

# Spherical bearing **DIN 648**

## GEES

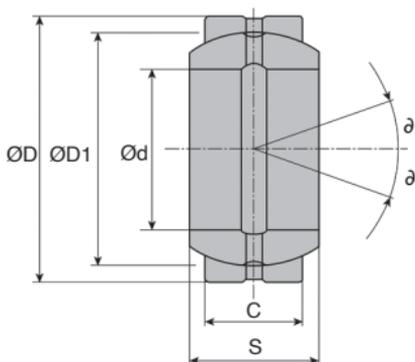
## Steel/steel contact

- DIN 648, series E, ISO 6124/1
- Material: steel

### Info.

- Some maintenance required (except GE-E models)

**Economy range**



### DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-30%	On request

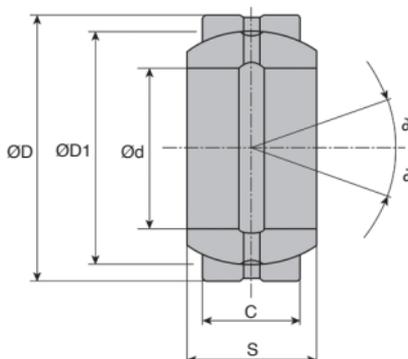
Part number	Od	ØD	ØD1	S	C	δ	Load capacity			Stock*	Price each 1 to 5
							static (N)	dynamic (N)	Weight (g)		
GE6E	6 <sup>+0.008</sup>	14 <sup>+0.008</sup>	10,0	6 <sup>+0.012</sup>	4 <sup>+0.014</sup>	13°	17000	3400	<10	✓	4,28 €
GE8E	8 <sup>+0.008</sup>	16 <sup>+0.008</sup>	13,0	8 <sup>+0.012</sup>	5 <sup>+0.014</sup>	15°	27500	5500	<10	✓	4,28 €
GE10E	10 <sup>+0.008</sup>	19 <sup>+0.008</sup>	16,0	9 <sup>+0.012</sup>	6 <sup>+0.014</sup>	12°	40500	8150	10	✓	4,28 €
GE12E	12 <sup>+0.008</sup>	22 <sup>+0.008</sup>	18,0	10 <sup>+0.012</sup>	7 <sup>+0.014</sup>	11°	54000	10800	10	-	4,28 €
GE15ES	15 <sup>+0.008</sup>	26 <sup>+0.008</sup>	22,0	12 <sup>+0.012</sup>	9 <sup>+0.014</sup>	8°	85000	17000	20	✓	4,28 €
GE17ES	17 <sup>+0.008</sup>	30 <sup>+0.008</sup>	25,0	14 <sup>+0.012</sup>	10 <sup>+0.014</sup>	10°	106000	21200	40	✓	4,64 €
GE20ES	20 <sup>+0.008</sup>	35 <sup>+0.011</sup>	29,0	16 <sup>+0.012</sup>	12 <sup>+0.014</sup>	9°	146000	30000	60	✓	4,64 €
GE25ES	25 <sup>+0.010</sup>	42 <sup>+0.011</sup>	35,5	20 <sup>+0.012</sup>	16 <sup>+0.014</sup>	7°	240000	48000	110	✓	5,39 €
GE30ES	30 <sup>+0.010</sup>	47 <sup>+0.011</sup>	40,7	22 <sup>+0.012</sup>	18 <sup>+0.014</sup>	6°	310000	62000	140	-	6,79 €
GE35ES	35 <sup>+0.010</sup>	55 <sup>+0.013</sup>	47,0	25 <sup>+0.012</sup>	20 <sup>+0.014</sup>	6°	400000	80000	220	-	9,36 €
GE40ES	40 <sup>+0.010</sup>	62 <sup>+0.013</sup>	53,0	28 <sup>+0.012</sup>	22 <sup>+0.014</sup>	7°	500000	100000	300	✓	12,30 €
GE45ES	45 <sup>+0.010</sup>	68 <sup>+0.013</sup>	60,0	32 <sup>+0.012</sup>	25 <sup>+0.014</sup>	7°	640000	127000	400	-	14,48 €
GE50ES	50 <sup>+0.010</sup>	75 <sup>+0.013</sup>	66,0	35 <sup>+0.012</sup>	28 <sup>+0.014</sup>	6°	780000	156000	540	-	17,34 €
GE60ES	60 <sup>+0.010</sup>	90 <sup>+0.013</sup>	80,0	44 <sup>+0.013</sup>	36 <sup>+0.014</sup>	6°	1220000	245000	1000	-	30,46 €
GE70ES	70 <sup>+0.010</sup>	105 <sup>+0.013</sup>	92,0	49 <sup>+0.013</sup>	40 <sup>+0.014</sup>	6°	1560000	315000	1500	-	39,92 €
GE80ES	80 <sup>+0.010</sup>	120 <sup>+0.013</sup>	105,0	55 <sup>+0.013</sup>	45 <sup>+0.014</sup>	6°	2000000	400000	2200	-	60,64 €
GE90ES	90 <sup>+0.010</sup>	130 <sup>+0.013</sup>	115,0	60 <sup>+0.013</sup>	50 <sup>+0.014</sup>	5°	2450000	490000	2700	-	93,79 €
GE100ES	100 <sup>+0.010</sup>	150 <sup>+0.013</sup>	130,0	70 <sup>+0.013</sup>	55 <sup>+0.014</sup>	7°	3050000	610000	4300	-	130,19 €
GE110ES	110 <sup>+0.010</sup>	160 <sup>+0.013</sup>	140,0	70 <sup>+0.013</sup>	55 <sup>+0.014</sup>	6°	3250000	655000	4700	-	195,65 €

