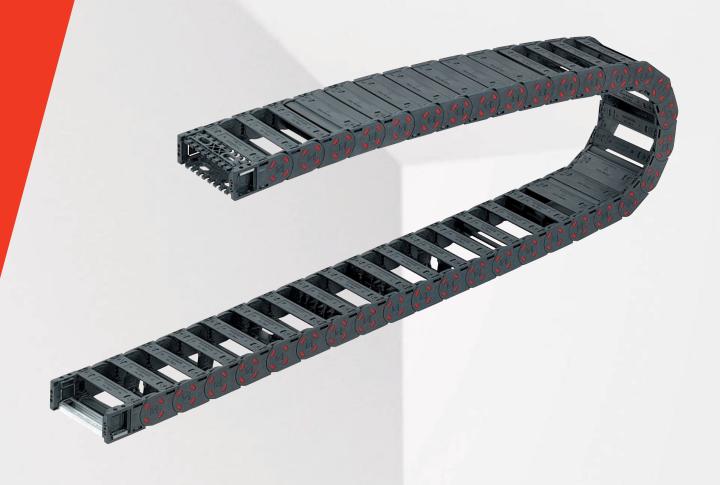
Data sheet MODULLINE MP30.1/30.2 MP30.3/30.4



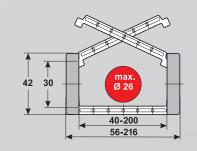




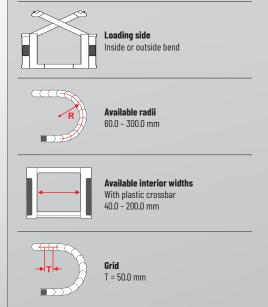


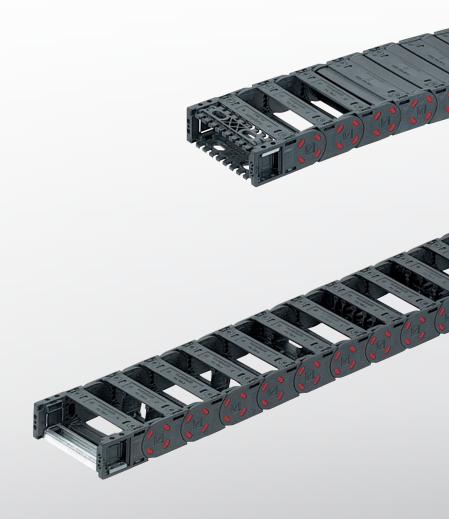


- BROAD INTERIOR LAYOUT
- BRUSH SUPPORT
- CHAIN BRACKET WITH STRAIN RELIEF
- UNIVERSAL USE



TECHNICAL DATA









Travel distance gliding $L_{_{\rm g}}$ max.	40.0 m
Travel distance self-supporting L_f max.	see diagram on page 5
Travel distance vertical, hanging L _{vh} max.	30.0 m
Travel distance vertical standing L _{vs} max.	3.0 m
Rotated 90°, self-supporting L _{90f} max.	0.7 m
Speed, gliding V_g max.	3.0 m/s
Speed, self-supporting V _f max.	10.0 m/s
Acceleration, gliding a _g max.	10.0 m/s ²
Acceleration, self-supporting a _f max.	15.0 m/s ²

 ${\tt Contact\ our\ engineering\ department\ to\ meet\ any\ higher\ requirements:\ efk@murrplastik.de}$

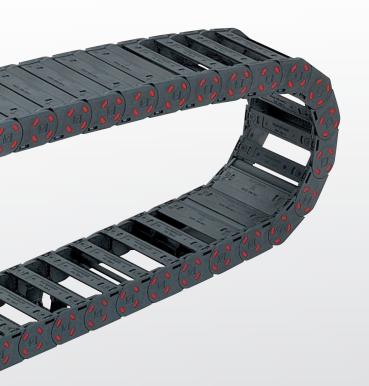
MATERIAL PROPERTIES

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

GUIDE CHANNELS

VAW steel galvanized /

Other material properties on request.



SHELVING SYSTEM



TR separator



RS shelving system



VAW aluminum

STRAIN RELIEF



Crossbar RS-ZL



STF Steel Fix





Flexible chain bracket



H-shaped shelving unit (RE)



ORDER KEY

Dimensions in mm [US inch]

