# Festoon Systems for I-Beams

## Program 0314 | 0320 | 0325 | 0330

CONDUCTIX wampfler

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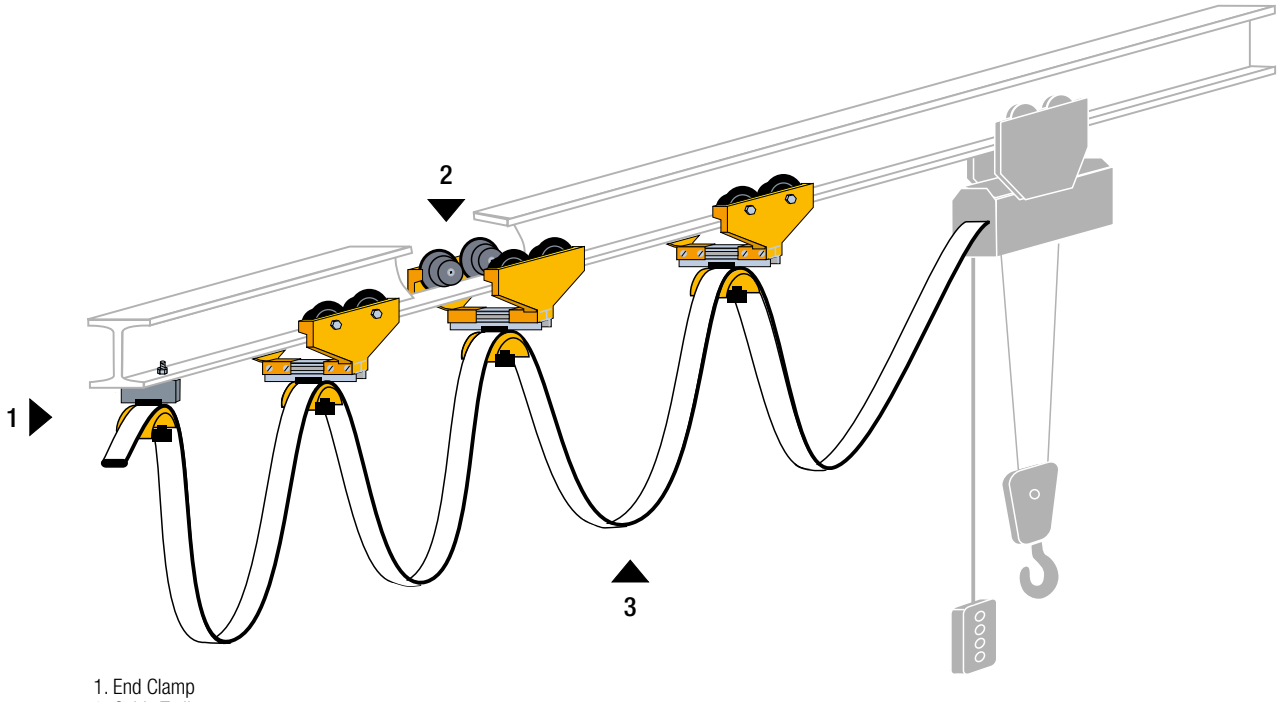
# Cable Trolleys for Flat Cables
# Program 0314

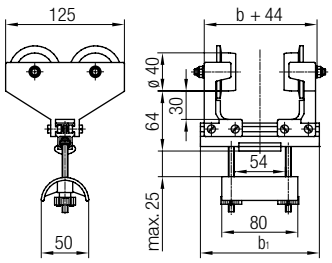
## Festoon System for Flat Cables




1. End Clamp
2. Cable Trolleys
3. Flat Cable

| Material Cable Trolleys for Flat Cables | |
|---|---|
| Side Shield: | Plastic |
| Roller: | Nylon, Friction Bearing |
| Shaft: | Stainless Steel |
| Support Rail: | Aluminum |
| Cable Support: | Plastic |
| Clamping Piece: | Rubber |
| Fasteners: | Galvanized Steel |
| Split Nut: | Plastic |

## 4 Wheel Plastic Trolley

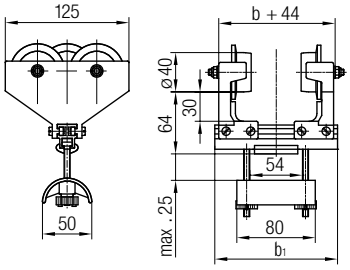



**Application**
The trolleys 022134 are designed for use with flat cables. They have a maximum cable package window opening of 54 mm width by 25 mm height.

| Part No. | Acid Resistant Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|---|
| **022134-125** | --- | 125 | 81 | 50 | 20 |
| **022134-160** | **022434-160** | 160 | 116 | | |
| **022134-200** | **022434-200** | 200 | 156 | | |
| **022134-250** | --- | 250 | 206 | | |
| **022134-280** | --- | 280 | 236 | | |
| **022134-320** | --- | 320 | 276 | | |
| **022134-350** | --- | 350 | 306 | | |

# Cable Trolleys for Flat Cables
# Program 0314

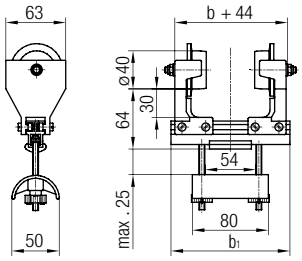
## 3 Wheel Plastic Trolley




**Application**
The trolleys 022133 are designed for use with flat cables. They have a maximum cable package window opening of 54 mm width by 25 mm height.

| Part No. | Acid Resistant Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|---|
| 022133-125 | --- | 125 | 81 | 50 | 10 |
| 022133-160 | 022433-160 | 160 | 116 | | |
| 022133-200 | 022433-200 | 200 | 156 | | |
| 022133-250 | --- | 250 | 206 | | |
| 022133-280 | --- | 280 | 236 | | |
| 022133-320 | --- | 320 | 276 | | |

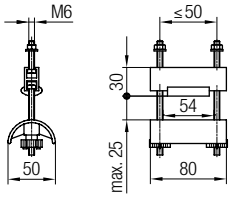
## 2 Wheel Plastic Trolley




**Application**
The trolleys 022132 are designed for use with flat cables. They have a maximum cable package window opening of 54 mm width by 25 mm height.

| Part No. | Acid Resistant Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|---|
| 022132-125 | --- | 125 | 81 | 50 | 10 |
| 022132-160 | 022432-160 | 160 | 116 | | |
| 022132-200 | 022432-200 | 200 | 156 | | |
| 022132-250 | --- | 250 | 206 | | |
| 022132-280 | --- | 280 | 236 | | |
| 022132-320 | --- | 320 | 276 | | |

