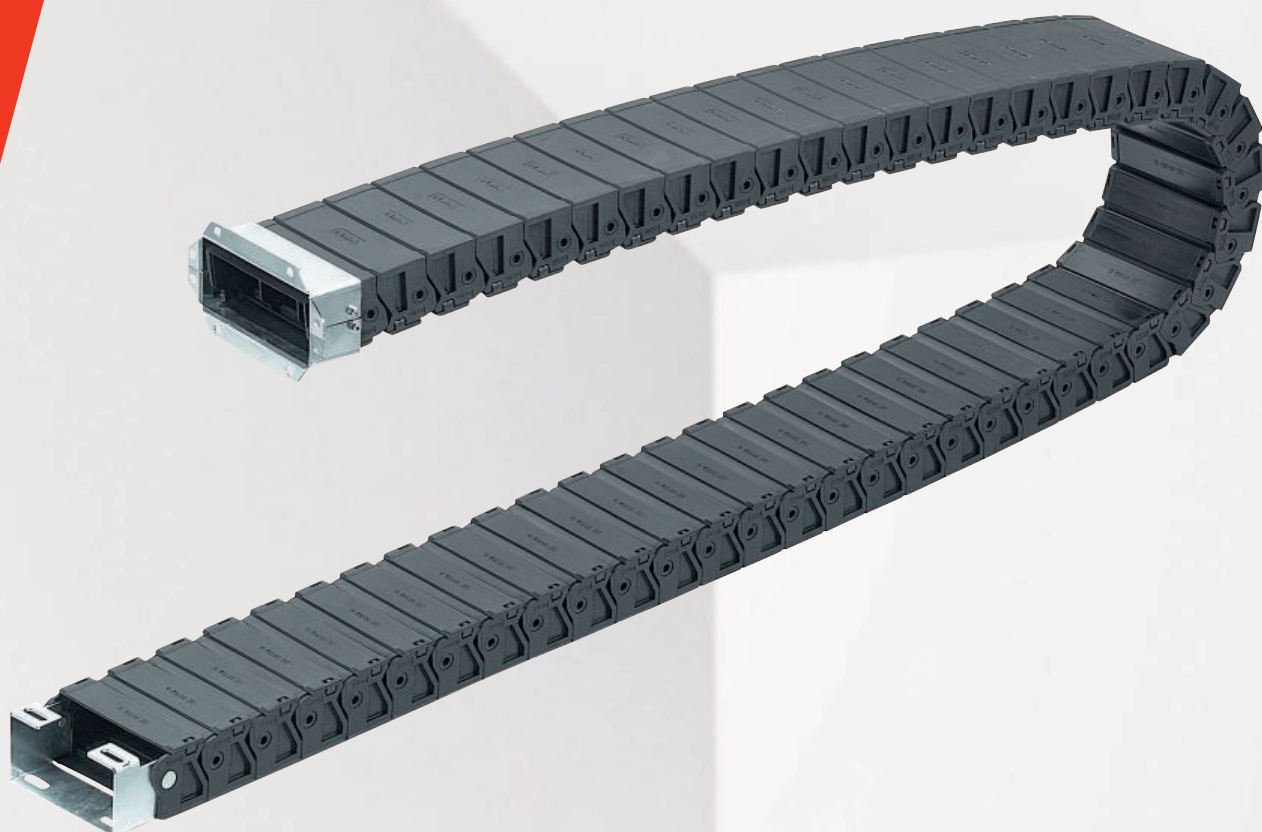


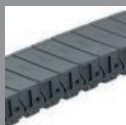
Data sheet

MULTILINE **MP 36G**



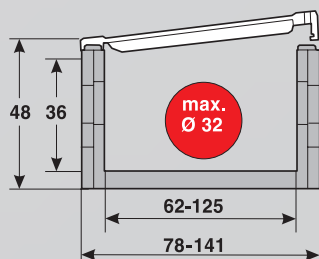
MP 36G

CLOSED

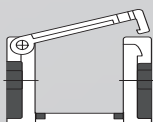


MULTILINE

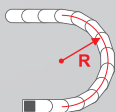
- CLOSED VARIANTS, STARTING WITH RADIUS 80 MM
- METAL CHAIN BRACKET