Type code	Variant	Inside width	Outside width	Inside width	Outside width	Radius	Crossbar variant	Material	Chain length
0030 01	Crossbar in outside bend Crossbar in inside bend Opens on outside bend	040 [1.57] 050 [1.97]	056 [2.20] 066 [2.60]			060 ¹⁾ [2.36]	Plastic, full-ridged with bias	Polyamide (PA): 0 standard (PA/black)	
0030 02	Crossbar in outside bend Crossbar in inside bend Opens on inside bend	060 [2.36] 075 [2.95]	076 [2.99] 091 [3.58]			075 ¹⁾ [2.95]	1 Plastic, full-ridged without bias	ESD 7 (PA/light gray) (upon request)	
0030 03	Cover in outside bend Cover in inside radius Opens on outside bend	085 [3.35] 100 [3.94]	101 [3.98] 116 [4.57]			100 [3.94]		9 Special version (on request)	
0030 04	Cover in outside bend Cover in inside radius Opens on inside bend	125 [4.92]	141 [5.55]			125 [4.92]			
0030 05	Cover in outside bend Crossbar in inside bend Opens on outside bend	[5.91] 200 [7.87]	[6.54] 216 [8.50]			150 [5.91]			
0030 06	Cover in outside bend Crossbar in inside bend Opens on inside bend					200 [7.87]			
0030 07	Crossbar in outside bend Cover in inside radius Opens on outside bend					250 [9.84]			
0030 08	Crossbar in outside bend Cover in inside radius Opens on inside bend					300 [11.81]			
<u> </u>						<u> </u>	\	\	<u> </u>

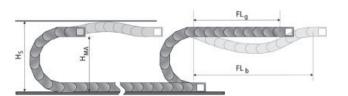
ORDERING EXAMPLE: 0030 01 040 060 0 0 1250

Crossbar in outside bend, crossbar in inside bend, can be opened from outside bend Inside width 40 mm; radius 60 mm Plastic bridge, full-ridged with bias, material black-colored polyamide Chain length 1250 mm (25 links)

 $^{^{\}scriptscriptstyle 1)}\,$ only for Version 01 and 02



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 ${\sf FL}_{\sf g}$ offers the lowest load and wear for the energy chain.

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

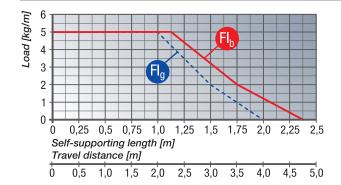
H_s = Installation height plus safety

H_{MA} = Height of moving end bracket

FL = Self-supporting length, upper run straight

 FL_{h}^{g} = Self-supporting length, upper run bent

LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



FL Self-supporting length, upper run straight

In the $FL_{\rm g}$ range, the chain upper run still has a bias, is straight or has a maximum sag of 60.0 mm.

FL Self-supporting length, upper run bent

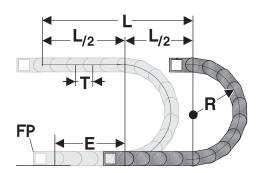
In the FL_b range, the chain upper run has a sag of more than 60.0 mm, but this is still less than the maximum sag.

Where the sag is greater than that permitted in the ${\rm FL_b}$ 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 crossbars). This higher weight must be taken into account when calculating the self-supporting length. To the weight of the cables (payload, in kg/m), $0.3~{\rm kg/m}$ must be added for the higher weight of the closed covers.



DETERMINING THE CHAIN LENGTH



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

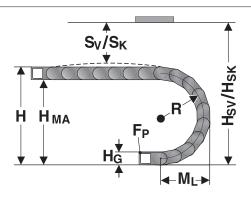
This arrangement gives the shortest connection between the fixed point (FP) and the moving bracket and thus the most efficient chain length.

Chain length calculation = $L/2 + \pi * R + E$ $\approx 1 \text{ m}$ chain = 20 links, 50.0 mm each

E = Distance between entry point and middle of travel distance

L = Travel distance R = Radius T = Grid 50.0 mm

INSTALLATION DIMENSIONS



The moving end chain bracket is to be screw fixed at height \mathbf{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.

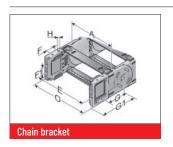
For chain links without bias, the "installed height without bias H_{SK} " has to be taken into account.

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

Radius R	60	75	100	125	150	200	250	300
Outside height of chain link ($H_{\scriptscriptstyle g}$)	42	42	42	42	42	42	42	42
Height of bend (H)	182	212	262	312	362	462	562	662
Height of moving end bracket ($H_{\rm MA}$)	140	170	220	270	320	420	520	620
Safety margin with bias (S_v)	38	38	38	38	38	38	38	38
Installation height with bias $(H_{\mbox{\tiny SV}})$	220	250	300	350	400	500	600	700
Safety margin without bias (S_{κ})	18	18	18	18	18	18	18	18
Installation height without bias(H _{SK})	200	230	280	330	380	480	580	680
Arc projection (M _L)	141	156	181	206	231	281	331	381



KA 30 FLEXIBLE CHAIN BRACKET



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. M5 screws and insert panels are used to secure the brackets in place.

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.