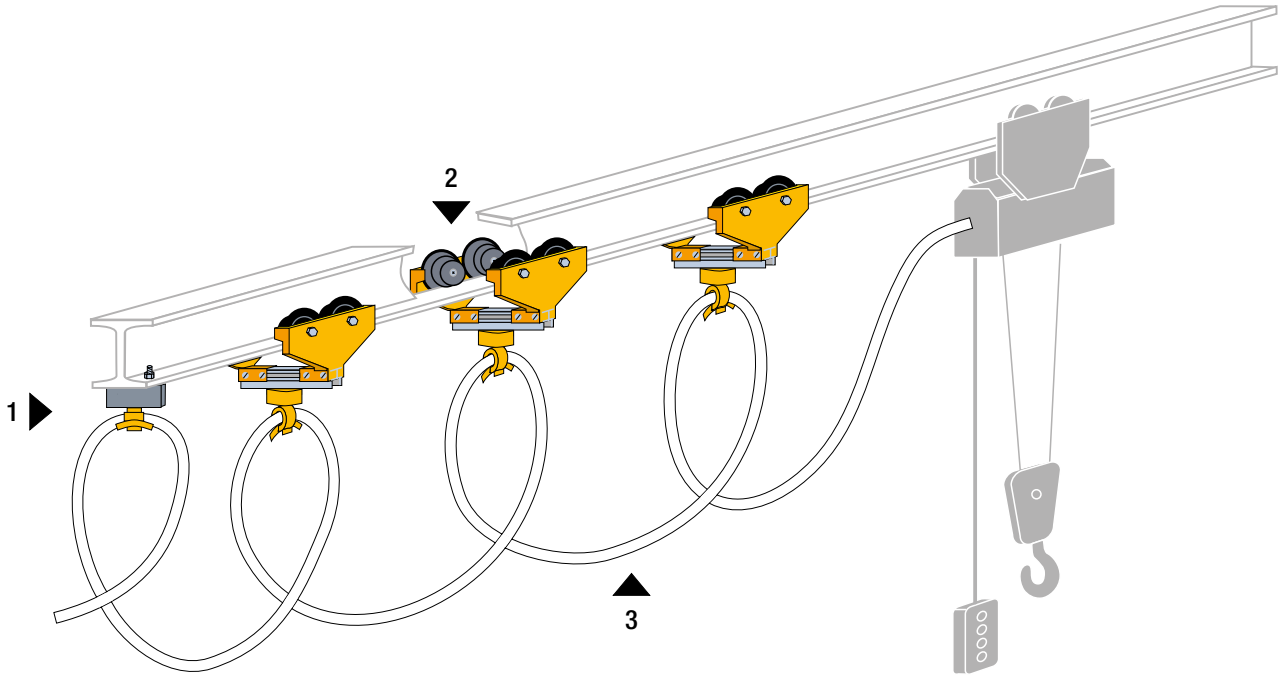
## End Clamp




| Part No. | Acid Resistant Part No. |
|---|---|
| 020221-080 | 020421 |

# Cable Trolleys for Round Cables
# Program 0314

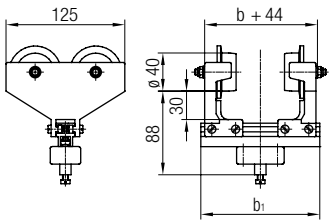
## Festoon System for Round Cables




1. End Clamp
2. Cable Trolleys
3. Round Cable

| Material Cable Trolleys for Round Cables | |
|---|---|
| Side Shield: | Plastic |
| Roller: | Nylon, Friction Bearing |
| Shaft: | Stainless Steel |
| Support Rail: | Aluminum |
| Ball Joint Housing: | Plastic |
| Clamping Piece: | Rubber |
| Fasteners: | Galvanized Steel |

## 4 Wheel Plastic Trolley with Ball Joint Attachment

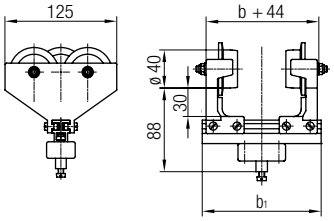



**Application**
Trolleys with ball joint are designed for use with round cables or hoses. Cable clip type 020131 for supporting cables or hoses must be ordered separately.

| Part No. | Acid Resistant Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|---|
| **022124-125** | --- | 125 | 81 | 50 | 20 |
| **022124-160** | **022424-160** | 160 | 116 | | |
| **022124-200** | **022424-200** | 200 | 156 | | |
| **022124-250** | --- | 250 | 206 | | |

# Cable Trolleys for Round Cables
# Program 0314

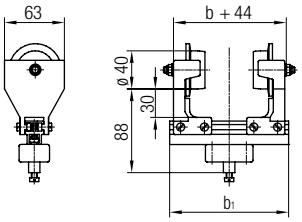
## 3 Wheel Plastic Trolley with Ball Joint Attachment




**Application**
Trolleys with ball joint are designed for use with round cables or hoses. Cable clip type 020131 for supporting cables or hoses must be ordered separately.

| Part No. | Acid Resistant Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|---|
| 022123-125 | --- | 125 | 81 | 50 | 10 |
| 022123-160 | 022423-160 | 160 | 116 | | |
| 022123-200 | 022423-200 | 200 | 156 | | |
| 022123-250 | --- | 250 | 206 | | |

## 2 Wheel Plastic Trolley with Ball Joint Attachment

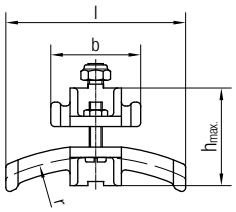


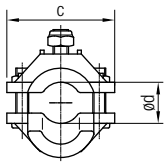

**Application**
Trolleys with ball joint are designed for use with round cables or hoses. Cable clip type 020131 for supporting cables or hoses must be ordered separately.

| Part No. | Acid Resistant Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|---|
| 022122-125 | --- | 125 | 81 | 50 | 10 |
| 022122-160 | 022422-160 | 160 | 116 | | |
| 022122-200 | 022422-200 | 200 | 156 | | |
| 022122-250 | --- | 250 | 206 | | |

# Cable Trolleys for Round Cables
# Program 0314

## Cable Clip

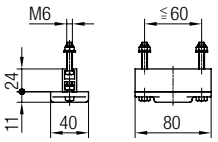



It is possible to fit multiple cable clips onto a trolley. When fitting different size cable clips, the largest cable clip must be fitted on top.

| Part No. | Acid Resistant Part No. | ød [mm] | r [mm] | l [mm] | h [mm] | b [mm] | c [mm] | Material Cable Clip |
|---|---|---|---|---|---|---|---|---|
| **020131-16** | **020431-16** | 10 - 16 | 80 | 70 | 38 | 35 | 42 | Plastic |
| **020131-25** | **020431-25** | 17 - 25 | 125 | 100 | 47 | 50 | 50 | |
| **020131-36** | **020431-36** | 26 - 36 | 180 | 140 | 58 | 70 | 64 | |

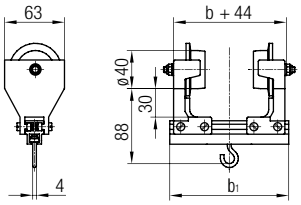
## End Clamp




| Part No. | Acid Resistant Part No. |
|---|---|
| **020214-080** | **020414-080** |

# Cable Trolleys for Round Cables
# Program 0314

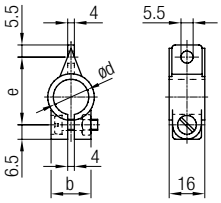
## 2 Wheel Plastic Trolley with Hook Attachment




**Application**
Trolleys with hook are designed for use with cable collars for round cables or hoses. Cable collar type 020111 for cables or hoses must be ordered separately.

| Part No. | $b_1$ [mm] | Max. Flange Width b [mm] | Max. Travel Speed [m/min] | Max. Load Capacity [kg] |
|---|---|---|---|---|
| **022112-125** | 125 | 81 | 50 | 10 |
| **022112-160** | 160 | 116 | | |
| **022112-200** | 200 | 156 | | |