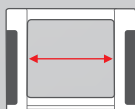
TECHNICAL DATA



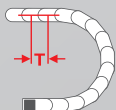
Loading side
Inside bend



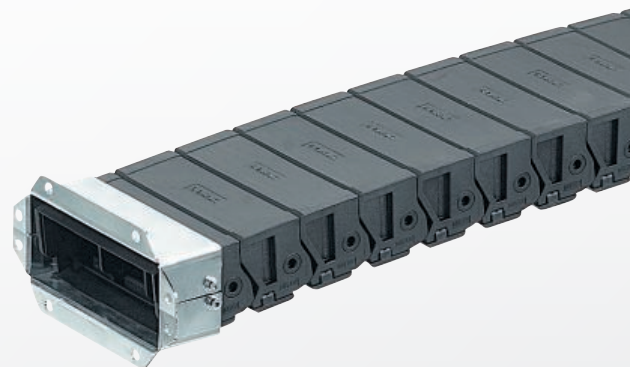
Available radii
80.0 - 200.0 mm

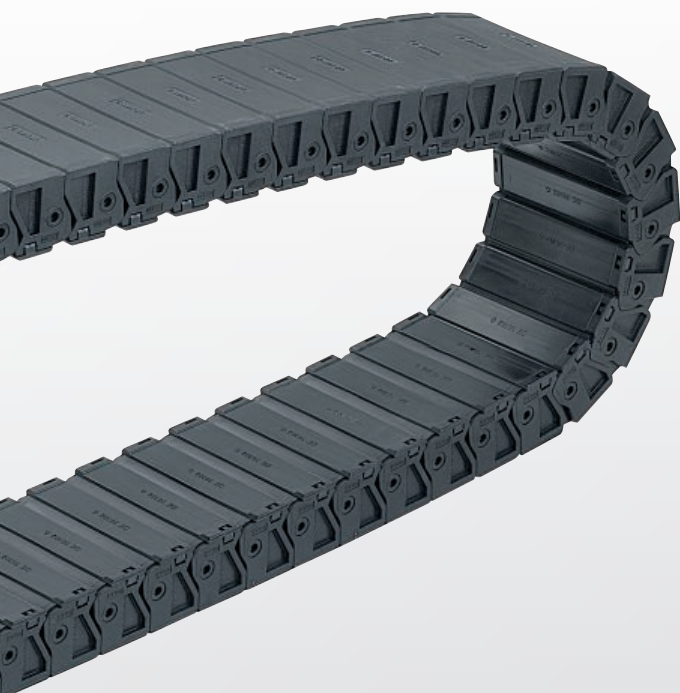


Available interior widths
With plastic crossbar
62.0 - 125.0 mm



Grid
T = 40.0 mm





TECHNICAL SPECIFICATIONS

Travel distance gliding L_g max.	60.0 m
Travel distance self-supporting L_t 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_{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

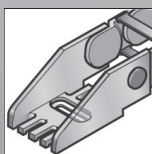
Contact our engineering department to meet any higher requirements: efk@murrplastik.de

MATERIAL PROPERTIES

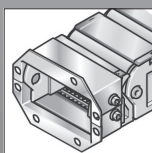
Standard material	Polyamide (PA) black
Service temperature	-30.0 - 120.0 °C (-76 to 176 °F)
Gliding friction factor	0.3
Static friction factor	0.45
Fire classification	Based on UL 94 HB

Other material properties on request.