Туре	Order No.	Material	Inside width A mm	E mm	F mm	F1 mm	G mm	G1 mm	Н	HØ mm	Outside width KA O mm
KA30	KA30ML	Plastic	40.0 – 200.0	A+9.0	12.0	12.0	45.0	72.0	M5	5.5	A+18.0

Configurator chain bracket KA 30

Configurator for chain brackets:

Type KA	Inside width	Radius	RS-ZL number of	C-profile number of	No. of EB**
	mm	mm	pieces	pieces	pieces
KA 30*	085	250	2	0	2

Ordering example:

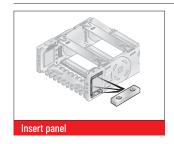
Type = KA 30 = Flexible chain bracket for MP 30

 $\begin{array}{lll} \mbox{Internal width} & = 085 \mbox{ mm} \\ \mbox{Radius} & = 250 \mbox{ mm} \\ \mbox{Crossbar-strain relief (RS-ZL)} & = 2 \mbox{ pieces} \\ \mbox{C-rail} & = 0 \mbox{ pieces} \\ \mbox{Insert panel (EB)} & = 2 \mbox{ pieces} \\ \end{array}$

Note:

For an exact determination of the chain bracket, the inside width and radius are absolutely essential. Optionally, crossbar strain relief plates (RS-ZL), C-sections and insert panels (EB) can be chosen.

EB 25/30 INSERT PANEL



To fix the chain connection, the insert panels can be inserted above, below or on the side and are available with threads or through-holes.

Туре	Order No.	Description	Length mm	Width mm	Height mm	Hole mm	Thread
EB 25/30-FG V2A	030100005502	Insert panel with thread	22.5	8.0	4.0		M5x0.8
EB 25/30-FB V2A	030100005500	Insert panel with through-hole	22.5	8.0	4.0	5.5	

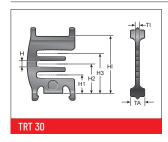
^{*} One set of chain brackets is required per chain, containing female and male end

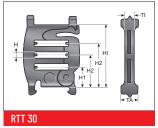
^{**} Two insert panels (EB) are required for each connection element

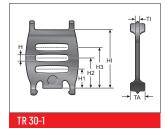
MP 30.1/.2 OPEN / MP 30.3/.4 CLOSED

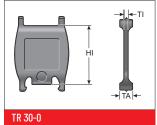


MP 30 SEPARATOR / SHELF SUPPORT





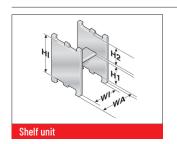




We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

Туре	Order No.	Description	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	HI mm
TR 30-0	030100009300	Separator, closed	lockable	2.2	8.0					30.0
TR 30-1	030100009400	Separator, open	lockable	2.2	8.0	3.3	9.5	15.0	20.5	30.0
TRT 30	030100009200	Separator, divisible	lockable	2.2	8.0	3.3	9.5	15.0	20.5	30.0
RTT 30	030100006500	Shelf support divisible	lockable	4.5	8.0	3.3	9.5	15.0	20.5	30.0

RE 30 H-SHAPED SHELF UNIT

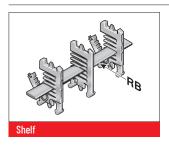


One-piece shelving system, the shelf cannot be varied in height.

Туре	Order No.	Description	WA mm	WI mm	H1 mm	H2 mm	HI mm
RE 30/15	100000301510	H-shaped shelf unit	20.0	15.0	15.8	11.8	29.7
RE 30/32 K5	100000303210	H-shaped shelf unit	37.4	32.6	15.8	11.8	29.7



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.

