

Mounting Instructions

Festoon Systems for I-Beams Programs 0365 / 0370 / 0375

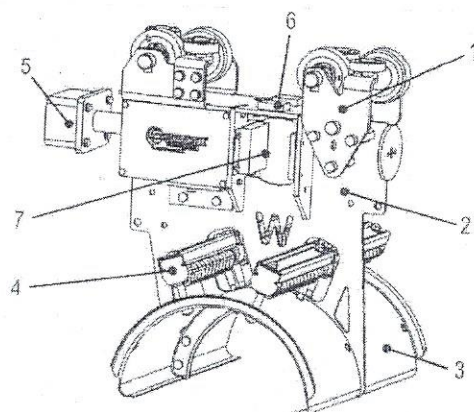


Fig. 13: Towing trolley

■ Towing trolley consisting of:

- 1) Running gear
- 2) Centre plate
- 3) Cable support
- 4) Clamping bar
- 5) Buffer / Buffer unit
- 6) Anti-lift plates
- 7) Towing window

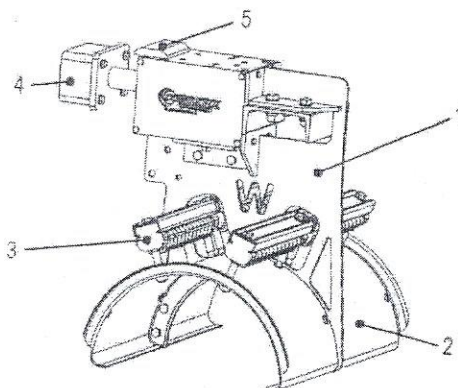


Fig. 14: Towing clamp

■ Towing clamp consisting of:

- 1) Centre plate
- 2) Cable support
- 3) Clamping bar
- 4) Buffer / Buffer unit
- 5) Anti-lift plate

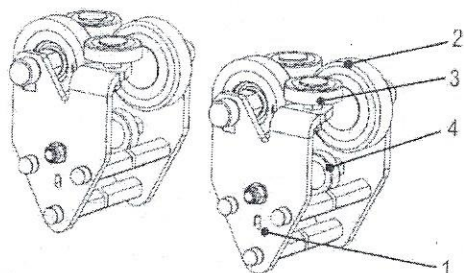


Fig. 15: Running gear

■ Running gear consisting of:

- 1) Side shield
- 2) Main roller (HTR)
- 3) Horizontal guide roller (HFR)
- 4) Anti-lift roller (GDR)

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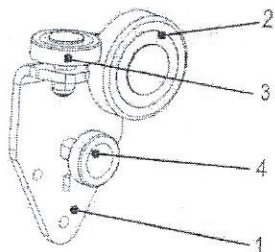


Fig. 16: Side shield

- Side shield consisting of:
- 1) Side shield plate
 - 2) Main roller (HTR)
 - 3) Horizontal guide roller (HFR)
 - 4) Anti-lift roller (GDR)



Fig. 17: Towing rope

- Towing rope consisting of:
- 1) Shackle
 - 2) Steel cable

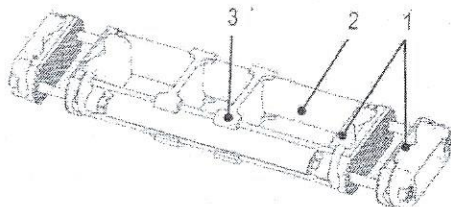


Fig. 18: Round cable clamp

- Round cable clamp consisting of:
- 1) Clamping part
 - 2) Guiding profile
 - 3) Spacer

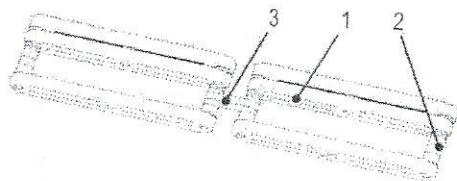
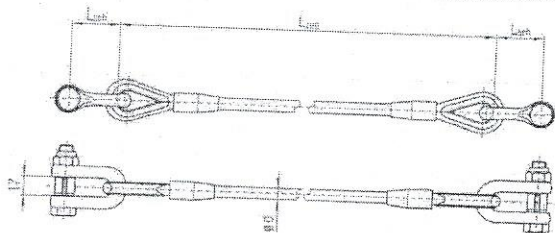


