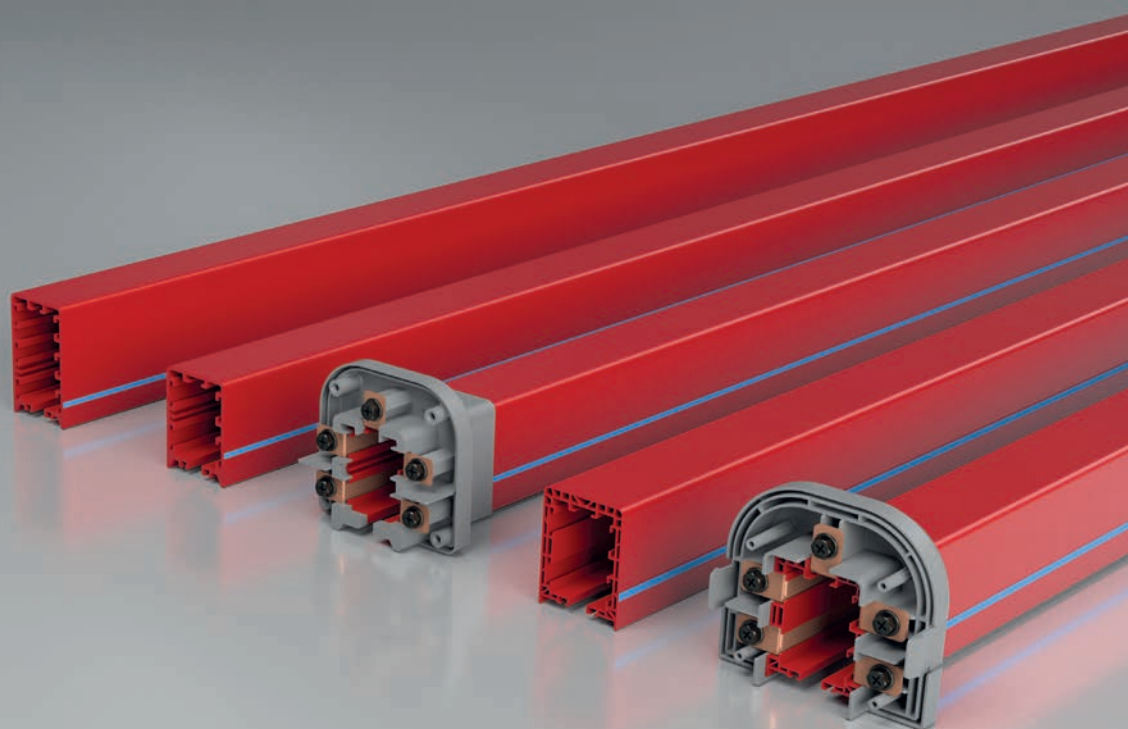




# E-LINE TROLLEY BUSBAR

Trolley Busbar Systems



# **E-LINE TROLLEY BUSBAR**

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[www.eaelectric.com](http://www.eaelectric.com)



## EAE Group in numbers;



**1973**

year of foundation

Founded in 1973, EAE Elektrik A.S. being the parent company of EAE Group is a worldwide manufacturer of electrical products.

Founded : in 1973

Closed Manufacturing Area : 280.000m<sup>2</sup>

Range of Products : Busbar Power Distribution Systems  
Lighting Busbar Systems  
Cable Tray Systems  
Underfloor Trunking  
Trolley Busbar Systems

Companies : EAE Elektrik  
EAE Aydınlatma  
EAE Elektroteknik  
EAE Teknoloji  
EAE Makina

Number of Plants : 5



**280.000m<sup>2</sup>**

closed manufacturing  
area



**5**

manufacturing  
plants

"Lean Production" and "Innovative and Customer Driven Product Development" approaches are the key values utilized in designing and manufacturing the product families in compliance with ISO 9001, ISO 14001, OHSAS 18001 and ISO 27001.



**3**

R&D Centers

EAE Elektrik A.S. busbar products are certified by KEMA/DEKRA (Holland), KEMA - KEUR, UL classified laboratories as per IEC 61439-1/6 standards.



**100+**

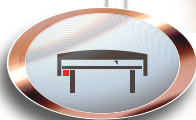
countries of export



• Bridge Cranes



• Monorail Systems



• Textile Cutting and Spreading Tables



• AS/RS Storage Systems

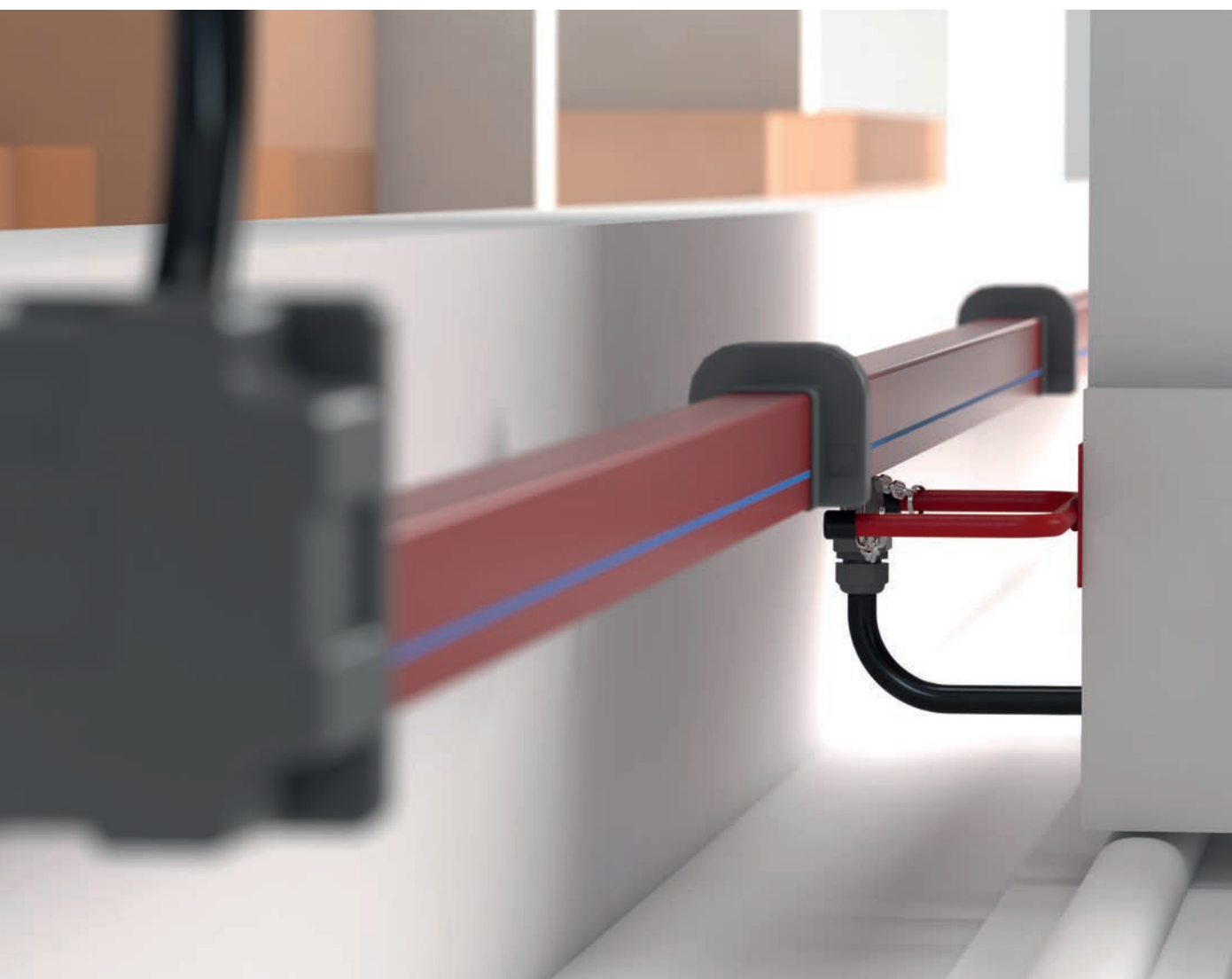


• Moving Ceiling and Door Systems



• Assembly and Test Lines

# E-LINE TBE



# E-LINE TBE

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# CONTENTS

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## ►► E-LINE TBE

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|                                                   |     |
|---------------------------------------------------|-----|
| Trolley Busbar Systems .....                      | 2   |
| Order Code System .....                           | 3   |
| TBE PVC Housing .....                             | 4   |
| TBE Feeder Unit .....                             | 5-6 |
| TBE Current Collector .....                       | 7-8 |
| System Components .....                           | 9   |
| Voltage Drop, Calculation Of Feeding Points ..... | 10  |
| TBE Trolley Busbar Installation Manual .....      | 11  |