RB 044-3 100000403 Shelf 43.6 50.0 RB 044-3 100000403 Shelf 43.6 50.0 RB 046-3 100000403 Shelf 46.1 50.0 RB 046-3 03010000400 Shelf 46.1 50.0 RB 056-3 100000503 Shelf 51.1 60.0 RB 056-3 100000503 Shelf 56.1 60.0 RB 056-3 100000503 Shelf 56.1 60.0 RB 068-3 00000503 Shelf 56.1 60.0 RB 068-3 100000503 Shelf 63.6 75.0 RB 068-3 100000603 Shelf 66.1 75.0 RB 068-3 100000603 Shelf 66.1 75.0 RB 078-3 100000703 Shelf 71.1 75.0 RB 078-3 100000703 Shelf 76.1 85.0 RB 078-3 100000703 Shelf 76.1 85.0 RB 078-3 100000703 Shelf	Туре	Order No.	Description	Width mm	for inside width mm
RB 044-3 1000004403 Shelf 43.6 60.0 RB 046-3 1000004603 Shelf 46.1 50.0 RB 049-3 03000004900 Shelf 48.6 50.0 RB 051-3 1000005403 Shelf 51.1 60.0 RB 056-3 1000005403 Shelf 55.6 60.0 RB 056-3 0300005800 Shelf 56.1 60.0 RB 056-3 1000006803 Shelf 63.6 60.0 RB 064-3 1000006803 Shelf 63.6 75.0 RB 064-3 1000006803 Shelf 66.1 75.0 RB 064-3 1000006803 Shelf 68.6 75.0 RB 074-3 1000007003 Shelf 77.1 75.0 RB 074-3 1000007003 Shelf 76.1 65.0 RB 074-3 1000007003 Shelf 76.1 65.0 RB 079-3 1000007003 Shelf 78.6 65.0 RB 086-3 1000007003 Shelf <td>RB 039-3</td> <td>030100003900</td> <td>Shelf</td> <td>38.6</td> <td>40.0</td>	RB 039-3	030100003900	Shelf	38.6	40.0
RB 046-3 1000004603 Shelf 46.1 50.0 RB 046-3 03000004900 Shelf 48.8 50.0 RB 061-3 1000005103 Shelf 51.1 60.0 RB 056-3 1000005403 Shelf 53.8 60.0 RB 056-3 1000005603 Shelf 58.8 60.0 RB 058-3 03010005900 Shelf 61.1 75.0 RB 068-3 1000006103 Shelf 63.6 75.0 RB 068-3 1000006803 Shelf 66.1 75.0 RB 068-3 1000006803 Shelf 68.6 75.0 RB 078-3 1000007803 Shelf 71.1 75.0 RB 078-3 1000007803 Shelf 73.6 75.0 RB 078-3 1000007803 Shelf 76.1 85.0 RB 078-3 1000007803 Shelf 78.6 85.0 RB 088-3 1000007803 Shelf 83.5 85.0 RB 088-3 1000008103 Shelf </td <td>RB 041-3</td> <td>1000004103</td> <td>Shelf</td> <td>41.1</td> <td>50.0</td>	RB 041-3	1000004103	Shelf	41.1	50.0
RB 049-3 030100004900 Shelf 48.6 50.0 RB 051-3 1000005103 Shelf 51.1 60.0 RB 056-3 1000005403 Shelf 53.6 60.0 RB 056-3 1000006003 Shelf 58.6 60.0 RB 058-3 1000006103 Shelf 58.6 60.0 RB 068-3 100000603 Shelf 63.6 75.0 RB 068-3 100000603 Shelf 66.1 75.0 RB 069-3 100000603 Shelf 66.1 75.0 RB 078-3 100000603 Shelf 77.0 75.0 RB 078-3 100000703 Shelf 77.1 75.0 RB 078-3 100000703 Shelf 77.1 75.0 RB 078-3 100000703 Shelf 78.6 85.0 RB 078-3 1000007803 Shelf 78.6 85.0 RB 078-3 1000007803 Shelf 81.1 85.0 RB 081-3 1000007803 Shelf	RB 044-3	1000004403	Shelf	43.6	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 56.6 60.0 RB 061-3 100000603 Shelf 61.1 75.0 RB 064-3 100000603 Shelf 66.1 75.0 RB 069-3 100000603 Shelf 66.1 75.0 RB 069-3 100000603 Shelf 66.6 75.0 RB 073-3 100000703 Shelf 71.1 75.0 RB 074-3 03010007400 Shelf 73.6 75.0 RB 076-3 1000007103 Shelf 76.1 85.0 RB 076-3 100000703 Shelf 76.1 85.0 RB 076-3 100000703 Shelf 78.6 85.0 RB 081-3 100000703 Shelf 83.6 85.0 RB 086-3 100000803 Shelf	RB 046-3	1000004603	Shelf	46.1	50.0
RB 054-3 1000005403 Shelf 53.6 60.0 RB 056-3 1000005603 Shelf 56.1 60.0 RB 059-3 03000005900 Shelf 58.6 60.0 RB 061-3 1000006103 Shelf 61.1 75.0 RB 064-3 100000603 Shelf 66.1 75.0 RB 069-3 100000603 Shelf 66.1 75.0 RB 074-3 100000703 Shelf 68.6 75.0 RB 074-3 100000703 Shelf 73.6 75.0 RB 074-3 030100007400 Shelf 73.6 75.0 RB 074-3 1000007803 Shelf 76.1 85.0 RB 079-3 1000007803 Shelf 78.6 65.0 RB 081-3 1000007803 Shelf 83.6 85.0 RB 081-3 1000008003 Shelf 81.1 96.0 RB 089-3 1000008003 Shelf 86.1 100.0 RB 099-3 100000803 Shelf	RB 049-3	030100004900	Shelf	48.6	50.0
RB 056-3 1000005603 Shelf 58.6 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 069-3 1000006903 Shelf 68.6 75.0 RB 071-3 1000007103 Shelf 71.1 75.0 RB 074-3 03010007400 Shelf 73.6 75.0 RB 076-3 1000007603 Shelf 76.1 85.0 RB 078-3 1000007603 Shelf 76.1 85.0 RB 079-3 1000007603 Shelf 78.6 85.0 RB 079-3 1000007903 Shelf 81.1 85.0 RB 084-3 1000008103 Shelf 81.6 85.0 RB 089-3 1000008103 Shelf 86.6 100.0 RB 089-3 100000803 Shelf 98.1 100.0 RB 099-3 10000093 Shelf </td <td>RB 051-3</td> <td>1000005103</td> <td>Shelf</td> <td>51.1</td> <td>60.0</td>	RB 051-3	1000005103	Shelf	51.1	60.0
