

## Stainless Steel-Ball joint heads with female thread

### SPECIFICATION

#### Types (pairings)

- Type **NH**: Bronze / Steel lubrication possible
- Type **WH**: Bronze-PTFE / Steel self lubricated
- Type **WK**: Stainless Steel-PTFE / Stainless Steel, self lubricated

Housing Stainless Steel AISI 431  
forged, polished

Pairings

Type NH (lubrication possible)  
Bearing socket Bronze CuSn8

Internal ring Steel 100 Cr6  
hardened, ground, polished

#### hard chrome plated

Type WH (self lubricated)  
Bearing socket Bronze CuSN8  
with PTFE-insert

Internal ring Steel 100Cr6  
hardened, ground, polished

#### hard chrome plated

Type WK (self lubricated)  
Bearing socket, Stainless Steel  
AISI 316Ti with PTFE-insert

Internal ring  
Stainless Steel AISI 420  
hardened, ground, polished

### INFORMATION

Ball joint heads GN 648.5 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

- More information to ball joints as well as load capacity (see page 1134)

### ON REQUEST

- narrow model (ISO 12240-1, series E)

### TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)

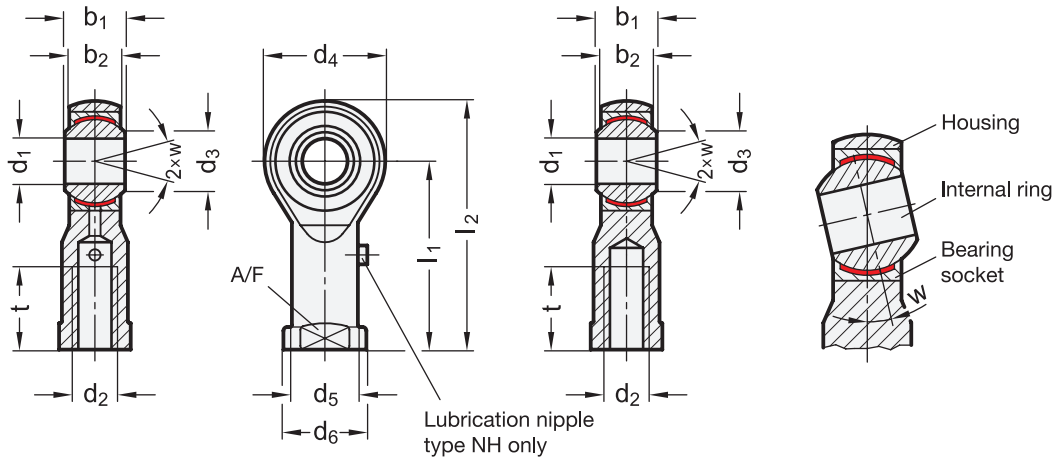




Joints, Couplings, Gears 10

Type NH

Type WH  
Type WK



\* Complete with type index of the Ball joint heads  
NH WH WK

GN 648.5

STAINLESS STEEL

Description	d1 H7	d2	b1 -0.12	b2	d3	d4	d5	d6	l1	l2	A/F	t	w	
GN 648.5-5-M5-*	5	M 5	8	6	7.7	18	9	11	27	36	9	10	13°	19
GN 648.5-5-M5L-*	5	M 5L	8	6	7.7	18	9	11	27	36	9	10	13°	19
GN 648.5-6-M6-*	6	M 6	9	6.75	8.9	20	10	13	30	40	11	12	13°	26
GN 648.5-6-M6L-*	6	M 6L	9	6.75	8.9	20	10	13	30	40	11	12	13°	26
GN 648.5-8-M8-*	8	M 8	12	9	10.4	24	12.5	16	36	48	13	16	14°	48
GN 648.5-8-M8L-*	8	M 8L	12	9	10.4	24	12.5	16	36	48	13	16	14°	47
GN 648.5-10-M10-*	10	M 10	14	10.5	12.9	28	15	19	43	57	17	20	13°	76
GN 648.5-10-M10L-*	10	M 10L	14	10.5	12.9	28	15	19	43	57	17	20	13°	75
GN 648.5-12-M12-*	12	M 12	16	12	15.4	32	17.5	22	50	66	19	22	13°	112
GN 648.5-12-M12L-*	12	M 12L	16	12	15.4	32	17.5	22	50	66	19	22	13°	111
GN 648.5-14-M14-*	14	M 14	19	13.5	16.8	36	20	25	57	75	22	25	16°	165
GN 648.5-14-M14L-*	14	M 14L	19	13.5	16.8	36	20	25	57	75	22	25	16°	163
GN 648.5-16-M16-*	16	M 16	21	15	19.3	42	22	27	64	85	22	28	15°	227
GN 648.5-16-M16L-*	16	M 16L	21	15	19.3	42	22	27	64	85	22	28	15°	225
GN 648.5-18-M18x1.5-*	18	M 18 x 1.5	23	16.5	21.8	46	25	31	71	94	27	32	15°	309
GN 648.5-18-M18x1.5L-*	18	M 18 x 1.5L	23	16.5	21.8	46	25	31	71	94	27	32	15°	308
GN 648.5-20-M20x1.5-*	20	M 20 x 1.5	25	18	24.3	50	27.5	34	77	102	32	33	14°	401
GN 648.5-20-M20x1.5L-*	20	M 20 x 1.5L	25	18	24.3	50	27.5	34	77	102	32	33	14°	400
GN 648.5-22-M22x1.5-*	22	M 22 x 1.5	28	20	25.8	54	30	37	84	111	32	37	15°	517
GN 648.5-22-M22x1.5L-*	22	M 22 x 1.5L	28	20	25.8	54	30	37	84	111	32	37	15°	517
GN 648.5-25-M24x2-*	25	M 24 x 2	31	22	29.6	60	33.5	42	94	124	36	42	15°	734
GN 648.5-25-M24x2L-*	25	M 24 x 2L	31	22	29.6	60	33.5	42	94	124	36	42	15°	732
GN 648.5-30-M30x2-*	30	M 30 x 2	37	25	34.8	70	40	51	110	145	41	51	17°	1130
GN 648.5-30-M30x2L-*	30	M 30 x 2L	37	25	34.8	70	40	51	110	145	41	51	17°	1130

Weight type NH