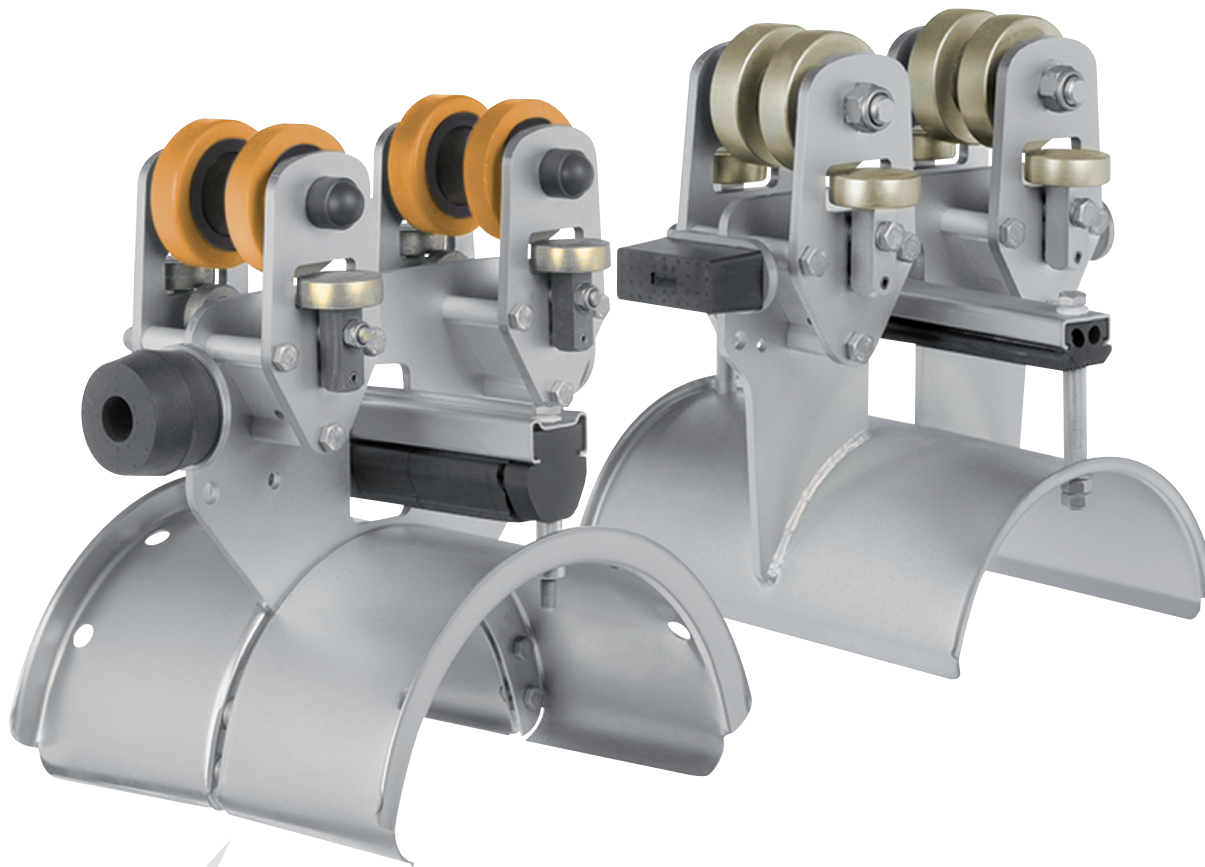


Festoon Systems for I-Beams

Program 0350 | 0360 | 0364



CONDUCTIX
wampler

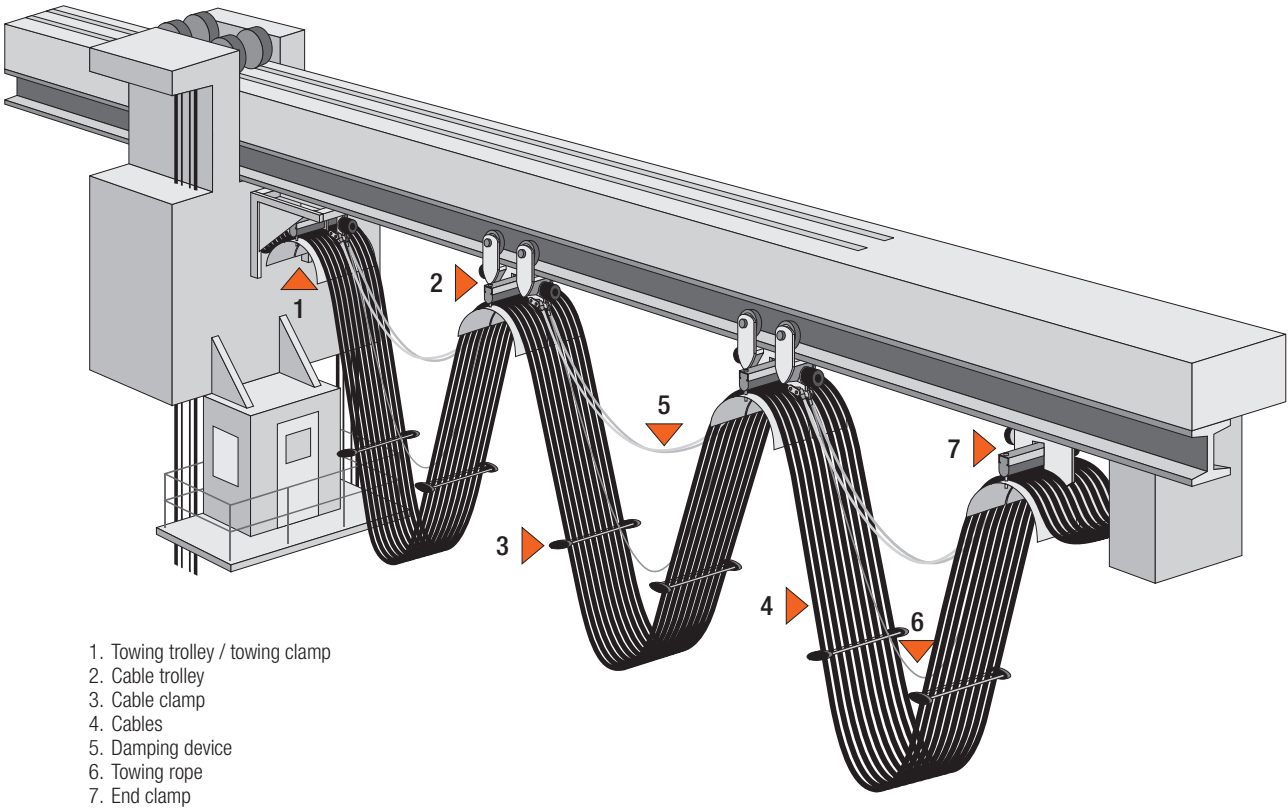
Contents

Festoon Systems	4
Festoon System for Flat and Round Cables	4
Program 0350 with Main Rollers ø 50 and 63 mm	5
Single Layer Cable Trolleys for Flat Cables with a Load Capacity up to 125 kg (275 lbs)	5
Selection of Cable Trolleys and Towing Trolleys	6
Selection of End Clamps and Towing Clamps	7
Selection of Running Gear	8
Program 0350 with Main Rollers ø 80 and 100 mm	9
Single or Dual Layer Cable Trolleys for Flat Cables with a Load Capacity up to 350 kg (770 lbs)	9
Selection of Cable Trolleys and Towing Trolleys	10
Selection of End Clamps and Towing Clamps	11
Additional Supports	11
Selection of Running Gear	12
Program 0360 with Main Rollers ø 50 and 63 mm	13
Single or Dual Layer Cable Trolleys for Round Cables with a Load Capacity up to 125 kg (275 lbs)	13
Selection of Cable Trolleys and Towing Trolleys	14
Selection of End Clamps and Towing Clamps	15
Additional Supports	15
Selection of Running Gear	16
Program 0360 with Main Rollers ø 80, 100, 112 and 125 mm	17
Single, Dual or Tripple Layer Cable Trolleys for Round Cables with a Load Capacity up to 500 kg (1100 lbs)	17
Selection of Cable Trolleys and Towing Trolleys	18
Selection of End Clamps and Towing Clamps	19
Additional Supports	19
Selection of Running Gear	20
Program 0364 with Main Rollers ø 100 and 112 mm	23
Single Layer Cable Trolley with Round Cables with a Load Capacity up to 125 kg (275 lbs)	23
Selection of Cable Trolleys, Towing Trolleys and Towing Trolleys for Catenary Trolley	24
Selection of End Clamps and Towing Clamps	25
Selection of Running Gear	25
Accessories for Program 0350, 0360 and 0364	26
Towing Ropes	26
Damping Devices	26
Cable Organizers for Cable Loops	27
Additional Clamping Pieces for Round Cable Clamps	27
Round Cable Clamps	28
Spacers	29
Flat Cable Clamps	29
Wear Parts for Program 0350, 0360 and 0364	31
Replacement Rollers for Running Gear	31
Shock Cords	32
Rectangular Buffer	33
Round Buffer	33
Spare Parts for Program 0350, 0360 and 0364	34
Cable Supports including Clamping Bar	34
Clamping Bars (Complete)	34
Side Shields (Complete)	34
Running Gears (Complete)	34

Conversion:	mm	50	63	80	100	112	125
	in	2.0	2.5	3.0	4.0	4.5	5.0

System Arrangement

Festoon System for Flat and Round Cables



A festoon sytem consists of the following components:

- 1 x end clamp
- X x cable trolleys
- 1 x towing trolley or alternatively 1 x towing clamp
- cable trolley and towing trolley require a running gear, which must be selected in addition to the trolley under part
- cable trolleys and towing trolleys are set to fit the exact track beam, in all cases the track beam must be specified
- the system components can be equipped with one or two additional cable supports depending on the program.

To ensure optimum operation of the system, depending upon the application, various accessories must be added, e.g. flat or round cable clamps, towing ropes or damping devices.

The Part No. of the system components is determined by the combination of the following single sub-assemblies:				
Cable Trolley Underpart	Additional Support 1	Additional Support 2	Running Gear	Track Beam Designation
Also:	optional	optional	only for cable trolleys and towing trolleys	
Towing trolley underpart				
Towing clamp				
End clamp				
For Part No. see the respective catalog pages of the programs. The system components are completely assembled prior to delivery, cable trolleys and towing trolleys are adjusted to the respective track beam.				