RB 059-3 030100005900 Shelf 68.6 60.0 RB 061-3 1000006103 Shelf 61.1 75.0 RB 064-3 1000006403 Shelf 63.6 75.0 RB 068-3 1000006903 Shelf 66.1 75.0 RB 069-3 1000007003 Shelf 71.1 75.0 RB 071-3 1000007103 Shelf 73.6 75.0 RB 074-3 030100007400 Shelf 73.6 75.0 RB 076-3 1000007603 Shelf 76.1 85.0 RB 079-3 1000007803 Shelf 78.6 85.0 RB 079-3 1000007803 Shelf 81.1 85.0 RB 084-3 03010000803 Shelf 81.1 85.0 RB 084-3 1000008103 Shelf 86.1 100.0 RB 089-3 100000803 Shelf 86.1 100.0 RB 098-3 100000903 Shelf 98.6 100.0 RB 098-3 100000903 Shel	RB 054-3	1000005403	Shelf	53.6	60.0
RB 061-3 1000006103 Shelf 61.1 75.0 RB 064-3 100000603 Shelf 63.6 75.0 RB 066-3 100000603 Shelf 66.1 75.0 RB 069-3 100000703 Shelf 68.6 75.0 RB 071-3 1000007103 Shelf 71.1 75.0 RB 074-3 030100007400 Shelf 76.1 85.0 RB 076-3 1000007603 Shelf 76.1 85.0 RB 079-3 1000007803 Shelf 78.6 85.0 RB 081-3 1000007903 Shelf 81.1 85.0 RB 081-3 1000009103 Shelf 81.1 85.0 RB 081-3 1000009103 Shelf 81.1 85.0 RB 081-3 100000803 Shelf 81.1 100.0 RB 081-3 100000803 Shelf 91.1 100.0 RB 081-3 100000803 Shelf 91.1 100.0 RB 091-3 100000903 Shelf	RB 056-3	1000005603	Shelf	56.1	60.0
RB 064-3 1000006403 Shelf 63.6 75.0 RB 066-3 100000603 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 000008403 Shelf 81.1 85.0 RB 086-3 1000008603 Shelf 86.6 100.0 RB 089-3 1000008603 Shelf 88.6 100.0 RB 098-3 1000009103 Shelf 91.1 100.0 RB 098-3 100000903 Shelf 98.6 100.0 RB 098-3 03010009900 Shelf 10.1 115.0 RB 108-3 100000103 Shelf	RB 059-3	030100005900	Shelf	58.6	60.0
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 1000007803 Shelf 76.1 85.0 RB 079-3 1000007803 Shelf 78.6 85.0 RB 081-3 1000007803 Shelf 81.1 85.0 RB 084-3 030100008400 Shelf 83.6 85.0 RB 086-3 030100008603 Shelf 86.1 100.0 RB 089-3 1000008803 Shelf 91.1 100.0 RB 091-3 1000009903 Shelf 93.6 100.0 RB 094-3 100009903 Shelf 96.1 100.0 RB 094-3 100009903 Shelf 98.6 100.0 RB 094-3 100009903 Shelf 10.1 115.0 RB 104-3 100000903 S	RB 061-3	1000006103	Shelf	61.1	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 1000007803 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 099-3 1000009603 Shelf 96.1 100.0 RB 099-3 03010009900 Shelf 98.6 100.0 RB 101-3 100001103 Shelf 101.1 115.0 RB 104-3 10000110403	RB 064-3	1000006403	Shelf	63.6	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 03010008400 Shelf 83.6 85.0 RB 086-3 1000008603 Shelf 86.1 100.0 RB 089-3 1000008903 Shelf 88.6 100.0 RB 094-3 1000009103 Shelf 91.1 100.0 RB 094-3 1000009103 Shelf 93.6 100.0 RB 094-3 100009103 Shelf 93.6 100.0 RB 094-3 10000903 Shelf 96.1 100.0 RB 094-3 10000903 Shelf 96.1 100.0 RB 096-3 10000903 Shelf 98.6 100.0 RB 101-3 1000011003 Shelf	RB 066-3	1000006603	Shelf	66.1	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 094-3 1000009403 Shelf 96.1 100.0 RB 094-3 1000009603 Shelf 98.6 100.0 RB 104-3 100001003 Shelf 101.1 115.0 RB 104-3 1000010403 Shelf 103.6 115.0 RB 104-3 1000010603 Shelf 106.1 115.0 RB 109-3 1000010603	RB 069-3	1000006903	Shelf	68.6	75.0
RB 076-3 100007603 Shelf 76.1 85.0 RB 079-3 100007903 Shelf 78.6 85.0 RB 081-3 1000008103 Shelf 81.1 85.0 RB 084-3 03010008400 Shelf 83.6 85.0 RB 086-3 100008603 Shelf 86.1 100.0 RB 089-3 100008903 Shelf 88.6 100.0 RB 091-3 100009103 Shelf 91.1 100.0 RB 094-3 100009403 Shelf 93.6 100.0 RB 096-3 100009603 Shelf 96.1 100.0 RB 099-3 03010009900 Shelf 98.6 100.0 RB 101-3 100001003 Shelf 101.1 115.0 RB 104-3 1000010403 Shelf 103.6 115.0 RB 109-3 1000010603 Shelf 106.1 115.0 RB 109-3 1000010903 Shelf 108.6 115.0 RB 111-3 1000011003 S	RB 071-3	1000007103	Shelf	71.1	75.0
RB 079-3 100007903 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 1000009403 Shelf 98.6 100.0 RB 099-3 030100009900 Shelf 98.6 100.0 RB 101-3 100001003 Shelf 101.1 115.0 RB 104-3 100001003 Shelf 103.6 115.0 RB 109-3 100001003 Shelf 106.1 115.0 RB 109-3 100001003 Shelf 108.6 115.0 RB 11-3 100001103 Shelf 113.6 115.0 RB 11-3 100001103 <t< td=""><td>RB 074-3</td><td>030100007400</td><td>Shelf</td><td>73.6</td><td>75.0</td></t<>	RB 074-3	030100007400	Shelf	73.6	75.0