\*Depending on availability - Dimensions in mm

- DIN 648, series E, ISO 6124/1
- Material: steel

### Info.

- Requires maintenance



### DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-30%	On request

Part number	Ød	ØD	ØD1	S	C	δ	Load capacity		Weight (g)	Stock*	Price each 1 to 5
							static (N)	dynamic (N)			
GE15ES-2RS	15 <sup>-0.030</sup>	26 <sup>-0.030</sup>	22,0	12 <sup>+0.12</sup>	9 <sup>-0.24</sup>	8°	85000	17000	20	-	5,39 €
GE17ES-2RS	17 <sup>-0.030</sup>	30 <sup>-0.030</sup>	25,0	14 <sup>+0.12</sup>	10 <sup>-0.24</sup>	10°	106000	21200	40	-	5,73 €
GE20ES-2RS	20 <sup>-0.030</sup>	35 <sup>-0.030</sup>	29,0	16 <sup>+0.12</sup>	12 <sup>-0.24</sup>	9°	146000	30000	60	✓	6,10 €
GE25ES-2RS	25 <sup>-0.030</sup>	42 <sup>-0.030</sup>	35,5	20 <sup>+0.12</sup>	16 <sup>-0.24</sup>	7°	240000	48000	110	-	7,54 €
GE30ES-2RS	30 <sup>-0.030</sup>	47 <sup>-0.030</sup>	40,7	22 <sup>+0.12</sup>	18 <sup>-0.24</sup>	6°	310000	62000	140	-	8,64 €
GE35ES-2RS	35 <sup>-0.030</sup>	55 <sup>-0.030</sup>	47,0	25 <sup>+0.12</sup>	20 <sup>-0.24</sup>	6°	400000	80000	220	✓	10,83 €
GE40ES-2RS	40 <sup>-0.030</sup>	62 <sup>-0.030</sup>	53,0	28 <sup>+0.12</sup>	22 <sup>-0.24</sup>	7°	500000	100000	300	-	13,92 €
GE45ES-2RS	45 <sup>-0.030</sup>	68 <sup>-0.030</sup>	60,0	32 <sup>+0.12</sup>	25 <sup>-0.24</sup>	7°	640000	127000	400	-	16,49 €
GE50ES-2RS	50 <sup>-0.030</sup>	75 <sup>-0.030</sup>	66,0	35 <sup>+0.12</sup>	28 <sup>-0.24</sup>	6°	780000	156000	540	-	21,80 €
GE60ES-2RS	60 <sup>-0.030</sup>	90 <sup>-0.030</sup>	80,0	44 <sup>+0.12</sup>	36 <sup>-0.24</sup>	6°	1220000	245000	1000	-	32,67 €
GE70ES-2RS	70 <sup>-0.030</sup>	105 <sup>-0.030</sup>	92,0	49 <sup>+0.12</sup>	40 <sup>-0.24</sup>	6°	1560000	315000	1500	-	44,44 €
GE80ES-2RS	80 <sup>-0.030</sup>	120 <sup>-0.030</sup>	105,0	55 <sup>+0.12</sup>	45 <sup>-0.24</sup>	6°	2000000	400000	2200	-	67,60 €
GE90ES-2RS	90 <sup>-0.030</sup>	130 <sup>-0.030</sup>	115,0	60 <sup>+0.12</sup>	50 <sup>-0.24</sup>	5°	2450000	490000	2700	-	105,44 €
GE100ES-2RS	100 <sup>-0.030</sup>	150 <sup>-0.030</sup>	130,0	70 <sup>+0.12</sup>	55 <sup>-0.24</sup>	7°	3050000	610000	4300	-	141,81 €
GE110ES-2RS	110 <sup>-0.030</sup>	160 <sup>-0.030</sup>	140,0	70 <sup>+0.12</sup>	55 <sup>-0.24</sup>	6°	3250000	655000	4700	-	217,49 €