Program 0350

with Main Rollers $\varnothing 50$ and 63 mm

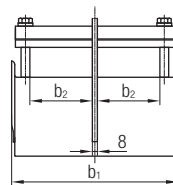
Single Layer Cable Trolleys for Flat Cables with a Load Capacity up to 125 kg (275 lbs)



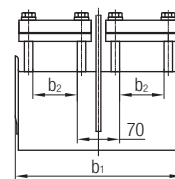
Technical details

Cable Supports	welded to the center plate, lateral-loading
Buffers	single-sided rectangular buffer
Max. Travel Speed ¹⁾	160 m/min (525 ft/min)
Max. Load Capacity ¹⁾	125 kg (275 lbs)
Cable Trolley Underpart and Running Gear	hot-dip galvanized steel
Fasteners	stainless steel
Temperature Range ¹⁾	-30°C to + 80°C (- 22°F to + 176°F)

¹⁾ depending on roller size/ roller material



Clamping bar
version 1
(continuous)



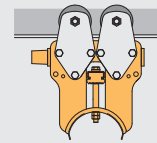
Clamping bar
version 2
(divided)

Ordering Example

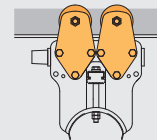
Part No. 0350215-34 - 431 - 1014

A cable trolley underpart with the following dimensions shall be used:

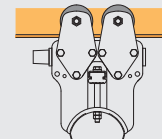
- Support diameter: $d_s = 160$ mm
- Clamping width: $b_2 = 152$ mm;
- Clamping height: $s = 70$ mm
- Part No.: 0350215-34 (chosen from catalog page 6)



The following running gear has been chosen:
Type S, flanged main rollers $\varnothing 63$ mm made of steel
• without anti-lift rollers
Part No. 431 (chosen from catalog page 8)



The following track beam has been chosen:
• S4 x7.7
• I-beam code: 1014 (chosen from catalog page 8)



The Part No. of the appropriate towing trolley is
the running gear must always be equipped with anti-lift rollers:

0350315-34-432-1014

The Part No. of the appropriate end clamp is:

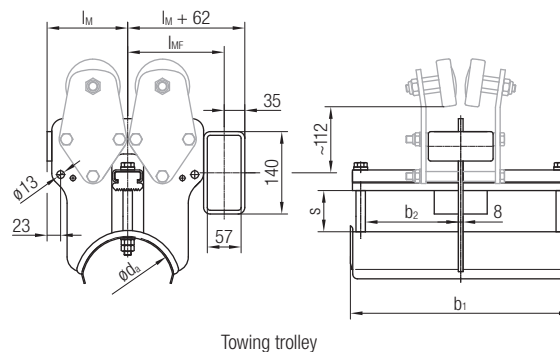
0350115-34

As an alternative to the towing trolley a towing clamp can be used.
The Part No. of the appropriate towing clamp is:

0350415-34

For calculation and selection please refer to our Engineering Guidelines for Festoon Systems KAT0300-0101

Selection of Cable Trolleys and Towing Trolleys



1) without running gear

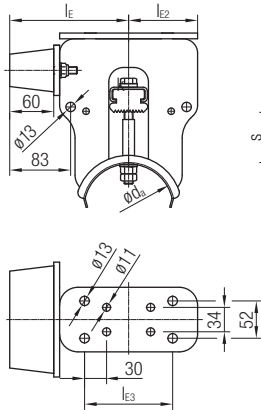
- The table only refers to the cable trolley or towing trolley underpart, the running gear must be selected and added. See page 8 of this catalog.
- Additional cable supports for this program are only available for systems with main roller sizes $\varnothing 80$ and 100 mm. See page 9 of this catalog.

6

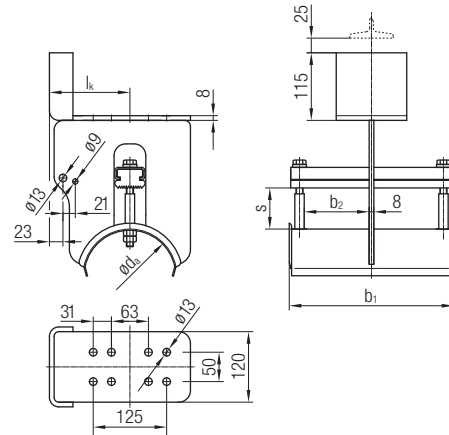
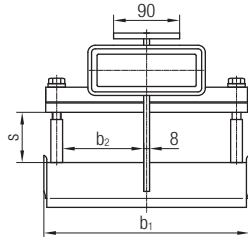
Program 0350

with Main Rollers $\varnothing 50$ and 63 mm

Selection of End Clamps and Towing Clamps



End clamp



Towing clamp

End Clamp Complete		Towing Clamp Complete		d _a	l _E	l _{E2}	l _{E3}	b ₁	b ₂	s	Clamping Bar Version	l _k			
Part No.	[kg]	Part No.	[kg]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]			
0350113-20	5.6	0350413-20	6.0	125	162	94	120	215	72	52	1	102			
0350113-22	5.9	0350413-22	6.3					280	105						
0350113-24	6.5	0350413-24	6.9					375	152						
0350112-30	5.7	0350412-30	6.2	160				197	103	160	215		72	35	1
0350112-32	6.1	0350412-32	6.5								280		105		
0350112-34	6.8	0350412-34	7.2								375		152		
0350115-30	7.1	0350415-30	7.3		215	72									
0350115-32	7.5	0350415-32	7.8	280	105	70	1								
0350115-34	8.4	0350415-34	8.5	375	152										
0350113-40	7.2	0350413-40	7.5	215	72						52	1			
0350113-42	7.6	0350413-42	8.0	280	105	1									
0350123-43	8.5	0350423-43	8.8	375	125	2									
0350113-44	8.3	0350413-44	8.6	375	152	1									
0350116-42	8.4	0350416-42	9.1	200	237	130	230				280	105	90	1	177
0350126-43	10.1	0350426-43	10.6								375	125		2	
0350116-44	9.8	0350416-44	10.3					375	152	1					
0350114-50	8.6	0350414-50	8.8					250	215	72	65	1			
0350114-52	8.8	0350414-52	9.7	280					105	1					
0350124-53	10.2	0350424-53	8.9	375					125	2					
0350114-54	10.0	0350414-54	8.7	375					152	1					

Program 0350

with Main Rollers ø50 and 63 mm

Selection of Running Gear

Running Gear		Order No.	Main Roller		Weight approx. [kg]	Preference Range I-beams			
			ød [mm]	Material Bandage		Parallel Flange	I-beam Code	Tapered Flange	I-beam Code
	Type H with cylindrical main rollers	311	50	Steel	3.8	-	-	S3x5.7	1010
		351	50	Polyurethane	3.5			S4x7.7	1014
		411	63	Steel	5.1	-	-	S3x5.7	1010
		451	63	Polyurethane	4.7			S4x7.7	1014
	Type HG with cylindrical main rollers and anti-lift rollers	312	50	Steel	4.3	-	-	S3x5.7	1010
		352	50	Polyurethane	4.1			S4x7.7	1014
		412	63	Steel	5.6	-	-	S3x5.7	1010
		452	63	Polyurethane	4.9	-	-	S4x7.7	1014
	Type HF with cylindrical main rollers and horizontal guide rollers	313	50	Steel	4.0	-	-	S3x5.7	1010
		357	50	Polyurethane	3.8	-	-	S4x7.7	1014
						-	-	S5x10.0	1018
						-	-	S6x12.5	1022
413	63	Steel	5.1	W4x13 W5x16	1110 1112	S3x5.7	1010		
457	63	Polyurethane	4.4			S4x7.7	1014		
	Type HFG with cylindrical main rollers, horizontal guide rollers and anti-lift rollers	314	50	Steel	4.5	-	-	S3x5.7	1010
		358	50	Polyurethane	4.0	-	-	S4x7.7	1014
						-	-	S5x10.0	1018
						-	-	S6x12.5	1022
414	63	Steel	5.6	W4x13 W5x16	1110 1112	S3x5.7	1010		
458	63	Polyurethane	4.9			S4x7.7	1014		
	Type S with flanged main rollers	331	50	Steel	4.2	-	-	S3x5.7	1010
		431	63	Steel	5.5	-	-	S4x7.7	1014
						-	-	S5x10.0	1018
						-	-	S6x12.5	1022
431	63	Steel	5.5	W4x13 W5x16	1110 1112	S3x5.7	1010		
	Type SG with flanged main rollers and anti-lift rollers	332	50	Steel	4.4	-	-	S3x5.7	1010
		432	63	Steel	6.1	-	-	S4x7.7	1014
						-	-	S5x10.0	1018
						-	-	S6x12.5	1022
432	63	Steel	6.1	W4x13 W5x16	1110 1112	S3x5.7	1010		
								S4x7.7	1014
								S5x10.0	1018
								S6x12.5	1022

Note/design

- The running gear of the towing trolley must always be equipped with anti-lift rollers.
- The anti-lift rollers ø40 mm are made of steel.
- The horizontal guide rollers ø40 mm are made of steel.
- Other materials of the horizontal guide rollers, e.g. Polyurethane on request.
- The rollers are equipped with precision ball bearings and additional sealing disks (2RS1). The ball bearings are lifetime lubricated.
- Running gear for other I-beam types or beam sizes on request.

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Program 0350

with Main Rollers $\varnothing 80$ and 100 mm

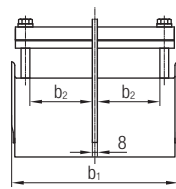
Single or Dual Layer Cable Trolleys for Flat Cables with a Load Capacity up to 350 kg (770 lbs)



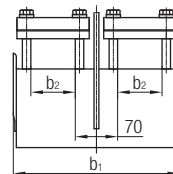
Technical details

Cable Supports	welded to the center plate, lateral-loading
Buffers	single-sided rectangular buffer
Max. Travel Speed ¹⁾	160 m/min (525 ft/min)
Max. Load Capacity ¹⁾	350 kg (770 lbs)
Cable Trolley Underpart and Running Gear	hot-dip galvanized steel
Fasteners	stainless steel
Temperature Range ¹⁾	-30°C to + 80°C (- 22°F to + 176°F)

¹⁾ depending on roller size/ roller material



Clamping bar
version 1
(continuous)



Clamping bar
version 2
(divided)

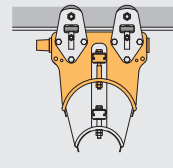
Ordering Example

Part No.

0352214-52 32 - 613 - 1018

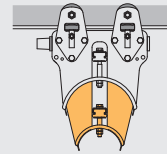
A cable trolley underpart with the following dimensions shall be used:

- Support diameter: $d_a = 250$ mm
- Clamping width: $b_2 = 105$ mm;
- Clamping height: $s = 65$ mm
- Part No.: 0352214-52 (chosen from catalog page 10)



An additional support

with a diameter of d_{a2} 160 mm shall be used.
The width b_1 of the additional supports must always be chosen identical with the upper support
Part No. 32 (chosen from catalog page 11)

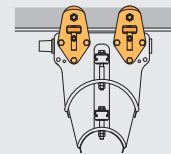


The following running gear has been chosen:

Type HF, cylindrical main rollers $\varnothing 100$ mm made of steel

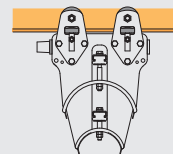
- with horizontal guide rollers made of steel
- without anti-lift rollers

Part No. 613 (chosen from catalog page 12)



The following track beam has been chosen:

- S5x10.0
- I-beam code: 1018 (chosen from catalog page 12)



The Part No. of the appropriate towing trolley is
the running gear must always be equipped with anti-lift rollers:

0352314-5232-614-1018

The Part No. of the appropriate end clamp is:

0350114-5232

As an alternative to the towing trolley a towing clamp can be used.

