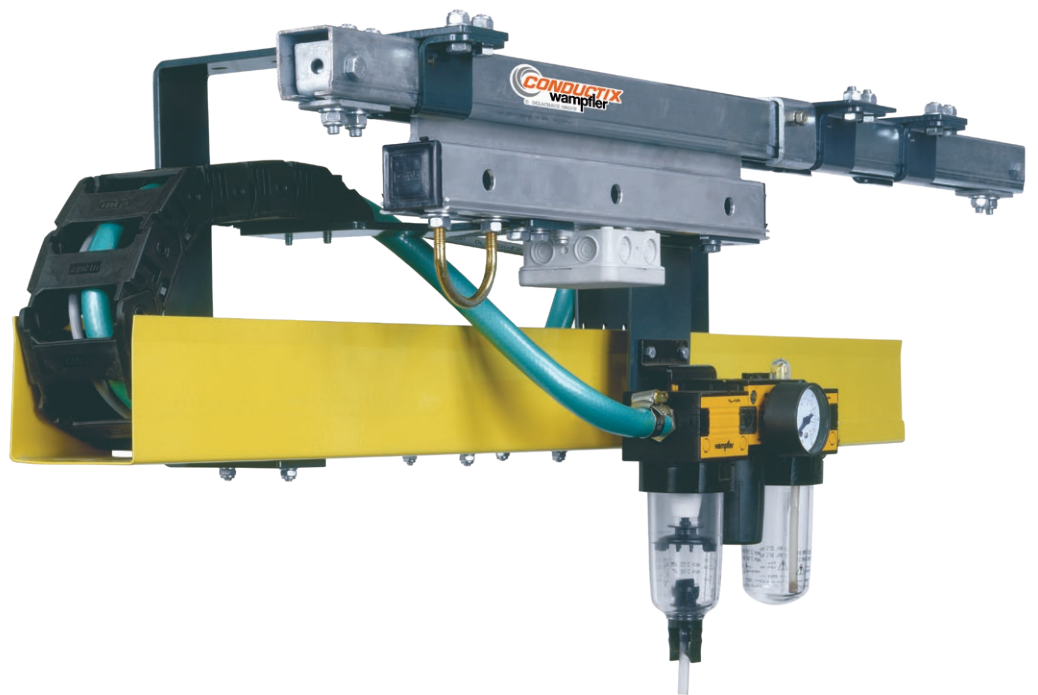


# Besta Power Compressed Air and Electric Supply System

Program C40



**CONDUCTIX**  
wampfler



# Table of Contents

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|  |    |
|--|----|
| <b>Overview</b>                                | 4  |
| Product Description                            | 4  |
| System Overview                                | 4  |
| <hr/>  |    |
| <b>Rail Components</b>                         | 5  |
| General Information                            | 5  |
| Load Diagram                                   | 5  |
| Rail Couplers                                  | 6  |
| Rail Support Brackets                          | 7  |
| End Stops                                      | 7  |
| Suspensions                                    | 8  |
| <hr/>  |    |
| <b>Energy Supply</b>                           | 10 |
| General Information                            | 10 |
| <hr/>  |    |
| <b>Energy Supply via Energy Guiding Chains</b> | 11 |
| Energy Guiding Chains                          | 11 |
| Chain Kit with Supply Lines                    | 11 |
| Guiding Channels                               | 12 |
| Clamping Units                                 | 12 |
| Guiding Plate for Power Feed                   | 12 |
| Aluminum Tool Trolley                          | 13 |
| Suspension Trolley                             | 13 |
| <hr/>  |    |
| <b>Energy Supply via Festoon System</b>        | 14 |
| Festoon System                                 | 14 |
| Components and Part Numbers                    | 14 |
| Layout Tips                                    | 15 |
| Equipment Carrier                              | 16 |
| <hr/>  |    |
| <b>Tool Transporter</b>                        | 17 |
| General Information                            | 17 |
| <hr/>  |    |
| <b>Accessories</b>                             | 18 |
| Braking Skids                                  | 18 |
| Reels, Retractors, and Balancers               | 18 |

# Overview

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## Product Description

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The BestaPower C40 energy supply system provides mobile consumers with a continuous supply of compressed air, electrical energy, and data through an energy guiding chain or festoon system. The modular assembly and flexible attachment options allow for simple and quick installation.

### The main features of BestaPower C40:

- Reliable guiding provided by robust trolleys
- Simple installation using variable brackets
- Compact installation space due to small cross section

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## System Overview

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BestaPower C40 with Energy Guiding Chain



BestaPower C40 with Festoon System

# Rail Components

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## General Information

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The classic Conductix-Wampfler C-rail series is electrogalvanized and available in lengths up to six meters. They can be combined into rail lines of any length. Energy can be supplied either through a festoon system or by attaching a cable chain.