## Cable Collar

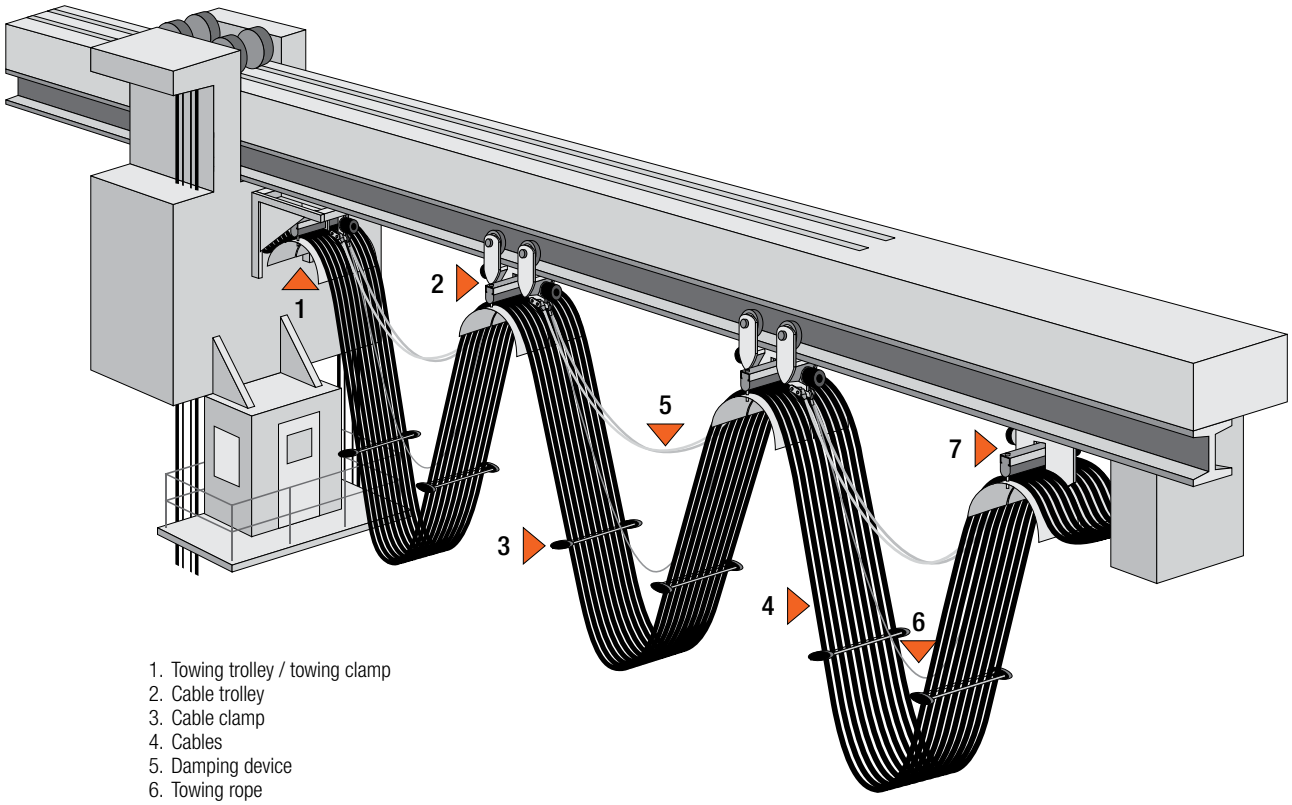



Cable collars for cables or hoses will attach to the hook on the trolley (Part No. 022112). It is possible to fit multiple cable clips onto a trolley.
When stacking multiple cable collars, the largest cable collar must be fitted on top.

| Part No. | ød [mm] | b [mm] | e [mm] | Material | |
|---|---|---|---|---|---|
| | | | | Cable Collar | Fasteners |
| **020111-08** | 8 | 18 | 23.0 | Plastic | Galvanized Steel |
| **020111-10** | 10 | | 24.5 | | |
| **020111-11** | 11 | | 25.5 | | |
| **020111-12,5** | 12.5 | | 27.5 | | |
| **020111-14** | 14 | | 28.5 | | |
| **020111-16** | 16 | | 30.5 | | |
| **020111-18** | 18 | | 32.5 | | |
| **020111-20** | 20 | 23 | 34.5 | | |
| **020111-22** | 22 | | 36.5 | | |
| **020111-25** | 25 | | 39.5 | | |
| **020111-28** | 28 | | 42.5 | | |
| **020111-32** | 32 | | 46.5 | | |
| **020111-36** | 36 | | 50.5 | | |

# System Arrangement

## Festoon System for Flat and Round Cables




1. Towing trolley / towing clamp
2. Cable trolley
3. Cable clamp
4. Cables
5. Damping device
6. Towing rope
7. End clamp

## Design Features

- Base trolley and cable supports: galvanized steel
- Fasteners: galvanized steel
- Running gear spacers are made of aluminum
- Clamping Piece: rubber
- Flange guided rollers made of hardened steel
- Cylindrical main rollers: steel with ball bearings hardened or with polyurethane rollers
- Anti-lift rollers made of hardened steel with ball bearings

## Ordering Example Program 0320

**Example:**
Trolley selection for a flat cable package size of 110 mm
width x 45 mm height set for a IPE100 I-Beam with flanged rollers.

**Selection:**
Cable support diameter $d_a$ = 125 mm,
according to minimum bend diameter of cable.
$b_2$ = 130 mm
s = 60 mm (as per table on page 11)

**Part No.:**

**Cable Trolley without Anti-Lift Rollers**
032252-250x160/30-E100

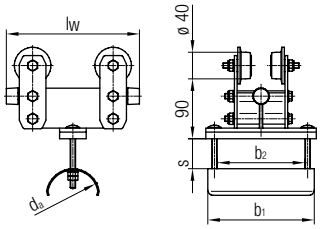
Base Trolley
Running Gear Designation
Beam Suffix

**Corresponding Tow Trolley with Anti-Lift Rollers**
032262-250x160/31-E100

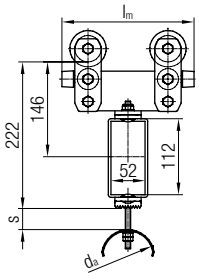
**Corresponding End Clamp**
032242-250x160

# Cable Trolleys
# Program 0320

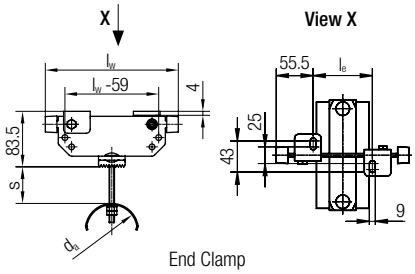
## Steel Trolleys for Flat Cables




Cable Trolley




Towing Trolley




End Clamp

- Max. Load Capacity 80 kg [1)]
- Max. Travel Speed 100 m/min [1)]
- Other Trolley Sizes available upon request

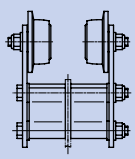
*1) depending on roller size and roller material*

| Cable Trolley Part No. | End Clamp Part No. | Towing Trolley Part No. | $d_a$ [mm] | $l_w$ [mm] | $b_1$ [mm] | $b_2$ [mm] | s [mm] | $l_e$ [mm] | $l_m$ [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 032250-160x100/... | 032240-160x100 | 032260-200x100/... | 80 | 160 | 100 | 70 | 35 | 49 | 200 |
| 032250-160x160/... | 032240-160x160 | 032260-200x160/... | | | 160 | 130 | | | |
| 032250-200x100/... | 032240-200x100 | 032260-200x100/... | | 200 | 100 | 70 | 55 | 89 | |
| 032250-200x160/... | 032240-200x160 | 032260-200x160/... | | | 160 | 130 | | | |
| 032252-200x100/... | 032242-200x100 | 032262-200x100/... | 125 | 200 | 100 | 70 | 35 | 89 | 200 |
| 032252-200x160/... | 032242-200x160 | 032262-200x160/... | | | 160 | 130 | | | |
| 032252-250x100/... | 032242-250x100 | 032262-250x100/... | | 250 | 100 | 70 | 60 | 139 | 250 |
| 032252-250x160/... | 032242-250x160 | 032262-250x160/... | | | 160 | 130 | | | |
| 032252-250x200/... | 032242-250x200 | 032262-250x200/... | | | 200 | 170 | | | |
| 032253-250x160/... | 032243-250x160 | 032263-250x160/... | 160 | 250 | 175 | 130 | 40 | 139 | 250 |
| 032253-250x200/... | 032243-250x200 | 032263-250x200/... | | | 215 | 170 | | | |
| 032253-280x160/... | 032243-280x160 | 032263-280x160/... | | 280 | 175 | 130 | 55 | 169 | 280 |
| 032253-280x200/... | 032243-280x200 | 032263-280x200/... | | | 215 | 170 | | | |