\* Depending on availability - Dimensions in mm

# Spherical bearing **DIN 648**



## GEc

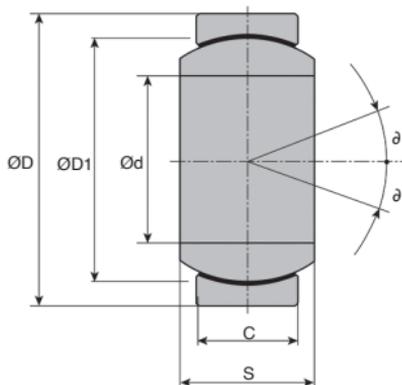
## Hard chrome/PTFE contact

- DIN 648, series E, ISO 6124/1
- Material: steel

### Advantages

- Maintenance free

Maintenance free



### DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -10%	-15%	-20%	-30%	On request	

Part number	Od	OD	OD1	S	C	$\alpha$	Load capacity static (N)	Load capacity dynamic (N)	Weight (g)	Stock*	Price each 1 to 5
GE6C	6 <sup>+0.008</sup>	14 <sup>+0.008</sup>	10,0	6 <sup>+0.012</sup>	4 <sup>+0.011</sup>	13°	9000	3600	4	✓	6,92 €
GE8C	8 <sup>+0.008</sup>	16 <sup>+0.008</sup>	13,0	8 <sup>+0.012</sup>	5 <sup>+0.011</sup>	15°	14600	5850	7	-	7,61 €
GE10C	10 <sup>+0.008</sup>	19 <sup>+0.008</sup>	16,0	9 <sup>+0.012</sup>	6 <sup>+0.011</sup>	12°	21600	8650	10	✓	7,61 €
GE12C	12 <sup>+0.008</sup>	22 <sup>+0.008</sup>	18,0	10 <sup>+0.012</sup>	7 <sup>+0.011</sup>	11°	28500	11400	10	✓	8,29 €
GE15C	15 <sup>+0.008</sup>	26 <sup>+0.008</sup>	22,0	12 <sup>+0.012</sup>	9 <sup>+0.011</sup>	8°	44000	17600	20	✓	10,04 €
GE17C	17 <sup>+0.008</sup>	30 <sup>+0.008</sup>	25,0	14 <sup>+0.012</sup>	10 <sup>+0.011</sup>	10°	56000	22400	30	-	11,43 €
GE20C	20 <sup>+0.010</sup>	35 <sup>+0.011</sup>	29,0	16 <sup>+0.012</sup>	12 <sup>+0.011</sup>	9°	78000	31500	60	-	12,13 €
GE25C	25 <sup>+0.010</sup>	42 <sup>+0.011</sup>	35,5	20 <sup>+0.012</sup>	16 <sup>+0.011</sup>	7°	127000	51000	110	✓	13,53 €
GE30C	30 <sup>+0.010</sup>	47 <sup>+0.011</sup>	40,7	22 <sup>+0.012</sup>	18 <sup>+0.011</sup>	6°	166000	65500	140	✓	15,96 €