CHAIN BRACKET

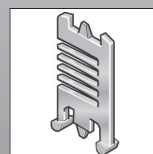


Chain bracket U-part

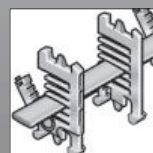


Chain bracket flange

SHELVING SYSTEM



TR separator

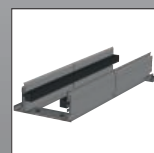


RS shelving system

GUIDE CHANNELS



VAW steel galvanized / stainless steel



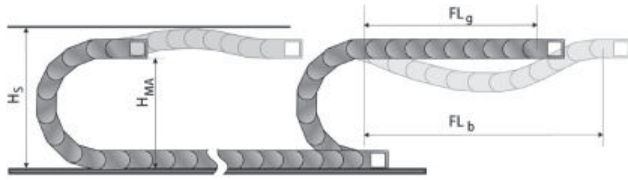
VAW aluminum

Dimensions in mm [US inch]

The diagram illustrates a multi-processor system. A central horizontal bus is shown at the top. Below the bus, there are four processing units. The first unit on the left is a single large rectangle containing six vertical bars. The second unit is a Y-shaped structure with a light blue top section and a darker blue bottom section containing three vertical bars. The third unit consists of two separate rectangles, each containing three vertical bars. The fourth unit on the right consists of two separate rectangles, each containing three vertical bars. Arrows point from the bus to each of these four processing units.

Cover in outside bend, cover in inside bend, can be opened from inside bend
Inside width 62 mm; radius 80 mm
Plastic bridge, full-ridged with bias, material black-colored polyamide
Chain length 1280 mm (32 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.

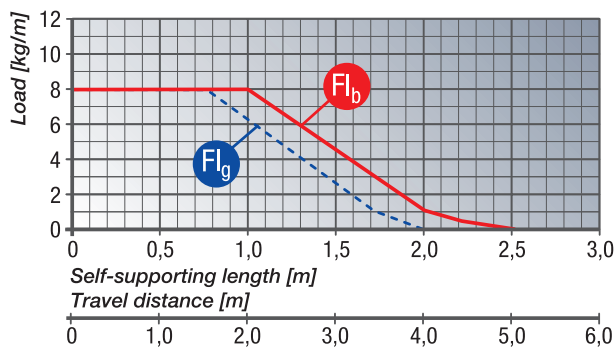
H_s = Installation height plus safety

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

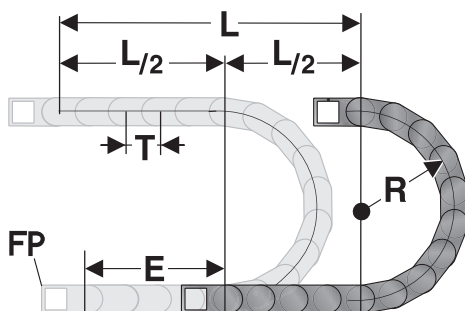
In the FL_g range, the chain upper run still has a bias, is straight or has a maximum sag of 60.0 mm.

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 = $L/2 + \pi \cdot R + 2 \cdot T + E$

≈ 1 m chain = 25 links, 40.0 mm each

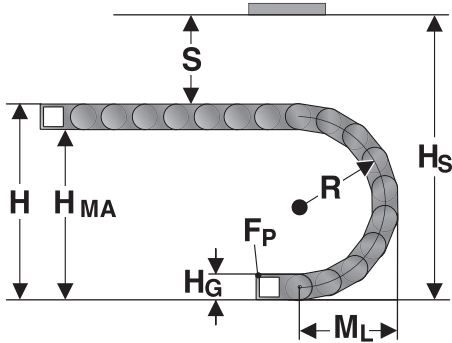
E = Distance between entry point and middle of travel distance

L = Travel distance

R = Radius

T = Grid 40.0 mm

INSTALLATION DIMENSIONS

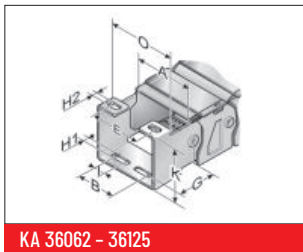


The moving end chain bracket is to be screw fixed at height H_{MA} for the respective radius.

For the installed dimension the "Installed height H_S " has to be taken into account.