**Running Gear with ø 40/55 mm Flanged Rollers (for parallel and tapered flange I-Beams)**

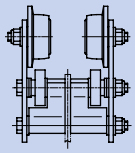
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../30-...**



**With Anti-Lift Rollers**

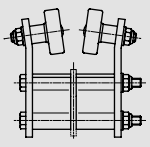
Running Gear Designation with Hardened Steel Rollers **.../31-...**



**Running Gear with ø 40 mm Cylindrical Main Rollers (for tapered flange I-Beams only)**

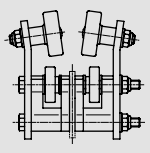
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../10-...** with Polyurethane Rollers **.../12-...**



**With Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../11-...** with Polyurethane Rollers **.../13-...**



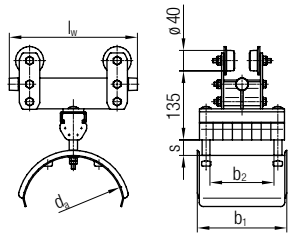
| Beam Suffix | Beam Size |
|---|---|
| **...-N080** | INP 080 |
| **...-N100** | INP 100 |
| **...-N120** | INP 120 |
| **...-N140** | INP 140 |
| **...-N160** | INP 160 |
| **...-N180** | INP 180 |
| **...-E080** | IPE 080 |
| **...-E100** | IPE 100 |
| **...-E120** | IPE 120 |
| **...-E140** | IPE 140 |
| **...-E160** | IPE 160 |
| **...-E180** | IPE 180 |
| **...-E200** | IPE 200 |
| **---** | --- |

# Cable Trolleys
# Program 0320

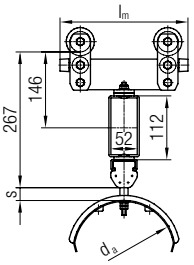
## Steel Trolleys for Round Cables

- Max. Load Capacity 80 kg [1)]
- Max. Travel Speed 100 m/min [1)]
- Other Trolley Sizes available upon request

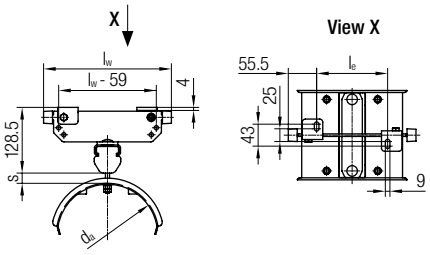
*1) depending on roller size and roller material*




Cable Trolley




Towing Trolley




End Clamp

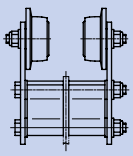
| Cable Trolley Part No. | End Clamp Part No. | Towing Trolley Part No. | $d_a$ [mm] | $l_w$ [mm] | $b_1$ [mm] | $b_2$ [mm] | s [mm] | $l_e$ [mm] | $l_m$ [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 032464-250x160/... | 032494-250x160 | 032474-250x160/... | 200 | 250 | 175 | 125 | 20 | 139 | 250 |
| 032464-250x200/... | 032494-250x200 | 032474-250x200/... | | | 215 | 165 | | | |
| 032465-320x160/... | 032495-320x160 | 032475-320x160/... | 250 | 320 | 175 | 125 | 25 | 209 | 320 |
| 032465-320x200/... | 032495-320x200 | 032475-320x200/... | | | 215 | 165 | | | |
| 032465-320x250/... | 032495-320x250 | 032475-320x250/... | | | 265 | 215 | | | |
| 032467-400x160/... | 032497-400x160 | 032477-400x160/... | 320 | 400 | 175 | 125 | 32 | 289 | 400 |
| 032467-400x200/... | 032497-400x200 | 032477-400x200/... | | | 215 | 165 | | | |
| 032467-400x250/... | 032497-400x250 | 032477-400x250/... | | | 265 | 215 | | | |

For tow trolleys, running gears with anti-lift rollers are recommended. Running gears for other beam styles are available on request. Please contact us.

**Running Gear with ø 40/55 mm Flanged Rollers (for parallel and tapered flange I-Beams)**

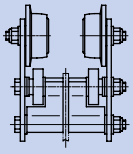
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../30-...**



**With Anti-Lift Rollers**

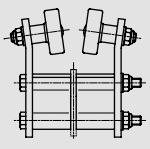
Running Gear Designation with Hardened SteelRollers **.../31-...**



**Running Gear with ø 40 mm Cylindrical Main Rollers (for tapered flange I-Beams only)**

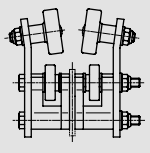
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../10-...** with Polyurethane Rollers **.../12-...**



**With Anti-Lift Rollers**

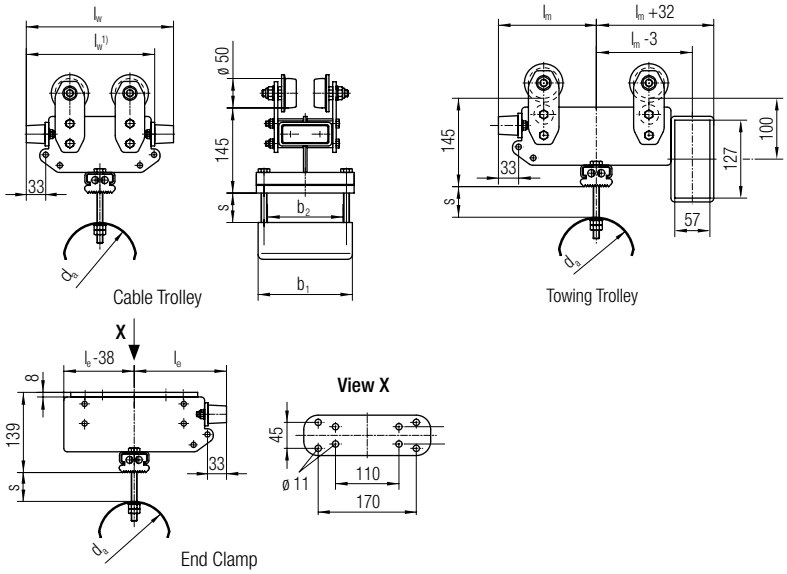
Running Gear Designation with Hardened Steel Rollers **.../11-...** with Polyurethane Rollers **.../13-...**



| Beam Suffix | Beam Size |
|---|---|
| **...-N080** | INP 080 |
| **...-N100** | INP 100 |
| **...-N120** | INP 120 |
| **...-N140** | INP 140 |
| **...-N160** | INP 160 |
| **...-N180** | INP 180 |
| **...-E080** | IPE 080 |
| **...-E100** | IPE 100 |
| **...-E120** | IPE 120 |
| **...-E140** | IPE 140 |
| **...-E160** | IPE 160 |
| **...-E180** | IPE 180 |
| **...-E200** | IPE 200 |
| **---** | --- |

# Cable Trolleys
# Program 0325

## Steel Trolleys for Flat Cables




- Max. Load Capacity 125 kg [1)]
- Max. Travel Speed 120 m/min [1)]
- Other Trolley Sizes available upon request