The Part No. of the appropriate towing clamp is:

0350414-5232

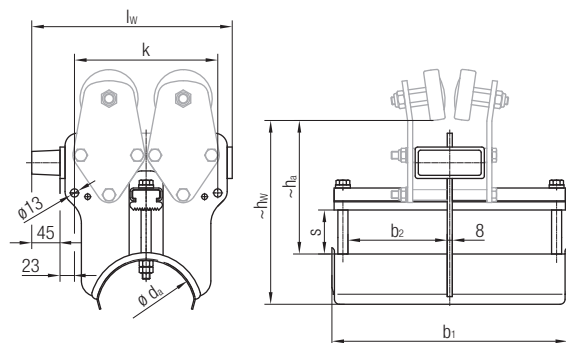
For calculation and selection please refer to our Engineering Guidelines for Festoon Systems KAT0300-0101

Optional: Independent removable side shields for easy roller replacement from roller size $\varnothing 80$ (3 in)
add -5 at the end of the complete Part No. e.g. 0352214-5232-613-1022-5

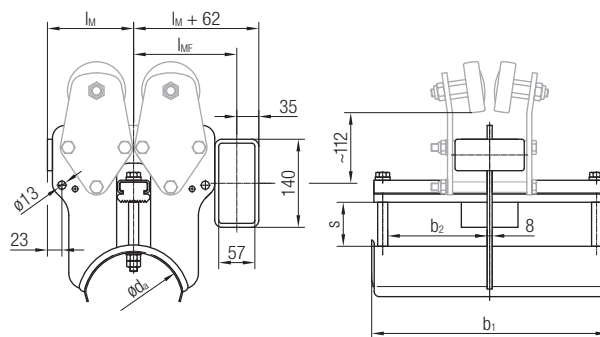
Program 0350

with Main Rollers $\varnothing 80$ and 100 mm

Selection of Cable Trolleys and Towing Trolleys



Cable trolley



Towing trolley

Cable Trolley Underpart ¹⁾		Towing Trolley Underpart ¹⁾		d _a	l _w	b ₁	b ₂	s	k	Clamping Bar Version	h _a	h _w	l _M	l _{MF}
Part No.	[kg]	Part No.	[kg]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]
0352215-30	5.2	0352315-30	6.6	160	320	215	72	70	228	1	215	295	137	164
0352215-32	5.7	0352315-32	7.0			280	105			1				
0352215-34	6.4	0352315-34	7.7			375	152			1				
0352213-40	5.2	0352313-40	6.8	200	320	215	72	52	228	1	195	295	137	164
0352213-42	5.7	0352313-42	7.2			280	105			1				
0352223-43	6.7	0352323-43	8.0			375	125			2				
0352213-44	6.4	0352313-44	7.8			375	152			1				
0352216-42	7.3	0352316-42	7.9			280	105			1				
0352226-43	8.3	0352326-43	9.4			375	125			2				
0352216-44	8.0	0352316-44	9.1			375	152			1				
0352214-50	6.6	0352314-50	8.1	250	400	215	72	65	308	1	190	315	177	204
0352214-52	7.1	0352314-52	8.4			280	105			1				
0352224-53	8.1	0352324-53	9.4			375	125			2				
0352214-54	8.1	0352314-54	9.2			375	152			1				

1) without running gear

Notes

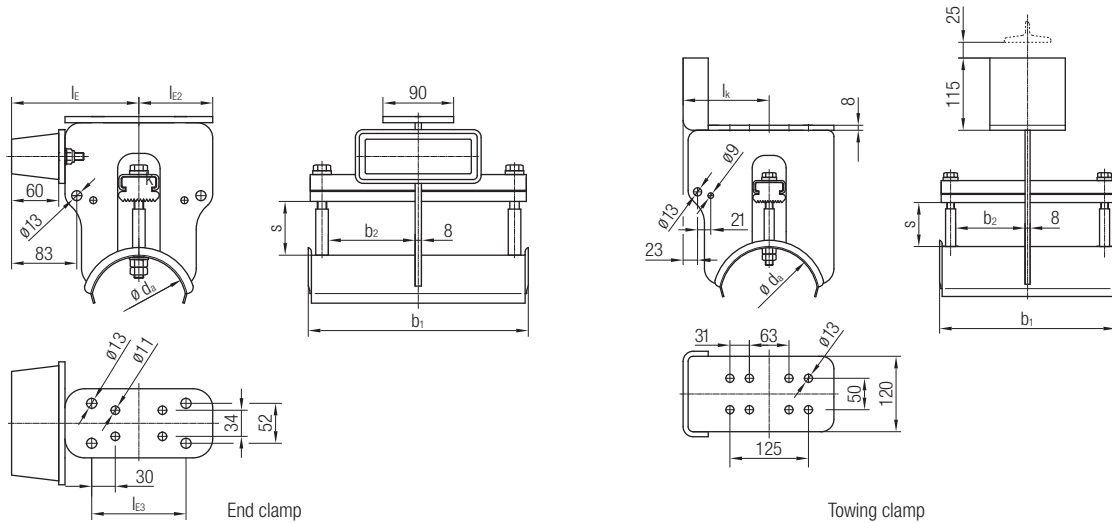
- The table only refers to the cable trolley or towing trolley underpart, the running gear must be selected and added.
See page 12 of this catalog.
- The system components can be equipped with one or two additional supports.
See page 11 of this catalog.

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Program 0350

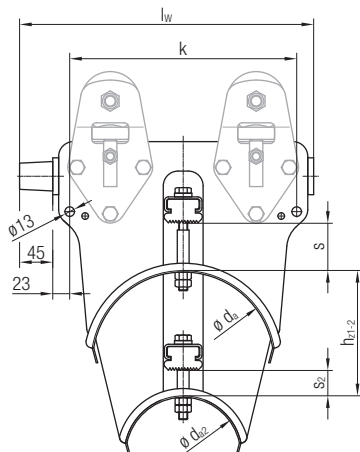
with Main Rollers $\varnothing 80$ and 100 mm

Selection of End Clamps and Towing Clamps



End Clamp Complete		Towing Clamp Complete		d_a	l_E	l_{E2}	l_{E3}	b_1	b_2	s	Clamping Bar Version	l_k
Part No.	[kg]	Part No.	[kg]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
0350115-30	7.1	0350415-30	7.3	160	197	103	160	215	72	70	1	137
0350115-32	7.5	0350415-32	7.8					280	105		1	
0350115-34	8.4	0350415-34	8.5					375	152		1	
0350113-40	7.2	0350413-40	7.5	200	197	103	160	215	72	52	1	137
0350113-42	7.6	0350413-42	8.0					280	105		1	
0350123-43	8.5	0350423-43	8.8					375	125		2	
0350113-44	8.3	0350413-44	8.6	200	197	103	160	375	152	90	1	177
0350116-42	8.4	0350416-42	9.1					280	105		1	
0350126-43	10.1	0350426-43	10.6					375	125		2	
0350116-44	9.8	0350416-44	10.3	250	237	130	230	375	152	65	1	
0350114-50	8.6	0350414-50	8.8					215	72		1	
0350114-52	8.8	0350414-52	9.7					280	105		1	
0350124-53	10.2	0350424-53	8.9					375	125		2	
0350114-54	10.0	0350414-54	8.7					375	152		1	

Additional Supports



Additional Support Order No.	[kg]	d_a	d_{a2}	b_1	b_2	s_2	Clamping Bar Version	h_{Z1-2}
		[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	2.8	200	125	215	72	35	1	170
22	3.2			280	105		1	
23	3.8			375	125		2	
24	3.7	250	160	375	152	35	1	170
30	3.0			215	72		1	
32	3.4			280	105		1	
33	4.2			375	125		2	
34	4.1			375	152		1	

The support width as well as the clamping bar design of the additional support must correspond to the upper support of the cable trolley.

Program 0350

with Main Rollers ø80 and 100 mm

Selection of Running Gear

Running Gear		Order No.	Main Roller ød [mm]	Main Roller Material Bandage	Weight approx. [kg]	Parallel Flange	Preference Range I-beams		
							I-beam Code	Tapered Flange	I-beam Code
	Type H with cylindrical main rollers	511	80	Steel	8.3	-	-	S4x7.7	1014
		551	80	Polyurethane	7.7			S5x10.0	1018
		611	100	Steel	12.3	W4x13	1110	S4x7.7	1014
		651	100	Polyurethane	11.8			S5x10.0 S6x12.5	1018 1022
	Type HG with cylindrical main rollers and anti-lift rollers	512	80	Steel	9.5	-	-	S4x7.7	1014
		552	80	Polyurethane	8.1			S5x10.0	1018
		612	100	Steel	13.8	W4x13	1110	S4x7.7	1014
		652	100	Polyurethane	13.3			S5x10.0 S6x12.5	1018 1022
	Type HF with cylindrical main rollers and horizontal guide rollers	513	80	Steel	9.7	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5	1018 1022
		557	80	Polyurethane	8.3			S7x15.3 S8x18.4	1026 1030
		613	100	Steel	13.3	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5	1018 1022
		657	100	Polyurethane	12.8			S7x15.3 S8x18.4	1026 1030
	Type HFG with cylindrical main rollers, horizontal guide rollers and anti-lift rollers	514	80	Steel	9.8	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5	1018 1022
		558	80	Polyurethane	9.3			S7x15.3 S8x18.4	1026 1030
		614	100	Steel	14.3	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5	1018 1022
		658	100	Polyurethane	13.8			S7x15.3 S8x18.4	1026 1030
	Type S with flanged main rollers	531	80	Steel	9.9	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030
		631	100	Steel	16.0	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030
	Type SG with flanged main rollers and anti-lift rollers	532	80	Steel	11.3	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	0014 0016 0018 0020
		632	100	Steel	17.3	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030

Note/design

- The running gear of the towing trolley must always be equipped with anti-lift rollers.
- Main roller ø80 mm: anti-lift rollers ø50 mm and horizontal guide rollers ø50 mm made of steel
- Main roller ø100 mm: anti-lift rollers ø50 mm and horizontal guide rollers ø63 mm made of steel
- Other materials of the horizontal guide rollers, e.g. Polyurethane on request.
- The rollers are equipped with precision ball bearings and additional sealing disks (2RS1).
The ball bearings are lifetime lubricated.
- Running gear for other I-beam types or beam sizes on request.

Optional:

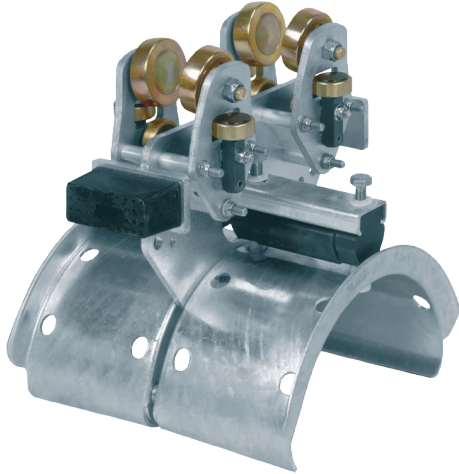
Independent removable side shields for easy roller replacement from roller size ø80 (3 in)
add -5 at the end of the complete Part No. e.g. 0352214-5232-613-1022-5

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Program 0360

with Main Rollers $\varnothing 50$ and 63 mm

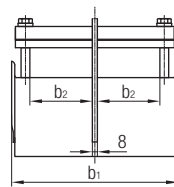
Single or Dual Layer Cable Trolleys for Round Cables with a Load Capacity up to 125 kg (275 lbs)



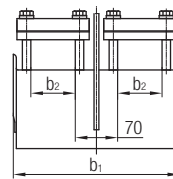
Technical details

Cable Supports	bolted to the center plate, lateral-loading
Buffers	single-sided rectangular buffer
Max. Travel Speed ¹⁾	160 m/min (525 ft/min)
Max. Load Capacity ¹⁾	125 kg (275 lbs)
Cable Trolley Underpart and Running Gear	hot-dip galvanized steel
Fasteners	stainless steel
Temperature Range ¹⁾	-30°C to + 80°C (-22°F to +176°F)

¹⁾ depending on roller size/ roller material



Clamping bar
version 1
(continuous)



Clamping bar
version 2
(divided)

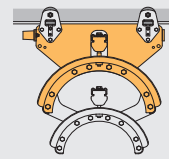
Ordering Example

Part No.