### C-rail 40

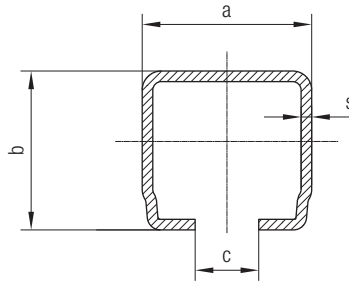
**Part No.:** 145005

**Material:** Steel, electrogalvanized  
(uncoated rails on request)

**Weight:** 2,55 kg/m

**Length:** max. 6 m per rail

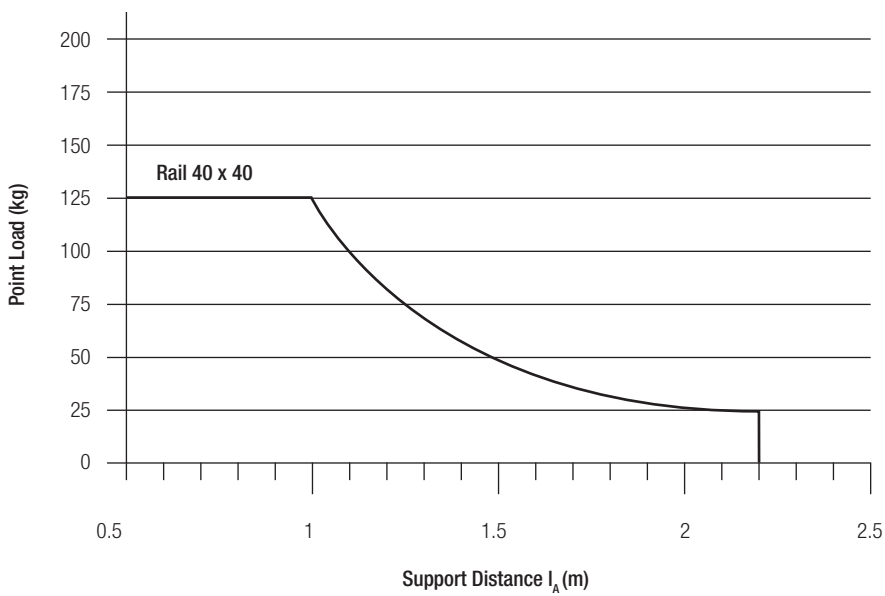
**Dimensions:**  
a – 40 mm  
b – 40 mm  
c – 14 mm  
s – 2.5 mm



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## Load Diagram

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**Max. point load:** 125 kg

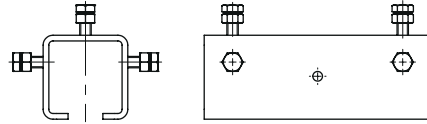
**Max. suspension distance:** 2.2 m

# Rail Components

## Rail Coupler

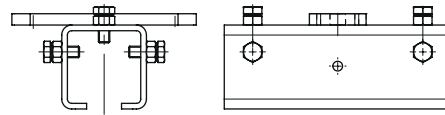
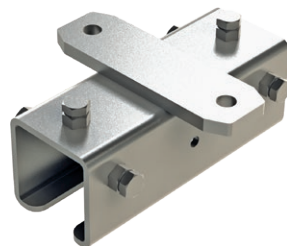
### Rail Coupler – Basic Design

Part No.: 145605  
Material: Steel, electrogalvanized



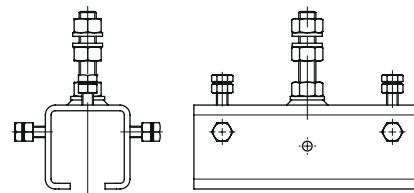
### Rail Coupler with Crosshead

Part No.: 145611  
Material: Steel, electrogalvanized



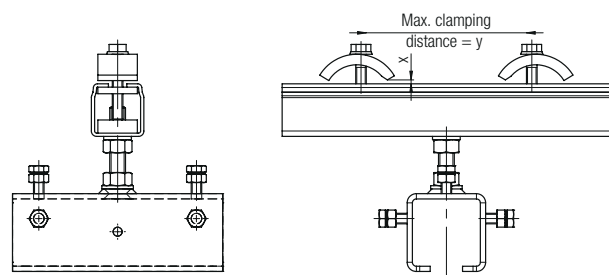
### Rail Coupler with Screw

Part No.: 145625-12  
Material: Steel, electrogalvanized



### Rail Coupler with Support Arm

Part No.: 145641  
Material: Steel, electrogalvanized  
Max. clamping distance:  
x: 6-20 mm  
y: 42-130 mm

