bridge interlocks; (no tools needed). 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 energy chain may be extended five-fold, by using slide blocks. Information about the minimum bending radius of the energy chain at the sliding block insert is listed in the following table.

Type	Order No.	Installation site	Min. radius mm	Sliding block height mm
GS 62.4.1 right	062490400302	For right side link	175.0	4.0
GS 62.4.2 left	062490400300	For left side link	175.0	4.0

GLP 5 (62.4) SLIDE PLATE

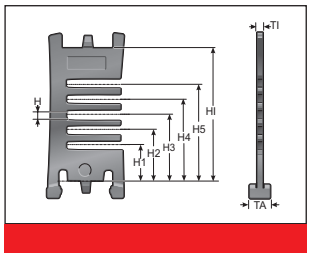


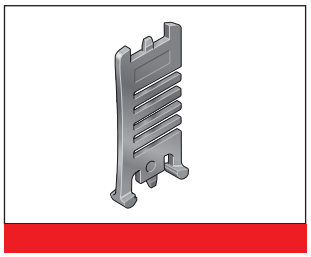
Slide plate

The slide plates are mounted in a horizontal position, with the chain laying on its side, to minimize friction wear to the sides. They are mounted to the side links using a special screw. The wear limit is 2.5 mm. We recommend replacing the energy chain when this limit has been reached. Depending on the application, the service life of the energy chain may be extended two-fold, by using slide plates. The energy chain must be placed on its side before opening.

Type	Order No.	Installation site	For radius mm	Slide plate height mm
SG 62.4 RK135.1 right with GLP5, mounted	062400013566	Right chain link including slide plate	135.0	7.0
SG 62.4 RK135.2 left with GLP5, mounted	062400013564	Left chain link including slide plate	135.0	7.0
SG 62.4 RK150.1 right with GLP5, mounted	062400015066	Right chain link including slide plate	150.0	7.0
SG 62.4 RK150.2 left with GLP5, mounted	062400015064	Left chain link including slide plate	150.0	7.0
SG 62.4 RK175.1 right with GLP5, mounted	062400017566	Right chain link including slide plate	175.0	7.0
SG 62.4 RK175.2 left with GLP5, mounted	062400017564	Left chain link including slide plate	175.0	7.0
SG 62.4 RK200.1 right with GLP5, mounted	062400020066	Right chain link including slide plate	200.0	7.0
SG 62.4 RK200.2 left with GLP5, mounted	062400020064	Left chain link including slide plate	200.0	7.0
SG 62.4 RK250.1 right with GLP5, mounted	062400025066	Right chain link including slide plate	250.0	7.0
SG 62.4 RK250.2 left with GLP5, mounted	062400025064	Left chain link including slide plate	250.0	7.0
SG 62.4 RK300.1 right with GLP5, mounted	062400030066	Right chain link including slide plate	300.0	7.0
SG 62.4 RK300.2 left with GLP5, mounted	062400030064	Left chain link including slide plate	300.0	7.0
SG 62.4-D RK135.1 right with GLP5, mounted	062400013596	Right chain link including slide plate	135.0	7.0
SG 62.4-D RK135.2 left with GLP5, mounted	062400013594	Left chain link including slide plate	135.0	7.0
SG 62.4-D RK150.1 right with GLP5, mounted	062400015096	Right chain link including slide plate	150.0	7.0
SG 62.4-D RK150.2 left with GLP5, mounted	062400015094	Left chain link including slide plate	150.0	7.0
SG 62.4-D RK175.1 right with GLP5, mounted	062400017596	Right chain link including slide plate	175.0	7.0
SG 62.4-D RK175.2 left with GLP5, mounted	062400017594	Left chain link including slide plate	175.0	7.0
SG 62.4-D RK200.1 right with GLP5, mounted	062400020096	Right chain link including slide plate	200.0	7.0
SG 62.4-D RK200.2 left with GLP5, mounted	062400020094	Left chain link including slide plate	200.0	7.0
SG 62.4-D RK250.1 right with GLP5, mounted	062400025096	Right chain link including slide plate	250.0	7.0
SG 62.4-D RK250.2 left with GLP5, mounted	062400025094	Left chain link including slide plate	250.0	7.0
SG 62.4-D RK300.1 right with GLP5, mounted	062400030096	Right chain link including slide plate	300.0	7.0
SG 62.4-D RK300.2 left with GLP5, mounted	062400030094	Left chain link including slide plate	300.0	7.0