036022-86 66 - 414 - 1018

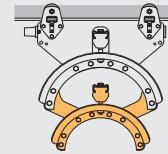
A cable trolley underpart with the following dimensions shall be used:

- Support diameter: $d_a = 360$ mm
- Clamping width: $b_2 = 200$ mm;
- Clamping height: $s = 36$ mm
- Part No.: 036022-86 (chosen from catalog page 14)



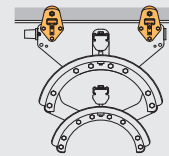
An additional support

with a diameter d_{a2} 260 mm shall be used.
The width b_1 of the additional supports must always be chosen identical with the upper support
Part No. 66 (chosen from catalog page 15)



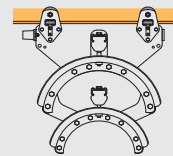
The following running gear has been chosen:

- Type HFG, cylindrical main rollers $\varnothing 63$ mm, made of steel
- with horizontal guide rollers made of steel
- with anti-lift rollers made of steel
- Part No. 414 (chosen from catalog page 16)



The following track beam has been chosen:

- S5x10.0
- I-beam code: 1018 (chosen from catalog page 16)



The Part No. of the appropriate towing trolley is
the running gear must always be equipped with anti-lift rollers:

036032-8666-414-1018

The Part No. of the appropriate end clamp is:

036012-8666

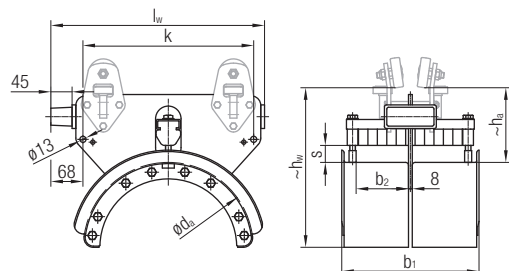
As an alternative to the towing trolley a towing clamp can be used.
The Part No. of the appropriate towing clamp is:

036042-8666

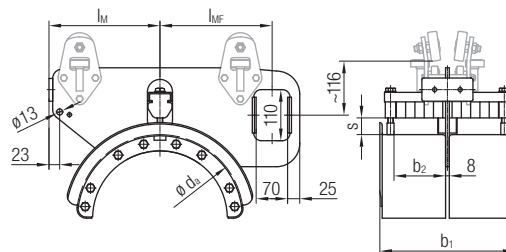
Program 0360

with Main Rollers $\varnothing 50$ and 63 mm

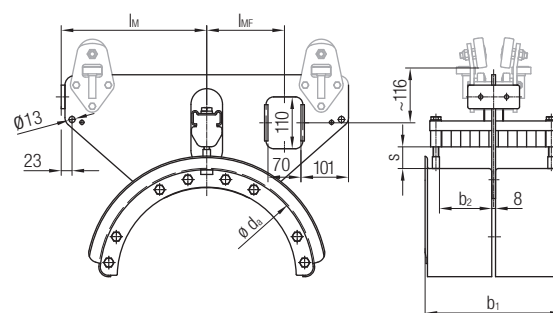
Selection of Cable Trolleys and Towing Trolleys



Cable trolley



Towing trolley d_a 260 mm and 360 mm



Towing trolley d_a 460 mm

Cable Trolley Underpart ¹⁾		Towing Trolley Underpart ¹⁾		d_a	l_w	b_1	b_2	s	k	Clamping Bar Version	h_a	h_w	l_M	l_{MF}
Part No.	[kg]	Part No.	[kg]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]
036021-62	8.2	036031-62	11.5	260	334	291	110	26	242	1	150	276	170	172
036021-64	9.4	036031-64	14.2			384	155			1				
036022-66	12.2	036032-66	15.8			532	200			2				
036022-68	13.4	036032-68	17.1			632	250			2				
036021-82	10.6	036031-82	17.0	360	454	291	110	36	362	1	160	336	239	241
036021-84	12.0	036031-84	18.6			384	155			1				
036022-86	15.7	036032-86	22.6			532	200			2				
036022-88	17.3	036032-88	24.3			632	250			2				
036021-92	13.7	036031-92	23.2	460	574	291	110	46	482	1	180	410	309	165
036021-94	15.7	036031-94	25.0			384	155			1				
036022-96	20.5	036032-96	30.4			532	200			2				
036022-98	21.1	036032-98	31.9			632	250			2				

1) without running gear

Notes

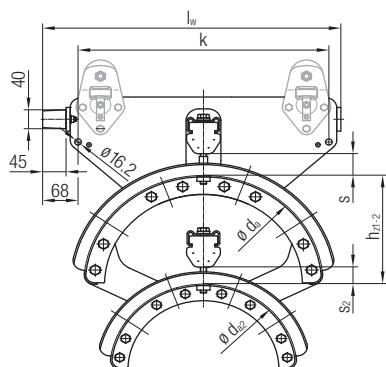
- The table only refers to the cable trolley or towing trolley underpart, the running gear must be selected and added.
See page 16 of this catalog.
- The system components can be equipped with an additional support.
See page 15 of this catalog.

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Selection of End Clamps and Towing Clamps



Additional Supports

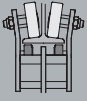
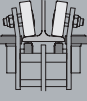
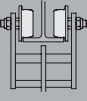
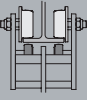


The support width as well as the clamping bar design of the additional support must correspond to the upper support of the cable trolley.

Program 0360

with Main Rollers ø50 and 63 mm

Selection of Running Gear

Running Gear		Order No.	Main Roller ød [mm]	Main Roller Material Binding	Weight approx. [kg]	Parallel Flange	Preference Range I-beams		
							I-beam Code	Tapered Flange	I-beam Code
	Type H with cylindrical main rollers	311	50	Steel	3.8	-	-	S3x5.7	1010
		351	50	Polyurethane	3.5			S4x7.7	1014
		411	63	Steel	5.1	-	-	S3x5.7	1010
		451	63	Polyurethane	4.7	-	-	S4x7.7	1014
	Type HG with cylindrical main rollers and anti-lift rollers	312	50	Steel	4.3	-	-	S3x5.7	1010
		352	50	Polyurethane	4.1			S3x5.7	1010
		412	63	Steel	5.6	-	-	S3x5.7	1010
		452	63	Polyurethane	4.9	-	-	S4x7.7	1014
	Type HF with cylindrical main rollers and horizontal guide rollers	313	50	Steel	4.0	W4x13	1110	S3x5.7	1010
		357	50	Polyurethane	3.8			S4x7.7	1014
		413	63	Steel	5.1	W4x13 W5x16	1110 1112	S5x10.0	1018
		457	63	Polyurethane	4.4			S6x12.5	1022
	Type HFG with cylindrical main rollers, horizontal guide rollers and anti-lift rollers	314	50	Steel	4.5	W4x13	1110	S3x5.7	1010
		358	50	Polyurethane	4.0			S4x7.7	1014
		414	63	Steel	5.6	W4x13 W5x16	1110 1112	S5x10.0	1018
		458	63	Polyurethane	4.9			S6x12.5	1022
	Type S with flanged main rollers	331	50	Steel	4.2	W4x13	1110	S3x5.7	1010
		431	63	Steel	5.5	W4x13 W5x16	1110 1112	S4x7.7	1014
	Type SG with flanged main rollers and anti-lift rollers	332	50	Steel	4.4	W4x13	1110	S5x10.0	1018
		432	63	Steel	6.1	W4x13 W5x16	1110 1112	S6x12.5	1022

Note/design

- The running gear of the towing trolley must always be equipped with anti-lift rollers.
- The anti-lift rollers ø40 mm are made of steel.
- The horizontal guide rollers ø40 mm are made of steel.
- Other materials of the horizontal guide rollers, e.g. Polyurethane on request.
- The rollers are equipped with precision ball bearings and additional sealing disks (2RS1). The ball bearings are lifetime lubricated.
- Running gear for other I-beam types or beam sizes on request.

Conversion: 1 mm ± 0.04 in | 1 kg ± 2.20 lbs

Program 0360

with Main Rollers $\varnothing 80, 100, 112$ and 125 mm

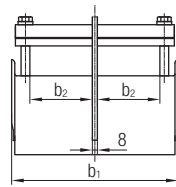
Single, Dual or Tripple Layer Cable Trolleys for Round Cables with a Load Capacity up to 500 kg (1100 lbs)



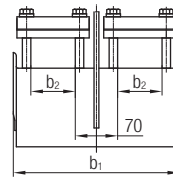
Technical details

Cable Supports	bolted to the center plate, lateral-loading
Buffers	single-sided round buffer
Max. Travel Speed ¹⁾	160 m/min (525 ft/min)
Max. Load Capacity ¹⁾	500 kg (1100 lbs)
Cable Trolley Underpart and Running Gear	hot-dip galvanized steel
Fasteners	stainless steel
Temperature Range ¹⁾	-30°C to + 80°C (-22°F to +176°F)

¹⁾ depending on roller size/ roller material



Clamping bar
version 1
(continuous)



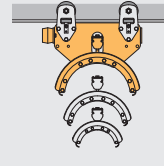
Clamping bar
version 2
(divided)

Ordering Example

Part No. 036222-96 8666 - 658 - 1022

A cable trolley underpart with the following dimensions shall be used:

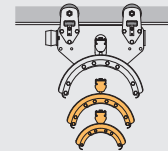
- Support diameter: $d_s = 460$ mm
- Clamping width: $b_2 = 200$ mm;
- Clamping height: $s = 46$ mm
- Part No.: 036222-96 (chosen from catalog page 18)



Two additional supports

with a diameter d_{a2} 360 mm and d_{a3} 260 mm shall be used.
The width b_1 of the additional supports must always be chosen identical with the upper support

Part No. 8666 (chosen from catalog page 19)

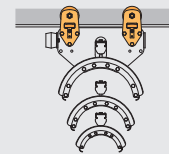


The following running gear has been chosen:

Type HFG, cylindrical main rollers $\varnothing 100$ mm with Polyurethane bandage

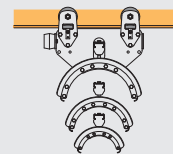
- with horizontal guide rollers made of steel
- with anti-lift rollers made of steel

Part No. 658 (chosen from catalog page 20)



The following track beam has been chosen:

- S6x12.5
- I-beam code: 1022 (chosen from catalog page 20)



The Part No. of the appropriate towing trolley is
the running gear must always be equipped with anti-lift rollers:

036232-968666-658-1022

The Part No. of the appropriate end clamp is:

036212-968666

As an alternative to the towing trolley a towing clamp can be used.