\*Depending on availability - Dimensions in mm

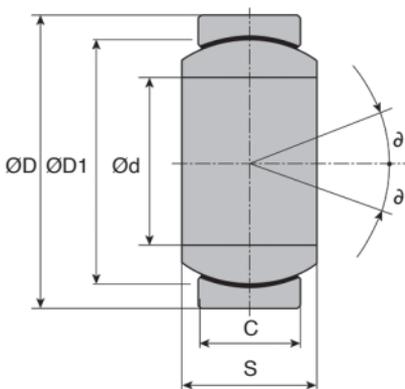
Hard chrome/PTFE contact, with **seals** **GEET2RS**

- DIN 648, series E, ISO 6124/1
- Material: steel

## Advantages

- Maintenance free

**Maintenance free**



## DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-30%	On request

Part number	Ød	ØD	ØD1	S	C	Load capacity static (N)	dynamic (N)	Weight (g)	Stock*	Price each 1 to 5	
											α
GE17ET-2RS	17 <sup>+0.008</sup>	30 <sup>+0.009</sup>	25,0	14 <sup>+0.12</sup>	10 <sup>+0.04</sup>	10°	56000	22400	30	-	14,21 €
GE20ET-2RS	20 <sup>+0.009</sup>	35 <sup>+0.011</sup>	29,0	16 <sup>+0.12</sup>	12 <sup>+0.04</sup>	9°	78000	31500	60	✓	14,58 €
GE25ET-2RS	25 <sup>+0.010</sup>	42 <sup>+0.011</sup>	35,5	20 <sup>+0.12</sup>	16 <sup>+0.04</sup>	7°	127000	51000	110	-	18,08 €
GE30ET-2RS	30 <sup>+0.010</sup>	47 <sup>+0.011</sup>	40,7	22 <sup>+0.12</sup>	18 <sup>+0.04</sup>	6°	166000	65500	140	-	19,49 €
GE35ET-2RS	35 <sup>+0.010</sup>	55 <sup>+0.013</sup>	47,0	25 <sup>+0.12</sup>	20 <sup>+0.04</sup>	6°	224000	112000	220	-	22,98 €
GE40ET-2RS	40 <sup>+0.010</sup>	62 <sup>+0.013</sup>	53,0	28 <sup>+0.12</sup>	22 <sup>+0.04</sup>	7°	280000	140000	300	-	26,46 €
GE45ET-2RS	45 <sup>+0.010</sup>	68 <sup>+0.013</sup>	60,0	32 <sup>+0.12</sup>	25 <sup>+0.04</sup>	7°	360000	180000	400	-	31,36 €
GE50ET-2RS	50 <sup>+0.010</sup>	75 <sup>+0.013</sup>	66,0	35 <sup>+0.12</sup>	28 <sup>+0.04</sup>	6°	440000	220000	540	-	49,53 €
GE60ET-2RS	60 <sup>+0.010</sup>	90 <sup>+0.015</sup>	80,0	44 <sup>+0.15</sup>	36 <sup>+0.04</sup>	6°	695000	345000	1000	-	62,07 €
GE70ET-2RS	70 <sup>+0.010</sup>	105 <sup>+0.015</sup>	92,0	49 <sup>+0.15</sup>	40 <sup>+0.04</sup>	6°	880000	440000	1500	-	83,05 €
GE80ET-2RS	80 <sup>+0.010</sup>	120 <sup>+0.015</sup>	105,0	55 <sup>+0.15</sup>	45 <sup>+0.04</sup>	6°	1140000	570000	2200	-	122,19 €
GE90ET-2RS	90 <sup>+0.010</sup>	130 <sup>+0.015</sup>	115,0	60 <sup>+0.15</sup>	50 <sup>+0.04</sup>	5°	1370000	695000	2700	-	159,19 €
GE100ET-2RS	100 <sup>+0.010</sup>	150 <sup>+0.015</sup>	130,0	70 <sup>+0.20</sup>	55 <sup>+0.04</sup>	7°	1730000	865000	4300	-	319,88 €
GE110ET-2RS	110 <sup>+0.010</sup>	160 <sup>+0.015</sup>	140,0	70 <sup>+0.20</sup>	55 <sup>+0.04</sup>	6°	1860000	930000	4700	-	401,64 €