## ►► TROLLEY BUSBAR SYSTEMS

- Bridge Cranes
- Monorail Systems
- Textile Cutting and Spreading Tables
- AS/RS Storage Systems
- Moving Ceiling and Door Systems
- Assembly and Test Lines

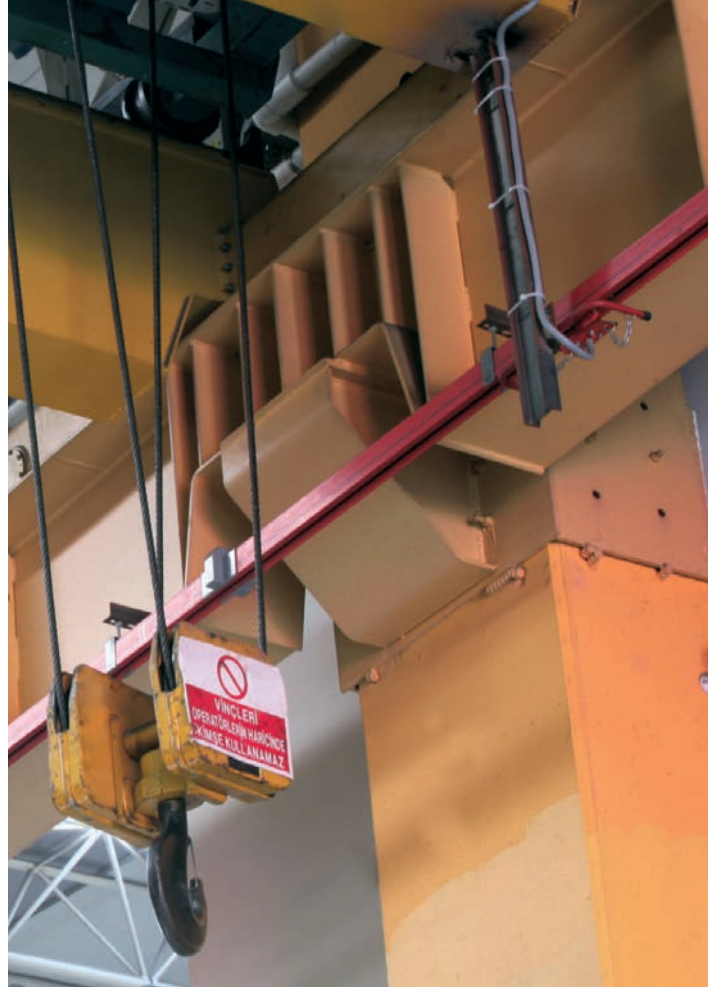
It consists of copper conductors and current collectors in the C-PVC body. The uninterrupted energy supply and movement of the system is provided by current collectors connected to the system mechanically.

The eliminates the possibilities such as accident, malfunction in energy distribution with suspended and reel cable in conventional systems. Conductors are enclosed in C-PVC housing and personnel safety is maximized.

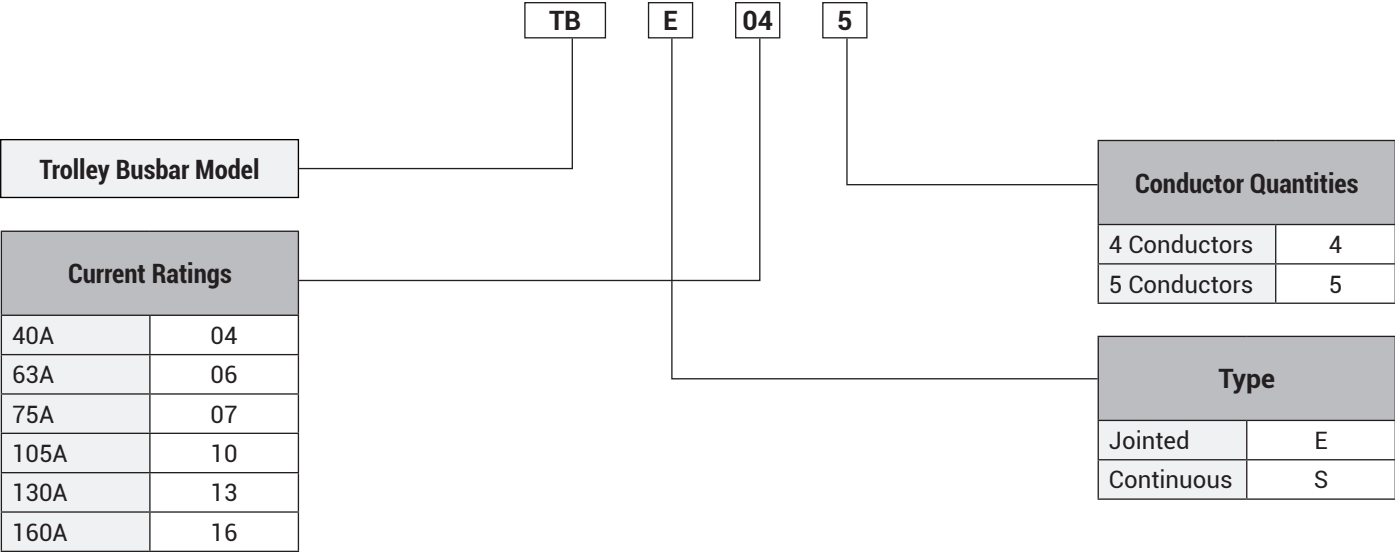
There is no fixed connection between the conductor housings and the conductors and between the C-PVC housing and the sliding hangers, the necessary expansion opportunity is provided, therefore the expansion element is unrequired.

### **Cautions:**

If it is used in external environments exposed to rain, it is recommended to protect it with a cover such as a canopy.