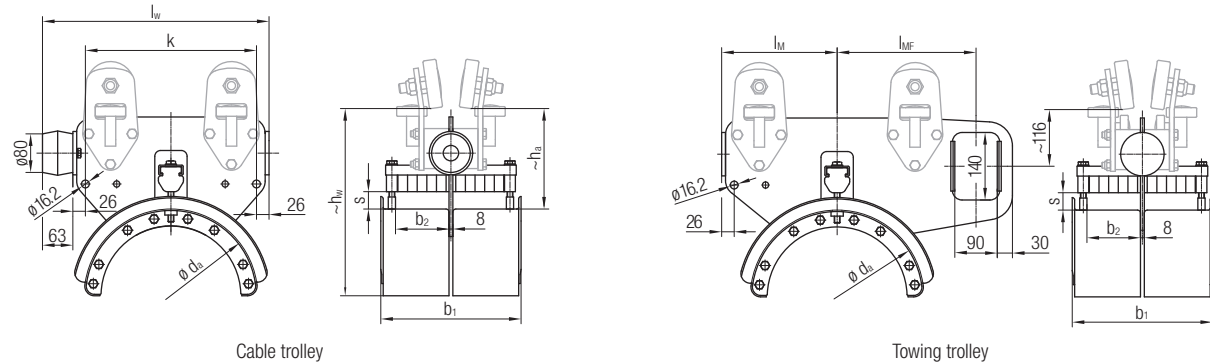
The Part No. of the appropriate towing clamp is:

036042-968666

Program 0360

with Main Rollers $\varnothing 80, 100, 112$ and 125 mm

Selection of Cable Trolleys and Towing Trolleys



Cable Trolley Underpart ¹⁾ Part No.	[kg]	Towing Trolley Underpart ¹⁾ Part No.	[kg]	d _a	l _w	b ₁	b ₂	s	k	Clamping Bar Version	h _a	h _w	l _M	l _{MF}
036221-62	10.8	036231-62	11.4	260	350	291	110	26	235	1	200	326	170	218
036221-64	12.6	036231-64	13.2			384	155			1				
036222-66	15.2	036232-66	15.6			532	200			2				
036222-68	16.3	036232-68	16.9			632	250			2				
036222-69	18.7	036232-69	17.8			772	320			2				
036221-82	14.9	036231-82	19.0	360	470	291	110	36	355	1	210	388	239	288
036221-84	17.2	036231-84	19.6			384	155			1				
036222-86	22.0	036232-86	23.9			532	200			2				
036222-88	23.9	036232-88	25.8			632	250			2				
036222-89	26.8	036232-89	28.7			772	320			2				
036221-92	21.6	036231-92	23.9	460	590	291	110	46	475	1	220	448	310	358
036221-94	23.3	036231-94	25.7			384	155			1				
036222-96	28.8	036232-96	31.1			532	200			2				
036222-98	30.9	036232-98	33.2			632	250			2				
036222-99	34.2	036232-99	36.5			772	320			2				

1) without running gear

Notes

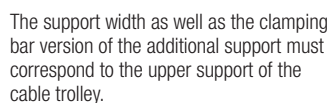
- The table only refers to the cable trolley or towing trolley underpart, the running gear must be selected and added.
See page 20 of this catalog.
- The system components can be equipped with one or two additional supports.
See page 19 of this catalog.

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Selection of End Clamps and Towing Clamps



Additional Supports

19

Program 0360

with Main Rollers ø80 and 100 mm

Selection of Running Gear

Running Gear		Order No.	Main Roller ød [mm]	Main Roller Material Bandage	Weight approx. [kg]	Parallel Flange	Preference Range I-beams		
							I-beam Code	Tapered Flange	I-beam Code
	Type H with cylindrical main rollers	511	80	Steel	8.3	W4x13	1110	S4x7.7	1014
		551	80	Polyurethane	7.7			S5x10.0	1018
		611	100	Steel	12.3	W4x13	1110	S4x7.7	1014
		651	100	Polyurethane	11.8			S5x10.0 S6x12.5	1018 1022
	Type HG with cylindrical main rollers and anti-lift rollers	512	80	Steel	9.5	-	-	S4x7.7	1014
		552	80	Polyurethane	8.1			S5x10.0	1018
		612	100	Steel	13.8	W4x13	1110	S4x7.7	1014
		652	100	Polyurethane	13.3			S5x10.0 S6x12.5	1018 1022
	Type HF with cylindrical main rollers and horizontal guide rollers	513	80	Steel	9.7	W4x13 W5x16	1110 1112	S4x7.7	1014
		557	80	Polyurethane	8.3			S5x10.0 S6x12.5 S7x15.3	1018 1022 1026
		613	100	Steel	13.3	W4x13 W5x16	1110 1112	S5x10.0	1018
		657	100	Polyurethane	12.8			S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
	Type HFG with cylindrical main rollers, horizontal guide rollers and anti-lift rollers	514	80	Steel	9.8	W4x13 W5x16	1110 1112	S4x7.7	1014
		558	80	Polyurethane	9.3			S5x10.0 S6x12.5 S7x15.3	1018 1022 1026
		614	100	Steel	14.3	W4x13 W5x16	1110 1112	S5x10.0	1018
		658	100	Polyurethane	13.8			S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
	Type S with flanged main rollers	531	80	Steel	9.9	W4x13 W5x16	1110 1112	S4x7.7 S5x10.0 S6x12.5 S7x15.3	1014 1018 1022 1026
		631	100	Steel	16.0	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030
	Type SG with flanged main rollers and anti-lift rollers	532	80	Steel	11.3	W4x13 W5x16	1110 1112	S4x7.7 S5x10.0 S6x12.5 S7x15.3	1014 1018 1022 1026
		632	100	Steel	17.3	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030

Note/design

- Main roller ø80 mm: anti-lift rollers ø50 mm and horizontal guide rollers ø50 mm made of steel.
- Main roller ø100 mm: anti-lift rollers ø50 mm and horizontal guide rollers ø63 mm made of steel.
- Other materials of the horizontal guide rollers, e.g. Polyurethane on request.
- The rollers are equipped with precision ball bearings and additional sealing disks (2RS1). The ball bearings are lifetime lubricated.
- Running gear for other I-beam types or beam sizes on request.

Optional:

Independent removable side shields for easy roller replacement from roller size ø80 (3 in)
add -5 at the end of the complete Part No. e.g. 036222-968666-6481022-5

Conversion: 1 mm ± 0.04 in | 1 kg ± 2.20 lbs

Program 0360

with Main Rollers ø 112 and 125 mm

Selection of Running Gear

Running Gear		Order No.	Main Roller d [mm]	Main Roller Material Bandage	Weight approx. [kg]	Parallel Flange	Preference Range I-beams		
							I-beam Code	Tapered Flange	I-beam Code
	Type H with cylindrical main rollers	751	112	Polyurethane	14.4	- - -	- - -	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		811	125	Steel	21.0	- - -	- - -	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		851	125	Polyurethane	18.2	- - -	- - -	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
	Type HG with cylindrical main rollers and anti-lift rollers	752	112	Polyurethane	15.4	- - -	- - -	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		812	125	Steel	22.0	- - -	- - -	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		852	125	Polyurethane	19.2	- - -	- - -	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
	Type HF with cylindrical main rollers and horizontal guide rollers	757	112	Polyurethane	14.4	W4x13 W5x16	1110 1112	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		813	125	Steel	23.0	W4x13 W5x16	1110 1112	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		857	125	Polyurethane	18.7	W4x13 W5x16	1110 1112	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
	Type HFG with cylindrical main rollers, horizontal guide rollers and anti-lift rollers	758	112	Polyurethane	15.4	W4x13 W5x16	1110 1112	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		814	125	Steel	25.2	W4x13 W5x16	1110 1112	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030
		858	125	Polyurethane	18.7	W4x13 W5x16	1110 1112	S6x12.5 S7x15.3 S8x18.4	1022 1026 1030

Note/design

- The running gear of the towing trolley must always be equipped with anti-lift rollers.
- Main roller ø 112 mm: anti-lift rollers ø 50 mm and horizontal guide rollers ø 63 mm made of steel
- Main roller ø 125 mm: anti-lift rollers ø 63 mm and horizontal guide rollers ø 80 mm made of steel
- Other materials of the horizontal guide rollers, e.g. Polyurethane on request.
- The rollers are equipped with precision ball bearings and additional sealing disks (2RS1). The ball bearings are lifetime lubricated.
- Running gear for other I-beam types or beam sizes on request.

Optional:

Independent removable side shields for easy roller replacement from roller size ø 80 (3 in)
add -5 at the end of the complete Part No. e.g. 036222-968666-748-1030-5

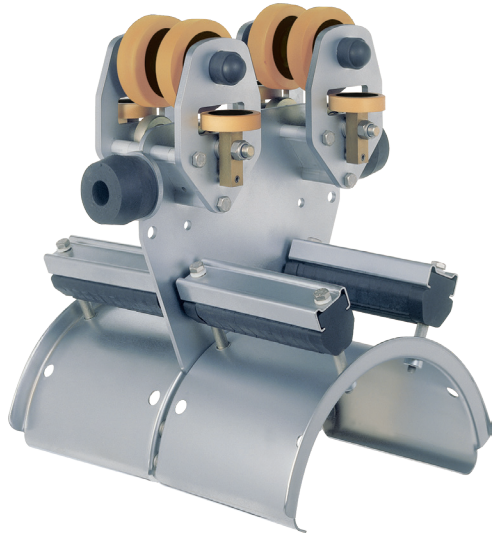
Conversion: 1 mm ± 0.04 in | 1 kg ± 2.20 lbs



Program 0364

with Main Rollers $\varnothing 100$ and 112 mm

Single Layer Cable Trolley with Round Cables with a Load Capacity up to 125 kg (275 lbs)

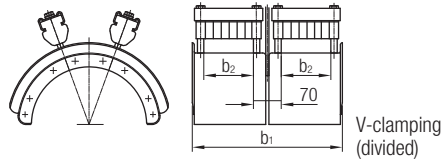


For STS container cranes with rope-driven main trolley and catenary trolley. A connection between catenary trolley and festoon system by an additional towing trolley is required.

Technical details

Cable Supports	bolted to the center plate, lateral-loading and reinforced
Buffers	double-sided round buffer
Max. Travel Speed ¹⁾	180 m/min (600 ft/min)
Max. Load Capacity ¹⁾	125 kg (275 lbs)
Cable Trolley Underpart and Running Gear	hot-dip galvanized steel
Fasteners	stainless steel
Temperature Range	-30°C to + 50°C (-22°F to + 122°F)

¹⁾ depending on roller size/ roller material

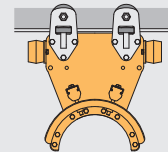


Ordering Example

Part No. 036423-83 - 758 - 1018

A cable trolley underpart with the following dimensions shall be used:

- Support diameter: $d_s = 360$ mm
- Clamping width: $b_2 = 125$ mm;
- Clamping height: $s = 36$ mm
- Part No.: 036423-83 (chosen from catalog page 24)

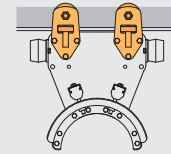


The following running gear has been chosen:

Type HFG, cylindrical main rollers $\varnothing 112$ mm with Polyurethane bandage

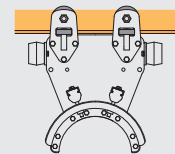
- with horizontal guide rollers made of steel
- with anti-lift rollers made of steel

Part No. 758 (chosen from catalog page 25)



The following track beam has been chosen:

- S5x 10.0
- I-beam code: 1018 (chosen from catalog page 25)



The Part No. of the appropriate towing trolley is the running gear must always be equipped with anti-lift rollers:

036433-83-758-1018

The Part No. of the appropriate towing trolley for the connection to the catenary trolley is::

036453-83-758-1018

The Part No. of the appropriate end clamp is:

036413-83

As an alternative to the towing trolley a towing clamp can be used.