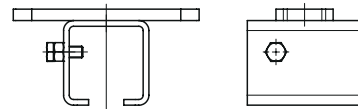


# Rail Components

## Rail Support Bracket

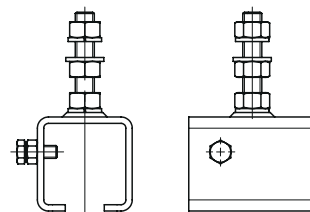
### Rail Support Bracket with Crosshead

Part No.: 145511  
Material: Steel, electrogalvanized



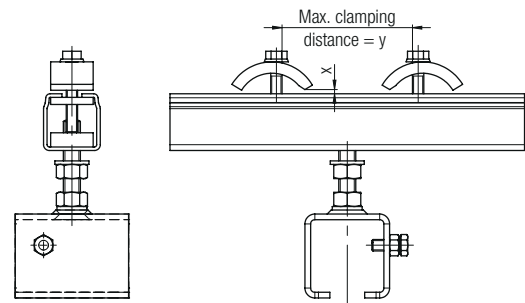
### Rail Support Bracket with Screw

Part No.: 145525-12  
Material: Steel, electrogalvanized



### Rail Support Bracket with Support Arm

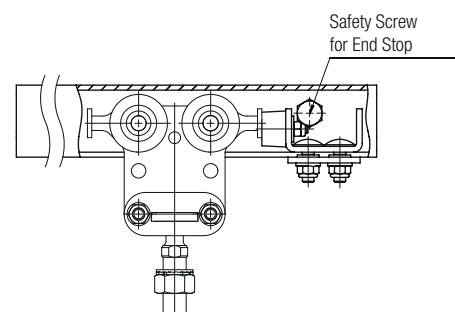
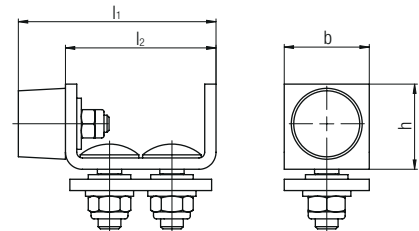
Part No.: 145541  
Material: Steel, electrogalvanized  
Max. clamping distance:  
x: 6-20 mm  
y: 42-130 mm



## End Stops

Part No.: 145500

**Note:**  
End Stops must be secured by a safety screw crosswise to the rail. Safety screw is included in the scope of delivery.



# Rail Components

## Suspensions

In addition to the various mounting options with Rail Support Brackets directly to the ceiling, suspensions often need to be used, e.g on saw-tooth roofs, or under structural steel work.

### Single-point Suspensions

Determining the length of threaded rods (mm):

**Diagram 1 and 2:**  
(for vertical suspension only)

$$L_1 = L_0 - 320$$

**Diagram 2 and 3:**  
(for inclined suspension only)

$$L_2 = \frac{L_0}{\cos \alpha} - 450$$

**Diagram 4:**  $L_3$  and  $L_4$  have to be determined graphically and calculative, depending on the corresponding incline of the ceiling.

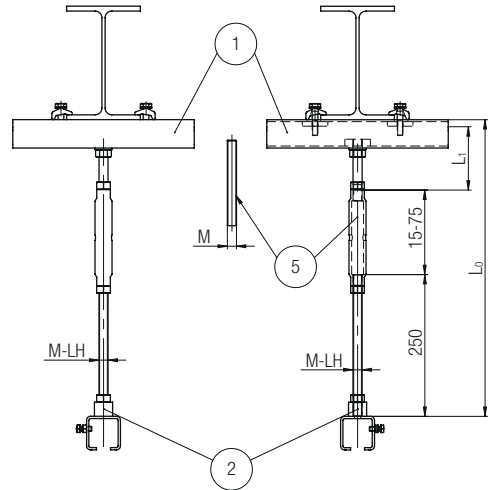


Diagram 1

M-LH = left-handed thread

### V-shaped Suspensions

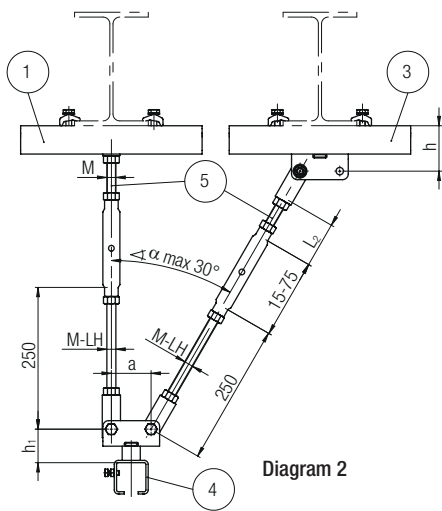


Diagram 2

M-LH = left-handed thread

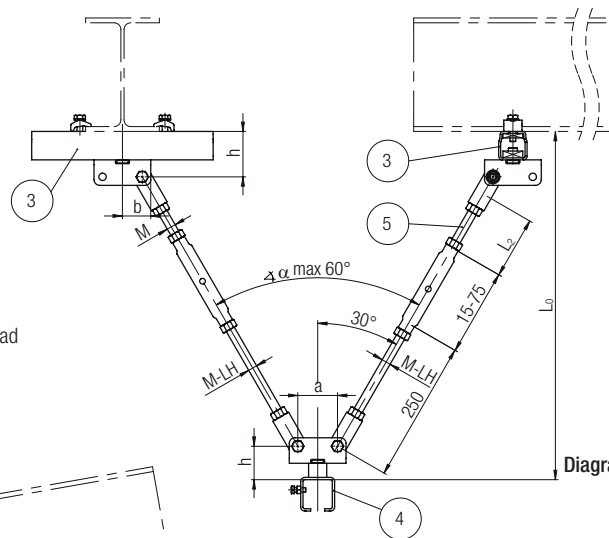


Diagram 3

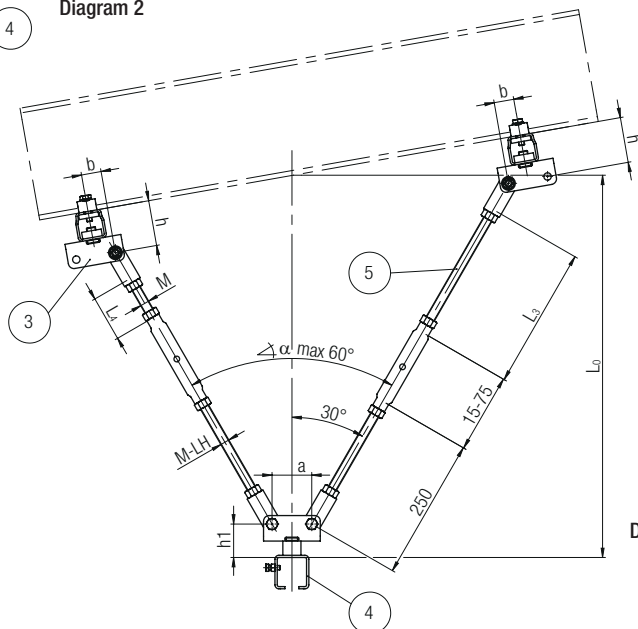


Diagram 4



# Rail Components

## Suspensions

The bottom parts (Positions 2 or 4) can be rotated to adjust the direction of the rails.

