

Data sheet
MP CLASSIC

MP 35

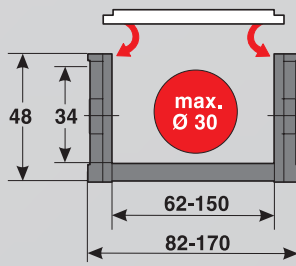


35
OPEN

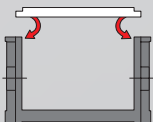


MP CLASSIC

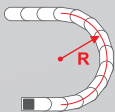
- METAL CHAIN BRACKET
- LOW-COST VARIANT



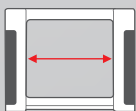
TECHNICAL DATA



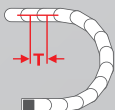
Loading side
Inside bend



Available radii
70.0 - 300.0 mm



Available interior widths
With plastic crossbar
62.0 - 150.0 mm



Grid
T = 58.0 mm





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.	40.0 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.	3.0 m/s
Speed, self-supporting V_T max.	10.0 m/s
Acceleration, gliding a_g max.	15.0 m/s ²
Acceleration, self-supporting a_T max.	20.0 m/s ²

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

MATERIAL PROPERTIES

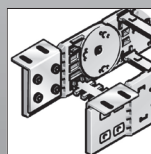
Standard material	Polyamide (PA) black
Service temperature	-30.0 - 120.0 °C (-76 to 176 °F)
Gliding friction factor	0.3
Static friction factor	0.45
Fire classification	Based on UL 94 HB

Other material properties on request.

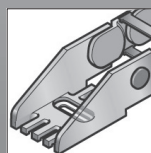
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SHELVING SYSTEM

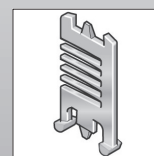
CHAIN BRACKET



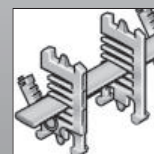
Chain bracket angle



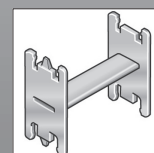
Chain bracket U-part



TR separator



RS shelving system



H-shaped shelving unit (RE)

GUIDE CHANNELS



VAW steel galvanized / stainless steel



VAW aluminum

ORDER KEY

Dimensions in mm [US inch]

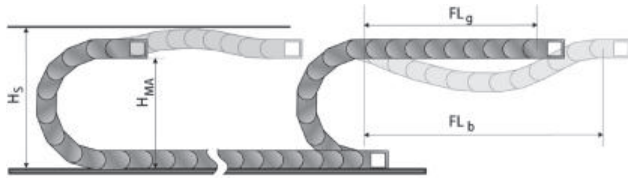
Type code	Variant	Inside width	Outside width	Inside width	Outside width	Radius	Crossbar variant	Material	Chain length
0350 02	Crossbar in outside bend Crossbar in inside bend Opens on inside bend	062 [2.44]	082 [3.23]			070 [2.76]	0 Plastic, full-ridged with bias	0 Polyamide (PA): standard (PA/black)	
		086 [3.39]	106 [4.17]						
		102 [4.02]	122 [4.80]						
		125 [4.92]	145 [5.71]			100 [3.94]	1 Plastic, full-ridged without bias	9 Special version (on request)	
		150 [5.91]	170 [6.69]			150 [5.91]			
						200 [7.87]			
						300 [11.81]			



ORDERING EXAMPLE: 0350 02 062 070 0 0 1276

Crossbar in outside bend, crossbar in inside bend, can be opened from inside bend
 Inside width 62 mm; radius 70 mm
 Plastic bridge, full-ridged with bias, material black-colored polyamide
 Chain length 1276 mm (22 links)

