

## Carriages KWVE20-W (Series KWVE..-W)

wide carriage for linear recirculating ball bearing and guideway assembly

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.

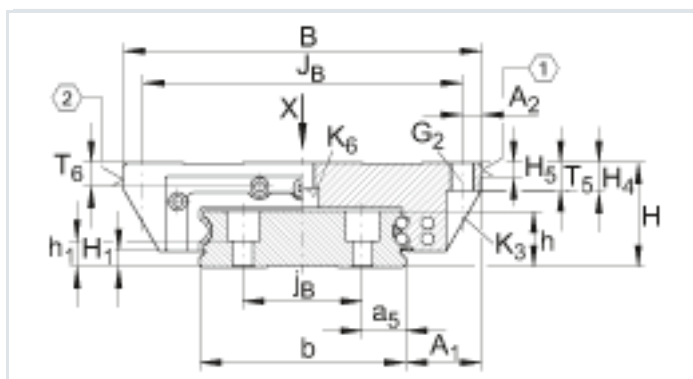
H	27 mm	
B	80 mm	
L	69,8 mm	
1)	Locating face	
2)	Marking	
A <sub>1</sub>	19 mm	
A <sub>2</sub>	5 mm	
A <sub>3</sub>	5 mm	
a <sub>5</sub>	9 mm	
a <sub>L</sub> max	53 mm	a <sub>L</sub> and a <sub>R</sub> are dependent on the guideway length
a <sub>L</sub> min	20 mm	a <sub>L</sub> and a <sub>R</sub> are dependent on the guideway length
a <sub>R</sub> max	53 mm	a <sub>L</sub> and a <sub>R</sub> are dependent on the guideway length
a <sub>R</sub> min	20 mm	a <sub>L</sub> and a <sub>R</sub> are dependent on the guideway length

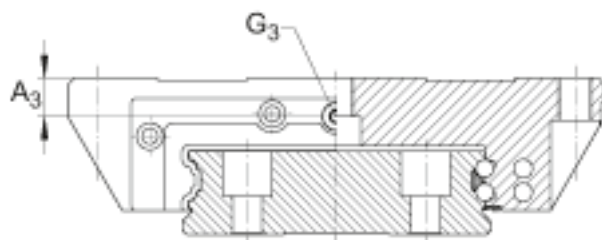
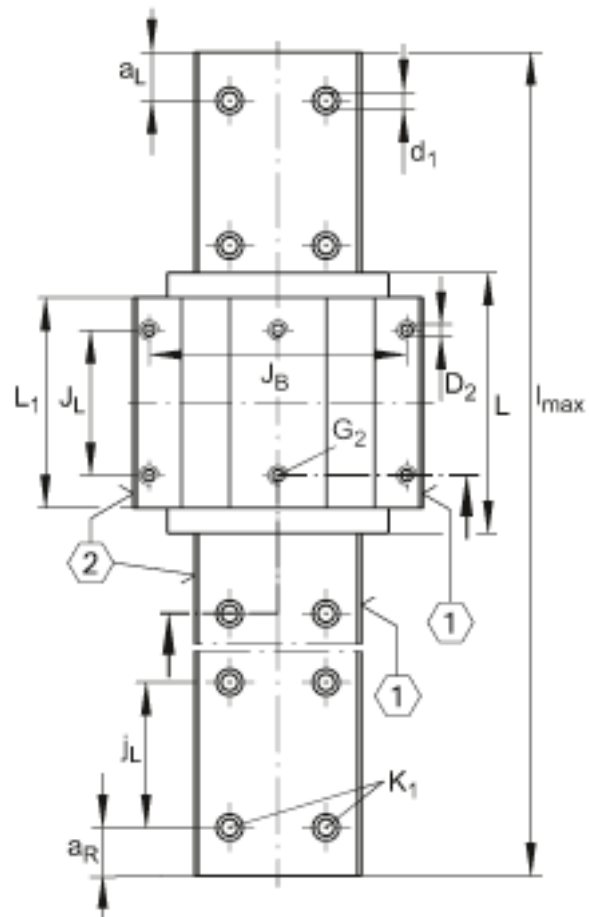
d <sub>1</sub>	4,6 mm	
D <sub>2</sub>	5,5 mm	
G <sub>2</sub>	M6	<p>for screws to DIN ISO 4762-12.9</p> <p>Max. tightening torque [MA]:</p> <p>M5 = 5,8 Nm</p> <p>M6 = 10 Nm</p> <p>M8 = 41 Nm</p> <p>M10 = 41 Nm</p> <p>The stated torques represent maximum values for the reliable transmission of forces in 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>
G <sub>3</sub>	M5	Maximum permissible screw depth for lubrication connectors: 5 mm
h	17 mm	
H <sub>1</sub>	4,6 mm	
h <sub>1</sub>	10 mm	
H <sub>4</sub>	10,6 mm	
H <sub>5</sub>	5 mm	
J <sub>B</sub>	70 mm	
j <sub>B</sub>	24 mm	
J <sub>L</sub>	40 mm	
j <sub>L</sub>	60 mm	