Fig. 19: Flat cable clamp

- Flat cable clamp consisting of:
- 1) Clamping part
 - 2) Spacer
 - 3) Connecting part

Accessories for Festoon Systems Program 0365, 0370 and 0375

Towing Ropes

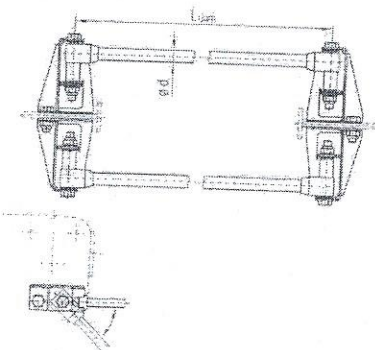


Order No.	ϕd [mm]	L_{sh} [mm]	Rope	Material Shackle	Fasteners	Program
031963	8/10	42	Galvanized steel	Galvanized steel	Stainless steel	0365 0370 0375
031964	10/12	42	PVC-coated	Galvanized steel	Seawater resistant aluminum	
031965/2	8/10	48	Stainless steel PVC-coated	Stainless steel	Stainless steel Seawater resistant aluminum	

Notes

- We recommend the installation of towing ropes for a speed from 50 m/min or a travel distance > 30 m
- The towing ropes are PVC-coated for a better protection against corrosion and to prevent the cables from damage
- For the calculation of the lengths please refer to our Engineering Guideline KAT0300-0101
- In case of order please state the lengths L_{rob} of the respective towing ropes

Damping Devices



Technical details

- Shock cord: rubber with plastic plait
- Console: hot-dipped galvanized steel
- Fasteners: stainless steel

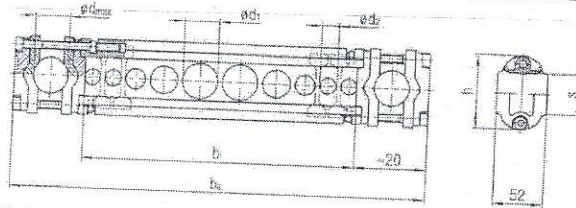
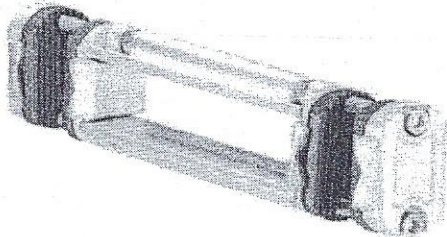
Order No.	Number of Shock Cords	ϕd [mm]	Program
031976-2	2	20	0365 0370 0375
031977-2	4	20	
031978-2	6	20	
031971	2	28	
031979	4	28	

Notes

- We recommend the installation of damping devices for high speed and/or short cable loops
- For the calculation of the length please refer to our Engineering Guideline KAT0300-0101
- In case of order please state the length of the respective shock cords L_{sh}
- Number and diameter are defined by weight load, cable loop and speed

Accessories for Festoon Systems Program 0365, 0370 and 0375

Round Cable Clamps



Technical details

- Clamping: aluminum/rubber
- Guiding profile: aluminum
- Fasteners: stainless steel

