

## Carriages RWU35-E (Series RWU..-E)

standard carriage with full complement recirculating roller system for linear recirculating roller bearing and guideway assembly, for oil or grease lubrication

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue ordering system ([https://www.schaeffler.de/content.schaeffler.de/en/news\\_media/index.jsp](https://www.schaeffler.de/content.schaeffler.de/en/news_media/index.jsp)) or by telephone on +49 (91 32) 82 - 28 97.

|                |               |                                                                      |
|----------------|---------------|----------------------------------------------------------------------|
| H              | 48 mm         |                                                                      |
| B              | 100 mm        |                                                                      |
| L              | 122,9 mm      | Minimum covered length for sealing the upper lubrication connections |
| 1)             | Locating face |                                                                      |
| 2)             | Marking       |                                                                      |
| 3)             | Fixing screw  |                                                                      |
| A <sub>1</sub> | 33 mm         |                                                                      |
| A <sub>2</sub> | 9 mm          |                                                                      |
| A <sub>3</sub> | 6,6 mm        |                                                                      |
| A <sub>4</sub> | 5,6 mm        |                                                                      |
| aL max         | 31 mm         | a L and a R are dependent on the length l max of the guideway        |

|        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| aL min | 20 mm   | a L and a R are dependent on the length l max of the guideway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| aR max | 23 mm   | a L and a R are dependent on the length l max of the guideway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| aR min | 20 mm   | a L and a R are dependent on the length l max of the guideway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| b      | 34 mm   | Tolerance: -0,005/-0,035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| d1     | 9 mm    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| D2     | 8,6 mm  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| G2     | M10     | <p>for screws to DIN ISO 4762-12.9</p> <p>Max. tightening torque [MA]:</p> <p>M6 = 10 Nm</p> <p>M8 = 24 Nm</p> <p>M10 = 41 Nm</p> <p>M12 = 83 Nm</p> <p>M14 = 140 Nm</p> <p>M16 = 220 Nm</p> <p>M20 = 470 Nm</p> <p>The stated torques represent maximum values for the reliable transmission of forces in vibration-free, quasistatic applications (S0=1). We recommend that the tightening torques of the screw connection to the adjacent construction should be determined at the customer under the specific application conditions and operating conditions, observing the data in VDI Guideline 2230 Part 1 (2015) and the data in the description.</p> |
| Gs     | M4x4    | DIN EN ISO 4027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| h      | 30 mm   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| H1     | 6,5 mm  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| h1     | 17,5 mm | Tolerance: +0,5/-0,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| H4     | 20,5 mm |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                 |                                                                                                                                            |                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| O               | 10x1,5 mm                                                                                                                                  | DIN 3771                          |
| T <sub>5</sub>  | 12 mm                                                                                                                                      |                                   |
| T <sub>6</sub>  | 10,9 mm                                                                                                                                    |                                   |
|                 |                                                                                                                                            |                                   |
| mw              | 1,75 kg                                                                                                                                    | Mass of carriage                  |
| ms              | 5,9 kg/m                                                                                                                                   | Mass of guideway                  |
| C               | 59000 N                                                                                                                                    | Basic dynamic load rating         |
| C <sub>0</sub>  | 140000 N                                                                                                                                   | Basic static load rating          |
|                 | The full load rating can only be supported if the full thread length is used and the adjacent construction is correspondingly dimensioned. |                                   |
| M <sub>0x</sub> | 1200 Nm                                                                                                                                    | Static moment rating about X axis |
| M <sub>0y</sub> | 2150 Nm                                                                                                                                    | Static moment rating about Y axis |
| M <sub>0z</sub> | 1950 Nm                                                                                                                                    | Static moment rating about Z axis |