Radius R	80	100	125	150	200
Outside height of chain link (H_b)	48	48	48	48	48
Height of bend (H)	208	248	298	348	448
Height of moving end bracket (H_{MA})	160	200	250	300	400
Safety margin (S)	32	32	32	32	32
Installation height (H_S)	240	280	330	380	480
Arc projection (M_L)	144	164	189	214	264

KA 36 G U-PART CHAIN BRACKET



KA 36062 - 36125

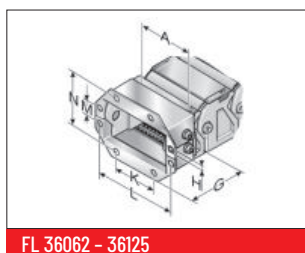
The chain bracket can be supplied either in galvanized sheet steel or stainless steel. To secure one energy chain, you will need a bracket with a drilled hole and a bracket with a bolt.

Type	Order No.	Material	Inside width A mm	E mm	G mm	G1 mm	H1 mm	H2 mm	I mm	K mm	Outside width KA O mm
KA 36062 C Female end	036000001000	Sheet steel	62.0	A-7,5	32.0	42.0	6.6	6.6	6.0	48.8	A+12.0
KA 36062 C Male end	036000001100	Sheet steel	62.0	A-7,5	32.0	42.0	6.6	6.6	6.0	48.8	A+8.0
KA 36086 C Female end	036000001200	Sheet steel	86.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36086 C Male end	036000001300	Sheet steel	86.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36102 C Female end	036000001400	Sheet steel	102.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36102 C Male end	036000001500	Sheet steel	102.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36125 C Female end	036000001600	Sheet steel	125.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36125 C Male end	036000001700	Sheet steel	125.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36062 C Female end	036000002000	Stainless steel 1.4301	62.0	A-7,5	32.0	42.0	6.6	6.6	6.0	48.8	A+12.0
KA 36062 C Male end	036000002100	Stainless steel 1.4301	62.0	A-7,5	32.0	42.0	6.6	6.6	6.0	48.8	A+8.0
KA 36086 C Female end	036000002200	Stainless steel 1.4301	86.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36086 C Male end	036000002300	Stainless steel 1.4301	86.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36102 C Female end	036000002400	Stainless steel 1.4301	102.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+12.0

KA 36 G U-PART CHAIN BRACKET

Type	Order No.	Material	Inside width A mm	E mm	G mm	G1 mm	H1 mm	H2 mm	I mm	K mm	Outside width KA O mm
KA 36102 C Male end	036000002500	Stainless steel 1.4301	102.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36125 C Female end	036000002600	Stainless steel 1.4301	125.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36125 C Male end	036000002700	Stainless steel 1.4301	125.0	A-7,5	32.0	42.0	6.6	6.6	15.5	48.8	A+8.0

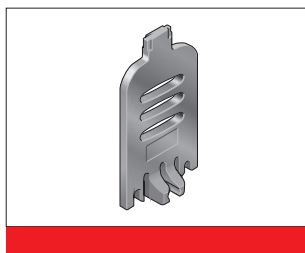
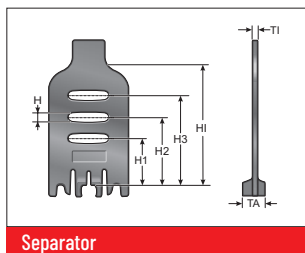
KA 36 CHAIN BRACKET FLANGE



A energy chain requires two chain brackets. The divisible flange connection has been specifically designed for commissioning and re-installation. This keeps the chain in the installed position.

Type	Order No.	Material	Inside width A mm	G mm	HØ mm	K mm	L mm	M mm	N mm
FL 36062	0360062054	Sheet steel	62.0	56.0	7.0	40.0	97.9	18.0	68.5
FL 36086	0360086054	Sheet steel	86.0	56.0	7.0	64.0	121.9	18.0	68.5
FL 36102	0360102054	Sheet steel	102.0	56.0	7.0	80.0	137.9	18.0	68.5
FL 36125	0360125054	Sheet steel	125.0	56.0	7.0	103.0	160.9	18.0	68.5
FL 36062	0360062056	Stainless steel 1.4301	62.0	56.0	7.0	40.0	97.9	18.0	68.5
FL 36086	0360086056	Stainless steel 1.4301	86.0	56.0	7.0	64.0	121.9	18.0	68.5
FL 36102	0360102056	Stainless steel 1.4301	102.0	56.0	7.0	80.0	137.9	18.0	68.5
FL 36125	0360125056	Stainless steel 1.4301	125.0	56.0	7.0	103.0	160.9	18.0	68.5