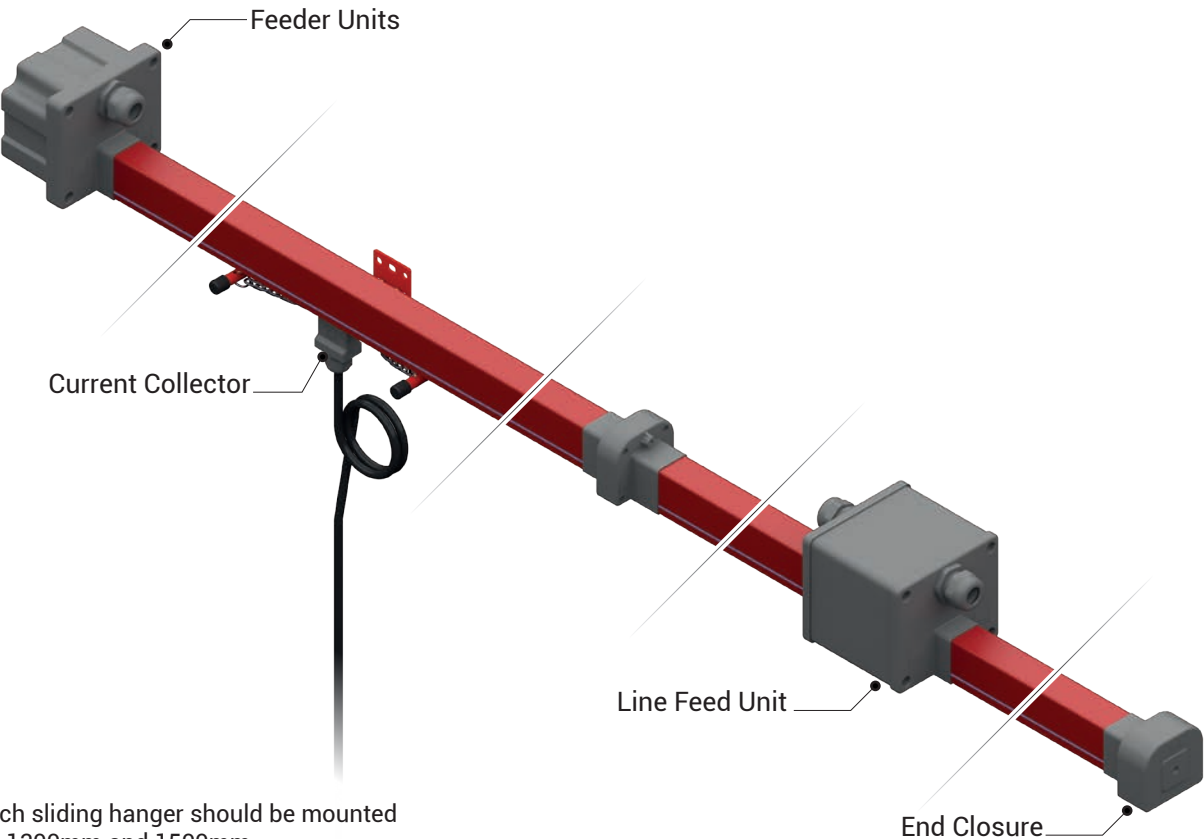


ORDER CODE SYSTEMS



TECHNICAL FEATURES

|                       |            |       |       |       |       |       |       |
|-----------------------|------------|-------|-------|-------|-------|-------|-------|
| Rated Current         | (A)        | 40    | 63    | 75    | 105   | 130   | 160   |
| Conductor Quantities  | (pcs)      | 4-5   | 4-5   | 4-5   | 4-5   | 4-5   | 4-5   |
| Rated Voltage         | (AC) (V)   | 690   | 690   | 690   | 690   | 690   | 690   |
| Dielectric Properties | (kV/mm)    | 30    | 30    | 30    | 30    | 30    | 30    |
| Frequency             | (Hz)       | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Resistance (20°C)     | R20 (mΩ/m) | 1,300 | 1,240 | 1,150 | 0,780 | 0,600 | 0,450 |
| Resistance (35°C)     | R35 (mΩ/m) | 1,420 | 1,425 | 1,340 | 0,910 | 0,700 | 0,530 |
| Reactance             | X (mΩ/m)   | 0,160 | 0,130 | 0,110 | 0,130 | 0,130 | 0,110 |
| Impedance             | Z (mΩ/m)   | 1,429 | 1,431 | 1,35  | 0,919 | 0,712 | 0,541 |
| Standard Length       | (m)        | 4     | 4     | 4     | 4     | 4     | 4     |



Note: Each sliding hanger should be mounted between 1300mm and 1500mm.

## ►► TBE TROLLEY BUSBAR



- **Number of Conductors:** 4 or 5 conductors
- **Colour:** Red.
- **Temperature range:** -40°C , +55°C.
- **Standard housing length:** 4 meters.
- **Protection:** IP24
- **Non-Flammable Characteristics:** UL 94 V0
- Housing is made of C-PVC and plastic accessories are made of PA6 raw material.
- There is a neutral line on the housing the neutral conductor.
- There is a neutral line on the housing the neutral conductor.

The housing has a structure that can use maximum 5 conductors. There is safety system that prevents the current collector to be fixed inversely.

### Standard 4 Meters

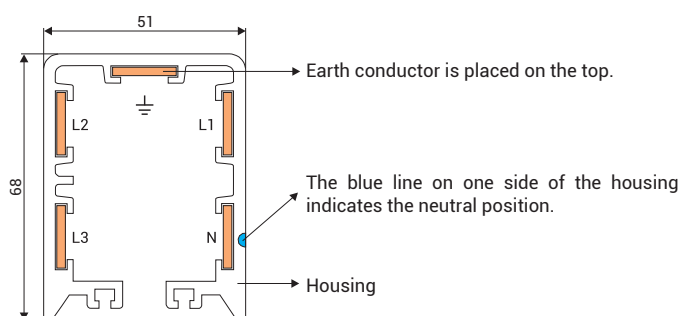
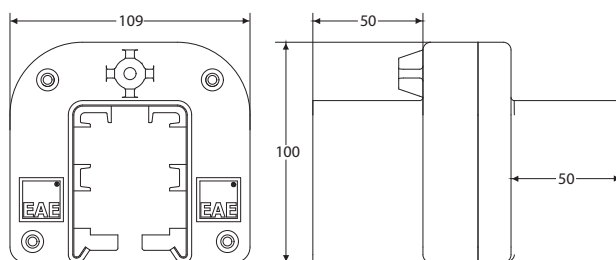
| Model   | Conductors Quantity-Current (A) | Weight (gr/m) | Conductor Cross Section (mm <sup>2</sup> ) | Order Code |
|---------|---------------------------------|---------------|--------------------------------------------|------------|
| TBE 044 | 4P - 40A                        | 1950          | 4x11,20                                    | 3024446    |
| TBE 064 | 4P - 63A                        | 2000          | 4x12,80                                    | 3179770    |
| TBE 074 | 4P - 75A                        | 2100          | 4x16,00                                    | 3024449    |
| TBE 104 | 4P - 105A                       | 2250          | 4x24,00                                    | 3024447    |
| TBE 134 | 4P - 130A                       | 2650          | 4x32,00                                    | 3024448    |
| TBE 164 | 4P - 160A                       | 2900          | 4x40,00                                    | 3158671    |
| TBE 045 | 5P - 40A                        | 2100          | 5x11,20                                    | 3024435    |
| TBE 065 | 5P - 63A                        | 2150          | 5x12,80                                    | 3179771    |
| TBE 075 | 5P - 75A                        | 2200          | 5x16,00                                    | 3024436    |
| TBE 105 | 5P - 105A                       | 2550          | 5x24,00                                    | 3024437    |
| TBE 135 | 5P - 130A                       | 2950          | 5x32,00                                    | 3024438    |
| TBE 165 | 5P - 160A                       | 3250          | 5x40,00                                    | 3164949    |

### Special Length 1 or 2, 3 Meters

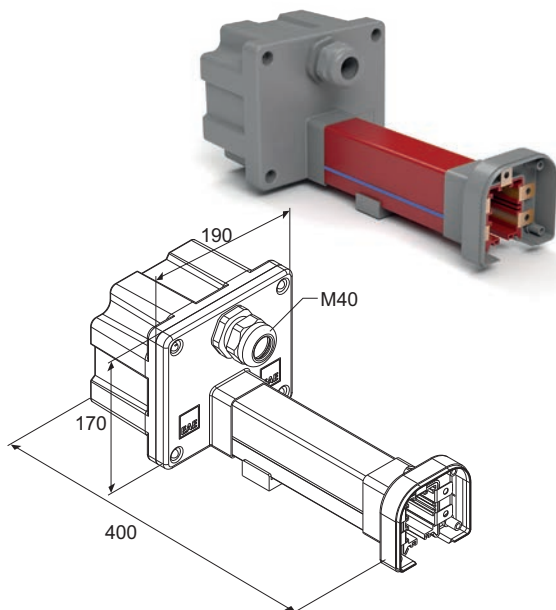
| Model   | Conductors Quantity-Current (A) | Weight (gr/m) | Conductor Cross Section (mm <sup>2</sup> ) | Order Code |
|---------|---------------------------------|---------------|--------------------------------------------|------------|
| TBE 044 | 4P - 40A                        | 1950          | 4x11,20                                    | 3024473    |
| TBE 064 | 4P - 63A                        | 2000          | 4x12,80                                    | 3179774    |
| TBE 074 | 4P - 75A                        | 2100          | 4x16,00                                    | 3024475    |
| TBE 104 | 4P - 105A                       | 2250          | 4x24,00                                    | 3024477    |
| TBE 134 | 4P - 130A                       | 2650          | 4x32,00                                    | 3024479    |
| TBE 164 | 4P - 160A                       | 2900          | 4x40,00                                    | 3158668    |
| TBE 045 | 5P - 40A                        | 2100          | 5x11,20                                    | 3024474    |
| TBE 065 | 5P - 63A                        | 2150          | 5x12,80                                    | 3179775    |
| TBE 075 | 5P - 75A                        | 2200          | 5x16,00                                    | 3024476    |
| TBE 105 | 5P - 105A                       | 2550          | 5x24,00                                    | 3024478    |
| TBE 135 | 5P - 130A                       | 2950          | 5x32,00                                    | 3024480    |
| TBE 165 | 5P - 160A                       | 3250          | 5x40,00                                    | 3164946    |

Joint plastics are not included in the weight values.  
Total weight of the joint plastics and bolts is 0.27 Kg.