**Example Order:** Required suspension according to Diagram 2,  $L_0=1.5$  m for C-Rail 145005, angle  $\alpha = 20^\circ$ , Rail Support Bracket version.

**Part No.:**  
 Pos. ① Suspension, upper part – 145211  
 Pos. ② Suspension, bottom part – 145221-A  
 Pos. ③ Suspension, upper part – 145212  
 Pos. ④ Suspension, bottom part – 145222-A  
 Pos. ⑤ Threaded rod DIN 975-M12 – 145210-3

| Technical Data 40 x 40             |                  |              |             |
|------------------------------------|------------------|--------------|-------------|
|                                    | Description      | Position No. | Part No.    |
| Single-point suspension (vertical) | Upper part       | ①            | 145211      |
|                                    | Bottom part*     | ②            | 145221-A/B  |
|                                    | Threaded rod 3 m | ⑤            | 145210-3    |
| V-shaped suspension (inclined)     | Upper part       | ③            | 145212      |
|                                    | Bottom part*     | ④            | 145222- A/B |
|                                    | Threaded rod 3 m | ⑤            | 145210-3    |
| Dimensions (mm)                    | h                |              | 90          |
|                                    | $h_1$            |              | 60          |
|                                    | M                |              | M12         |
|                                    | a                |              | 60          |
|                                    | b                |              | 30          |

Standard delivery length of threaded rods is 3 m. Cut to desired length before installation.

\* Bottom parts ② and ④ are available in the following versions: a) Rail Support Bracket = A, b) Rail Coupler = B

**Note:** It is vital to state Version A or B when ordering! These bottom parts are delivered with turnbuckles.

## Rail Suspension on Concrete Ceilings

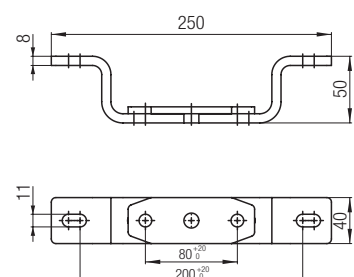
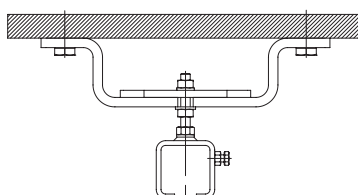
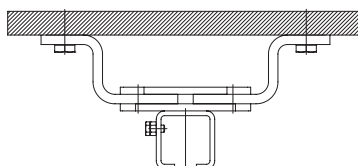
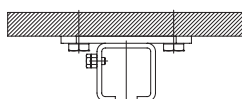
When mounted directly on the ceiling, the possibility to adjust the level of the rail track is limited (stiffener plates necessary). Use of Rail Couplers is restricted.

Using Brackets allows for versatile mounting and alignment options.

**Part No. 145241**  
 (Rail Support Brackets are not included in the scope of delivery)

**Note:**  
 When mounting the Rail Suspensions directly below the ceiling, Suspensions have to be shimmed to allow for clamping of the Rail Suspension on the back of the rail. We therefore recommend using our Bracket.

**We recommend verification of the load capacity of the ceilings or structural steel work by a structural engineer.**



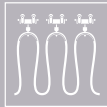









# Energy Supply

## General Information

There are two different energy supply systems available for the C40 system. These free workplaces from cables and hoses and guide energy to mobile consumers without restriction. Both systems are suitable for the supply of electric and pneumatic energy as well as data transmission.

With the festoon system, the cables and/or hoses are attached to special cable trolleys, which are in turn guided along the rails. This permits the cables/hoses to be guided safely along rails overhead. With the energy guiding chain, the cables and hoses are arranged compactly and safely within a chain. The "reeling out and in" of the chain allows energy to be guided wherever it is needed.

The two systems differ in various characteristics:

|                                      | Festoon System  | Energy Guiding Chain  |
|--------------------------------------|---|---|
|                                      |    |    |
| <b>Advantages / Features</b>         |   |   |
| <b>Pneumatic Energy Supply</b>       |   |   |
| <b>Electrical Energy Supply</b>      |  |  |
| <b>No Restoring Forces</b>           |   |  |
| <b>No Cable Loops</b>                |   |  |
| <b>Full use of the Workspace</b>     |   |  |
| <b>Simple Service and Conversion</b> |  |  |
| <b>Pressure Loss Factor *</b>        | 3   | 1   |
| <b>Installation Time Factor *</b>    | 3   | 2   |