*1) depending on roller size and roller material*

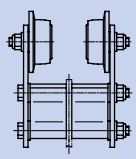
| Cable Trolley Part No. | End Clamp Part No. | Towing Trolley Part No. | $d_a$ [mm] | $l_w$ [mm] | $b_1$ [mm] | $b_2$ [mm] | s [mm] | $l_e$ [mm] | $l_m$ [mm] |
|---|---|---|---|---|---|---|---|---|---|
| **032652-220x160/...** | **032642-320x160** | **032662-320x160/...** | 125 | 220[1)] | 160 | 128 | 35 | 160 | 160 |
| **032652-220x200/...** | **032642-320x200** | **032662-320x200/...** | | | 200 | 168 | | | |
| **032652-250x160/...** | **032642-320x160** | **032662-320x160/...** | | 250 | 160 | 128 | 50 | | |
| **032652-250x200/...** | **032642-320x200** | **032662-320x200/...** | | | 200 | 168 | | | |
| **032653-290x160/...** | **032643-320x160** | **032663-320x160/...** | 160 | 290[1)] | 175 | 128 | 50 | | |
| **032653-290x200/...** | **032643-320x200** | **032663-320x200/...** | | | 215 | 168 | | | |
| **032653-290x250/...** | **032643-320x250** | **032663-320x250/...** | | | 265 | 218 | | | |
| **032653-320x160/...** | **032643-320x160** | **032663-320x160/...** | | 320 | 175 | 128 | 70 | | |
| **032653-320x200/...** | **032643-320x200** | **032663-320x200/...** | | | 215 | 168 | | | |
| **032653-320x250/...** | **032643-320x250** | **032663-320x250/...** | | | 265 | 218 | | | |
| **032654-320x160/...** | **032644-320x160** | **032664-320x160/...** | 200 | 320 | 175 | 128 | 50 | | |
| **032654-320x200/...** | **032644-320x200** | **032664-320x200/...** | | | 215 | 168 | | | |
| **032654-320x250/...** | **032644-320x250** | **032664-320x250/...** | | | 265 | 218 | | | |

*1) Trolley with one buffer only*

**Running Gear with ø50/63 mm Flanged Rollers (for parallel and tapered flange I-Beams)**

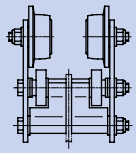
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../70-...**



**With Anti-Lift Rollers**

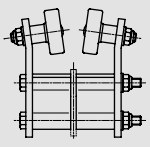
Running Gear Designation with Hardened SteelRollers **.../71-...**



**Running Gear with ø50 mm Cylindrical Main Rollers (for tapered flange I-Beams only)**

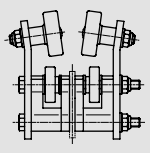
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../50-...** with Plastic Rollers **.../60-...**



**With Anti-Lift Rollers**

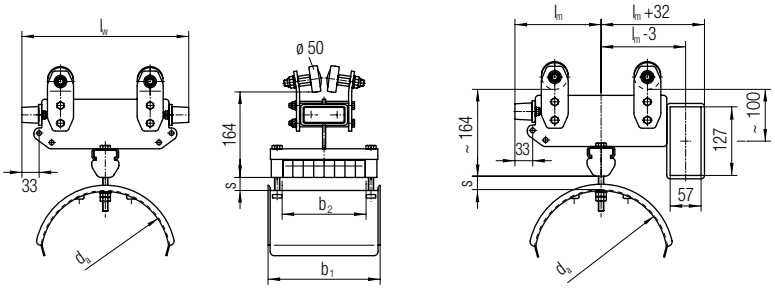
Running Gear Designation with Hardened Steel Rollers **.../51-...** with Polyurethane Rollers **.../61-...**



| Beam Suffix | Beam Size |
|---|---|
| **...-N100** | INP 100 |
| **...-N120** | INP 120 |
| **...-N140** | INP 140 |
| **...-N160** | INP 160 |
| **...-N180** | INP 180 |
| **...-E080** | IPE 080 |
| **...-E100** | IPE 100 |
| **...-E120** | IPE 120 |
| **...-E140** | IPE 140 |
| **...-E160** | IPE 160 |
| **...-E180** | IPE 180 |
| **...-E200** | IPE 200 |
| **---** | --- |
| **---** | --- |

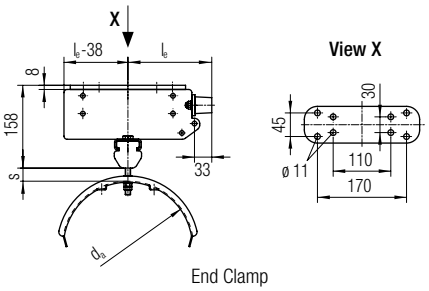
# Cable Trolleys
# Program 0325

## Steel Trolleys for Round Cables




Cable Trolley

Towing Trolley



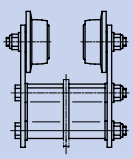
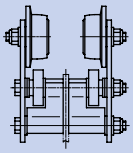

End Clamp

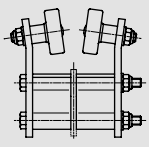
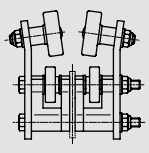
- Max. Load Capacity 125 kg [1)]
- Max. Travel Speed 120 m/min [1)]
- Other Trolley Sizes available upon request

*1) depending on roller size and roller material*

| Cable Trolley Part No. | End Clamp Part No. | Towing Trolley Part No. | $d_a$ [mm] | $l_w$ [mm] | $b_1$ [mm] | $b_2$ [mm] | s [mm] | $l_e$ [mm] | $l_m$ [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 032865-320x160/... | 032895-320x160 | 032875-320x160/... | 250 | 320 | 175 | 121 | 25 | 160 | 160 |
| 032865-320x200/... | 032895-320x200 | 032875-320x200/... | | | 215 | 161 | | | |
| 032865-320x250/... | 032895-320x250 | 032875-320x250/... | | | 265 | 211 | | | |
| 032867-400x160/... | 032897-400x160 | 032877-400x160/... | 320 | 400 | 175 | 121 | 32 | 200 | 200 |
| 032867-400x200/... | 032897-400x200 | 032877-400x200/... | | | 215 | 161 | | | |
| 032867-400x250/... | 032897-400x250 | 032877-400x250/... | | | 265 | 211 | | | |

For tow trolleys, running gears with anti-lift rollers are recommended. Running gears for other beam styles are available on request. Please contact us.

| Running Gear with ø 50/63 mm Flanged Rollers (for parallel and tapered flange I-Beams) | |
|---|---|
| **Without Anti-Lift Rollers** | |
| Running Gear Designation with Hardened Steel Rollers **.../70-...** |  |
| **With Anti-Lift Rollers** | |
| Running Gear Designation with Hardened SteelRollers **.../71-...** |  |

| Running Gear with ø 50 mm Cylindrical Main Rollers (for tapered flange I-Beams only) | |
|---|---|
| **Without Anti-Lift Rollers** | |
| Running Gear Designation with Hardened Steel Rollers **.../50-...** with Polyurethane Rollers **.../60-...** |  |
| **With Anti-Lift Rollers** | |
| Running Gear Designation with Hardened Steel Rollers **.../51-...** with Polyurethane Rollers **.../61-...** |  |

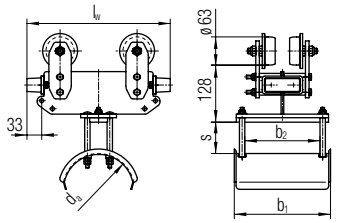
| Beam Suffix | Beam Size |
|---|---|
| **...-N100** | INP 100 |
| **...-N120** | INP 120 |
| **...-N140** | INP 140 |
| **...-N160** | INP 160 |
| **...-N180** | INP 180 |
| **...-E080** | IPE 080 |
| **...-E100** | IPE 100 |
| **...-E120** | IPE 120 |
| **...-E140** | IPE 140 |
| **...-E160** | IPE 160 |
| **...-E180** | IPE 180 |
| **...-E200** | IPE 200 |
| **---** | --- |
| **---** | --- |

# Cable Trolleys
# Program 0330

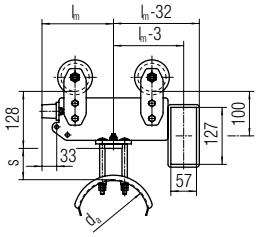
## Steel Trolley for Flat Cables

- Max. Load Capacity 200 kg [1)]
- Max. Travel Speed 150 m/min [1)]
- Other Trolley Sizes available upon request

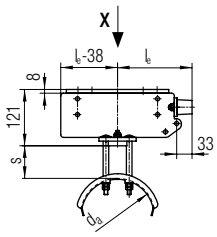
*1) depending on roller size and roller material*