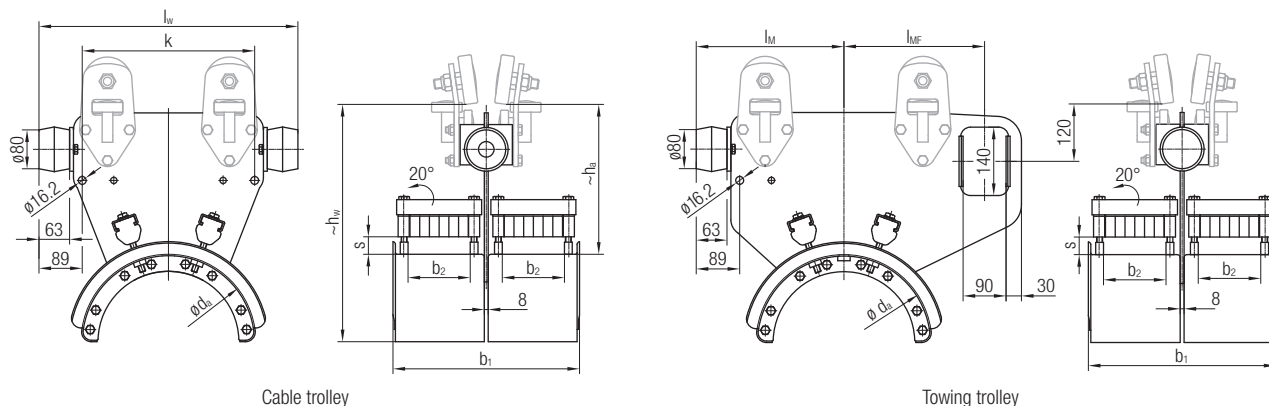
The Part No. of the appropriate towing clamp is:

036443-83

Program 0364

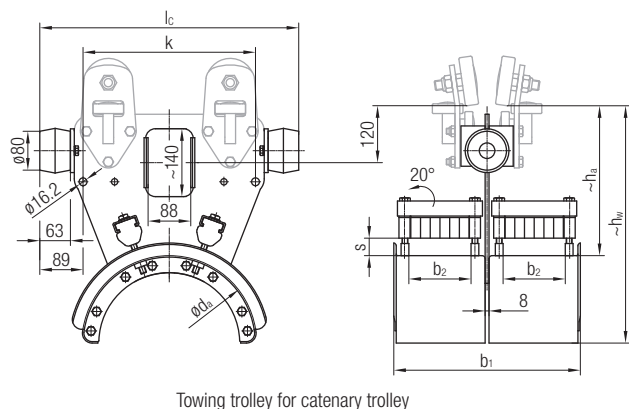
with Main Rollers $\varnothing 100$ and 112 mm

Selection of Cable Trolleys, Towing Trolleys and Towing Trolleys for Catenary Trolley



Cable Trolley Underpart ¹⁾ Part No.	[kg]	Towing Trolley Underpart ¹⁾ Part No.	[kg]	d _a [mm]	l _w [mm]	b ₁ [mm]	b ₂ [mm]	s [mm]	k [mm]	h _a [mm]	h _w [mm]	l _M [mm]	l _{MF} [mm]
036423-83	21	036433-83	25	360	533	384	125	36	355	302	500	302	288
036423-86	25	036433-86	29			532	200						
036423-88	29	036433-88	31			632	250						
036423-93	24	036433-93	26	460	653	384	125	46	475	310	450	372	358
036423-96	30	036433-96	31			532	200						
036423-98	45	036433-98	46			632	250						

1) without running gear



Towing Trolley Underpart for Catenary Trolley without Running Gear Part No.	[kg]	d _a [mm]	l _c [mm]	b ₁ [mm]	b ₂ [mm]	s [mm]	k [mm]	h _a [mm]	h _w [mm]
036453-83	21	360	533	384	125	36	355	320	500
036453-86	25			532	200				
036453-88	29			632	250				
036453-93	34	460	653	384	125	46	475	220	450
036453-96	38			532	200				
036453-98	46			632	250				

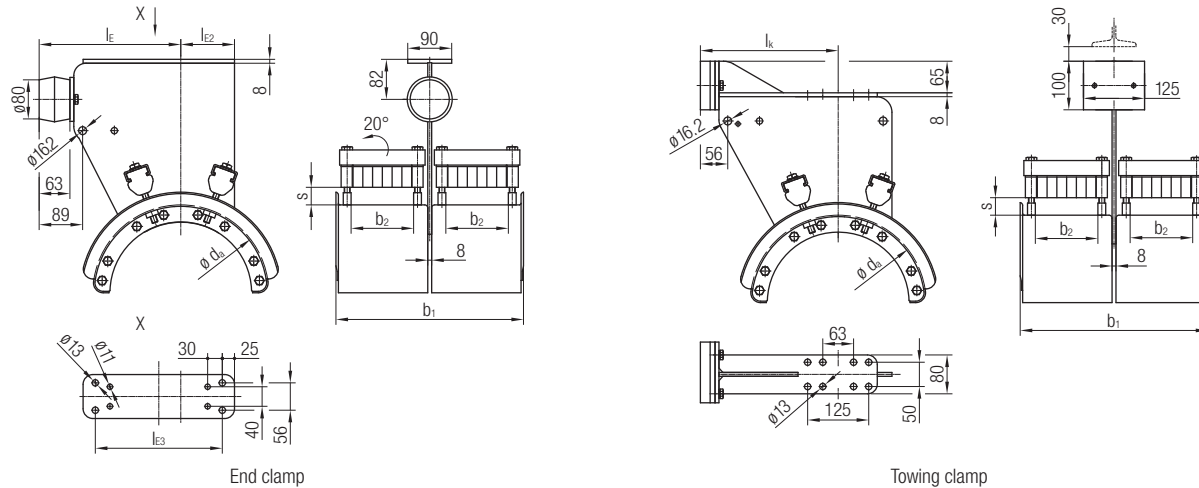
Note/design

- The table only refers to the cable trolley or towing trolley underpart, the running gear must be selected and added. See page 25 of this catalog.
- Additional supports are not available in this program.

Program 0364

with Main Rollers $\varnothing 100$ and 112 mm

Selection of End Clamps and Towing Clamps



End Clamp Complete Part No.	[kg]	Towing Clamp Complete Part No.	[kg]	d_a	l_E	l_{E2}	l_{E3}	b_1	b_2	s	l_k
036413-83	21.0	036443-83	21.0	360	290	146	260	384	125	36	282
036413-86	25.0	036443-86	25.0					532	200		
036413-88	36.0	036443-88	36.0					632	250		
036413-93	20.0	036443-93	22.0	460	361	208	350	384	125	46	352
036413-96	24.0	036443-96	25.0					532	200		
036413-98	44.5	036443-98	44.0					632	250		

Selection of Running Gear

Running Gear		Order No.	Main Roller $\varnothing d$ [mm]	Main Roller Material Bandage	Weight approx. [kg]	Parallel Flange	Preference Range I-beams		
	Type HFG with cylindrical main rollers, horizontal guide rollers and anti-lift rollers	658	100	Polyurethane	13.8	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030
		758	112	Polyurethane	15.4	W4x13 W5x16	1110 1112	S5x10.0 S6x12.5 S7x15.3 S8x18.4	1018 1022 1026 1030

Note/design

- Main roller $\varnothing 100$ mm: anti-lift rollers $\varnothing 50$ mm and horizontal guide rollers $\varnothing 63$ mm made of steel
- Main roller $\varnothing 112$ mm: anti-lift rollers $\varnothing 50$ mm and horizontal guide rollers $\varnothing 63$ mm made of steel
- Other materials of the horizontal guide rollers, e.g. Polyurethane on request.
- The rollers are equipped with precision ball bearings and additional sealing disks (2RS1). The ball bearings are lifetime lubricated.
- Running gear for other I-beam types or beam sizes on request.

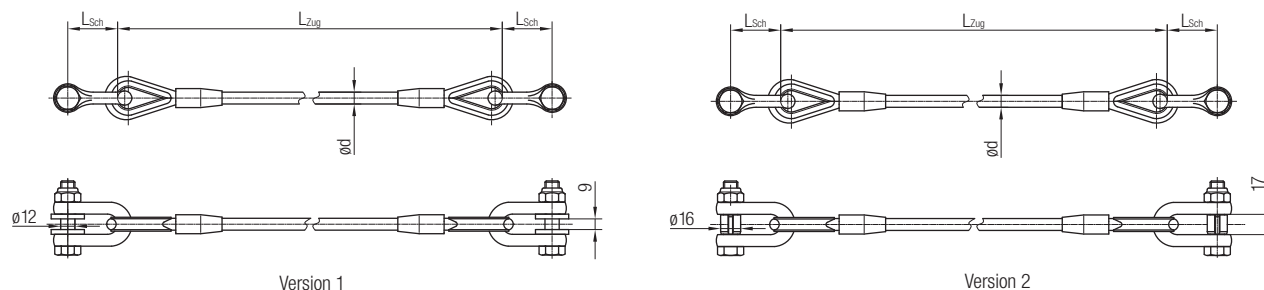
Optional:

Independent removable side shields for easy roller replacement from roller size $\varnothing 80$ (3 in)
add -5 at the end of the complete Part No. e.g. 036423-84-748-1030-5

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Accessories for Program 0350, 0360 and 0364

Towing Ropes

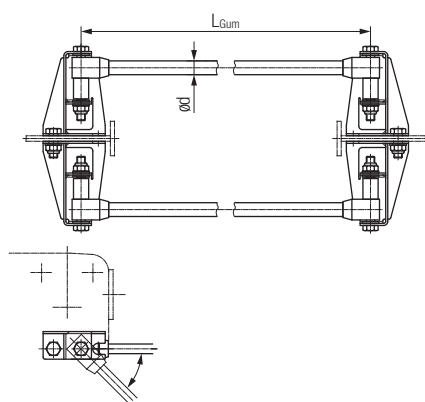


Part No.	ød [mm]	L _{Sch}	Material			Version	Program	for Main Rollers ød [mm]
			Rope	Shackle	Fasteners			
031962	10	42	Galvanized steel PVC-coated	Galvanized steel	Galvanized steel/ aluminum	1	0350	50, 63, 80, 100
031963						2	0360	50, 63
							0360	80, 100, 112, 125
							0364	100, 112
031965/1	8/10	48	Stainless Steel PVC-coated	Stainless Steel	Stainless Steel Aluminum - Seawater resistant	1	0350	50, 63, 80, 100
031965/2						2	0360	50, 63
							0360	80, 100, 112, 125
							0364	100, 112

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 Guidelines for Festoon Systems KAT0300-0101
- In case of order please state the lengths L_{Zug} of the respective towing ropes

Damping Devices



Technical details

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

Notes

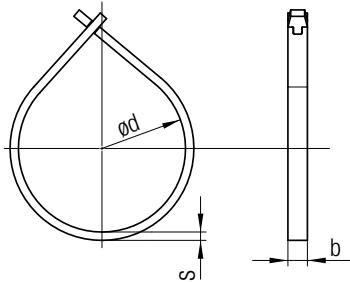
- We recommend the installation of damping devices for high speed and/or short cable loops
- For the calculation of the length please refer to our Engineering Guidelines
- In case of order please state the length of the respective shock cords
- Number and diameter are defined by weight load, cable loop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

Part No.	Number of Shock Cords	ød [mm]	Program	for Main Rollers ød [mm]
031966	2	14	0350	50, 63, 80, 100
031970-2	2	20	0350	50, 63, 80, 100
031966	2	14	0360	50, 63
031970-2	2	20	0360	50, 63
031976-2	2	20	0360, 0364	80, 100, 112, 125
031977-2	4	20	0360, 0364	80, 100, 112, 125
031978-2	6	20	0360, 0364	80, 100, 112, 125

Accessories

for Program 0350, 0360 and 0364

Cable Organizers for Cable Loops

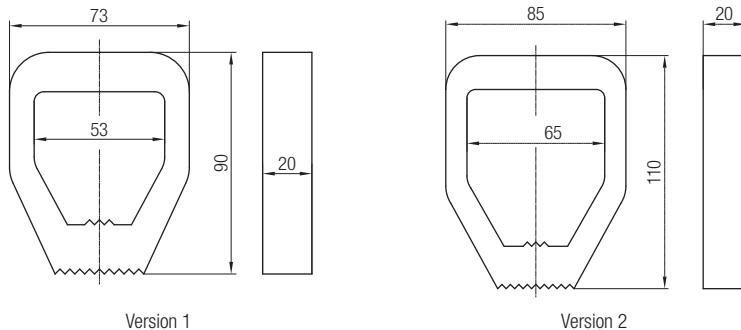


Part No.	$\varnothing d$ [mm]	b [mm]	s [mm]	Material	Fasteners	Weight [kg]
031942-0300x15	300	30	20	Rubber	-	0,59

Note

For cable loops > 4 m, the cable organizer in addition to the flat and round cable clamps prevents an expansion of the cables at the lower section of the cable loop.