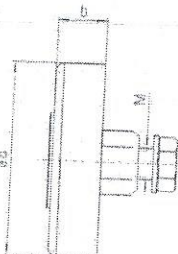
Order No.	σd_{max} (mm)	b_0 (mm)	b_1 (mm)	h (mm)	s (mm)	Σd^0 (mm)	Weight (kg)
031941-026x100/400	26	100	236	64	30	34	0.95
031941-026x150/400		150	286				1.07
031941-026x200/400		200	336				1.09
031941-026x250/400		250	386				1.31
031941-026x300/400		300	436				1.45
031941-026x350/400		350	486				1.57
031941-026x400/400		400	536				1.71
031941-026x450/400		450	586				1.83
031941-026x500/400		500	636				1.95
031941-026x550/400		550	686				2.07
031941-026x600/400		600	736				2.19
031941-026x650/400		650	786				2.33
031941-026x700/400		700	836				2.45
031941-036x100/400	36	100	256	74	40	46	1.04
031941-036x150/400		150	306				1.16
031941-036x200/400		200	356				1.28
031941-036x250/400		250	406				1.40
031941-036x300/400		300	456				1.54
031941-036x350/400		350	506				1.66
031941-036x400/400		400	556				1.80
031941-036x450/400		450	606				1.92
031941-036x500/400		500	656				2.04
031941-036x550/400		550	706				2.16
031941-036x600/400		600	756				2.28
031941-036x650/400		650	806				2.42
031941-036x700/400		700	856				2.54
031941-046x100/400	46	100	276	84	50	56	2.37
031941-046x150/400		150	326				2.49
031941-046x200/400		200	376				2.61
031941-046x250/400		250	426				2.73
031941-046x300/400		300	476				2.87
031941-046x350/400		350	526				2.99
031941-046x400/400		400	576				3.13
031941-046x450/400		450	626				3.25
031941-046x500/400		500	676				3.37
031941-046x550/400		550	726				3.50
031941-046x600/400		600	776				3.63
031941-046x650/400		650	826				3.75
031941-046x700/400		700	876				3.87

1) If the total of two adjacent cables ($d_1 + d_2$) is smaller than the value Σd of the table, spacers are required to separate the cables.
See page 17 above.

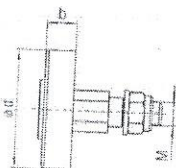
Wear Parts for Cable Trolleys

Program 0365, 0370 and 0375

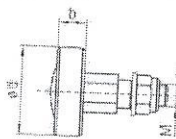
Replacement Rollers for Running Gear Types HMG and HMP



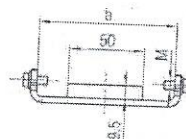
Main roller cylindrical



Horizontal guide roller



Anti-lift roller



Anti-lift plate
for cable trolley

Order No.	Description	ød [mm]	b [mm]	Thread M	Material Bandage	Weight [kg]
030120-112.1	Main roller cylindrical	112	27.5	M20	Vulkollan	0.8
030121-112.1					Adiprene	
030120-125.1		125	32.0	M20	Vulkollan	1.3
030121-125.1					Adiprene	
030120-160.1		160	50.0	M24	Vulkollan	2.7
030121-160.1					Adiprene	
030122-063.1	Horizontal guide roller	63	16.5	M12	Vulkollan	0.3
030123-063.1					Adiprene	
030122-080.1		80	20.0	M16	Vulkollan	0.5
030123-080.1					Adiprene	
030122-112.1		112	27.5	M20	Vulkollan	0.8
030123-112.1	Anti-lift roller	63	20.0	M16	Stainless steel	0.6
030124-063.1					Adiprene	0.6
030124-080.1		80	24.0	M16	Stainless steel	0.6
030125-0001	Anti-lift plate for for towing trolley and end clamp and towing trolley for catenary trolley	120.0	194.0	M8	Plastic	0.2
030125-0002	Anti-lift plate middle (towing trolley for towing trolley for catenary trolley)					
030125-0003	Anti-lift plate for towing trolley / -clamp					
		194.0		M12		0.6

Shock Cords



Technical details

- Shock cord: rubber with plastic plait
- Fasteners: stainless steel/hot-dipped galvanized steel

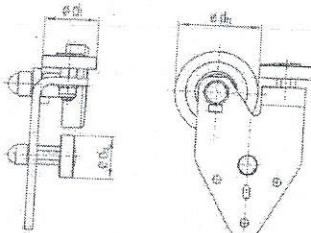
Order No.	ød [mm]	Weight [kg/m]
031989-2	20	0.4
031996	28	0.6

Note

In case of order please state the lengths L_{order} of the respective shock cords.