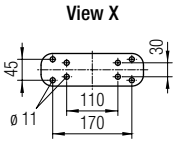



Cable Trolley

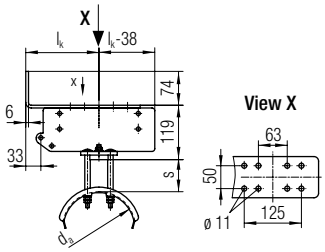



Towing Trolley




End Clamp



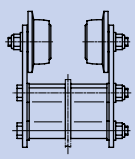

Towing Clamp

| Cable Trolley Part No. | End Clamp Part No. | Towing Trolley Part No. | Towing Clamp Part No. | $d_a$ [mm] | $l_w$ [mm] | $b_1$ [mm] | $b_2$ [mm] | s [mm] | $l_e$ [mm] | $l_m$ [mm] | $l_k$ [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 033252-250x160/... | 033242-320x160 | 033262-320x160/... | 033272-320x160 | 125 | 250 | 175 | 128 | 50 | 160 | 160 | 160 |
| 033252-250x200/... | 033242-320x200 | 033262-320x200/... | 033272-320x200 | | | 215 | 168 | | | | |
| 033252-250x250/... | 033242-320x250 | 033262-320x250/... | 033272-320x250 | | | 265 | 218 | | | | |
| 033252-320x160/... | 033242-320x160 | 033262-320x160/... | 033272-320x160 | | 320 | 175 | 128 | 85 | | | |
| 033252-320x200/... | 033242-320x200 | 033262-320x200/... | 033272-320x200 | | | 215 | 168 | | | | |
| 033252-320x250/... | 033242-320x250 | 033262-320x250/... | 033272-320x250 | | | 265 | 218 | | | | |
| 033253-320x160/... | 033243-320x160 | 033263-320x160/... | 033273-320x160 | 160 | 320 | 175 | 128 | 70 | 160 | 160 | 160 |
| 033253-320x200/... | 033243-320x200 | 033263-320x200/... | 033273-320x200 | | | 215 | 168 | | | | |
| 033253-320x250/... | 033243-320x250 | 033263-320x250/... | 033273-320x250 | | | 265 | 218 | | | | |
| 033254-400x160/... | 033244-400x160 | 033264-400x160/... | 033274-400x160 | 200 | 400 | 175 | 128 | 85 | 200 | 200 | 200 |
| 033254-400x200/... | 033244-400x200 | 033264-400x200/... | 033274-400x200 | | | 215 | 168 | | | | |
| 033254-400x250/... | 033244-400x250 | 033264-400x250/... | 033274-400x250 | | | 265 | 218 | | | | |

**Running Gear with ø63/80 mm Flanged Rollers (for parallel and tapered flange I-Beams)**

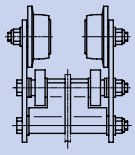
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../90-...**



**With Anti-Lift Rollers**

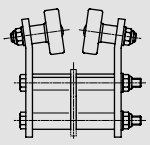
Running Gear Designation with Hardened SteelRollers **.../91-...**



**Running Gear with ø63 mm Cylindrical Main Rollers (for tapered flange I-Beams only)**

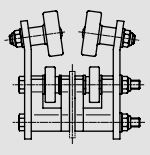
**Without Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../80-...** with Polyurethane Rollers **.../82-...**



**With Anti-Lift Rollers**

Running Gear Designation with Hardened Steel Rollers **.../81-...** with Polyurethane Rollers **.../83-...**



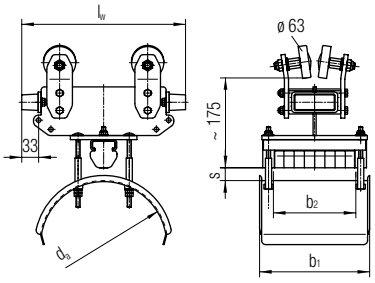
| Beam Suffix | Beam Size |
|---|---|
| **...-N120** | INP 120 |
| **...-N140** | INP 140 |
| **...-N160** | INP 160 |
| **...-N180** | INP 180 |
| **...-N200** | INP 200 |
| **...-E100** | IPE 100 |
| **...-E120** | IPE 120 |
| **...-E140** | IPE 140 |
| **...-E160** | IPE 160 |
| **...-E180** | IPE 180 |
| **...-E200** | IPE 200 |
| **...-E220** | IPE 220 |
| **---** | --- |
| **---** | --- |

# Cable Trolleys
# Program 0330

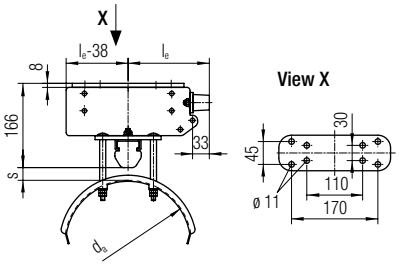
## Steel Trolley for Round Cables

- Max. Load Capacity 200 kg [1)]
- Max. Travel Speed 150 m/min [1)]
- Other Trolley Sizes available upon request

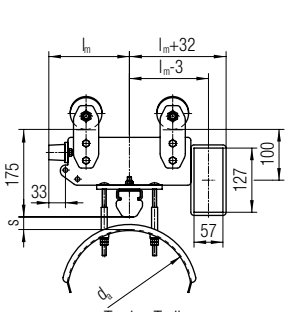
*1) depending on roller size and roller material*



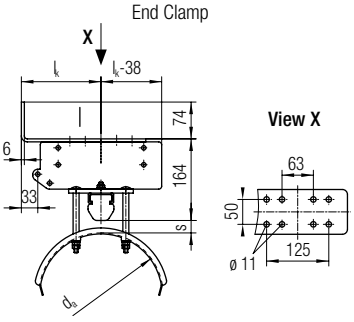

Cable Trolley




End Clamp



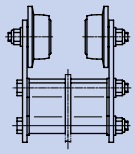
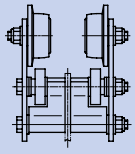

Towing Trolley

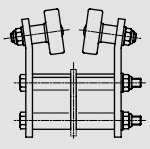
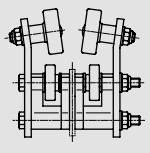



Towing Clamp

| Cable Trolley Part No. | End Clamp Part No. | Towing Trolley Part No. | Towing Clamp Part No. | $d_a$ [mm] | $l_w$ [mm] | $b_1$ [mm] | $b_2$ [mm] | s [mm] | $l_e$ [mm] | $l_m$ [mm] | $l_k$ [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **033465-320x160/...** | **033495-320x160** | **033475-320x160/...** | **033485-320x160** | 250 | 320 | 175 | 121 | 25 | 160 | 160 | 160 |
| **033465-320x200/...** | **033495-320x200** | **033475-320x200/...** | **033485-320x200** | | | 215 | 161 | | | | |
| **033465-320x250/...** | **033495-320x250** | **033475-320x250/...** | **033485-320x250** | | | 265 | 211 | | | | |
| **033467-400x160/...** | **033497-400x160** | **033477-400x160/...** | **033487-400x160** | 320 | 400 | 175 | 121 | 32 | 200 | 200 | 200 |
| **033467-400x200/...** | **033497-400x200** | **033477-400x200/...** | **033487-400x200** | | | 215 | 161 | | | | |
| **033467-400x250/...** | **033497-400x250** | **033477-400x250/...** | **033487-400x250** | | | 265 | 211 | | | | |

For tow trolleys, running gears with anti-lift rollers are recommended. Running gears for other beam styles are available on request. Please contact us.