Additional Clamping Pieces for Round Cable Clamps



Note

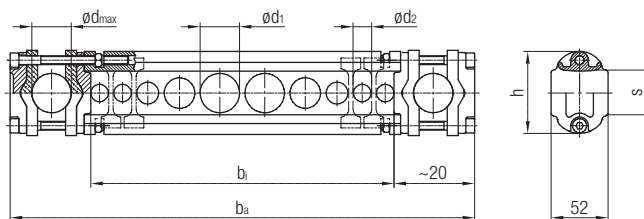
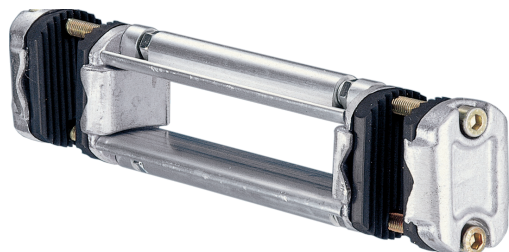
Differences in diameter between adjacent cables of more than 15 mm require additional clamping pieces for a tight clamping.

Part No.	For Systems with Main Roller Diameter $\varnothing d$ [mm]	Support diameter $\varnothing d_a$ [mm]	Version	Material	Weight [kg]
031899-053x020/514	50 and 63	260 and 360	1	Rubber	0,06
031899-065x020/514	80, 100, 112 and 125	360 and 460	2		0,08

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Accessories for Program 0360 and 0364

Round Cable Clamps



Technical details

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

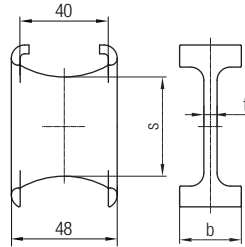
Part No.	$\varnothing d_{max}$ [mm]	b_1 [mm]	b_a [mm]	h [mm]	s [mm]	$\Sigma d^{1)}$ [mm]	Weight [kg]
031941-026x100/400	26	100	236	64	30	34	0.95
031941-026x150/400		150	286				1.07
031941-026x200/400		200	336				1.09
031941-026x250/400		250	386				1.31
031941-026x300/400		300	436				1.45
031941-026x350/400		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 $\varnothing d$ of the table, spacers are required to separate the cables.
See page 29.

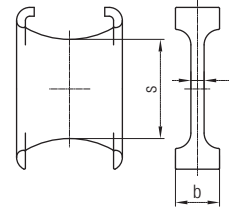
Accessories

for Program 0350, 0360 and 0364

Spacers



Broad version



Small version

Part No.	s [mm]	t [mm]	b [mm]	Appropriate Cable Clamp	Material	Version	Weight [kg]
031946-26	25	4	18	031941-026x...	Plastic	Small	0.010
031946-36	35	5	19	031941-036x...			0.015
031946-46	45	6	20	031941-046x...			0.025
031947-26	25	4	26	031941-026x...	Plastic	Broad	0.015
031947-36	35	5	27	031941-036x...			0.020
031947-46	45	6	28	031941-046x...			0.025

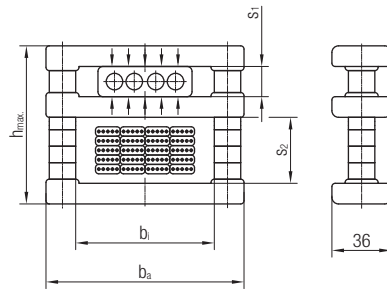
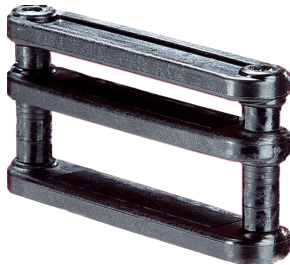
Notes

The above drawings are examples for illustration only.

Small version for cables with outer diameter smaller 14 mm and larger 22 mm.

Broad version for cables with outer diameter larger 14 mm and smaller 22 mm.

Flat Cable Clamps



Notes

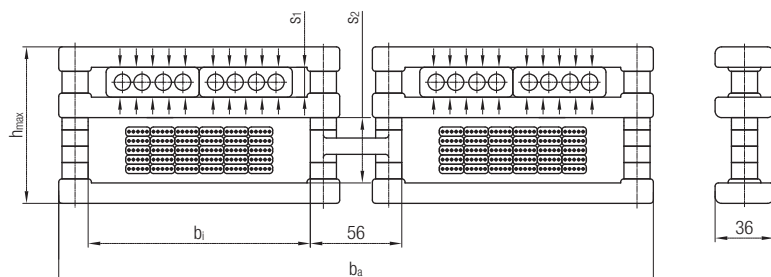
- By changing the distance tubes from window s_2 to window s_1 , the flat cable clamp can be adjusted to fit the cable package.
- The window with the dimension s_2 must be adjusted to an appropriate dimension, so that the cables can move with sufficient clearance (> 15 mm).

Part No.	b _i [mm]	b _a [mm]	S ₁ + S ₂ [mm]		S _{1min.} [mm]	h _{max.} [mm]	Weight [kg]
031953-084x045/400	84	120	45	+2.5	5	80	0.18
031953-084x055/400			55			90	0.19
031953-084x065/400			65			100	0.21
031953-084x075/400			75			110	0.22
031953-084x085/400			85			120	0.23
031953-136x045/400			136			172	45
031953-136x055/400	55	90		0.25			
031953-136x065/400	65	100		0.27			
031953-136x075/400	75	110		0.28			
031953-136x085/400	85	120		0.29			

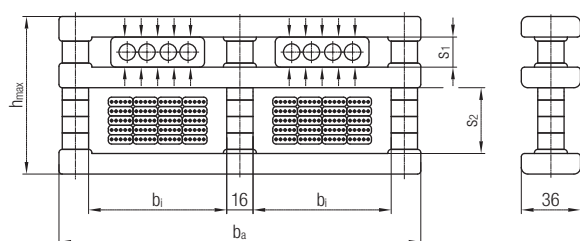
Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Accessories for Program 0350

Flat Cable Clamps



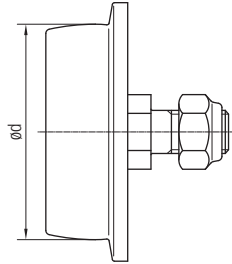
Part No.	b _i [mm]	b _a [mm]	S ₁ + S ₂ [mm]		S ₁ min. [mm]	h _{max} [mm]	Weight [kg]
031954-084x045/400	84	257	45	+2.5	5	80	0.42
031954-084x055/400			55			90	0.44
031954-084x065/400			65			100	0.46
031954-084x075/400			75			110	0.48
031954-084x085/400			85			120	0.52
031954-136x045/400	136	364	45	+2.5	5	80	0.53
031954-136x055/400			55			90	0.57
031954-136x065/400			65			100	0.60
031954-136x075/400			75			110	0.63
031954-103x085/400			85			120	0.66
031954-184x045/400	184	460	45	+2.5	5	80	0.85
031954-184x055/400			55			90	0.88
031954-184x065/400			65			100	0.91
031954-184x075/400			75			110	0.94
031954-184x085/400			85			120	0.97



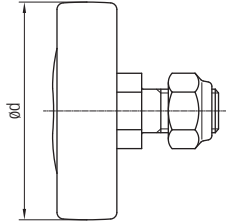
Part No.	b _i [mm]	b _a [mm]	S ₁ + S ₂ [mm]		S ₁ min. [mm]	h _{max} [mm]	Weight [kg]
031955-084x045/400	84	220	45	+2.5	5	80	0.43
031955-084x055/400			55			90	0.44
031955-084x065/400			65			100	0.46
031955-084x075/400			75			110	0.48
031955-084x085/400			85			120	0.49
031955-103x045/400	103	258	45	+2.5	5	80	0.46
031955-103x055/400			55			90	0.47
031955-103x065/400			65			100	0.49
031955-103x075/400			75			110	0.51
031955-103x085/400			85			120	0.52

Wear Parts for Program 0350, 0360 and 0364

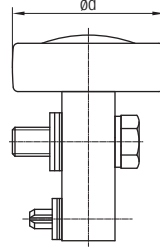
Replacement Rollers for Running Gear



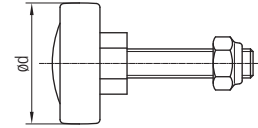
Flanged main roller



Main roller cylindrical



Horizontal guide roller



Anti-lift roller

Replacement Rollers for Running Gear Ø 50 mm and Ø 63 mm

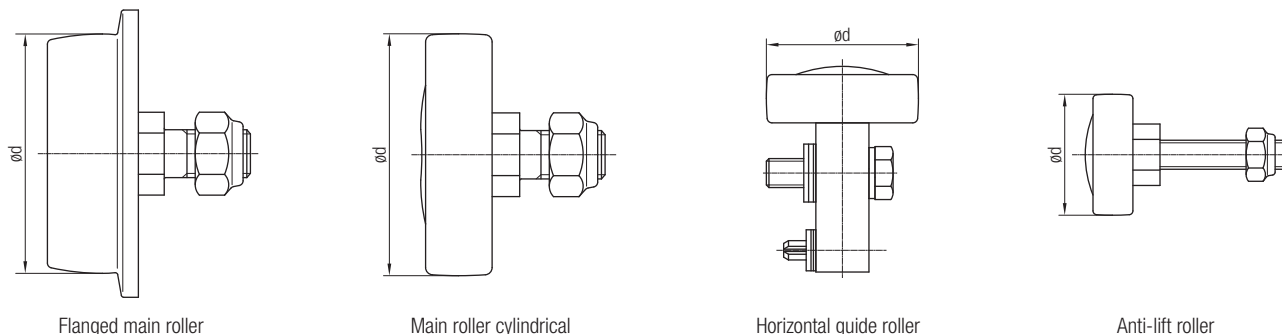
Running Gear Type		Order No.	Description	Rollers Ød [mm]	Material Bandage	Weight approx. [kg]	For I-beams	
							Parallel Flange	Tapered Flange
 H HG		030102-050.2	Main roller cylindrical	50	Steel	0.28	-	S3x5.7
		030113-050.3		50	Polyurethane	0.19	-	S4x5.7
		030102-063.1		63	Steel	0.30	-	S3x5.7 S4x5.7
		030113-063.1		63	Polyurethane	0.22		
		030108-040.1	Anti-lift roller	40	Steel	0.13		
 HF HFG		030102-050.3	Main roller cylindrical	50	Steel	0.27	W4x13 W5x16	S3x5.7- S6x12.5
		030113-050.2		50	Polyurethane	0.16		
		030102-063.3		63	Steel	0.48	W4x13 W5x16	S3x5.7- S6x12.5
		030113-063.2		63	Polyurethane	0.21		
		030105-040	Horizontal guide roller	40	Steel	0.21	W4x13 W5x16	S3x5.7- S6x12.5
		030108-040.2	Anti-lift roller	40	Steel	0.13		
 S SG		030101-050	Flanged main roller	50	Steel	0.42	W4x13 W5x16	S3x5.7- S6x12.5
		030101-063		63	Steel	0.74		
		030108-040.1	Anti-lift roller	40	Steel	0.13	W4x13 W5x16	S3x5.7- S6x12.5