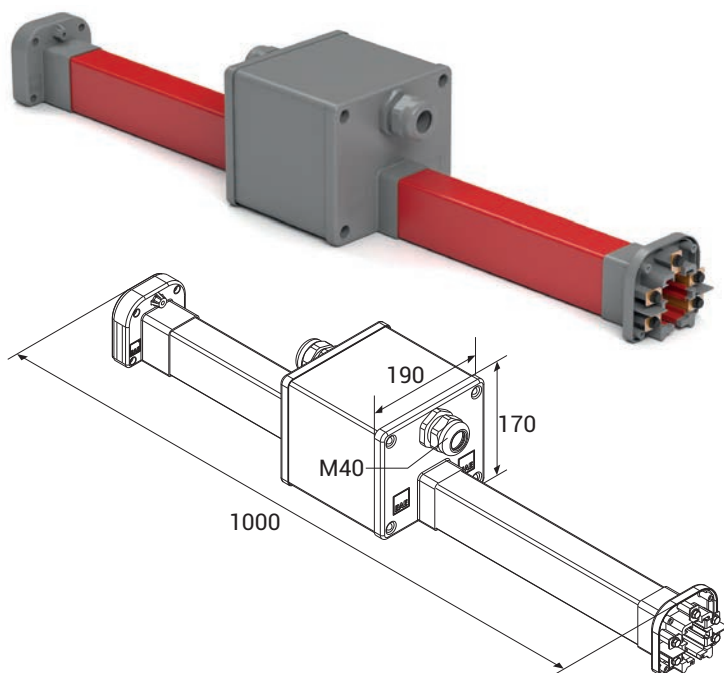
| Description        | Weight (gr/m) | Order Code |
|--------------------|---------------|------------|
| TB5 Trolley Busbar | 1250          | 2037290    |



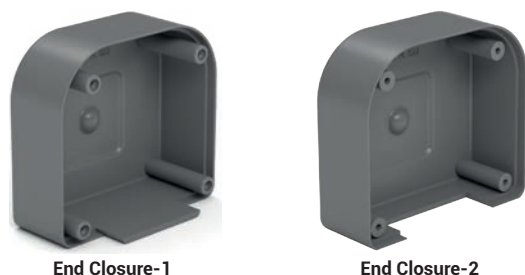
## ►► TBE FEEDER UNITS



## ►► TBE LINE FEED UNITS



## ►► TBE END CLOSURE



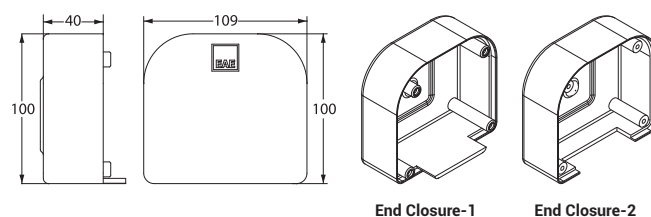
The end closure placed on the end of the busbar line prevents the exposure of the conductors, and protects the system.

| Model   | Conductors<br>Quantity-Current<br>(A) | Weight<br>(gr) | Conductor<br>Cross Section<br>(mm <sup>2</sup> ) | Order<br>Code |
|---------|---------------------------------------|----------------|--------------------------------------------------|---------------|
| TBE 044 | 4P - 40A                              | 1250           | 4x11,20                                          | 3024431       |
| TBE 064 | 4P - 63A                              | 1300           | 4x12,80                                          | 3179768       |
| TBE 074 | 4P - 75A                              | 1350           | 4x16,00                                          | 3024432       |
| TBE 104 | 4P - 105A                             | 1400           | 4x24,00                                          | 3024433       |
| TBE 134 | 4P - 130A                             | 1500           | 4x32,00                                          | 3024434       |
| TBE 164 | 4P - 160A                             | 1600           | 4x40,00                                          | 3158669       |
| TBE 045 | 5P - 40A                              | 1300           | 5x11,20                                          | 3024459       |
| TBE 065 | 5P - 63A                              | 1350           | 5x12,80                                          | 3179769       |
| TBE 075 | 5P - 75A                              | 1400           | 5x16,00                                          | 3024423       |
| TBE 105 | 5P - 105A                             | 1500           | 5x24,00                                          | 3024424       |
| TBE 135 | 5P - 130A                             | 1600           | 5x32,00                                          | 3024445       |
| TBE 165 | 5P - 160A                             | 1700           | 5x40,00                                          | 3164947       |

Type of the feeding element is selected by calculating the voltage drop and the location of the power supply that shall provide power to the system.

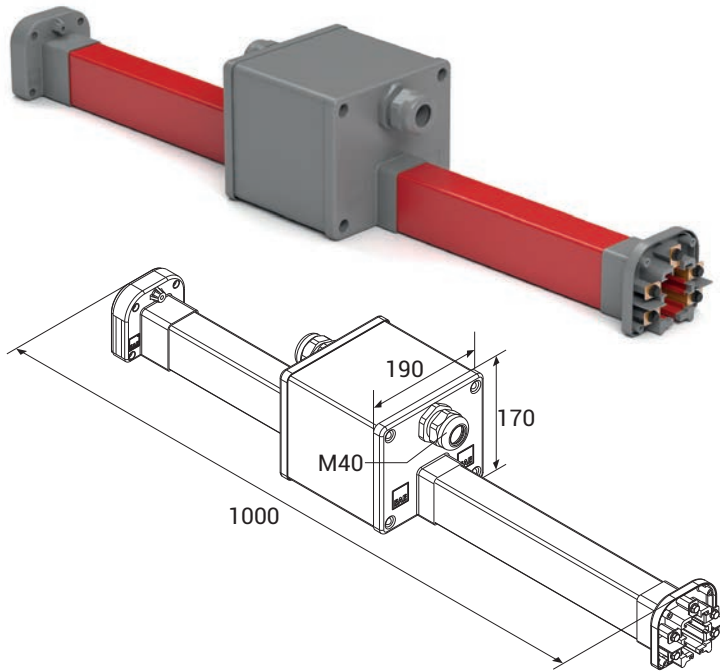
| Model   | Conductors<br>Quantity-Current<br>(A) | Weight<br>(gr) | Conductor<br>Cross Section<br>(mm <sup>2</sup> ) | Order<br>Code |
|---------|---------------------------------------|----------------|--------------------------------------------------|---------------|
| TBE 044 | 4P - 40A                              | 2750           | 4x11,20                                          | 3024439       |
| TBE 064 | 4P - 63A                              | 2800           | 4x12,80                                          | 3179778       |
| TBE 074 | 4P - 75A                              | 2900           | 4x16,00                                          | 3024440       |
| TBE 104 | 4P - 105A                             | 3200           | 4x24,00                                          | 3024441       |
| TBE 134 | 4P - 130A                             | 3450           | 4x32,00                                          | 3024442       |
| TBE 164 | 4P - 160A                             | 3750           | 4x40,00                                          | 3158670       |
| TBE 045 | 5P - 40A                              | 2850           | 5x11,20                                          | 3024460       |
| TBE 065 | 5P - 63A                              | 2900           | 5x12,80                                          | 3179779       |
| TBE 075 | 5P - 75A                              | 3000           | 5x16,00                                          | 3024425       |
| TBE 105 | 5P - 105A                             | 3350           | 5x24,00                                          | 3024426       |
| TBE 135 | 5P - 130A                             | 3750           | 5x32,00                                          | 3024427       |
| TBE 165 | 5P - 160A                             | 4100           | 5x40,00                                          | 3164948       |

- Produced with standard M40 cable glands.
- Halogen-free plastic raw material
- High impact resistance.
- Design resistant against ambient conditions.



| Description                | Weight (gr) | Order Code |
|----------------------------|-------------|------------|
| TBE End Closure-1 (Female) | 100         | 3024420    |
| TBE End Closure-2 (Male)   | 100         | 3241448    |