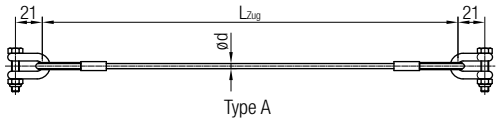
| **Running Gear with ø63/80 mm Flanged Rollers (for parallel and tapered flange I-Beams)** | |
|---|---|
| **Without Anti-Lift Rollers** | |
| Running Gear Designation with Hardened Steel Rollers **.../90-...** |  |
| **With Anti-Lift Rollers** | |
| Running Gear Designation with Hardened SteelRollers **.../91-...** |  |

| **Running Gear with ø63 mm Cylindrical Main Rollers (for tapered flange I-Beams only)** | |
|---|---|
| **Without Anti-Lift Rollers** | |
| Running Gear Designation with Hardened Steel Rollers **.../80-...** with Polyurethane Rollers **.../82-...** |  |
| **With Anti-Lift Rollers** | |
| Running Gear Designation with Hardened Steel Rollers **.../81-...** with Polyurethane Rollers **.../83-...** |  |

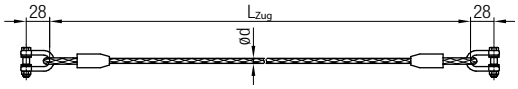
| Beam Suffix | Beam Size |
|---|---|
| **...-N120** | INP 120 |
| **...-N140** | INP 140 |
| **...-N160** | INP 160 |
| **...-N180** | INP 180 |
| **...-N200** | INP 200 |
| **...-E100** | IPE 100 |
| **...-E120** | IPE 120 |
| **...-E140** | IPE 140 |
| **...-E160** | IPE 160 |
| **...-E180** | IPE 180 |
| **...-E200** | IPE 200 |
| **...-E220** | IPE 220 |
| **---** | --- |
| **---** | --- |

# Accessories for Festoon Systems Program 0320, 0325 and 0330

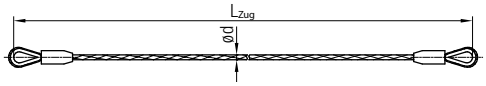
## Tow Ropes



Type A



Type B

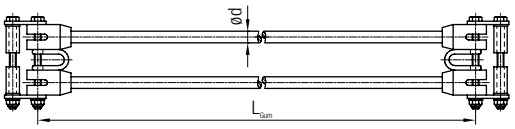


Type C

Type C suggested for use with Damping Rope assembly.
Different types and lengths available upon request.

| Part No. | ød [mm] | Material Rope | Type | Program |
|---|---|---|---|---|
| **020328-04** | 4 | Galvanized Steel | A | 0320 |
| **020329-04** | 4 | Galvanized Steel (w/PVC Jacket) | | |
| **020328-06** | 6 | Galvanized Steel | B | 0325, 0330 |
| **020329-08** | 8 | Galvanized Steel (w/PVC Jacket) | | |
| **020325-08** | 8 | Galvanized Steel (w/PVC Jacket) | C | |

## Damping Devices



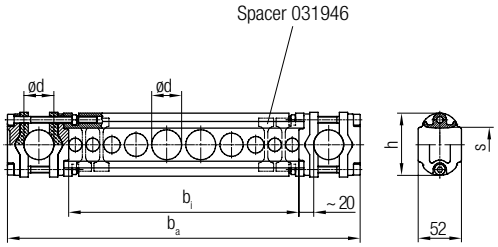

**Note:**
In case of order please state the lengths $L_{Gum}$ of the respective Damping Ropes.

Different types and lengths available upon request.

| Part No. | ød [mm] | Material Rope | Program |
|---|---|---|---|
| **020337-10** | 10 | Rubber core with a Nylon jacket | 0325, 0330 |
| **020337-14** | 14 | | |

# Accessories for Festoon Systems Program 0320, 0325 and 0330

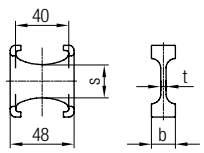
## Round Cable Clamps




| Part No. | $ød_{max.}$ [mm] | $b_i$ [mm] | $b_a$ [mm] | h [mm] | s [mm] | Σd[1)] [mm] | Material Support Rail | Material Cable Clip | Material Fasteners | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| **031941-026x100/400** | 26 | 100 | 236 | 64 | 30 | 34 | Aluminum | Rubber | Stainless Steel | 0.95 |
| **031941-026x150/400** | | 150 | 286 | | | | | | | 1.07 |
| **031941-026x200/400** | | 200 | 336 | | | | | | | 1.09 |
| **031941-026x250/400** | | 250 | 386 | | | | | | | 1.31 |
| **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 |

*1) A cable spacer is required between cables if the sum of the diameters of two adjacent cables is smaller than the value Σd.*

## Spacers

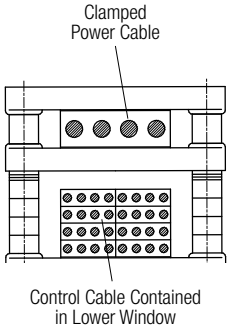


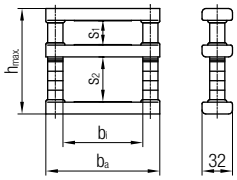

| Part No. | s [mm] | t [mm] | b [mm] | Material | Used with Round Cable Clamp |
|---|---|---|---|---|---|
| **031946-26** | 25 | 4 | 18 | Plastic | 031941-026x... |
| **031946-36** | 35 | 5 | 19 | | 031941-036x... |

# Accessories for Festoon Systems Program 0320, 0325 and 0330

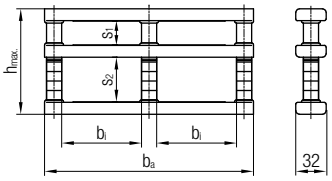
## Flat Cable Clamps

Power cables are clamped in upper window $s_1$, control cables are contained in lower window $s_2$ with sufficient space (> 2 mm) to allow the cables to move freely.
Flat cable clamps are supplied pre-assembled with upper window $s_1$ of minimum size and lower window $s_2$ of maximum size. The cable clamps can be adjusted to fit cable packages by transferring spacers from window $s_2$ to window $s_1$.




020126...
031953...

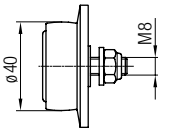



031955...

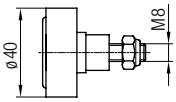
| Part No. | $b_i$ [mm] | $b_a$ [mm] | $s_1 + s_2$ [mm] | | $s_{1min.}$ [mm] | $h_{max.}$ [mm] | Material Cable Clamps | Material Fasteners | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|
| 020126-054x018 | 54 | 90 | 18 | +2.5 | 3 | 50 | Plastic | Galvanized Steel | 0.07 |
| 020126-054x028 | | | 28 | | | 60 | | | 0.08 |
| 020126-054x038 | | | 38 | | | 70 | | | 0.09 |
| 031953-084x025/400 | 84 | 120 | 25 | +2.5 | 5 | 60 | | Stainless Steel | 0.16 |
| 031953-084x035/400 | | | 35 | | | 70 | | | 0.17 |
| 031953-084x045/400 | | | 45 | | | 80 | | | 0.18 |
| 031953-084x055/400 | | | 55 | | | 90 | | | 0.19 |
| 031953-084x065/400 | | | 65 | | | 100 | | | 0.21 |
| 031953-136x025/400 | 136 | 172 | 25 | +2.5 | 5 | 60 | | | 0.22 |
| 031953-136x035/400 | | | 35 | | | 70 | | | 0.23 |
| 031953-136x045/400 | | | 45 | | | 80 | | | 0.24 |
| 031953-136x055/400 | | | 55 | | | 90 | | | 0.25 |
| 031953-136x065/400 | | | 65 | | | 100 | | | 0.26 |
| 031953-136x075/400 | | | 75 | | | 110 | | | 0.27 |
| 031953-136x085/400 | | | 85 | | | 120 | | | 0.28 |
| 031955-084x035/400 | 84 | 220 | 35 | +2.5 | 5 | 70 | | | 0.41 |
| 031955-084x045/400 | | | 45 | | | 80 | | | 0.43 |
| 031955-084x055/400 | | | 55 | | | 90 | | | 0.44 |
| 031955-084x065/400 | | | 65 | | | 100 | | | 0.46 |
| 031955-084x075/400 | | | 75 | | | 110 | | | 0.48 |
| 031955-103x025/400 | 103 | 258 | 25 | +2.5 | 5 | 60 | | | 0.42 |
| 031955-103x035/400 | | | 35 | | | 70 | | | 0.43 |
| 031955-103x045/400 | | | 45 | | | 80 | | | 0.46 |
| 031955-103x055/400 | | | 55 | | | 90 | | | 0.47 |
| 031955-103x065/400 | | | 65 | | | 100 | | | 0.49 |
| 031955-103x075/400 | | | 75 | | | 110 | | | 0.51 |