\* 1 = very low 2 = average 3 = considerable

# Energy Supply

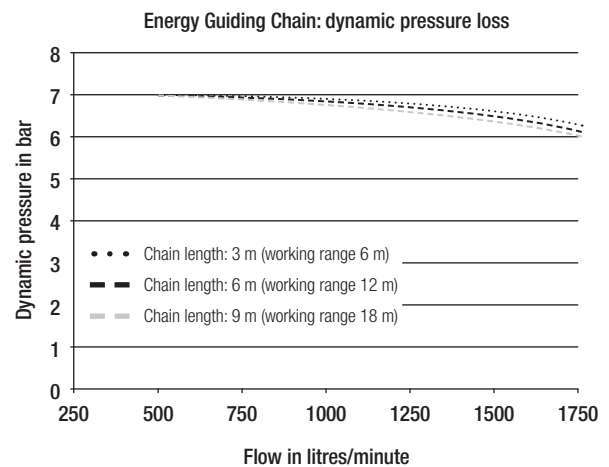
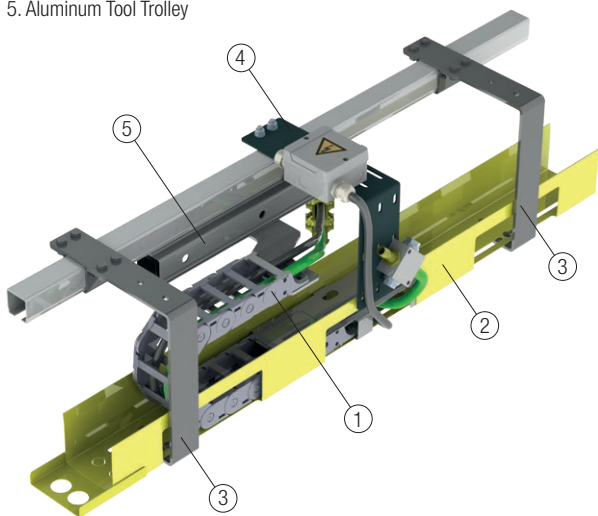
## Energy Guiding Chain

The energy guiding chain permits continuous energy supply throughout the workspace. In addition to compressed air hoses, electric and data lines can be safely guided to the consumer. The use of energy guiding chains frees the area around the worker's head from distracting cable slack.

The energy guiding chain, fed at the centre of the cycle, allows for more efficient use of compressed air than with normal festoon or spiral hose systems, as shorter hoses can be used.

The energy guiding chain consists of the following components:

1. Chain Kit with Supply Lines
2. Guiding Channel
3. Clamping Unit
4. Guiding Plate for Power Feed
5. Aluminum Tool Trolley



The graph above shows the pressure loss of an energy guiding chain using a 1/2" compressed air hose at an operating pressure of 7 bar.

The pressure loss from the traverse trolley to the consumer or the downstream systems must be added to this in each case.

## Energy Guiding Chain – Chain Kit with Supply Lines

In general, a chain kit includes the energy guiding chain with supply lines and the necessary elements for its attachment. Depending on the supply line, the energy guiding chain allows a later elongation. Standard chain kits can be custom-configured with respect to length and desired supply lines.

**Part No.:** 047735#

**Length:** Chain is adjusted to fit the cycle. Maximum cycle length: 18 m

**Possible supply lines:** Compressed air hose with 1/2" inner diameter

Electric cable: 3 x 2.5 mm<sup>2</sup> or 5 x 2.5 mm<sup>2</sup>

Data lines, cables with UL approval and other supply line options upon request

### Technical features of chains

**Outside measurements, chain:** 79 x 35 mm

**Inside measurements, chain:** 62 x 26 mm

**Minimum bending radius:** 70 mm

**Material:** PA

### Possible components:

- Chain Actuator
- Traversing plate
- 1/2" hose and/or electric cable
- Hose/cable connection length is configurable and can be cut to fit during installation
- For electric cable: terminal boxes with mounting material
- Accessories for attaching the energy guiding chain



# Energy Supply

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## Energy Guiding Chain – Guiding Channel

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The guiding channels carry and guide the chain kit. The number of guiding channels needed is based on the length of the assembly line. The channels are connected endwise using a connection plate.

**Part No.:**

**3-meter length: 047750-03,0**

**2-meter length: 047750-02,0**

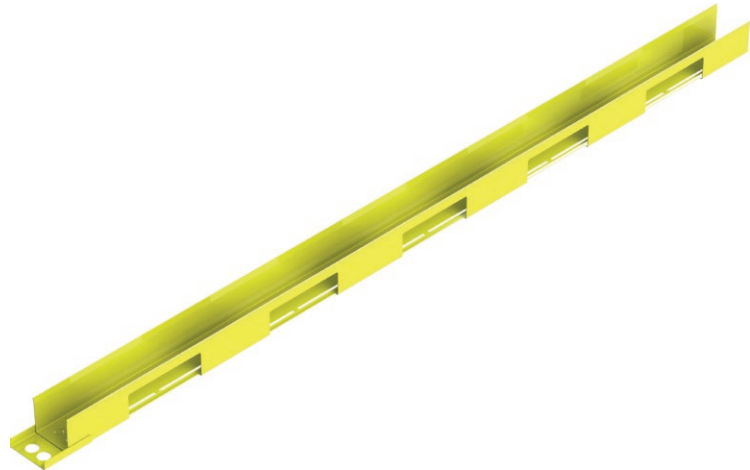
**1-meter length: 047750-01,0**

**Material:** powder coated steel

**Color:** RAL 1012, lemon yellow

Other colors available on request.

