



## **MP 25G**





# MP 25G

MULTILINE



- CLOSED VARIANTS, STARTING WITH R60
- COMPACT DESIGN



## **TECHNICAL DATA**





#### **TECHNICAL SPECIFICATIONS**

Travel distance gliding $L_a$ max.	40.0 m					
Travel distance self-supporting L, max.	see diagram on page 5					
Travel distance vertical, hanging L <sub>vb</sub> max.	25.0 m					
Travel distance vertical, upright $L_{vs}$ max.	3.0 m					
Rotated 90°, unsupported L <sub>gof</sub> max.	1.0 m					
Speed, gliding V <sub>a</sub> max.	3.0 m/s					
Speed, self-supporting V, max.	6.0 m/s					
Acceleration, gliding a max.	10.0 m/s <sup>2</sup>					
Acceleration, self-supporting a, max.	15.0 m/s <sup>2</sup>					

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
Gliding friction factor	0.3
Static friction factor	0.45
Fire classification	Based on UL 94 HB

Other material properties on request.

MP 25G CLOSED

#### **SHELVING SYSTEM**



Separator TR



Shelving system RS



VAW stainless steel

**GUIDE CHANNELS** 



VAW aluminium







Chain bracket U-part

**CHAIN BRACKET** 



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## MP 25G CLOSED

<b>NR</b>	DF	R	N	G I	KF\	1
UII						

Type code Variation	Inside width	Outside width	Inside width	Outside width	Radius	Rail variant	Material	Chain length
0250 03 Cover on outside of radius Opens on outside bend	026 [1.02] 037	042 [1.65] 053			<b>060</b> [2.36]	0 Plastic, full-ridged with blas	0 Polyamide standard (PA/black)	
	[1.46] 062	[2.09] 078						
	[2.44] 087 [3.43]	[3.07] <b>103</b> [4.06]			<b>075</b> [2.95]		7 EMC (PA/light grey)	
	<b>101</b> [3.98]	<b>117</b> [4.61]			100		Special version (on	
	<b>125</b> [4.92]	<b>141</b> [5.55]			[3.94]		9 request)	
	_				<b>125</b> [4.92]			
					<b>150</b> [5.91]			
					<b>200</b> [7.87]			
					<b>250</b> [9.84]			
						↓ ▼		
							-	
	- ORDE	R SAMF	PLE: 025	50 03 02	26 060 0	0 1230		

Cover in outside bend, cover in inside bend, can be opened from outside bend Inside width 26 mm; radius 60 mm Plastic bridge, full-ridged with bias, material black-coloured polyamide Chain length 1230 mm (41 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 cable drag 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
- $FL_{b}^{o}$  = Self-supporting length, upper run bent

## LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



#### FL<sub>a</sub> Self-supporting length, upper run straight

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

#### FL<sub>b</sub> Self-supporting length, upper run bent

In the FL<sub>b</sub> range, the chain upper run has a sag of more than60.0 mm, but this is still less than the maximum sag. Where the sag is greater than that permitted in the FL<sub>b</sub> 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 cable drag chain should be connected in the middle of the travel distance.

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

Chain length calculation = L/2 +  $\pi$  \* R + 2 \* T + E  $\approx$  1 m chain = 33 qty. x 30.0 mm links.

- $\mathsf{E}=\mathsf{distance}\ \mathsf{between}\ \mathsf{entry}\ \mathsf{point}\ \mathsf{and}\ \mathsf{middle}\ \mathsf{of}\ \mathsf{travel}\ \mathsf{distance}$
- L = travel distance
- R = radius
- T = Pitch 30.0 mm



#### **EINBAUMASSE**



The moving end chain connection is to be screw fixed at height  $H_{MA}$  for the respective radius. For the installed dimension the "Installed height  $H_s$ " value has to be taken into account.