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 03010009900 Shelf 98.6 100.0 RB 101-3 100001013 Shelf 101.1 115.0 RB 104-3 1000010403 Shelf 103.6 115.0 RB 109-3 1000010603 Shelf 106.1 115.0 RB 109-3 1000010903 Shelf 108.6 115.0 RB 11-3 100001103 Shelf 108.6 115.0 RB 11-3 00001103 Shelf 113.6 115.0 RB 16-3 1000011003	RB 076-3	1000007603	Shelf	76.1	85.0
RB 084-3 03010008400 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 03010009900 Shelf 98.6 100.0 RB 101-3 10000103 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 100001103 Shelf 113.6 115.0 RB 111-3 1000011003 Shelf 113.6 115.0 RB 111-3 1000011003 Shelf 113.6 125.0 RB 119-3 1000011003	RB 079-3	1000007903	Shelf	78.6	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 03010009900 Shelf 98.6 100.0 RB 101-3 100001003 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 100001103 Shelf 111.1 115.0 RB 118-3 100001103 Shelf 111.1 115.0 RB 118-3 100001103 Shelf 116.1 125.0 RB 119-3 100001103 Shelf 116.1 125.0 RB 12-3 1000011603	RB 081-3	1000008103	Shelf	81.1	85.0
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 100001003 Shelf 101.1 115.0 RB 104-3 1000010403 Shelf 103.6 115.0 RB 109-3 1000010603 Shelf 106.1 115.0 RB 109-3 1000010903 Shelf 108.6 115.0 RB 11-3 100001103 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 100001203 Shelf 121.1 125.0 RB 124-3 030100012400 </td <td>RB 084-3</td> <td>030100008400</td> <td>Shelf</td> <td>83.6</td> <td>85.0</td>	RB 084-3	030100008400	Shelf	83.6	85.0
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 100001003 Shelf 101.1 115.0 RB 104-3 1000010403 Shelf 103.6 115.0 RB 106-3 1000010603 Shelf 106.1 115.0 RB 111-3 100001103 Shelf 108.6 115.0 RB 111-3 100001103 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 100001203 Shelf 121.1 125.0 RB 124-3 030100012400 Shelf 123.6 125.0 RB 126-3 1000012603<	RB 086-3	1000008603	Shelf	86.1	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 100001003 Shelf 101.1 115.0 RB 104-3 1000010403 Shelf 103.6 115.0 RB 106-3 1000010603 Shelf 106.1 115.0 RB 119-3 100001103 Shelf 108.6 115.0 RB 114-3 030100011400 Shelf 111.1 115.0 RB 116-3 1000011603 Shelf 113.6 115.0 RB 119-3 1000011903 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 089-3	1000008903	Shelf	88.6	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 119-3 100001103 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 100001203 Shelf 121.1 125.0 RB 124-3 030100012400 Shelf 123.6 125.0 RB 126-3 1000012603 Shelf 123.6 125.0 RB 126-3 1000012603 Shelf 123.6 125.0	RB 091-3	1000009103	Shelf	91.1	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 100001103 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 094-3	1000009403	Shelf	93.6	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 100001103 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 096-3	1000009603	Shelf	96.1	100.0
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 100001103 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 099-3	030100009900	Shelf	98.6	100.0
RB 106-3 1000010603 Shelf 106.1 115.0 RB 109-3 1000010903 Shelf 108.6 115.0 RB 111-3 100001103 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 101-3	1000010103	Shelf	101.1	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 104-3	1000010403	Shelf	103.6	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 106-3	1000010603	Shelf	106.1	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 109-3	1000010903	Shelf	108.6	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 111-3	1000011103	Shelf	111.1	115.0
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 114-3	030100011400	Shelf	113.6	115.0
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 116-3	1000011603	Shelf	116.1	125.0
RB 124-3 030100012400 Shelf 123.6 125.0 RB 126-3 1000012603 Shelf 126.1 150.0	RB 119-3	1000011903	Shelf	118.6	125.0
RB 126-3 1000012603 Shelf 126.1 150.0	RB 121-3	1000012103	Shelf	121.1	125.0
	RB 124-3	030100012400	Shelf	123.6	125.0
RB 129-3 1000012903 Shelf 128.6 150.0	RB 126-3	1000012603	Shelf	126.1	150.0
	RB 129-3	1000012903	Shelf	128.6	150.0