## ►► TBE REPAIR ZONE UNIT

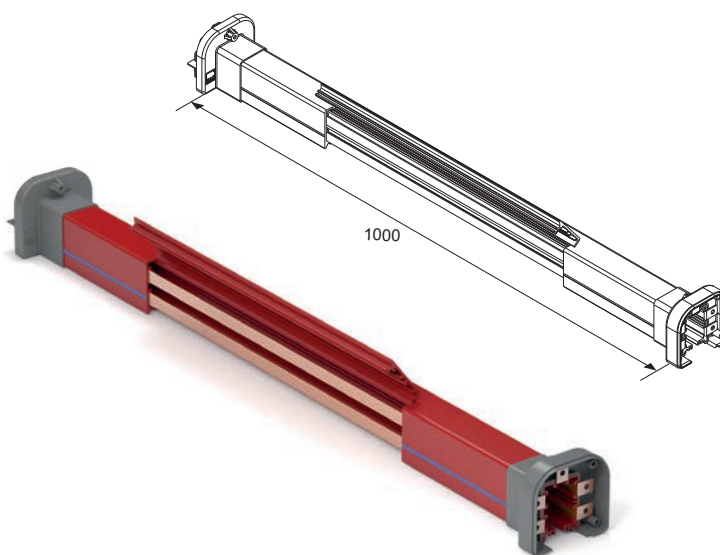


| Model   | Conductors<br>Quantity-Current<br>(A) | Weight<br>(gr) | Conductor<br>Cross Section<br>(mm <sup>2</sup> ) | Order Code |
|---------|---------------------------------------|----------------|--------------------------------------------------|------------|
| TBE 044 | 4P - 40A                              | 3500           | 4x11,20                                          | 3066688    |
| TBE 064 | 4P - 63A                              | 3550           | 4x12,80                                          | 3179780    |
| TBE 074 | 4P - 75A                              | 3600           | 4x16,00                                          | 3066689    |
| TBE 104 | 4P - 105A                             | 3900           | 4x24,00                                          | 3066690    |
| TBE 134 | 4P - 130A                             | 4200           | 4x32,00                                          | 3066691    |
| TBE 164 | 4P - 160A                             | 4450           | 4x40,00                                          | 3164950    |
| TBE 045 | 5P - 40A                              | 3600           | 5x11,20                                          | 3066692    |
| TBE 065 | 5P - 63A                              | 3650           | 5x12,80                                          | 3179781    |
| TBE 075 | 5P - 75A                              | 3750           | 5x16,00                                          | 3066693    |
| TBE 105 | 5P - 105A                             | 4100           | 5x24,00                                          | 3066694    |
| TBE 135 | 5P - 130A                             | 4500           | 5x32,00                                          | 3066695    |
| TBE 165 | 5P - 160A                             | 4800           | 5x40,00                                          | 3164952    |

Current supply shall be cut off when a machine working on the line shall be maintained or repaired. Repair zone module is used to create a currentless area on the busbar so that the other machines operating on the same line may continue to work.

- Produced with standard M40 cable glands
- Halogen-free plastic raw material
- High impact resistance
- Design resistant against ambient conditions

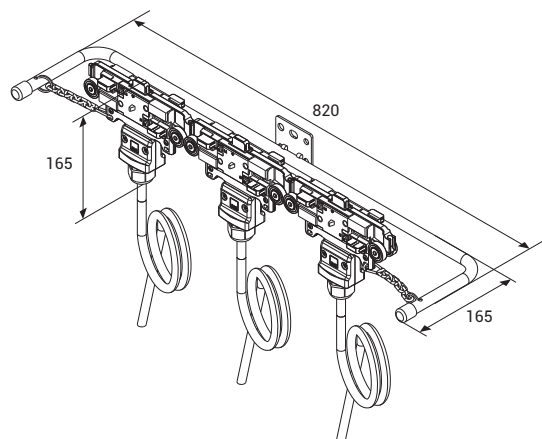
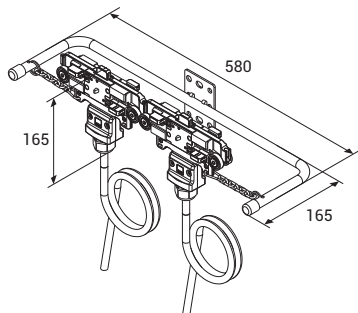
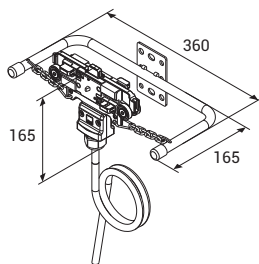
## ►► TBE CURRENT COLLECTOR REPLACEMENT MODULE



| Model   | Conductors<br>Quantity-Current<br>(A) | Weight<br>(gr) | Conductor<br>Cross Section<br>(mm <sup>2</sup> ) | Order<br>Code |
|---------|---------------------------------------|----------------|--------------------------------------------------|---------------|
| TBE 044 | 4P - 40A                              | 2000           | 4x11,20                                          | 3024558       |
| TBE 064 | 4P - 63A                              | 2050           | 4x12,80                                          | 3179784       |
| TBE 074 | 4P - 75A                              | 2100           | 4x16,00                                          | 3024897       |
| TBE 104 | 4P - 105A                             | 2400           | 4x24,00                                          | 3024898       |
| TBE 134 | 4P - 130A                             | 2700           | 4x32,00                                          | 3024899       |
| TBE 164 | 4P - 160A                             | 3000           | 4x40,00                                          | 3164951       |
| TBE 045 | 5P - 40A                              | 2100           | 5x11,20                                          | 3024421       |
| TBE 065 | 5P - 63A                              | 2150           | 5x12,80                                          | 3179785       |
| TBE 075 | 5P - 75A                              | 2250           | 5x16,00                                          | 3024428       |
| TBE 105 | 5P - 105A                             | 2600           | 5x24,00                                          | 3024429       |
| TBE 135 | 5P - 130A                             | 3000           | 5x32,00                                          | 3024430       |
| TBE 165 | 5P - 160A                             | 3350           | 5x40,00                                          | 3164953       |

This unit is used to remove an existing current collector or to add extra trolleys. The unit is obtained by cutting a 50cm section from the PVC housing.

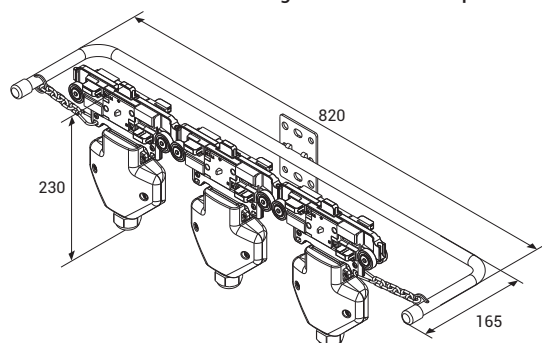
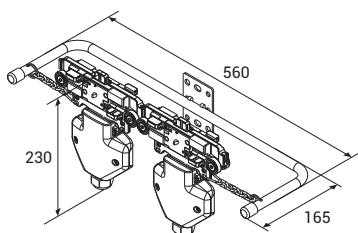
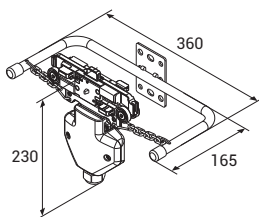
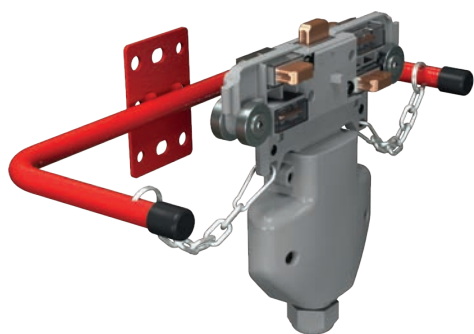
## ►► TB5 CURRENT COLLECTORS WITH CABLE



| Model | Brushes Number-Current | Weight (gr) | Order Code |
|-------|------------------------|-------------|------------|
| TB5   | 4P - 35A (Single)      | 1700        | 3024385    |
|       | 4P - 70A (Double)      | 2950        | 3024386    |
|       | 4P - 105A (Triple)     | 4450        | 3024387    |
|       | 5P - 35A (Single)      | 1900        | 3024376    |
|       | 5P - 70A (Double)      | 3250        | 3024377    |
|       | 5P - 105A (Triple)     | 4700        | 3024378    |

| Model | Brushes Number-Current | Weight (gr) | Order Code |
|-------|------------------------|-------------|------------|
| TB5   | 4P - 60A (Single)      | 2000        | 3203193    |
|       | 5P - 60A (Single)      | 2200        | 3203194    |