# Wear Parts for Cable Trolleys Program 0320, 0325 and 0330

## Replacement Rollers for Program 0320

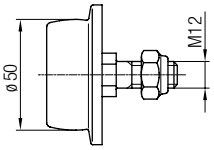



| ø 40/55 mm Flanged Roller | Part No. | Type with |
|---|---|---|
| | 030101-040 | Hardened Steel Roller |

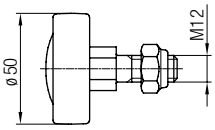



| ø 40 mm Cylindrical Main Roller | Part No. | Type with | Beam Size INP |
|---|---|---|---|
| | 030102-040.1 | Hardened Steel Roller | 80 - 120 |
| | 030102-040.2 | | 140 - 180 |
| | 030103-040.1 | Polyurethane Roller | 80 - 120 |
| | 030103-040.2 | | 140 - 180 |

## Replacement Rollers for Program 0325

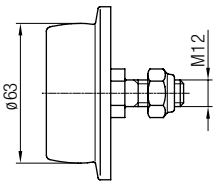



| ø 50/63 mm Flanged Roller | Part No. | Type with |
|---|---|---|
| | 030101-050 | Hardened Steel Roller |

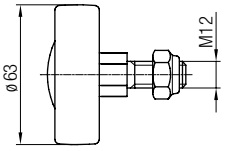



| ø 50 mm Cylindrical Main Roller | Part No. | Type with | Beam Size INP |
|---|---|---|---|
| | 030102-050.1 | Hardened Steel Roller | 100 |
| | 030102-050.2 | | 120 - 180 |
| | 030113-050.1 | Polyurethane Roller | 100 |
| | 030113-050.3 | | 120 - 180 |

## Replacement Rollers for Program 0330



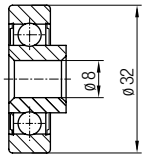

| ø 63/80 mm Flanged Roller | Part No. | Type with |
|---|---|---|
| | 030101-063 | Hardened Steel Roller |




| ø 63 mm Cylindrical Main Roller | Part No. | Type with | Beam Size INP |
|---|---|---|---|
| | 030102-063.1 | Hardened Steel Roller | 120 - 140 |
| | 030102-063.2 | | 160 - 200 |
| | 030113-063.1 | Polyurethane Roller | 120 - 140 |
| | 030113-063.3 | | 160 - 200 |

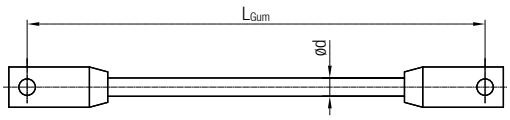
# Wear Parts for Cable Trolleys Program 0320, 0325 and 0330

## Replacement Anti-Lift Roller for Program 0320, 0325 and 0330




| Part No. |
|---|
| 02-K012-0062 |

## Damping Ropes for Program 0325 and 0330




| Part No. | ød [mm] | Weight [kg/m] |
|---|---|---|
| 020336-10 | 10 | 0.09 |
| 020336-14 | 14 | 0.17 |

**Note:**
In case of order please state the lengths $L_{Gum}$ of the respective damping ropes.

**Technical details**
- Damping Rope: rubber with plastic plait
- Fasteners: stainless steel/hot-dipped galvanized steel

# Service – tailor-made

**Complete service competence**
The scope and depth of the Conductix-Wampfler range of services is based on the requests and requirements of the customers. From planning to long-term agreements, anything is possible – according to your needs. Plus, the more complex the system layout and the expectations of operational life and operational safety, the more sense it makes to utilize our competent service team. Ask us!

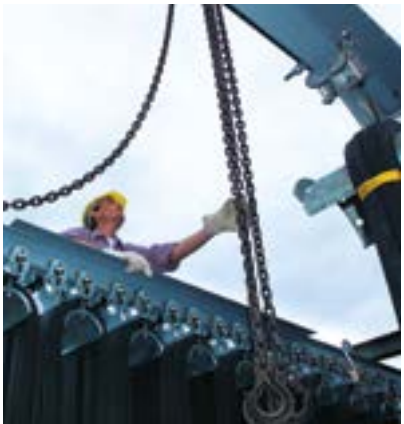
**Project planning**
- Determining the application parameters
- Selecting the optimal cable trolley technology and suitable cables – optimized to customer requirements, application parameters and environmental factors

**Pre-assembly**
- Mounting the cable trolleys on the transport beam
- Laying out and aligning the cables
- Installing the equipment
- Loading and transporting the festoon system to its site of operation

**Final assembly & inspection**
- Ensuring the correct assembly on site
- Completing the installation, inspection, and commissioning using trained and experienced personnel

**Maintenance & service**
- Regular maintenance and inspections increase the operational life of the facility, ensuring its long-term availability
- Conductix-Wampfler service agreements: the “complete worry-free package”

The experts of Conductix-Wampfler accompany their customers from planning through pre-assembly right up to the on-site installation – anywhere in the world!



# Your Applications – our Solutions

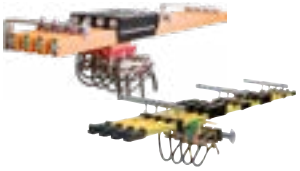
**The solutions we deliver for your applications are based on your specific requirements. In many cases, a combination of several different Conductix-Wampfler systems can prove advantageous. You can count on Conductix-Wampfler for hands-on engineering support together with the optimum solution to safely meet your needs.**

### Cable and Hose Reels

Motor driven and spring driven reels by Conductix-Wampfler provide energy, data and media over a variety of distances, in all directions, fast and safe.

### Festoon Systems

Conductix-Wampfler cable trolleys can be used in virtually every industrial application. They are reliable, robust and available in an enormous variety of dimensions and designs.



### Conductor Rails

Available as enclosed or multiple unipole systems, Conductix-Wampfler conductor rails reliably move people and material.

### 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.

### Energy Guiding Chains

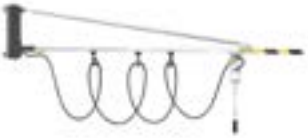
Covering a wide range, energy guiding chains are the ideal solution for transferring energy, data, air and fluids for many industrial applications.

### Radio Remote Controls

Safety remote control solutions customized to meet our customer needs with modern ergonomic design.

### Reels, Retractors and Balancers

Available for hoses and cables, as classical reels or high-precision positioning aids for tools, we offer a complete range of reels and spring balancers.



### Jib Booms

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

### Non-insulated Conductor Rails

Robust, non-insulated aluminum conductor rails with stainless steel cap provide the ideal basis for power supply of people movers and transit networks.

### 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!

### Mobile Control Systems

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

### ProfiDAT

This data transfer system is a compact slotted waveguide and furthermore can be used as Grounding rail (PE) as well as positioning rail at the same time.

# www.conductix.com

**Conductix-Wampfler**
has just one critical mission:
To provide you with energy and data transmission systems that will keep your operations up and running 24/7/365.

To contact your nearest sales office, please refer to:
**www.conductix.com/en/contact-search**

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KAT0320-0003b-EN