60	75	100	125	150	200	250
37	37	37	37	37	37	37
157	187	237	287	337	437	537
120	150	200	250	300	400	500
33	33	33	33	33	33	33
190	220	270	320	370	470	570
109	124	149	174	199	249	299
	60 37 157 120 33 190 109	607537371571871201503333190220109124	6075100373737157187237120150200333333190220270109124149	60751001253737373715718723728712015020025033333333190220270320109124149174	607510012515037373737371571872372873371201502002503003333333333190220270320370109124149174199	6075100125150200373737373737157187237287337437120150200250300400333333333333190220270320370470109124149174199249

## **CHAIN BRACKET U-PART KA 25 G**



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

Туре	Order No.	Material	Inside width	_	-			_		Outside width KA
			A mm	Emm	G mm	H1 mm	H2 mm	l mm	K	0 mm
KA 25026 C Female end	025000001000	Sheet steel	26.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25026 C Male end	025000001100	Sheet steel	26.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25037 C Female end	025000001200	Sheet steel	37.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25037 C Male end	025000001300	Sheet steel	37.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25062 C Female end	025000001400	Sheet steel	62.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25062 C Male end	025000001500	Sheet steel	62.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25087 C Female end	025000001600	Sheet steel	87.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25087 C Male end	025000001700	Sheet steel	87.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25101 C Female end	025000001800	Sheet steel	101.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25101 C Male end	025000001900	Sheet steel	101.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25125 C Female end	025000002000	Sheet steel	125.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25125 C Male end	025000002100	Sheet steel	125.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25026 C Female end	025000003000	Stainless steel 1.4301	26.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25026 C Male end	025000003100	Stainless steel 1.4301	26.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25037 C Female end	025000003200	Stainless steel 1.4301	37.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0

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## CHAIN BRACKET U-PART KA 25 G

Туре	Order No.	Material	Inside width							Outside width KA
			Α	E	G	H1	H2	1	Κ	0
			mm	mm	mm	mm	mm	mm	mm	mm
KA 25037 C Male end	025000003300	Stainless steel 1.4301	37.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25062 C Female end	025000003400	Stainless steel 1.4301	62.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25062 C Male end	025000003500	Stainless steel 1.4301	62.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25087 C Female end	025000003600	Stainless steel 1.4301	87.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25087 C Male end	025000003700	Stainless steel 1.4301	87.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25101 C Female end	025000003800	Stainless steel 1.4301	101.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25101 C Male end	025000003900	Stainless steel 1.4301	101.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0
KA 25125 C Female end	025000004000	Stainless steel 1.4301	125.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+11.0
KA 25125 C Male end	025000004100	Stainless steel 1.4301	125.0	A-10.0	42.0	6.6	6.6	6.6	36.0	A+8.0

## **TR 25G SEPARATOR**



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

Туре	Order No.	Designation	Version	TI	TA	н	H1	H2	H3	HI
				mm	mm	mm	mm	mm	mm	mm
TR 25G	025000009200	Separator	lockable	2.0	8.0	2.5	8.3	12.8	17.3	25.0

#### **SHELVING SYSTEM MP 25G**



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 minimise the friction between them. The shelves are matched to the available chain widths.

Туре	Order No.	Designation	Width mm	Pitch mm
RBT 037	10000003700	Shelf	37.0	2.52.5
RBT 062	10000006200	Shelf	62.0	2.52.5
RBT 086	10000008600	Shelf	86.0	2.52.5
RBT 101	10000010100	Shelf	101.0	2.52.5
RBT 125	10000012500	Shelf	125.0	2.52.5

#### **GUIDE CHANNEL VAW (ALUMINIUM / STAINLESS STEEL)**



For this cable drag chain, a range of variable guide channel systems are available, constructed from aluminium or stainless steel sections.

The variable guide channel ensures that the cable drag chain is supported and guided securely.

For help on choosing, please consult the chapter "Variable Guide Channel System".

## ASSEMBLY



## DISASSEMBLY



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