

# Questionnaire for the Design of a Roof Mounted Pantograph

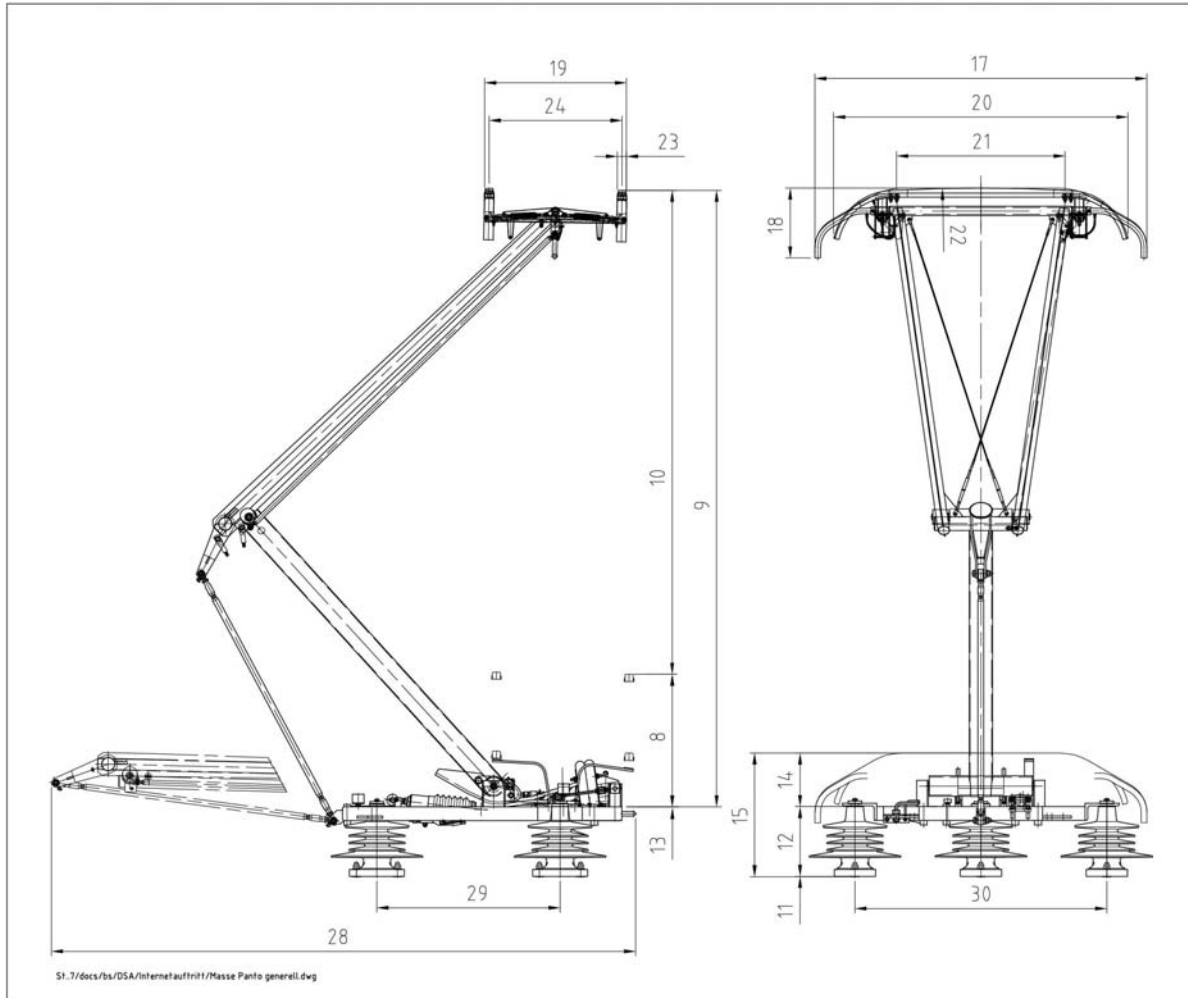
**STEMMANN-  
TECHNIK** GmbH

Dept.: BS  
Niedersachsenstraße 2  
D – 48465 Schüttorf

Phone: 0 59 23 – 81-216  
Fax: 0 59 23 – 81-278

Company Name.....
Branch: .....
Address.....
.....
Contact Person: .....
Phone: .....
Fax: .....
e-Mail: .....