## ►► TB5 CURRENT COLLECTORS WITH CLIP



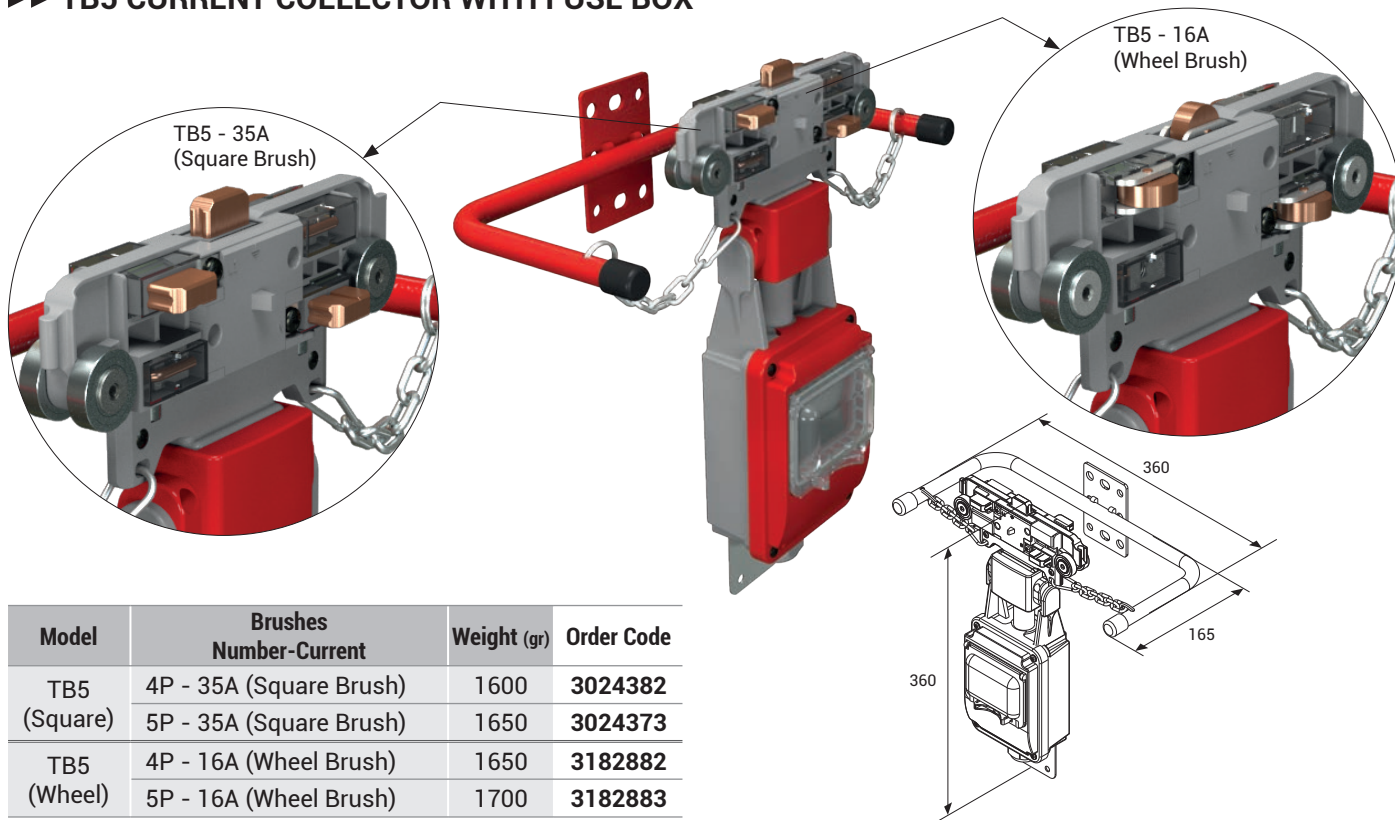
| Model | Brushes Number-Current | Weight (gr) | Order Code |
|-------|------------------------|-------------|------------|
| TB5   | 4P - 35A (Single)      | 1350        | 3024388    |
|       | 4P - 70A (Double)      | 2050        | 3024389    |
|       | 4P - 105A (Triple)     | 3050        | 3024390    |
|       | 5P - 35A (Single)      | 1350        | 3024379    |
|       | 5P - 70A (Double)      | 2250        | 3024380    |
|       | 5P - 105A (Triple)     | 3200        | 3024381    |

\*Produced with standard M40 cable gland and 4mm<sup>2</sup> clip.

Current collector with clips allow the customers to perform cabling as they desire with the clips they include.

Current collector are the moving elements of the trolley busbar systems. Current collector brushes rub against the conductors and draw continuous current while they move through the busbar line. They adapt to shaky and vibrant conditions thanks to the moving brushes. As current collecting and transfer systems are included in the C-PVC housing, they are protected against human contact.

## ►► TB5 CURRENT COLLECTOR WITH FUSE BOX



| Model           | Brushes<br>Number-Current | Weight (gr) | Order Code     |
|-----------------|---------------------------|-------------|----------------|
| TB5<br>(Square) | 4P - 35A (Square Brush)   | 1600        | <b>3024382</b> |
|                 | 5P - 35A (Square Brush)   | 1650        | <b>3024373</b> |
| TB5<br>(Wheel)  | 4P - 16A (Wheel Brush)    | 1650        | <b>3182882</b> |
|                 | 5P - 16A (Wheel Brush)    | 1700        | <b>3182883</b> |

Insurance boxed with both staff and current receiving area carts current machine's safety can be raised to a higher level. In addition, when it is desired to cut the power of one of the machines on a line, the current is cut off through the fuse, other machines on the line can continue to operate.

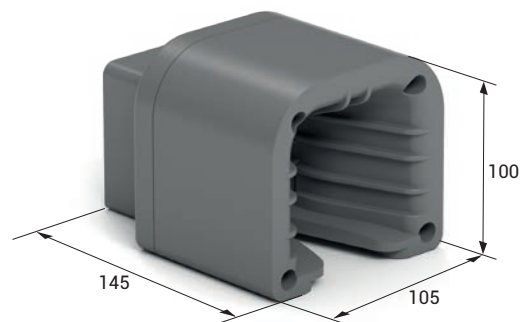
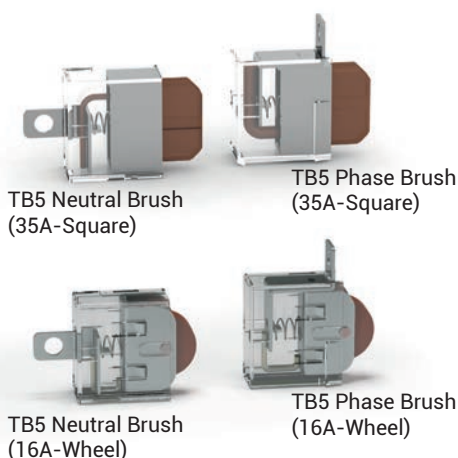
Current collector with Wheel Brush simplify the movement of the current collectors inside the busbar by reducing the time at the installation tables when movement is provided by the personnel.

TB5 Current collector models operating speed is max. 100m/min.

TB5 Current Collectors are produced with standard M40 cable gland.

## ►► TB5 CURRENT COLLECTOR BRUSHES

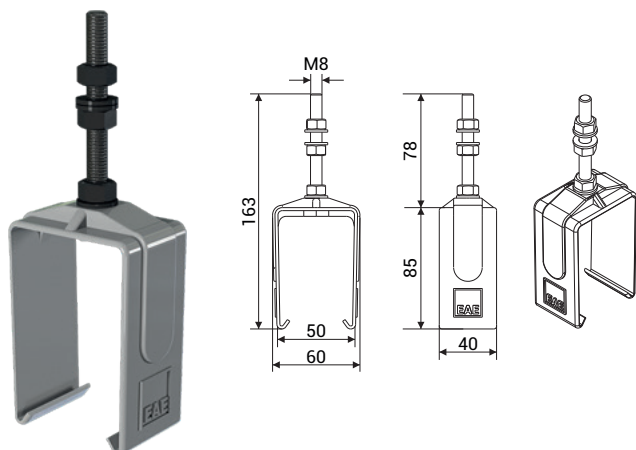
## ►► TB5 TROLLEY TRANSFER TOOL



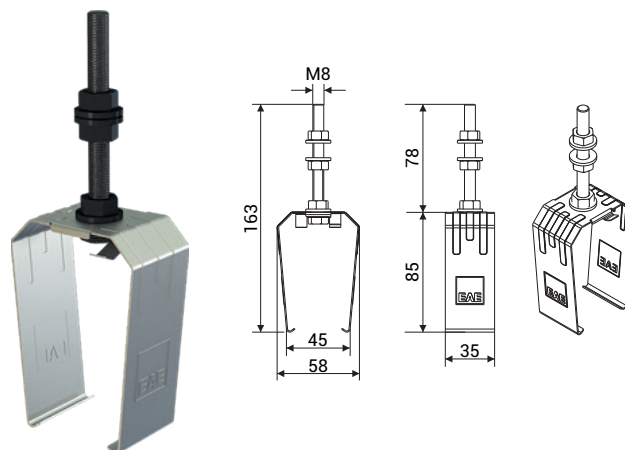
| Description                    | Weight (gr) | Order Code     |
|--------------------------------|-------------|----------------|
| TB5 Phase Brush (35A-Square)   | 40          | <b>3024371</b> |
| TB5 Neutral Brush (35A-Square) | 40          | <b>3024372</b> |
| TB5 Phase Brush (16A-Wheel)    | 40          | <b>3165078</b> |
| TB5 Neutral Brush (16A-Wheel)  | 40          | <b>3165080</b> |

| Description               | Weight (gr) | Order Code     |
|---------------------------|-------------|----------------|
| TB5 Trolley Transfer Tool | 250         | <b>3179189</b> |