RB-3 SHELF

Туре	Order No.	Description	Width mm	for inside width mm
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
RB 176-3	1000017603	Shelf	176.1	200.0
RB 179-3	1000017903	Shelf	178.6	200.0
RB 181-3	1000018103	Shelf	181.1	200.0
RB 184-3	1000018403	Shelf	183.6	200.0
RB 186-3	1000018603	Shelf	186.1	200.0
RB 189-3	1000018903	Shelf	188.6	200.0
RB 191-3	1000019103	Shelf	191.1	200.0
RB 194-3	1000019403	Shelf	193.6	200.0
RB 196-3	1000019603	Shelf	196.1	200.0
RB 199-3	030100019900	Shelf	198.6	200.0

RBD-3 SOLID SHELF

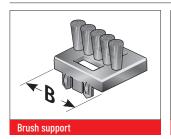


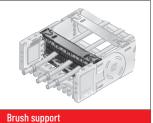
The shelf RBD creates a horizontal separation over the entire width of the chain link. When used together with the TRT 30 separator, an additional, vertical division can be realized.

Туре	Order No.	Description	Width mm	for inside width mm
RBD 040-3	030100004001	Shelf, end-to-end	40.0	40.0
RBD 050-3	030100005001	Shelf, end-to-end	50.0	50.0
RBD 060-3	030100006001	Shelf, end-to-end	60.0	60.0
RBD 075-3	030100007501	Shelf, end-to-end	75.0	75.0
RBD 085-3	030100008501	Shelf, end-to-end	85.0	85.0
RBD 100-3	030100010001	Shelf, end-to-end	100.0	100.0



MP 30 BRUSH SUPPORT





The cables in the neutral axis are routed through the brush supports. This innovative solution was developed especially for applications where cables are subjected to higher levels of wear from cyclical movement.

Туре	Order No.	Description	Width mm
BT 20-30, complete	030100009702	Brush support	20.0
BT 25-30, complete	030100009802	Brush support	25.0

RS-ZL-3 CROSSBAR STRAIN RELIEF



Crossbar strain relief plate

Fixed integrated crossbar strain relief plates in the chain brackets. Tailored to all crossbars widths up to 200 mm. May be assembled on the inside and outside bends at both chain endings.

Туре	Order No.	Description	for inside width mm
RS-ZL 040-3	030104000010	Crossbar strain relief plate	40.0
RS-ZL 050-3	030105000010	Crossbar strain relief plate	50.0
RS-ZL 060-3	030106000010	Crossbar strain relief plate	60.0
RS-ZL 075-3	030107500010	Crossbar strain relief plate	75.0
RS-ZL 085-3	030108500010	Crossbar strain relief plate	85.0
RS-ZL 100-3	030110000010	Crossbar strain relief plate	100.0
RS-ZL 125-3	030112500010	Crossbar strain relief plate	125.0
RS-ZL 150-3	030115000010	Crossbar strain relief plate	150.0
RS-ZL 200-3	030120000010	Crossbar strain relief plate	200.0

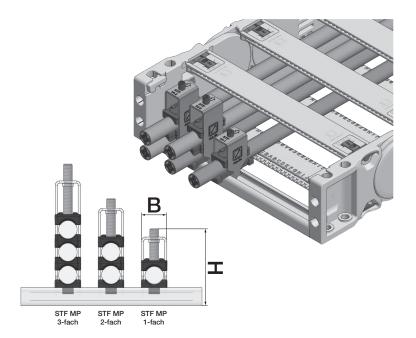


Product information

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 slot 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



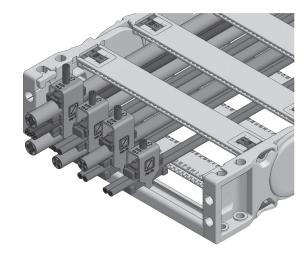
Туре	Order No.	Description	Holders pieces	Cable Ø mm	Width (B) mm	Total height (H) mm
Single clamp (for one cable	e)					
STF MP 12-1 Steel Fix	80661801	Bow clamp	1	6 – 12	16	53
STF MP 14-1 Steel Fix	80661802	Bow clamp	1	12 – 14	18	53
STF MP 16-1 Steel Fix	80661803	Bow clamp	1	14 – 16	20	55
STF MP 18-1 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 cabl	es)					
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 cab	les)					
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