Details for heavy rail vehicles following EN50602-1 and for light rail vehicles (suburban trains and trams) following EN50206-2



## Principle of the Pantograph Sketch

- |  |       |                          |
|--|-------|--------------------------|
| 1 Rated voltage (EN50206-1 (-2), 3.3.1) = (3.3.1)        | _____ | V                        |
|  |       | <input type="radio"/> AC |
|  |       | <input type="radio"/> DC |
| 2 Rated current, vehicle in standstill (3.3.2)           | _____ | A                        |
| 3 Maximum current, vehicle in standstill (3.3.3)         | _____ | A                        |
| 4 Rated current, vehicle in operation (3.3.4)            | _____ | A                        |
| 5 Static contact force (3.3.5)                           | _____ | N                        |
| 6 Average total contact pressure (EN50206-1, Item 3.3.7) | _____ | N                        |
| 7 Total contact pressure (EN50206-1, Item 3.3.8)         | _____ | N                        |
| 8 Minimum operation height (3.3.11)                      | _____ | mm                       |

## Questionnaire for the Design of a Roof Mounted Pantograph

- 9 Maximum operation height (3.3.12) \_\_\_\_\_ mm
- 10 Working area (3.3.13) \_\_\_\_\_ mm
- 11 Height of the installation surface (from lower edge insulator) above track upper edge \_\_\_\_\_ mm
- 12 Height of insulator
- | Voltage in kV                          | Height in mm |                       |
|--|--------------|-----------------------|
| 0,75                                   | 60           | <input type="radio"/> |
| 1,5                                    | 80           | <input type="radio"/> |
| 3                                      | 125          | <input type="radio"/> |
| 15 / 25                                | 306          | <input type="radio"/> |
| Customer's provision of the insulators |              | <input type="radio"/> |
- 13 Height of the installation surface (from upper edge insulator) above track upper edge \_\_\_\_\_ mm
- 14 Height in lowest position from upper edge of insulator (3.2.14) \_\_\_\_\_ mm
- 15 Height in lowest position from lower edge of insulator \_\_\_\_\_ mm
- 16 Collector head profile for heavy rail vehicles acc. to UIC608
- | Encl. | 17 Collector head length(3.2.6) | 18 Collector head height   |                       |
|-------|---------------------------------|----------------------------|-----------------------|
| B:    | 1450 mm                         | 300 mm                     | <input type="radio"/> |
| C:    | 1600 mm                         | 300 mm                     | <input type="radio"/> |
| D.1:  | 1950 mm                         | 368 mm (for the DB 340 mm) | <input type="radio"/> |
| D.2:  | 1950 mm                         | 367 mm                     | <input type="radio"/> |
- 19 Collector head width (3.2.7) \_\_\_\_\_ mm
- Collector head-/contact strip profile for light rail vehicles acc. to DIN 43 267
- DIN 43 267 1. Profile: straight carbon contact piece
- DIN 43 267 2. Profile: bent carbon contact piece
- 20 Contact strip length with end horns \_\_\_\_\_ mm
- 21 Contact strip length (3.2.10) \_\_\_\_\_ mm
- 22 Contact strip radius \_\_\_\_\_ mm
- 23 Contact strip width \_\_\_\_\_ mm
- 24 Centre distance of the contact strips \_\_\_\_\_ mm
- 27 Number of the contact strips \_\_\_\_\_ pieces
- 28 Length of the pantograph in lowest position \_\_\_\_\_ mm
- 29 Attachment dimensions in longitudinal direction of vehicle \_\_\_\_\_ mm
- 30 Attachment dimension in transverse direction of vehicle \_\_\_\_\_ mm
- 31 Automatic Dropping Device (ADD) Yes  / No
- 32 Design of the pantograph:
- Standard single arm pantograph
  - Special design diamond shaped pantograph in two arm version
  - Special design diamond shaped pantograph in four arm version
- 33 Mode of actuation:
- Spring and electric (standard 24 V DC)
  - Spring / pneumatic up
  - Spring / pneumatic down
  - Pneumatic (direct air operated)