## ►► TB5 PLASTIC SLIDING HANGER



## ►► TB5 STEEL SLIDING HANGER

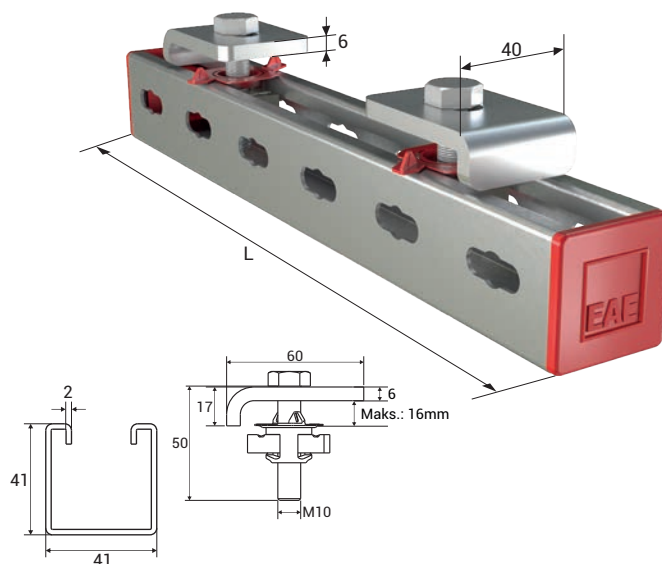
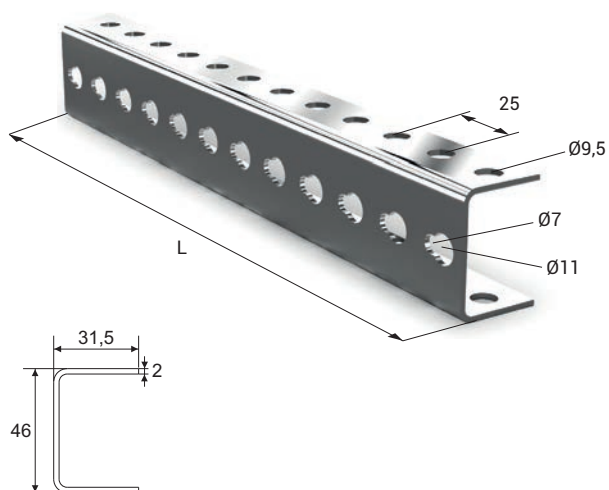


Trolley busbar should be mounted with sliding hangers and each hangers should be between 1300mm and 1500mm.

| Description                | Weight (gr) | Order Code |
|----------------------------|-------------|------------|
| TB5 Plastic Sliding Hanger | 85          | 1003664    |

| Description              | Weight (gr) | Order Code |
|--------------------------|-------------|------------|
| TB5 Steel Sliding Hanger | 100         | 1005954    |

## ►► TB HANGER BRACKET



| Description            | L (mm) | Weight (gr) | Order Code |
|------------------------|--------|-------------|------------|
| TB Hanger Bracket      | 250    | 350         | 3025153    |
| URC-C/S Hanger Bracket | 500    | 700         | 3034560    |
| URC-A Hanger Bracket   | 750    | 1050        | 3025382    |

| Description               | L (mm) | Weight (gr) | Order Code |
|---------------------------|--------|-------------|------------|
| TB BR Hanger Bracket      | 300    | 800         | 3178916    |
| URC-C/S BR Hanger Bracket | 600    | 1250        | 3178917    |
| URC-A BR Hanger Bracket   | 800    | 1550        | 3178918    |

## ►► VOLTAGE DROP

The voltage drop in the busbar lines shall be inspected as per the busbar type selected according to the total current calculated based on the ambient temperature and operating period of the system. Maximum acceptable value for voltage drop is 3%.

### For Direct Current

$$\Delta U = 2 \cdot L_t \cdot I_G \cdot R$$

$\Delta U$  = Voltage Drop [V]

### For Mono-Phase Alternative Current

$$\Delta U = 2 \cdot L_t \cdot I_G \cdot Z$$

$I_G$  = Total current [A]

$R$  = Resistance of the busbar [ $\Omega/m$ ]

### For Three-Phase Alternative Current

$$\Delta U = \sqrt{3} \cdot L_t \cdot I_G \cdot Z$$

$Z$  = Impedance of the busbar [ $\Omega/m$ ]

$L_t$  = Calculated Hole Length [m]

**Note :** Calculation of the current drawn during first start in various motor types;

$I_A$  = Total current drawn in the first start of the motors [A]

For the starting current; Three-phase asynchronous drive in direct start

Slip ring rotor motor

Frequency converter

$I_A$  =  $I_G$  x calculated as 5 to 6

$I_A$  =  $I_G$  x calculated as 2 to 3

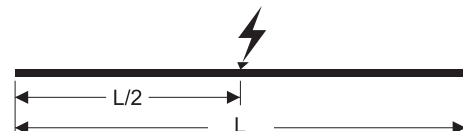
$I_A$  =  $I_G$  x 1,20 to 1,50 calculated between.

## ►► CALCULATION OF FEEDING POINTS

When we take  $L_t$  as the length of the line, feeding points may be selected as shown in the diagrams below to keep the  $L$  voltage drop at minimum and it may be used as the hole length for the calculation of  $L_t$  voltage drop.



1 feeding point from the start,  $L_t = L$



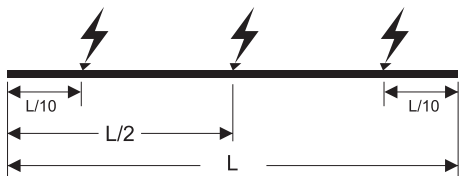
1 feeding point from the center,  $L_t = L/2$



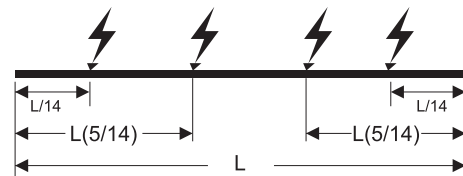
2 feeding points from the start points,  $L_t = L/4$