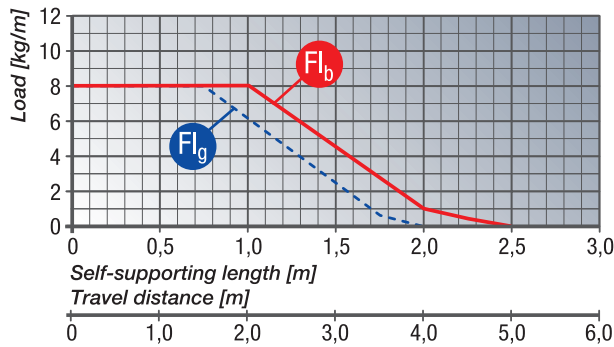
SELF-SUPPORTING LENGTH



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



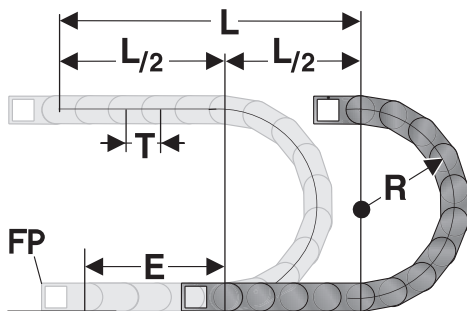
FL_g Self-supporting length, upper run straight

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 60.0 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.

DETERMINING THE CHAIN LENGTH



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

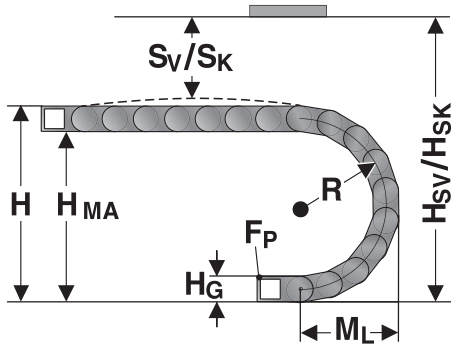
This arrangement gives the shortest connection between the fixed point and the moving bracket and thus the most efficient chain length.

Chain length calculation = $L/2 + \pi * R + 2 * T + E$
 $\approx 1 \text{ m chain} = 17 \text{ links, } 58.0 \text{ mm each}$

- E = Distance between entry point and middle of travel distance
- L = Travel distance
- R = Radius
- T = Grid 58.0 mm

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INSTALLATION DIMENSIONS



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

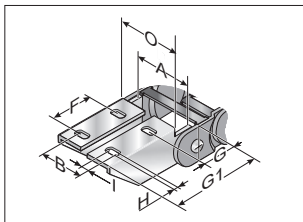
Concerning the installed dimensions, you must take into account whether the chain links are equipped with or without bias.

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

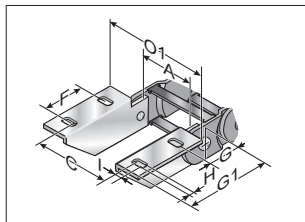
If the chain links are equipped with a bias, the "installed height with bias H_{SV} " has to be taken into account.

Radius R	70	100	150	200	300
Outside height of chain link (H_b)	48	48	48	48	48
Height of bend (H)	188	248	348	448	648
Height of moving end bracket (H_{MA})	140	200	300	400	600
Safety margin with bias (S_v)	40	40	40	40	40
Installation height with bias (H_{sv})	228	288	388	488	688
Safety margin without bias (S_k)	15	15	15	15	15
Installation height without bias (H_{sk})	203	263	363	463	663
Arc projection (M_L)	152	182	232	282	382

KA 35 ANGLE CHAIN BRACKET



KA 35... (Inside up / down)

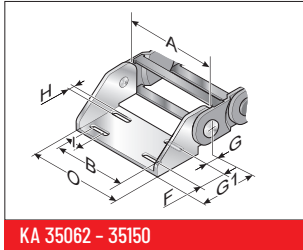


KA 35... (Outside up / down)

The chain bracket can be supplied either in galvanized sheet steel or stainless steel. To secure one cable drag chain, you will need two angle brackets (left and right) with a drilled hole and two angle brackets (left and right) with a bolt. The order numbers given below each comprise a left and right angle bracket.