Spare Parts for Cable Trolleys Program 0365

Side Shields Complete



Running gear type HMG

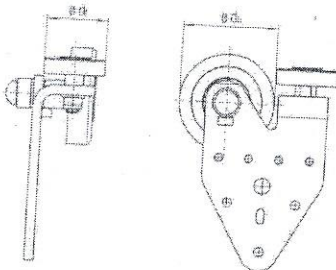
Complete side shields

consist of:

- Side shield
- Rollers mounted

Program 0365 for running gear type HMG

Order No.	Weight [kg]	ϕd_1 [mm]	ϕd_2 [mm]	Material Bandage	ϕd_3 [mm]	Material Anti-Lift Roller	Flange	I-Beam
039020-112-0124	4.0	112	63	Vulkollan	63	Stainless steel	Parallel	IPE 240 G 3192 250x125x6x9 W8x18
039021-112-0124				Adiprene				
039020-125-0124	4.5	125	80	Vulkollan				
039021-125-0124				Adiprene				
039020-112-0022	4.0	112	63	Vulkollan	63	Stainless steel	Tapered flange	INP 220 G 3192 200x100x7x10x8° S8x18.4
039021-112-0022				Adiprene				
039020-125-0022	4.5	125	80	Vulkollan				
039021-125-0022				Adiprene				



Running gear type HMP

Complete side shields

consist of:

- Side shield
- Rollers mounted
- Running gear type HMP without anti-lift plate

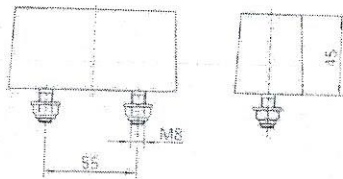
Program 0365 for running gear type HMP

Order No.	Weight [kg]	ϕd_1 [mm]	ϕd_2 [mm]	Material Bandage	Flange	I-Beam
039022-112-0124	3.5	112	63	Vulkollan	Parallel	IPE 240 G 3192 250x125x6x9 W8x18
039023-112-0124				Adiprene		
039022-125-0124	4.0	125	80	Vulkollan		
039023-125-0124				Adiprene		
039022-112-0022	3.5	112	63	Vulkollan	Tapered flange	INP 220 G 3192 200x100x7x10x8° S8x18.4
039023-112-0022				Adiprene		
039022-125-0022	4.0	125	80	Vulkollan		
039023-125-0022				Adiprene		

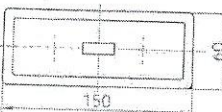
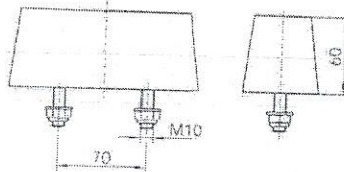
1) without anti-lift plate; for anti-lift plate see page 20 in this catalog

Wear Parts for Program 0350, 0360 and 0364

Rectangular Buffer



Rectangular buffer for cable trolleys



Rectangular buffer for end clamps

Program 0350, Main Rollers $\phi 50$ mm up to $\phi 100$ mm

Order No.	Shore Hardness A	Material	Weight [kg]	Component
031980-045x100/517	70	Rubber	0.5	Cable trolley
031980-060x150/617	70		0.7	End clamp

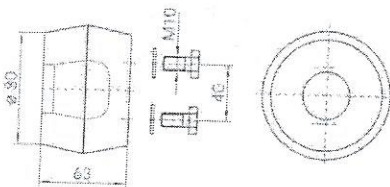
Program 0360, Main Rollers $\phi 50$ mm up to $\phi 63$ mm

Order No.	Shore Hardness A	Material	Weight [kg]	Component
031980-045x100/517	70	Rubber	0.5	Cable trolley
031980-060x150/617	70		0.7	End clamp

Notes

- Rollers, shock cords and buffers are maintenance items and must be inspected and/or replaced regularly.
- Please follow our maintenance instructions.