SEPARATOR TR 62.4

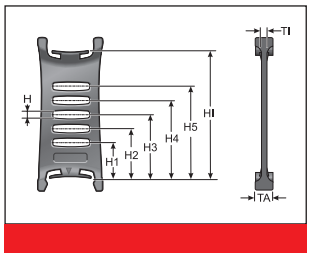


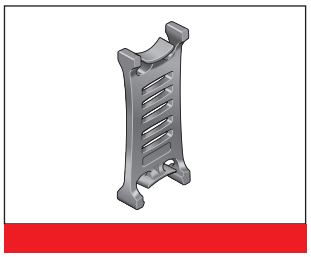


We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

Type	Order No.	Designation	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	HI mm
TR 62.4	062400009200	TR 62.4 Separator	lockable	3.5	11.0	4.0	17.0	24.0	31.0	38.0	45.0	62.0

SEPARATOR TR 62.4-V

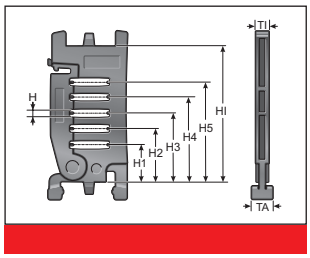


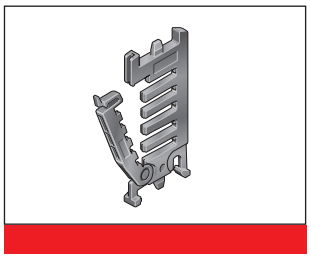


We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

Type	Order No.	Designation	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	HI mm
TR 62.4-V	062400009300	TR 62.4-V Separator	moveable	3.5	13.0	4.0	17.0	24.0	31.0	38.0	45.0	62.0

RTT 62.4 SHELF SUPPORT, DIVISIBLE

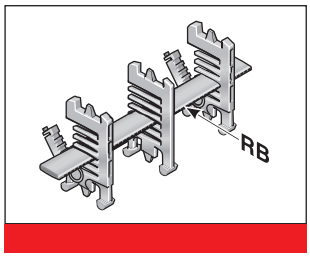




In connection with two separable shelf supports (RTT) with at least one end-to-end shelf (RB) the shelf becomes an easy to fill shelving system. The additional levels prevent cables from criss-crossing and minimise the friction between them.

Type	Order No.	Designation	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	H6	H7	HI mm
RTT 62.4	100090624000	Shelf support, divisible	lockable	7.0	11.0	4.0	17.0	24.0	31.0	38.0	45.0			62.0

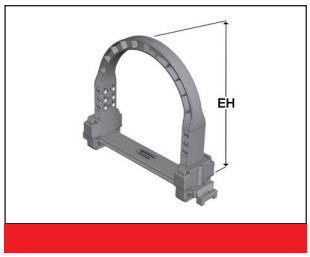
RB-5 SHELF



In connection with at least two separable shelf supports (RTT), the shelf becomes a shelving system. The additional levels prevent cables from criss-crossing and minimise the friction between them.

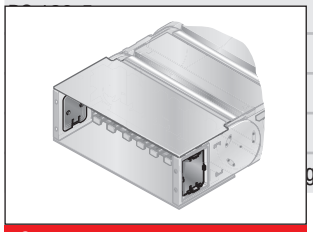
Type	Order No.	Designation	Width mm	für Innenbreite mm
RB 028-5	100000002800	Shelf	28.0	45.0
RB 034-5	1000003405	Shelf	33.6	45.0
RB 039-5	1000003905	Shelf	39.2	45.0
RB 045-5	1000004505	Shelf	44.8	57.0
RB 050-5	1000005005	Shelf	50.4	57.0
RB 056-5	100000005601	Shelf	56.0	62.0
RB 062-5	1000006205	Shelf	61.6	62.0
RB 067-5	1000006705	Shelf	67.2	84.0
RB 073-5	1000007305	Shelf	72.8	84.0
RB 078-5	1000007805	Shelf	78.4	84.0
RB 084-5	100000008400	Shelf	84.0	84.0
RB 090-5	1000009005	Shelf	89.6	96.0
RB 095-5	1000009505	Shelf	95.2	96.0
RB 101-5	1000010105	Shelf	100.8	107.0
RB 106-5	1000010605	Shelf	106.4	107.0
RB 112-5	100000011200	Shelf	112.0	121.0
RB 118-5	1000011805	Shelf	117.6	121.0
RB 123-5	1000012305	Shelf	123.2	133.0
RB 129-5	1000012905	Shelf	128.8	133.0
RB 134-5	1000013405	Shelf	134.4	144.0
RB 140-5	100000014000	Shelf	140.0	144.0
RB 146-5	1000014605	Shelf	145.6	158.0
RB 151-5	1000015105	Shelf	151.2	158.0
RB 157-5	1000015705	Shelf	156.8	164.0
RB 162-5	1000016205	Shelf	162.4	164.0
RB 168-5	100000016800	Shelf	168.0	182.0
RB 174-5	1000017405	Shelf	173.6	182.0
RB 179-5	1000017905	Shelf	179.2	196.0
RB 185-5	1000018505	Shelf	184.8	196.0
RB 190-5	1000019005	Shelf	190.4	196.0
RB 196-5	100000019600	Shelf	196.0	196.0
RB 291-5	100000029100	Shelf	291.2	346.0