2 feeding points,  $L_t = L/6$



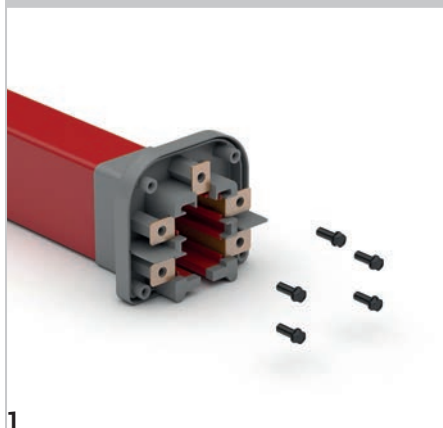
3 feeding points,  $L_t = L/10$



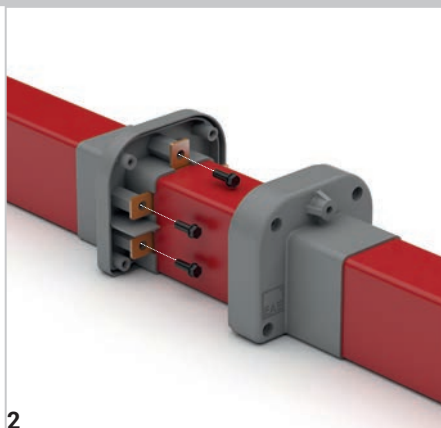
4 feeding points,  $L_t = L/14$

## ►► INSTALLATION MANUAL

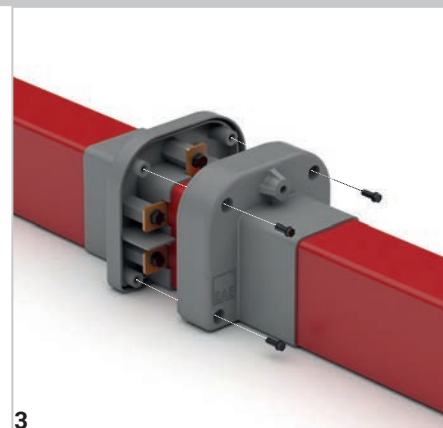
### TBE - INSTALLATION OF JOINT UNIT



1 Remove the screws on the end of the busbar.

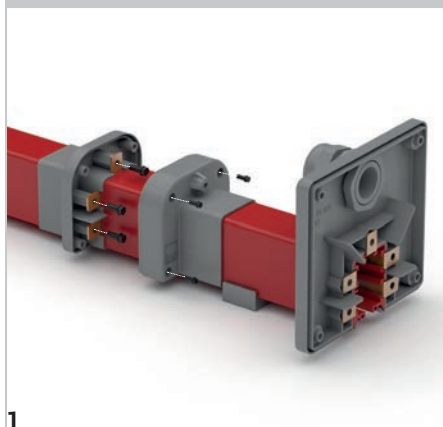


2 Join it with the other busbar and screw it.

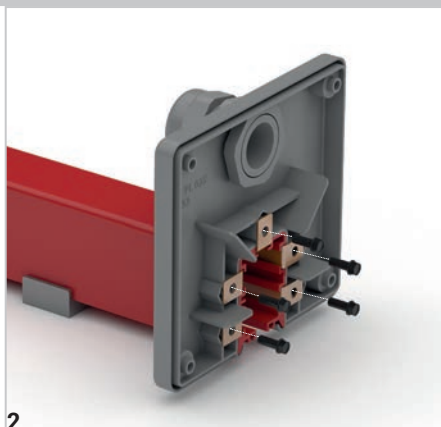


3 Close the joint cover and screw it.

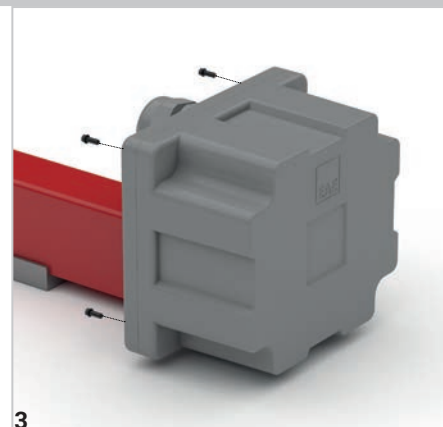
### TBE - FEEDER UNIT



1 Install it on the line as you do while installing the extension.



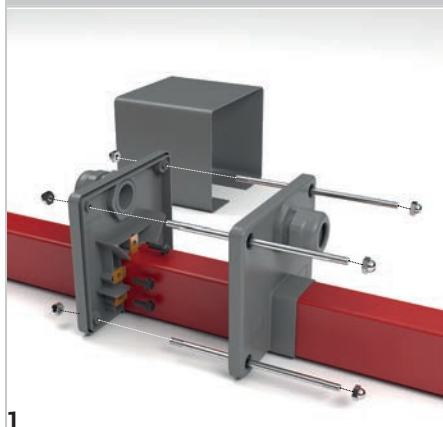
2 Put the feeding cables through the cable gland and connect them to the conductors.



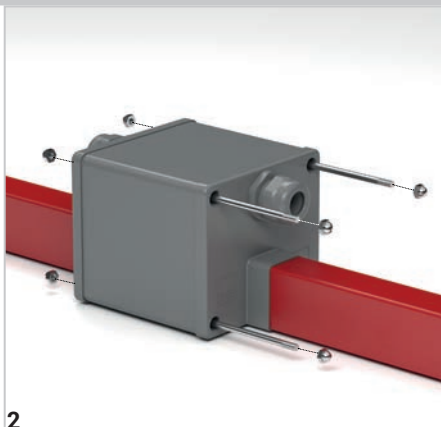
3 Place the cover part and screw it.

TBE

### TBE - LINE FEED UNIT

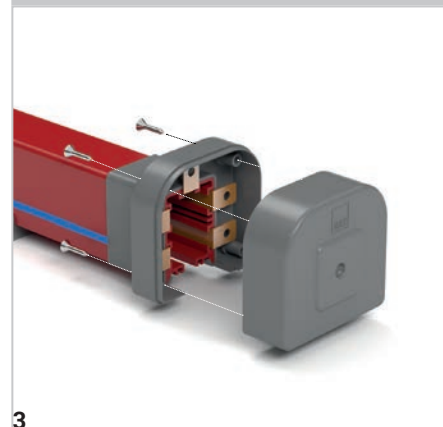


1 Open the cover by removing the screws. Put the feeding cables through the cable gland connect them.



2 Put the feeding cables through the cable gland and connect them to the conductors.

### TBE - END CLOSURE



3 Install the end closure to the end of the housing and screw it.

## ►► DESIGN FORM

| Member List |      |      |
|-------------|------|------|
| Serial No   | Type | Pcs. |
|             |      |      |
|             |      |      |
|             |      |      |
|             |      |      |
|             |      |      |
| Company     | :    |      |
| Project     | :    |      |
| Project No  | :    |      |
|             |      |      |
| Prepared by |      |      |
| Name        |      |      |
| Date        |      |      |
| Signature   |      |      |



Please use this page after copying.

## ►► OFFER REQUEST FORM

Date :

|              |   |                      |
|--------------|---|----------------------|
| Project Name | : | <input type="text"/> |
| Company      | : | <input type="text"/> |
| Name Surname | : | <input type="text"/> |
| Tel          | : | <input type="text"/> |
| E-Mail       | : | <input type="text"/> |
| Address      | : | <input type="text"/> |

## General Data

|                           |   |                      |
|---------------------------|---|----------------------|
| Track Length              | : | <input type="text"/> |
| Number of Cranes on Track | : | <input type="text"/> |
| Crane Travel Speed        | : | <input type="text"/> |

## Environmental Data

|                                                                          |   |                                 |                                  |
|--------------------------------------------------------------------------|---|---------------------------------|----------------------------------|
| Operating Environment                                                    | : | <input type="checkbox"/> Indoor | <input type="checkbox"/> Outdoor |
| Ambient Temperature                                                      | : | <input type="text"/> °C min.    | <input type="text"/> °C max.     |
| Other Operating Conditions<br>(Humidity, Dust, Chemical Influence, etc.) | : | <input type="text"/>            |                                  |

## Electrical Data

|                               |   |                               |                                  |                              |                              |                              |                               |
|-------------------------------|---|-------------------------------|----------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| Operating Voltage             | : | <input type="text"/> Volts    | <input type="checkbox"/> AC      | <input type="checkbox"/> DC  |                              |                              |                               |
|                               | : | <input type="text"/> Phases   | <input type="checkbox"/> N       | <input type="checkbox"/> PE  |                              |                              |                               |
| Position and Number of Feeder | : | <input type="text"/> from End | <input type="text"/> from Middle |                              |                              |                              |                               |
| Duty Cycle (%)                | : | <input type="checkbox"/> 50%  | <input type="checkbox"/> 60%     | <input type="checkbox"/> 70% | <input type="checkbox"/> 80% | <input type="checkbox"/> 90% | <input type="checkbox"/> 100% |

| Motor Specifications | Crane - 1            |                      | Crane - 2            |                      | Crane - 3            |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                      | Power (kW)           | Current (A)          | Power (kW)           | Current (A)          | Power (kW)           | Current (A)          |
| Hoist motors         | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Auxiliary motor      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Long travel          | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Cross travel         | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

## Options

|                                 |   |                              |                             |
|---------------------------------|---|------------------------------|-----------------------------|
| Brackets Required               | : | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Repair Zone Required            | : | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Collector Replacement Required: | : | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

|              |   |                      |
|--------------|---|----------------------|
| Descriptions | : | <input type="text"/> |
|--------------|---|----------------------|

**►► Declaration**

# CE DECLARATION OF CONFORMITY

**Product Group** E-Line TB Trolley Busbar Systems  
**Manufacturer** Akcaburgaz Mahallesi, 3114. Sokak,  
No:10 34522 Esenyurt-Istanbul

The objects of the declaration described below is in conformity with the relevant Cable gland harmonisation legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer.

**Standard:****TS EN 61439-6**

Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems

**CE - Directive:**

2014/35/EU "The Low Voltage Directive"

2014/30/EU "(EMC) Electromagnetic Compatibility Directive"

2011/65/EU "RoHS Directive"

**Technical Document Preparation Official:**

EAE Elektrik Asansor End. Insaat San. ve Tic. A.S.  
Akcaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-Istanbul

Emre GÜRLEYEN

**Date**

20.04.2016

**Document Authorized Signatory**

Elif Gamze KAYA OK  
Deputy General Manager



## PRODUCT TYPES



## BUSBAR ENERGY DISTRIBUTION SYSTEMS



## CABLE TRAYS



## TROLLEY BUSBAR ENERGY DISTRIBUTION SYSTEMS



## INDOOR SOLUTIONS



## SUPPORT SYSTEMS



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IEC 61439-6



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S.S.

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