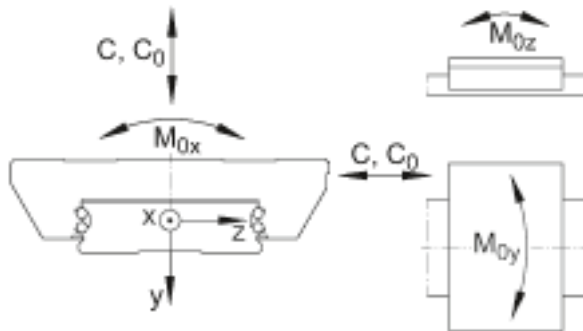
K1	M4	<p>for screws to DIN ISO 4762-12.9</p> <p>Max. tightening torque [MA]:</p> <p>M4 = 5 Nm</p> <p>M5 = 10 Nm</p> <p>M6 = 17 Nm</p> <p>M8 = 41 Nm</p> <p>M10 = 83 Nm</p> <p>M12 = 140 Nm</p> <p>M14 = 220 Nm</p> <p>The stated torques represent maximum values for the reliable transmission of forces in 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>
K3	M5	<p>for screws to DIN ISO 4762-12.9</p> <p>Max. tightening torque [MA]:</p> <p>M4 = 5 Nm</p> <p>M5 = 10 Nm</p> <p>M6 = 17 Nm</p> <p>M8 = 41 Nm</p> <p>M10 = 83 Nm</p> <p>M12 = 140 Nm</p> <p>M14 = 220 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>
K6	M5	<p>for screws to DIN 7984-8.8</p> <p>Max. tightening torque [MA]:</p> <p>M4 = 2 Nm</p> <p>M5 = 4 Nm</p> <p>M6 = 8 Nm</p> <p>M8 = 12 Nm</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.
L1	50,4 mm	
lmax	2880 mm	Maximum length of single-piece guideways. Permissible guideway segments, see Technical principles
T5	10 mm	
T6	5 mm	for location from above: max. screw depth for central threaded holes T6 + 2,5 mm
mw	0,5 kg	Mass of carriage
ms	5 kg/m	Mass of guideway
		Calculation of basic load rating according to ISO 14286-1. increased basic dynamic load rating possible on the basis of practical experience. The full load rating can only be supported if the full thread length is used and the adjacent construction is correspondingly dimensioned.
C	13100 N	Basic dynamic load rating
C0	27000 N	Basic static load rating
M0x	687 Nm	Static moment rating about X axis

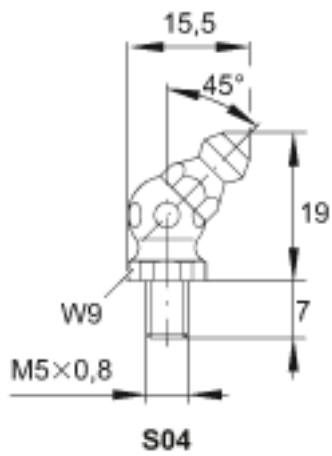
$M_{0y}$	240 Nm	Static moment rating about Y axis
$M_{0z}$	240 Nm	Static moment rating about Z axis
Lubrication connectors are included loose.		







Load directions



Lubrication connector