For fast-moving chains, a guide plate can optionally be attached to the bracket as a rise limiter (not shown).



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## Energy Guiding Chain – Clamping Units

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Clamping units are used to fix the guiding channel onto the c-rail.

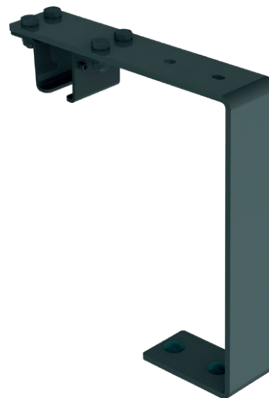
The track support brackets contain already all accessories needed to fix the guiding channel. They can also be connected to an existing system. The distance between two clamping units should not be greater than 1.5 m to make sure that the system runs smoothly.

**Part No.:** 047760-40-0235-7016

**Material:** Steel, epoxy-coated

**Color:** RAL 7016, anthracite grey

Delivery includes mounting material



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## Energy Guiding Chain – Guiding Plate for Power Feed

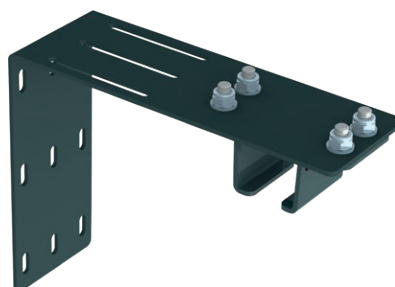
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In addition to the guiding channel, a feeding bracket is also available. This is mounted on the rail next to the feed point of the energy guiding chain. Hoses and cables can be attached to the feeding bracket to guide them to the feeding point.

**Part No.:** 047765-40-0235-7016

**Material:** Steel, epoxy-coated

**Color:** RAL 7016, anthracite grey



# Energy Supply

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## Energy Guiding Chain – Aluminum Tool Trolley

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The tool trolleys are directly connected via the chain actuator of the chain kit to the energy guiding chain. This direct connection ensures a permanent use of energy within the whole system.

The trolley has a standard C-rail slot on the bottom side to which individual accessories such as maintenance units, balancers and more can be attached.

The trolley has a standard length of 400 mm and comes with smooth running Lauramit rollers. Other lengths and steel rollers are available on request.

**Part No.:** 047770-40-0400  
**Material:** Aluminum  
**Main roller:** Lauramit  
**Counterpressure roller:** Lauramit  
**Load capacity:** 100 kg



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## Energy Guiding Chain – Suspension Trolleys

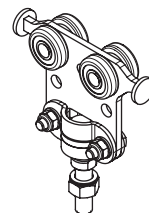
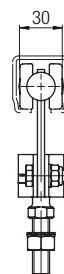
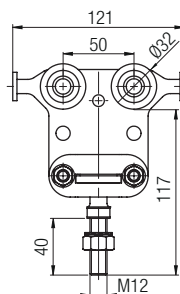
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Alternatively to the tool trolleys are suspension trolleys connectable to the energy guiding chain.

These are preferably used as parts of a tool transporter (see page 17) or in case of special applications where higher load capacities are needed. Please contact us in case of such requests.

### Suspension Trolley – Standard

**Part No.:** 145020-12B  
**Material:** Galvanized steel  
**Main roller:** Steel  
**Load capacity:** 100 kg



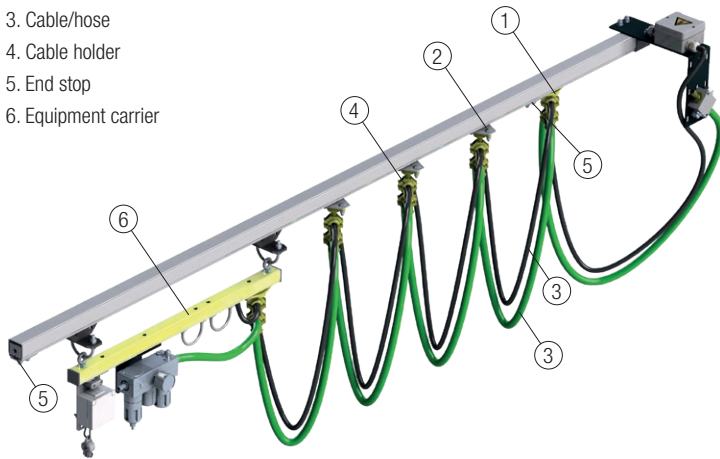
# Energy Supply

## Festoon System

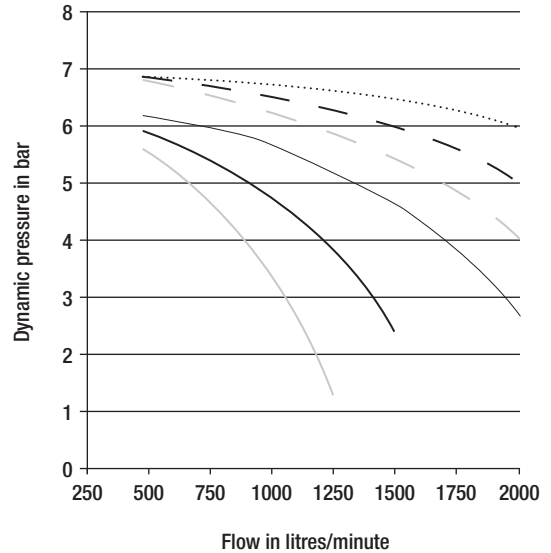
For short to medium cycle lengths and low compressed air usage, a festoon system is another possible alternative.