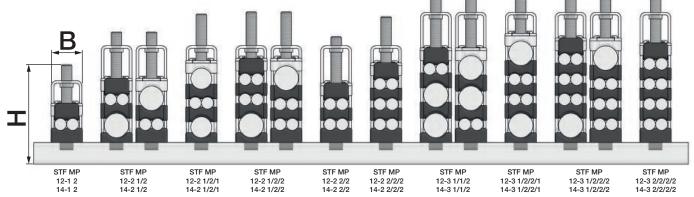


Product information

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 slot 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

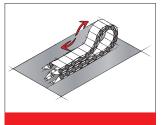


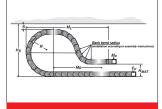


Туре	Order No.	Description	Holders pieces	Cable Ø 2 x / 1 x mm	Width (B) mm	Total height (H) mm
Bow clamp multiple size 12 (for two cables side by side)						
STF MP 12-1 2	80662001	Bow clamp	2	3-6 / -	16	54
STF MP 12-2 1/2	80662025	Bow clamp	3	3-6 / 6-12	16	74
STF MP 12-2 1/2/1	80662029	Bow clamp	4	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 30





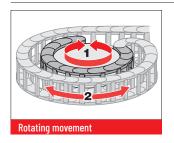
It is sometimes necessary to lower the height of the moving end bracket.

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 _{HA}) 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.
100.0	100.0	50.0	292.0	300.0	4	3
125.0	100.0	50.0	342.0	345.0	5	3
150.0	100.0	50.0	392.0	470.0	8	5
200.0	100.0	50.0	492.0	605.0	10	6
250.0	100.0	50.0	592.0	680.0	12	7
300.0	100.0	50.0	692.0	805.0	15	7

MP 30.1/.2 REARWARD RADII



Side links with rearward radius allow movements in both directions. This is intended for rotating movements and lowered chain brackets. The appropriate number of washer discs have to be placed into the side links to achieve the rearward radius.

Туре	Order No.
AS 30 (RÜ100/R100) left	030100010060
AS 30 RÜ100/R100 right	030100010062
AS 30 (RÜ150/R150) left	030100015060
AS 30 RÜ150/R150 right	030100015062

VAW GUIDE CHANNEL (ALUMINUM / STAINLESS STEEL)

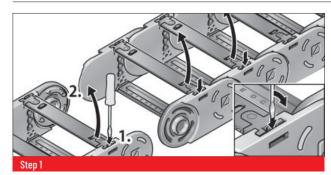


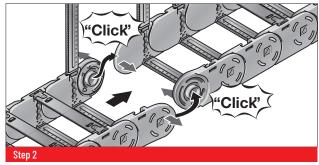


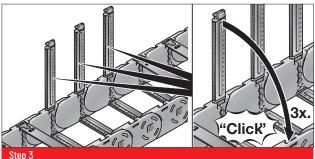
A range of variable guide channel systems, constructed from aluminum or stainless steel sections, is available for this energy chain. The variable guide channel ensures that the energy chain is supported and guided securely.

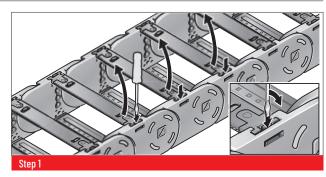


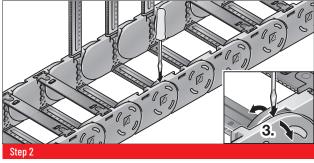
ASSEMBLY DISASSEMBLY

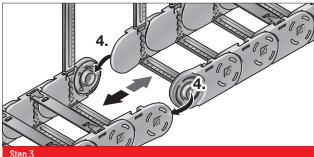












All details given in our sales brochures and catalogs, as well as the information available online, are based on our current knowledge of the products described.

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

A legally binding assurance of certain properties or the suitability for a certain purpose can not be determined from this information.

All information with respect to the chemical and physical properties of Murrplastik products, as well as application advice given verbally, in writing or by tests, is given to the best of our knowledge.

They do not release the buyer from the obligation to carry out his own tests and trials in order to determine the concrete suitability of the products for the intended purpose.

murrplastik accepts no responsibility for the available information being up-to-date, correct or complete. Neither do we accept responsibility for the quality of this information.

murrplastik accepts no liability for damage caused as a result of using our products.

murrplastik reserves the right to make technical changes and improvements through constant further development of products and services.

Our General Terms and Conditions apply.



Murrplastik Systemtechnik GmbH

Dieselstraße 10 71570 Oppenweiler Germany

+49 7191 482-0 info@murrplastik.de

HRB 271053 Local court Stuttgart VAT ID: DE 144 744 122