Type	Order No.	Material	Inside width								Outside width KA O mm	Outside width KA O1 mm
			A mm	B mm	C mm	F mm	G mm	G2 mm	HØ mm	I mm		
KA 3508 female	0350000054	Sheet steel	62.0 - 150.0	A-7,0	A+28.0	25.0	20.0	55.0	7.0	8.0	A+20.0	A+52.0
KA 3508 male	0350000055	Sheet steel	62.0 - 150.0	A-12,0	A+38.5	25.0	20.0	55.0	7.0	8.0	A+10.0	A+52.0
KA 3509 female	0350000056	Stainless steel 1.4301	62.0 - 150.0	A-7,0	A+28.0	25.0	20.0	55.0	7.0	8.0	A+20.0	A+52.0
KA 3509 male	0350000057	Stainless steel 1.4301	62.0 - 150.0	A-12,0	A+38.5	25.0	20.0	55.0	7.0	8.0	A+10.0	A+52.0

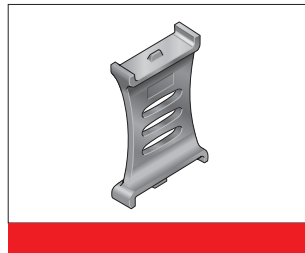
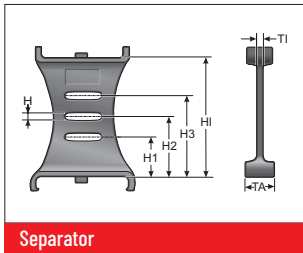
KA 35 U-PART CHAIN BRACKET



The metal connection (U-section) is precisely adjusted to the respective chain width. It only needs to be snapped in the chain link. Please order one male and one female end bracket for each chain. The brackets should be fastened with M6 screws.

Type	Order No.	Material	Inside width							Outside width KA	
			A mm	B mm	F mm	G mm	G1 mm	HØ mm	I mm	O mm	
KA 35062 female	035000007000	Sheet steel	62.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35062 male	035000007100	Sheet steel	62.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35086 female	035000007200	Sheet steel	86.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35086 male	035000007300	Sheet steel	86.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35102 female	035000007400	Sheet steel	102.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35102 male	035000007500	Sheet steel	102.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35125 female	035000007600	Sheet steel	125.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35125 male	035000007700	Sheet steel	125.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35150 female	035000007800	Sheet steel	150.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35150 male	035000007900	Sheet steel	150.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35062 female	035000008000	Stainless steel 1.4301	62.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35062 male	035000008100	Stainless steel 1.4301	62.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35086 female	035000008200	Stainless steel 1.4301	86.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35086 male	035000008300	Stainless steel 1.4301	86.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35102 female	035000008400	Stainless steel 1.4301	102.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35102 male	035000008500	Stainless steel 1.4301	102.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35125 female	035000008600	Stainless steel 1.4301	125.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35125 male	035000008700	Stainless steel 1.4301	125.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35150 female	035000008800	Stainless steel 1.4301	150.0	A-7,0	25.0	20.0	55.0	7.0	15.0	A+20.0	
KA 35150 male	035000008900	Stainless steel 1.4301	150.0	A-12,0	25.0	20.0	55.0	7.0	15.0	A+20.0	

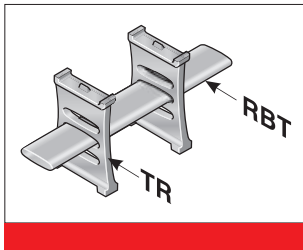
TR 35 SEPARATOR



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	H4 mm
TR 35	035000009200	Separator	lockable	2.0	13.0	2.5	10.9	16.9	22.9	33.8

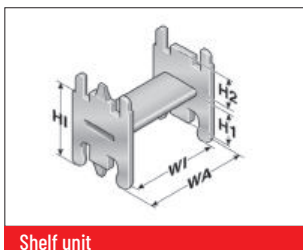
SHELVING SYSTEM MP 35



The shelf must be used with a minimum of two separators to create a shelving system. The additional levels prevent cables from criss-crossing and minimize the friction between them. The shelves are matched to the available chain widths.

Type	Order No.	Description	Width mm	Grid mm
RBT 062	100000006200	Shelf	62.0	3.0
RBT 086	100000008600	Shelf	86.0	3.0
RBT 101	100000010100	Shelf	101.0	3.0
RBT 125	100000012500	Shelf	125.0	3.0
RBT 150	100000015000	Shelf	150.0	3.0