BS -5 BRACKET BAR



Large-diameter conduits are routed securely by using a bracket bar (BS). Installation is done on the frame bridges or the covers of the energy chain.
The bracket bar can be installed on both the inside and outside bend.
The bracket bar support (BSH) is used to attach the bars to PowerLine series frame bridges. Two bracket bar supports are required for each bar.

COVER CHAIN BRACKET D5

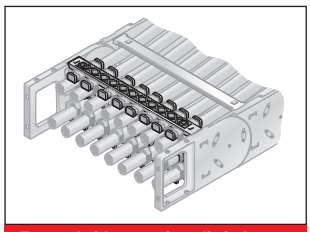

Cover

Side locking covers close the side mounting window on the flexible chain bracket (KA-FB/FG).

					n width min. mm
	052412000000	Extender frame bridge	115.0	140.0	164.0
	052415300000	Extender frame bridge	148.0	170.0	208.0
	052418700000	Extender frame bridge	182.0	205.0	233.0
	052400000000	Extender frame bridge holder			
ge RS-5/RS-7	052400000001	Assembly set bracket bar			

Type	Order No.
D5 Cover	0523888002

RS-ZL-5 FRAME RAIL TENSION RELIEF


Frame bridge strain relief plate

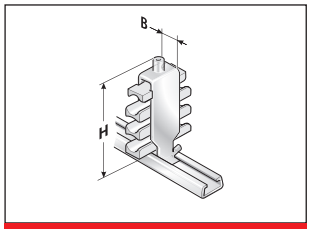
Fixed integrated frame bridge strain relief plates in the chain brackets. Tailored to all frame bridge widths up to 246 mm. May be assembled on the inside and outside bends at both chain endings.

Type	Order No.	Designation	für Innenbreite mm
RS-ZL 045-5	052004500010	Frame bridge strain relief plate	45.0
RS-ZL 057-5	052005700010	Frame bridge strain relief plate	57.0
RS-ZL 062-5	052006200010	Frame bridge strain relief plate	62.0
RS-ZL 071-5	052007100010	Frame bridge strain relief plate	71.0
RS-ZL 084-5	052008400010	Frame bridge strain relief plate	84.0
RS-ZL 093-5	052009300010	Frame bridge strain relief plate	93.0
RS-ZL 096-5	052009600010	Frame bridge strain relief plate	96.0
RS-ZL 104-5	052010400010	Frame bridge strain relief plate	104.0
RS-ZL 107-5	052010700010	Frame bridge strain relief plate	107.0
RS-ZL 121-5	052012100010	Frame bridge strain relief plate	121.0
RS-ZL 133-5	052013300010	Frame bridge strain relief plate	133.0

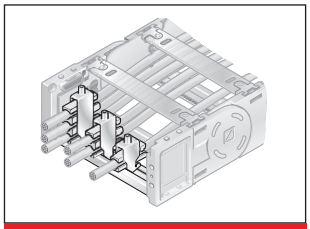
RS-ZL-5 FRAME RAIL TENSION RELIEF

Type	Order No.	Designation	für Innenbreite mm
RS-ZL 144-5	052014400010	Frame bridge strain relief plate	144.0
RS-ZL 146-5	052014600010	Frame bridge strain relief plate	146.0
RS-ZL 158-5	052015800010	Frame bridge strain relief plate	158.0
RS-ZL 164-5	052016400010	Frame bridge strain relief plate	164.0
RS-ZL 171-5	052017100010	Frame bridge strain relief plate	171.0
RS-ZL 182-5	052018200010	Frame bridge strain relief plate	182.0
RS-ZL 196-5	052019600010	Frame bridge strain relief plate	196.0
RS-ZL 208-5	052020800010	Frame bridge strain relief plate	208.0
RS-ZL 220-5	052022000010	Frame bridge strain relief plate	220.0
RS-ZL 233-5	052023300010	Frame bridge strain relief plate	233.0
RS-ZL 246-5	052024600010	Frame bridge strain relief plate	246.0

