

Ball Transfer Units

Steel / Stainless Steel, with External Thread, with Friction Bearing

SPECIFICATION

Housing

- Steel, blackened ST
- Stainless steel AISI 303 NI

Ball

- Steel AISI 52100, hardened for ST
- Stainless steel AISI 420C, hardened for NI

Friction bearing

Plastic
Operating temperature -50 °C to +90 °C



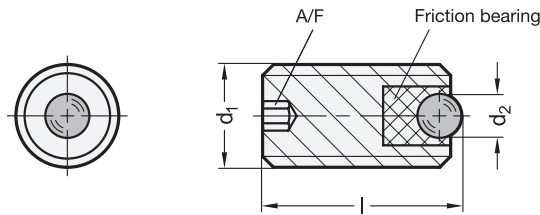
INFORMATION

Ball transfer units GN 509.11 are used for building mechanisms and devices. The friction bearing of the ball ensures low-friction displacement and rotation of workpieces in any direction.

The position of the ball transfer units can be adjusted in the axial direction using the external thread.

TECHNICAL INFORMATION

- Stainless Steel Characteristics (see page A26)



GN 509.11-ST

Description	Size	d ₁	Length l	d ₂ Ball	A/F	Load C ₀ in N	Max. tightening torque in Nm	⚖️
GN 509.11-2-M6-8-ST	2	M 6	8	2.5	1.5	172	0.11	1
GN 509.11-2-M6-16-ST	2	M 6	16	2.5	1.5	172	0.11	2
GN 509.11-3-M8-10-ST	3	M 8	10	3.5	1.5	336	0.28	2
GN 509.11-3-M8-20-ST	3	M 8	20	3.5	1.5	336	0.28	6
GN 509.11-4-M10-12-ST	4	M 10	12	4.5	2	556	0.58	4
GN 509.11-4-M10-25-ST	4	M 10	25	4.5	2	556	0.58	11
GN 509.11-6-M12-16-ST	6	M 12	16	6.5	2.5	1161	1.44	8
GN 509.11-6-M12-35-ST	6	M 12	35	6.5	2.5	1161	1.44	22
GN 509.11-8-M16-20-ST	8	M 16	20	8.5	3	1986	3.21	20
GN 509.11-8-M16-50-ST	8	M 16	50	8.5	3	1986	3.21	59

GN 509.11-NI

STAINLESS STEEL

Description	Size	d ₁	Length l	d ₂ Ball	A/F	Load C ₀ in N	Max. tightening torque in Nm	⚖️
GN 509.11-2-M6-8-NI	2	M 6	8	2.5	1.5	172	0.11	1
GN 509.11-2-M6-16-NI	2	M 6	16	2.5	1.5	172	0.11	2
GN 509.11-3-M8-10-NI	3	M 8	10	3.5	1.5	336	0.28	2
GN 509.11-3-M8-20-NI	3	M 8	20	3.5	1.5	336	0.28	6
GN 509.11-4-M10-12-NI	4	M 10	12	4.5	2	556	0.58	4
GN 509.11-4-M10-25-NI	4	M 10	25	4.5	2	556	0.58	11
GN 509.11-6-M12-16-NI	6	M 12	16	6.5	2.5	1161	1.44	8
GN 509.11-6-M12-35-NI	6	M 12	35	6.5	2.5	1161	1.44	22
GN 509.11-8-M16-20-NI	8	M 16	20	8.5	3	1986	3.21	20
GN 509.11-8-M16-50-NI	8	M 16	50	8.5	3	1986	3.21	59