Replacement Rollers for Running Gear Ø 80 mm and Ø 100 mm

Running Gear Type		Order No.	Description	Rollers Ød [mm]	Material Bandage	Weight approx. [kg]	For I-beams	
							Parallel Flange	Tapered Flange
 H HG		030102-080.1	Main roller cylindrical	80	Steel	0.65	-	S4x5.7 S5x10
		030113-080.1		80	Polyurethane	0.41		
		030102-100.1		100	Steel	1.13	-	S6x12.5
		030113-100.3		100	Polyurethane	0.68		
		030108-050.1	Anti-lift roller	50	Steel	0.31	-	S4x5.7- S6x12.5
 HF HFG		030102-080.2	Main roller cylindrical	80	Steel	0.64	W4x13 W5x16	S4x5.7- S7x15.3
		030113-080.2		80	Polyurethane	0.40		
		030105-050.1	Horizontal guide roller	50	Steel	0.36		
		030102-100.2	Main roller cylindrical	100	Steel	1.10	W4x13 W5x16	S5x10- S8x18.4
		030113-100.2		100	Polyurethane	0.62		
		030105-063.1	Horizontal guide roller	63	Steel	0.63	W4x13 W5x16	S4x5.7- S8x18.4
		030108-050.1	Anti-lift roller	50	Steel	0.31		
 S SG		030101-080	Flanged main roller	80	Steel	1.27	W4x13 W5x16	S4x5.7- S7x15.3
		030101-100		100	Steel	2.25		
		030108-050.1	Anti-lift roller	50	Steel	0.31	W4x13 W5x16	S4x5.7- S8x18.4

Wear Parts for Program 0350, 0360 and 0364

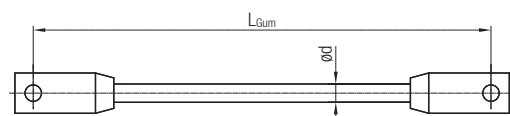
Replacement Rollers for Running Gear



Replacement Rollers for Running Gear ø 112 mm and ø 125 mm

Running Gear Type		Part No.	Rollers			Approx. Weight [kg]	For I-beams	
			Description	ød [mm]	Material Bandage		Parallel Flange	Tapered Flange
 H	 HG	030113-112.1	Main roller cylindrical	112	Polyurethane	1.00	-	S6x12.5
		030113-112.2						S7x15.3 S8x18.4
		030108-050.1	Anti-lift roller	50	Steel	0.27	-	S6x12.5- S8x18.4
		030102-125.1	Main roller cylindrical	125	Steel	3.00	-	S7x15.3 S8x18.4
		030113-125.1			Polyurethane	1.11		
		030108-063.1	Anti-lift roller	63	Steel	0.50		
 HF	 HFG	030113-112.2	Main roller cylindrical	112	Polyurethane	1.00	W4x13	S6x12.5- S8x18.4
		030105-063.1	Horizontal guide roller	63	Steel	0.63		
		030108-050.1	Anti-lift roller	50	Steel	0.50		
		030102-125.2	Main roller cylindrical	125	Steel	3.00	S7x15.3 S8x18.4	
		030113-125.2			Polyurethane	1.20		
		030105-080.1	Horizontal guide roller	80	Steel	0.82		
		030108-063.1	Anti-lift roller	63	Steel	0.50		

Shock Cords



Technical details

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

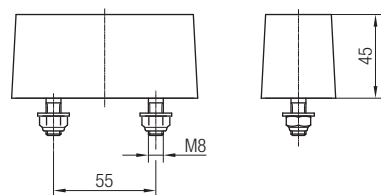
Note

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

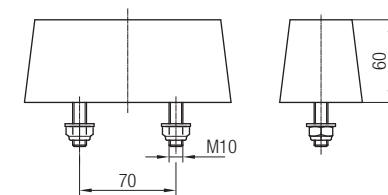
Part No.	ød [mm]	Weight [kg/m]
031987	14	0.2
031989-2	20	0.4

Wear Parts for Program 0350, 0360 and 0364

Rectangular Buffer



Rectangular buffer for cable trolleys



Rectangular buffer for end clamps

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

Part 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

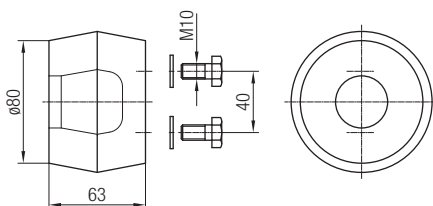
Program 0360, Main Rollers $\varnothing 50$ mm up to $\varnothing 63$ mm

Part 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



Part 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

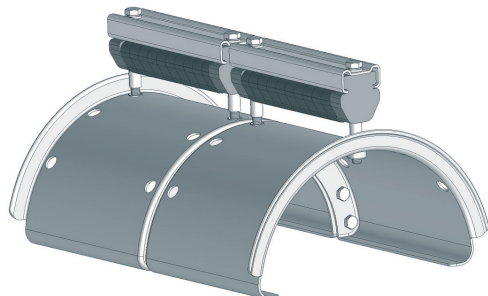
Notes

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

Conversion: 1 mm $\triangleq$ 0.04 in | 1 kg $\triangleq$ 2.20 lbs

Spare Parts for Program 0350, 0360 and 0364

Cable Supports including Clamping Bar

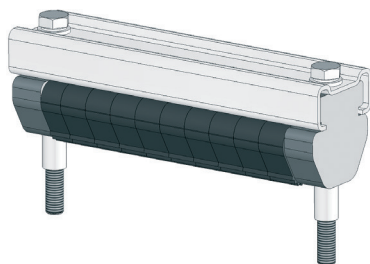


Part No.	for Main Rollers ø [mm]	Program
039002-	50/63	0360
039003-	80/100/112/125	0360
039004-	100/112	0364

Consisting of:

- 2 x cable support
- 2 x clamping bar
- Fasteners

Clamping Bars (Complete)

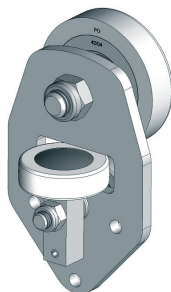


Part No.	Program	Cable type
039010-	0360	round
039012-	0350	flat

Consisting of:

- C-Rail
- Clamping rubber
- Fasteners

Side Shields (Complete)

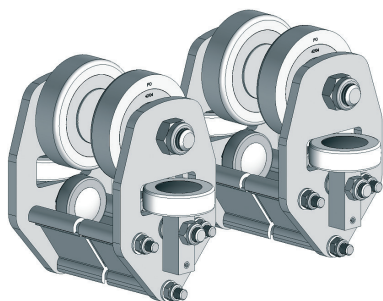


Part No.	Program	Running Gears Type	Main Roller Material Binding
039051-	0350/0360	S/SG	Steel
039052-	0350/0360	H/HG/HF/HFG	Steel
039055-	0350/0360	H/HG/HF/HFG	Polyurethane

Consisting of:

- Side shield
- Rollers assembled

Running Gears (Complete)



Consisting of:

- 4 x side shields (complete)
- Distance pieces
- Fasteners

Notes

- Spare parts are parts that are not subject to natural wear and are usually damaged by outside influence.
- In the case that a spare item is required, please provide the system component (e.g. cable trolley) for which the replacement part is required together with the item's designation.

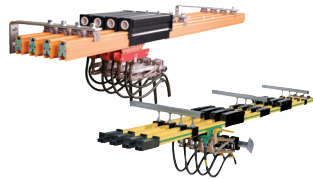
Your Applications – our Solutions

Festoon Systems from Conductix-Wampfler represent only one of the many solutions made possible by the broad spectrum of Conductix-Wampfler components for the transport of energy, data and fluid media. The solutions we deliver for your applications are based on your specific requirements. In many cases, a combination of several different Conductix-Wampfler systems can prove advantageous. You can count on all of Conductix-Wampfler's Business Units for hands-on engineering support – coupled with the perfect solution to meet your energy management and control needs.



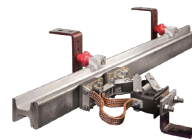
Festoon systems

It's hard to imagine Conductix-Wampfler cable trolleys not being used in virtually every industrial application. They're reliable and robust and available in an enormous variety of dimensions and designs.



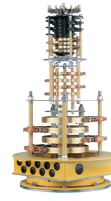
Conductor rails

Whether they're enclosed conductor rails or expandable single-pole systems, the proven conductor rails by Conductix-Wampfler reliably move people and material.



Non-insulated conductor rails

Extremely robust, non-insulated conductor rails with copper heads or stainless steel surfaces provide the ideal basis for rough applications, for example in steel mills or shipyards.



Slip ring assemblies

Whenever things are really "moving in circles", the proven slip ring assemblies by Conductix-Wampfler ensure the flawless transfer of energy and data. Here, everything revolves around flexibility and reliability!



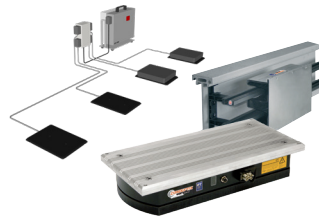
Motorized Cable & Hose Reels

Motorized reels by Conductix-Wampfler hold their own wherever energy, data, media and fluids have to cover the most diverse distances within a short amount of time - in all directions, fast and safe.



Spring Cable & Hose Reels

With their robust and efficient design Spring Cable and Hose Reels from Conductix-Wampfler are unbeatably reliable in supplying energy, signals, data and fluids to a vast range of tools, cranes and vehicles.



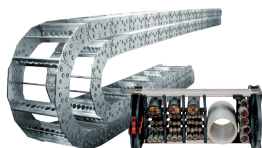
Inductive Power Transfer IPT®

The no-contact system for transferring energy and data. For all tasks that depend on high speeds and absolute resistance to wear. Flexible installation when used with Automated Guided Vehicles.



Retractors and Balancers

Our wide range of high reliable retractors and balancers remove the load from your shoulders and allow you to reach top productivity.



Energy guiding chains

The "Jack of all trades" when it comes to transferring energy, data, air and fluid hoses. With their wide range, these energy guiding chains are the ideal solution for many industrial applications.



Jib booms

Complete with tool transporters, reels, or an entire media supply system – here, safety and flexibility are key to the completion of difficult tasks.



Conveyor systems

Whether manual or semiautomatic – flexibility is achieved with full customization concerning layout and location.



Mobile Control Systems

Mobile control solutions for your plant – whether straightforward or intricate. Control and communication systems from LJU have been tried and tested in the automotive industry for decades.

www.conductix.us

USA / LATIN AMERICA

10102 F Street
Omaha, NE 68127

Customer Support

Phone +1-800-521-4888

Fax +1-800-780-8329

Phone +1-402-339-9300

Fax +1-402-339-9627

info.us@conductix.com

latinamerica@conductix.com

CANADA

1435 Norjohn Ct
Unit #5
Burlington, ON L7L 0E6

Customer Support

Phone +1-800-667-2487

Phone +1-450-565-9900

Fax +1-450-951-8591

info.ca@conductix.com

MÉXICO

Calle Treviño 983-C
Zona Centro
Apodaca, NL México 66600

Customer Support

Phone (+52 81) 1090 9519

(+52 81) 1090 9025

(+52 81) 1090 9013

Fax (+52 81) 1090 9014

info.mx@conductix.com

BRAZIL

Rua Luiz Pionti, LT 05, QD.
L - Vila Progresso
Itu, São Paulo, Brasil
CEP: 13.313-534

Customer Support

Phone (+55 11) 4813 7330

Fax (+55 11) 4813 7330

info.br@conductix.com

Contact us for our Global Sales Offices