STRAIN RELIEF WITH STEEL FIX



STF Steel Fix


STF Steel Fix

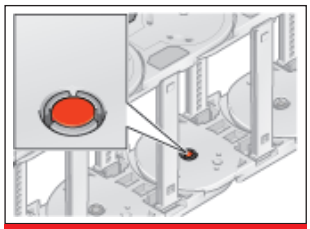
C-rails (galvanized) for permanent integration, for accommodating the Steel Fix bow clamps in the chain brackets. The bow clamps can take up to 3 cables and are suitable for C-rails with a groove width of 11 mm. Due to the design of the trough elements, a cable preserving cable guidance is ensured. May be assembled on the inside and outside bends at both chain endings. The overall height stated 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.

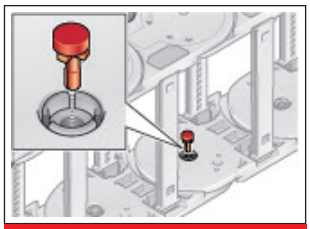
Type	Order No.	Designation	Seats qty.	Cable Ø mm	Overall height (H) mm
Single clamp (for two cables)					
STF 12-1 Steel Fix	81661801	Hooped clamp	1	6.0 – 12.0	55.0
STF 14-1 Steel Fix	81661802	Hooped clamp	1	12.0 – 14.0	52.0
STF 16-1 Steel Fix	81661803	Hooped clamp	1	14.0 – 16.0	54.0
STF 18-1 Steel Fix	81661804	Hooped clamp	1	16.0 – 18.0	56.0
STF 20-1 Steel Fix	81661805	Hooped clamp	1	18.0 – 20.0	59.0
STF 22-1 Steel Fix	81661806	Hooped clamp	1	20.0 – 22.0	61.0
STF 26-1 Steel Fix	81661807	Hooped clamp	1	22.0 – 26.0	70.0
STF 30-1 Steel Fix	81661808	Hooped clamp	1	26.0 – 30.0	74.0
STF 34-1 Steel Fix	81661809	Hooped clamp	1	30.0 – 34.0	78.0
STF 38-1 Steel Fix	81661810	Hooped clamp	1	34.0 – 38.0	82.0
STF 42-1 Steel Fix	81661811	Hooped clamp	1	38.0 – 42.0	91.0
Double clamp (for two cables)					
STF 12-2 Steel Fix	81661821	Hooped clamp	2	6.0 – 12.0	73.0
STF 14-2 Steel Fix	81661822	Hooped clamp	2	12.0 – 14.0	74.0
STF 16-2 Steel Fix	81661823	Hooped clamp	2	14.0 – 16.0	82.0
STF 18-2 Steel Fix	81661824	Hooped clamp	2	16.0 – 18.0	86.0

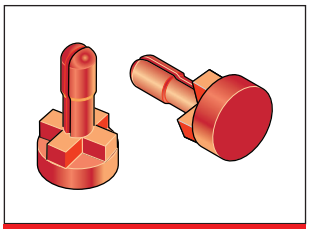
STRAIN RELIEF WITH STEEL FIX

Type	Order No.	Designation	Seats qty.	Cable Ø mm	Overall height (H) mm
STF 20-2 Steel Fix	81661825	Hooped clamp	2	18.0 – 20.0	91.0
STF 22-2 Steel Fix	81661826	Hooped clamp	2	20.0 – 22.0	95.0
STF 26-2 Steel Fix	81661827	Hooped clamp	2	22.0 – 26.0	108.0
STF 30-2 Steel Fix	81661828	Hooped clamp	2	26.0 – 30.0	121.0
STF 34-2 Steel Fix	81661829	Hooped clamp	2	30.0 – 34.0	129.0
Triple clamp (for three cables)					
STF 12-3 Steel Fix	81661841	Hooped clamp	3	6.0 – 12.0	98.0
STF 14-3 Steel Fix	81661842	Hooped clamp	3	12.0 – 14.0	98.0
STF 16-3 Steel Fix	81661843	Hooped clamp	3	14.0 – 16.0	105.0
STF 18-3 Steel Fix	81661844	Hooped clamp	3	16.0 – 18.0	111.0
STF 20-3 Steel Fix	81661845	Hooped clamp	3	18.0 – 20.0	118.0
STF 22-3 Steel Fix	81661846	Hooped clamp	3	20.0 – 22.0	130.0