The following components are part of the festoon system:

1. End clamp
2. Cable trolley
3. Cable/hose
4. Cable holder
5. End stop
6. Equipment carrier



Festoon System: dynamic pressure loss



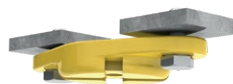
The graph to the right shows the pressure loss in a festoon system using a 1/2" or 3/8" compressed air hose at an operating pressure of 7 bar. The pressure loss from the traverse trolley to the consumer or the downstream systems must be added in each case.

- |       |  |    |  |
|-------|--|----|--|
| ..... | 1/2" - hose length: 9 m<br>(6 m working range)   | —— | 3/8" - hose length: 9 m<br>(6 m working range)   |
| ---   | 1/2" - hose length: 18 m<br>(12 m working range) | —— | 3/8" - hose length: 18 m<br>(12 m working range) |
| ---   | 1/2" - hose length: 27 m<br>(18 m working range) | —— | 3/8" - hose length: 27 m<br>(18 m working range) |

## Festoon System – Components and Part Numbers

### End Clamp

**Part No.:** 024312  
**Material:** Steel, plastic



### Cable Trolley with Ball Joint

**Part No.:** 024313-80  
**Material:** Galvanized steel, plastic  
Ball bearings, galvanized with ZZ seal  
**Load capacity:** 20 kg



### Cable Trolley with Bracket and Buffers

**Part No.:** 024320-125  
**Material:** Galvanized steel  
Ball bearings, galvanized with ZZ seal  
**Load capacity:** 32 kg



# Energy Supply

## Festoon System – Components and Part Numbers

### Cable holder for attachment to ball joint

**Part No.:** 020131-16 (for cable diameter 10 – 17 mm)

**Part No.:** 020131-25 (for cable diameter 17 – 25 mm)

**Material:** Cable holder: plastic  
Connection elements: galvanized steel



For end clamp (048926) and cable trolley (048951) as well as for the attachment of a second cable/hose under cable holder 020131-16...25 and 020133-16...25

### Cable holder for attachment to clips

**Part No.:** 020133-16 (for cable diameter 10 – 17 mm)

**Part No.:** 020133-25 (for cable diameter 17 – 25 mm)

**Material:** Cable holder: plastic  
Connection elements: galvanized steel



For cable trolleys with hoop 048951-001. To be used for compressed air hoses > 3/8" or for multiple supply lines.

| Electric Cables                              | Round Cable TG 3G2.5    | Round Cable TG 5G2.5    |                           |
|--|-------------------------|-------------------------|---------------------------|
| <b>Part No.:</b>                             | 131210-R3G2,5#          | 131210-R5G2,5#          |                           |
| <b>Outside diameter:</b>                     | 10.9 – 14 mm            | 13.3 – 17 mm            |                           |
| <b>Max. voltage:</b>                         | 430/750 V               | 430/750 V               |                           |
| <b>Strand count/conductor cross-section:</b> | 3 x 2.5 mm <sup>2</sup> | 5 x 2.5 mm <sup>2</sup> |                           |
| <b>Sheathing material:</b>                   | Rubber                  | Rubber                  |                           |
| <b>Protective conductor:</b>                 | Yes                     | Yes                     | Other cables upon request |

| Compressed Air Hoses           | Hose DN10 (7/8") | Hose DN13 (1/2") |                          |
|--------------------------------|------------------|------------------|--------------------------|
| <b>Part No.:</b>               | 040421-2         | 040421-3         |                          |
| <b>Part No. of hose clip:</b>  | 040443-4         | 040443-6         |                          |
| <b>Part No. of hose clamp:</b> | 040435-20        | 040435-20        |                          |
| <b>Nominal pressure:</b>       | 20 bar           | 20 bar           |                          |
| <b>Medium:</b>                 | Compressed air   | Compressed air   |                          |
| <b>Inner diameter:</b>         | 10 mm            | 13 mm            |                          |
| <b>Outside diameter:</b>       | 15 mm            | 19 mm            |                          |
| <b>Material:</b>               | PUR              | PUR              | Other hoses upon request |

## Festoon System – Layout Tips

If the festoon system requires special adjustment, please contact us directly. You can also find additional instructions in our catalogue 0240 "Festoon Systems for C-rails". The following rules of thumb apply for simple layout and quantity calculations:

- Number of end stops: 2 per cycle
- Number of end clamps: 1 per cycle
- Number of cable trolleys: Cycle length / 1.6
- Number of cable holders: Number of end clamps + number of cable trolleys (for two hoses/cables or a cable and a hose, this number must be doubled)
- Length of hose/cable: Cycle length x 1,25 + connection length

For this layout, a cable trolley depot of about 10% of the cycle length is also needed to buffer the trolleys. The cable slack is approx. 0.75 m.

### Example:

4 cycles, each with a cycle length of 15 metres, should support one pneumatic and one electric energy supply each.