Round Buffer



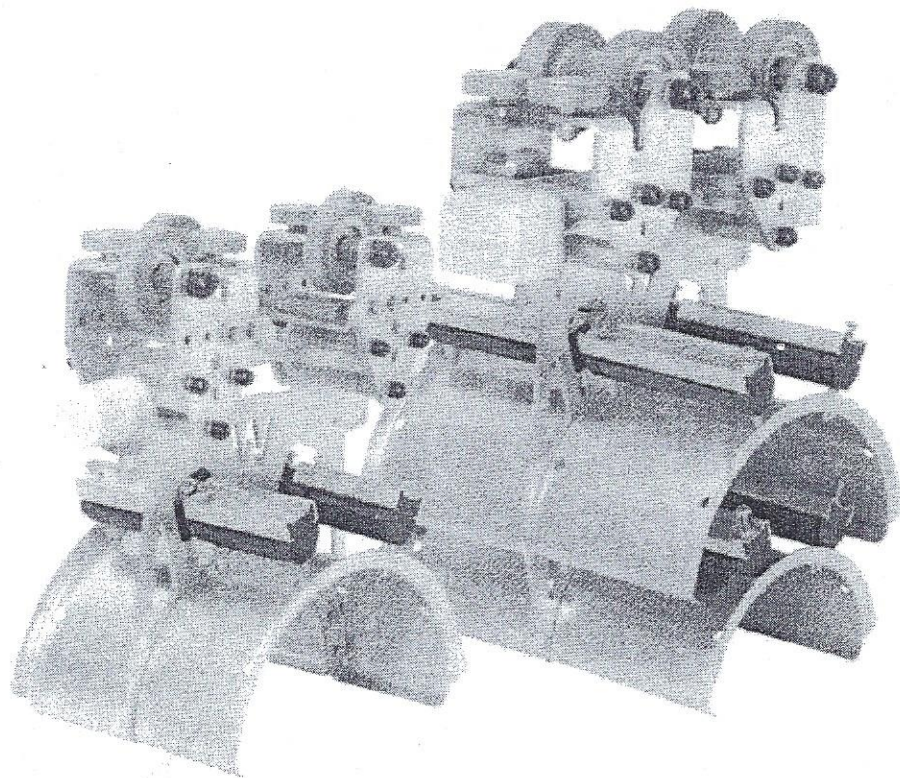
Order No.	Shore Hardness A	Material	Weight [kg]	Program	For Main Roller Diameter d [mm]
031980-080x063/514	40	Rubber	0.5	0360	80 - 125
031980-080x063/517	70		0.5	0364	100 - 112

Notes

- Rollers, shock cords and buffers are maintenance items and must be inspected and/or replaced regularly.
- Please follow our maintenance instructions.

Festoon Systems for I-Beams

Program 0365/0370/0375



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Mounting Instructions



Festoon Systems for I-Beams Programs 0365 / 0370 / 0375

4.2 Brief description

A festoon system consists of the end clamp, cable trolley, towing trolley or towing clamp, and cables. A towing arm (not included) couples the towing trolley or towing clamp to the mobile consumer. The towing trolley pulls and/or pushes the following cable trolley. Depending on the project, towing rope, shock cord, and round or flat cable clamps and cable organizers may also be used. The dimensions of the festoon system can be found in the project-specific dimension sheet.

4.3 Description of assemblies

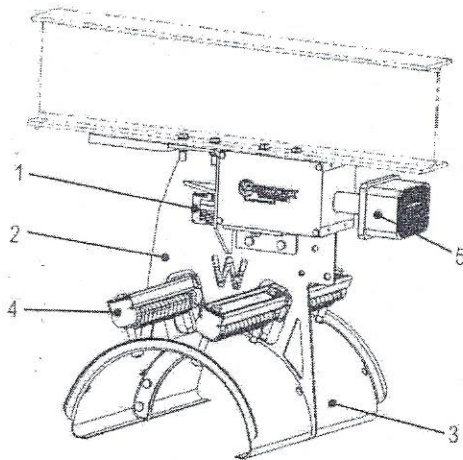


Fig. 11: End clamp

■ End clamp consisting of:

- 1) Type plate
- 2) Centre plate
- 3) Cable support
- 4) Clamping bar
- 5) Buffer/ Buffer unit

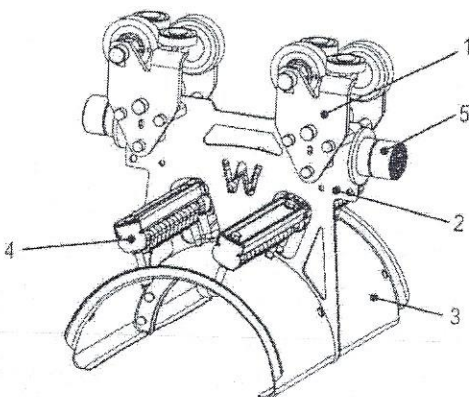


Fig. 12: Cable trolley

■ Cable trolley consisting of:

- 1) Running gear
- 2) Centre plate
- 3) Cable support
- 4) Clamping bar
- 5) Buffer