SEPARATOR TR 36G

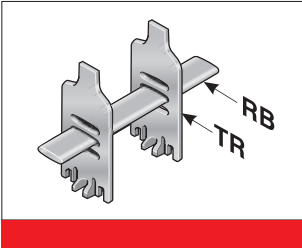


We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

Type	Order No.	Description	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm
TR 36G	036000009200	Separator	lockable	2.5	10.5	2.5	13.5	19.5	25.5	36.5

MP 36G CLOSED

MP 36G SHELVING SYSTEM



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	2.5
RBT 086	100000008600	Shelf	86.0	2.5
RBT 101	100000010100	Shelf	101.0	2.5
RBT 125	100000012500	Shelf	125.0	2.5

VAW GUIDE CHANNEL (ALUMINUM / STAINLESS STEEL)



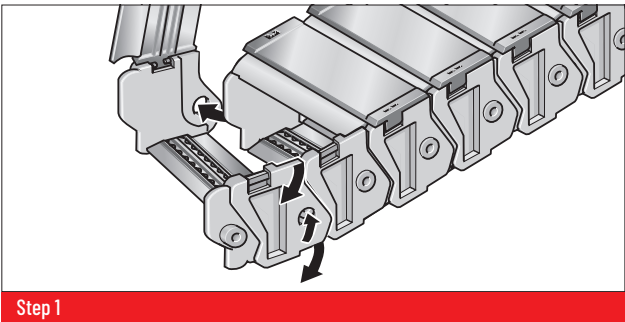
VAW steel galvanized/stainless steel



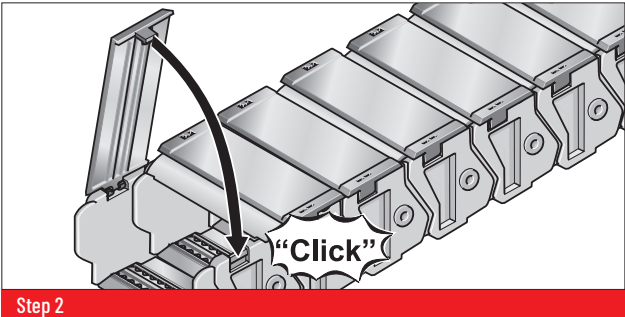
VAW aluminum

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

ASSEMBLY

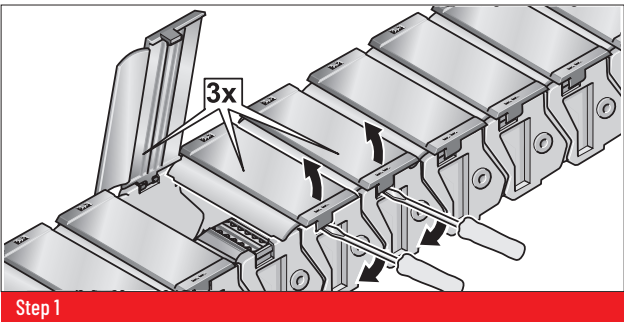


Step 1

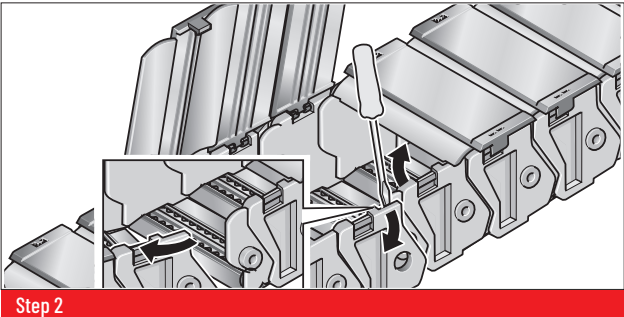


Step 2

DISASSEMBLY



Step 1



Step 2

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