MP 52/62/72 LOCK BUTTON


Lock button

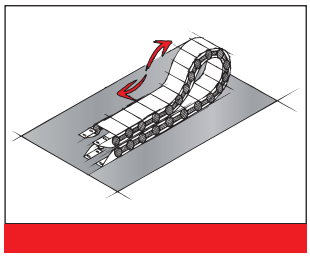

Lock button

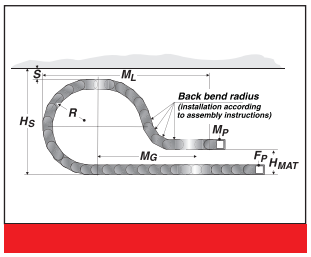

Lock button

To increase the side stability, we recommend the use of lock buttons during strong lateral acceleration or when installed "laying on the side (turned 90°) without support".

Type	Order No.
MP52/62/72 lock button	0520000080

LOWERED FIXING POINT MP 62.4





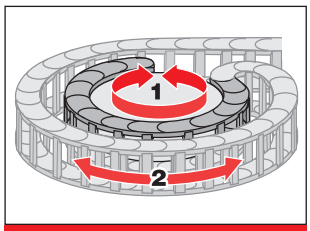
It is sometimes necessary to lower the height of the moving attachment point.

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

Please contact our application engineers.

Radius R mm	Height of moving end bracket (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.
175.0	180.0	50.0	484.0	620.0	6	3
200.0	210.0	50.0	534.0	830.0	10	3
250.0	250.0	50.0	634.0	990.0	13	3
300.0	300.0	50.0	734.0	900.0	14	3

REAR-FACING MP 62.4

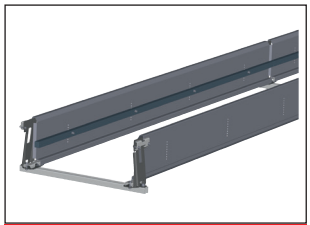


Rotating movement

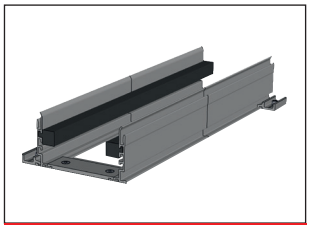
Side links with rearward radius allow movements in both directions. This is intended for rotating movements and lowered chain brackets. Note: This type of chain has different chain links for the left or right side! Rotation movements are only possible with open variants.

Type	Order No.	Radius mm	Rear-facing radius mm
SR 62.4 (RÜ200/R150.2) left	062400015060	150.0	200.0
SR 62.4 (RÜ200/R150.1) right	062400015062	150.0	200.0
SR 62.4 (RÜ200/R200.2) left	062400020060	200.0	200.0
SR 62.4 (RÜ200/R200.1) right	062400020062	200.0	200.0

GUIDE CHANNEL VAW (ALUMINIUM / STAINLESS STEEL)



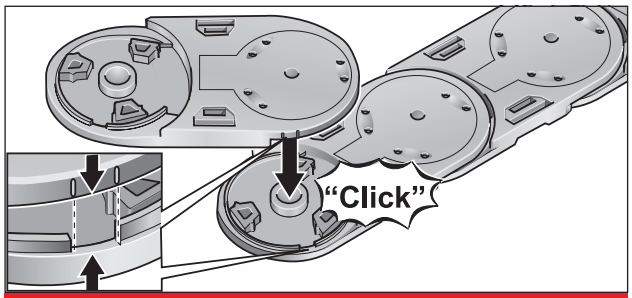
VAW steel galvanized / stainless steel



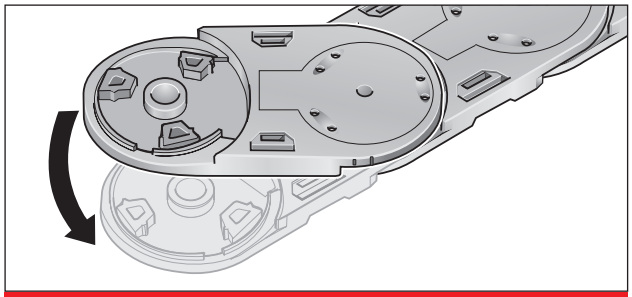
VAW aluminium

A range of variable guide channel systems, constructed from aluminium or stainless steel sections, are available for this energy chain.
The variable guide channel ensures that the energy chain is supported and guided securely.
For help on choosing, please consult the chapter “Variable Guide Channel System”.