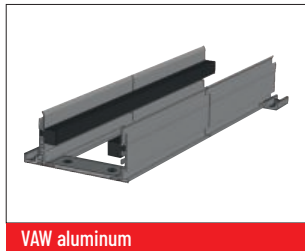
RE 35 H-SHAPED SHELF UNIT



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

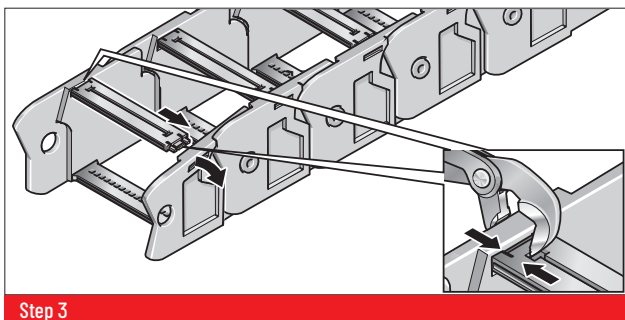
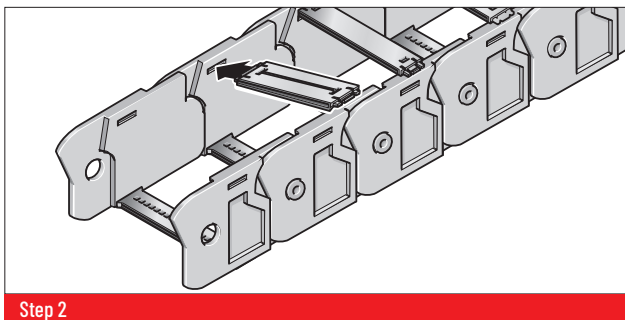
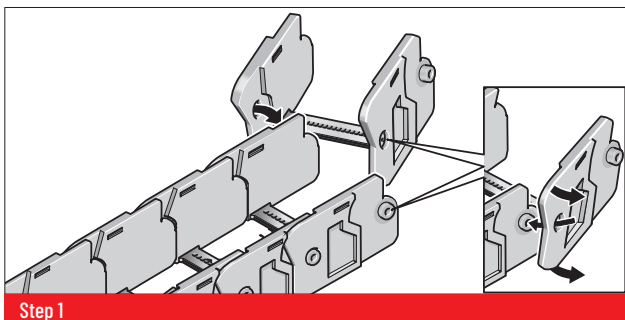
Type	Order No.	Description	WA mm	WI mm	H1 mm	H2 mm	H3 mm
RE 35/33	100000353310	H-shaped shelf unit	35.5	30.5	18.0	12.0	33.0
RE 35/48	100000354810	H-shaped shelf unit	50.5	45.5	18.0	12.0	33.0
RE 35/57	100000355710	H-shaped shelf unit	59.5	54.5	18.0	12.0	33.0

VAW GUIDE CHANNEL (ALUMINUM / STAINLESS STEEL)

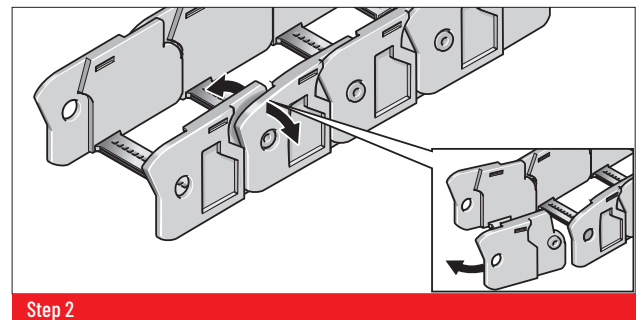
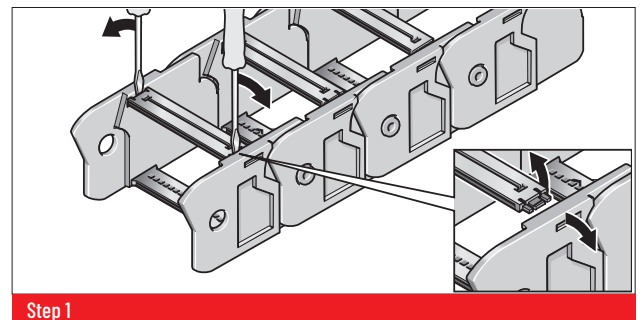


A range of variable guide channel systems, constructed from aluminum or stainless steel sections, is available for this energy chain. The variable guide channel ensures that the energy chain is supported and guided securely.

ASSEMBLY



DISASSEMBLY



MP 35 OPEN

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.
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 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.
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