The connection lengths from the festoon system to the feed are each 2 m.

|                           |  |
|---------------------------|--|
| Number of end stops:      | 4 x 2 per cycle = 8 units                      |
| Number of end clamps:     | 4 x 1 per cycle = 4 units                      |
| Number of cable trolleys: | 4 x 15 / 1.6 = 36 units                        |
| Number of cable holders:  | (4 + 36) x 2 = 80 units                        |
| Number/length of hoses:   | 4 x (15 x 1,25 + 2) = 4 hoses of 20,75 m each  |
| Number/length of cables:  | 4 x (15 x 1,25 + 2) = 4 cables of 20,75 m each |

# Energy Supply

## Festoon System – Equipment Carrier

**Part No.:** 047254  
**Material:** Steel, coated  
**Main roller:** Steel  
**Load capacity [kg]:** 50  
**Compressed air connection:** 1 x G3/8"  
**Length [mm]:** 500  
**Traverse color:** RAL 1012, lemon yellow  
**Components:** End Clamp with Cable Holder, 1 x Bracket



**Part No.:** 047255  
**Material:** Steel, coated  
**Main roller:** Steel  
**Load capacity [kg]:** 50  
**Compressed air connection:** 2 x G3/8"  
**Length [mm]:** 500  
**Traverse color:** RAL 1012, lemon yellow  
**Components:** End Clamp with Cable Holder, 2 x Bracket, 2 x Reduction G3/8" to G1/4"



**Part No.:** 047281  
**Material:** Steel, coated  
**Main roller:** Steel  
**Load Capacity [kg]:** 50  
**Compressed Air Connection:** 1 x G3/8"  
**Electrical Connection:** 1 x 230 V  
**Current load:** 10/16 A  
**Length [mm]:** 630  
**Traverse colour:** RAL 1012, lemon yellow  
**Components:** End Clamp with 2 x Cable Holder, 2 x Bracket, Reduction G3/8" to G1/4", Power Socket 230 V 10/16 A



**Part No.:** 047272  
**Material:** Steel, coated  
**Main roller:** Steel  
**Load Capacity [kg]:** 50  
**Compressed Air Connection:** -  
**Electrical Connection:** 2 x 230 V  
**Current load:** 10/16 A  
**Length [mm]:** 630  
**Traverse colour:** RAL 1012, lemon yellow  
**Components:** End Clamp with Cable Holder, 2 x Bracket, Power Socket 2 x 230 V 10/16 A





# Tool Transporter

## General Information

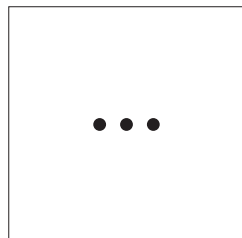
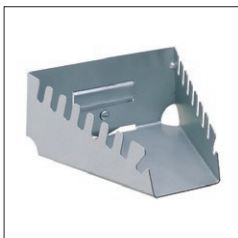
Optimize your workstations with a customised tool transporter. This makes your tools, hardware and power easily accessible and close at hand without cable clutter and trip hazards. Your workstations become more ergonomic, safer and more economical.

We individually make your tool transporter for you and your application. We start with a base frame of aluminum groove profile, which you can customize to your individual working height using the option of height and width adjustment, and to the particular application.

You can put together your perfect tool transporter from a wide range of components. By virtue of the groove profile, these can be flexibly and quickly attached to the base frame. This also makes it easy to install additional components at a later date. Electrical and/or compressed-air connections can be integrated as desired.

The tool transporter can be rotated at will, so you can access your tools from any side. The tool transporter is supplied fully assembled with the requested components.

The carrying capacity of the tool transporter including its dead weight is 125 kg.



# Accessories

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## Braking Skids

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The braking skids are inserted between 2 runners in the C rail, thus preventing any unwanted movement in both directions. The braking skids do not completely brake the bars, but can be moved.

**Part No.:** 024784

**Braking force:** 1-2 [kN]

**Material:** Plastic

**Connection elements:** Galvanised Steel

**Weight:** 0.1 [kg]



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## Reels, Retractors, and Balancers

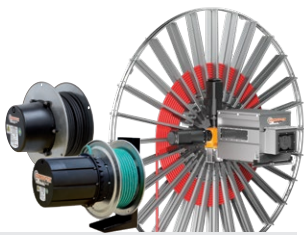
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Whether for hoses or cables, as classical reels or high-precision positioning aids for tools – reels and retractors from Conductix-Wampfler take the load off your shoulders. You can find the complete product range in catalogue 0402-0002-E “Reels/Retractors/Balancers”, or online at [www.conductix.com](http://www.conductix.com)



# 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.



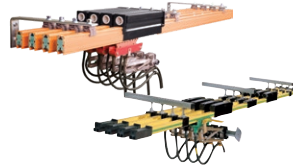
## Cable and Hose Reels

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.



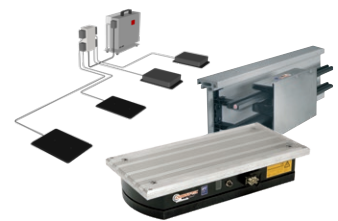
## Festoon Systems

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.



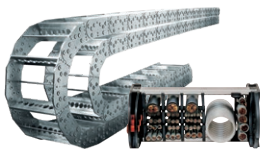
## Conductor Rails

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 – whether 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.contact](http://www.conductix.contact)**