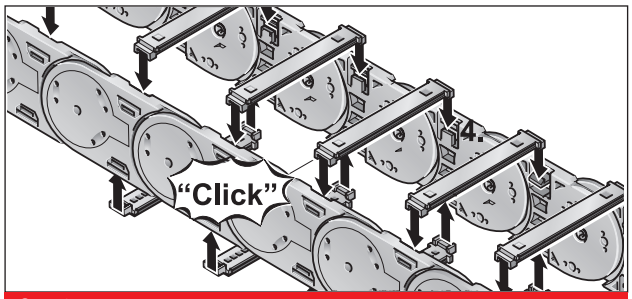
ASSEMBLY



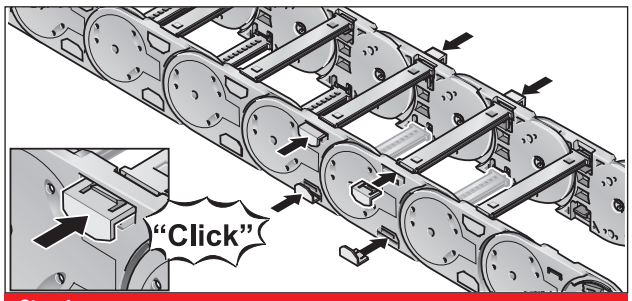
Step 1



Step 2

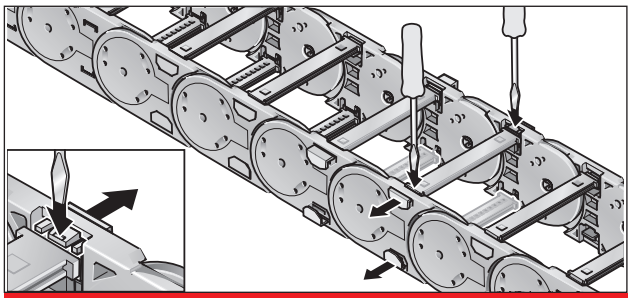


Step 3

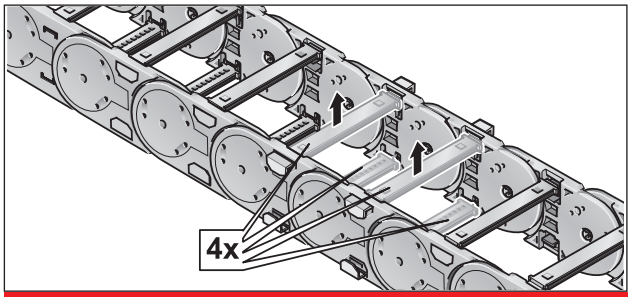


Step 4

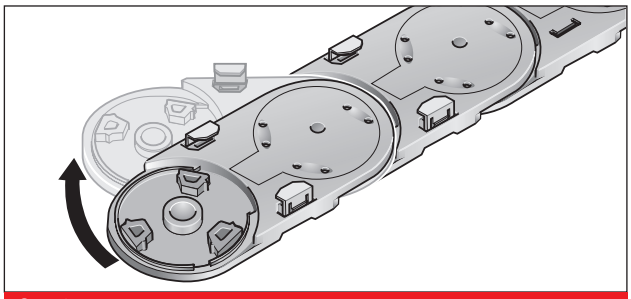
DISASSEMBLY



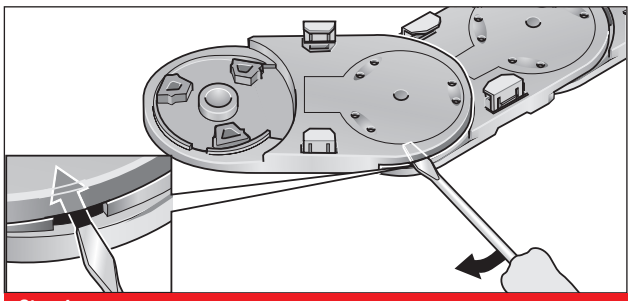
Step 1



Step 2



Step 3



Step 4