\* Depending on availability - Dimensions in mm

# Steel spherical bearing **DIN ISO 12240-1** ISO

## CSS Self-lubricating, steel/steel contact

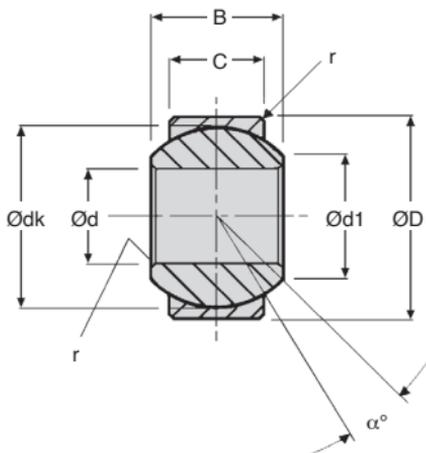
- **Self-aligning spherical bearing DIN ISO 12240-1 K series**
- Working temperature: -30°C to +120°C (150°C occasionally)
- Does not tolerate movement
- Materials:
  - Sphere: steel (100C6), treated, ground and polished.
  - External ring: special self lubricating steel, cold formed on the sphere (acc DIN series K)

### Advantages

- No maintenance required
- Accepts heavy loads
- Resistant to wear

### Assembly

- Normal load  
Bore M7  
Shaft m6
- Heavy load  
Bore N7  
Shaft m6



### DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-10%	-15%	-20%	-30%	On request

Part number	Ød (H7)	B	C	ØD (h6)	Ød1	Ødk	r	Static load Co (daN)	α° Angle of incidence maxi.	Stock*	Price each 1 to 5
CSS-06	6	9	6,75	16	8,9	12,700	0,3	1700	13°	✓	12,60 €
CSS-08	8	12	9,00	19	10,4	15,875	0,3	2800	14°	✓	13,29 €
CSS-10	10	14	10,50	22	12,9	19,050	0,3	4000	13°	✓	13,97 €
CSS-12	12	16	12,00	26	15,4	22,225	0,3	5300	13°	✓	15,29 €
CSS-16	16	21	15,00	32	19,3	28,575	0,3	8500	15°	✓	22,30 €
CSS-20	20	25	18,00	40	24,3	34,925	0,3	12500	14°	✓	35,82 €
CSS-30	30	37	25,00	55	34,8	50,800	0,6	25400	17°	✓	85,45 €

\*Depending on availability - Dimensions in mm

- Self aligning bearing conforming to DIN ISO 12240-1, series E (DIN648)
- Housing: Stainless steel X6CrNiMoTi17-2-2 with a PTFE coating
- Ball: Stainless steel X105CrMo17, hardened and polished
- No lubrication required
- Operating temperature : -50° to +200°C

stainless steel

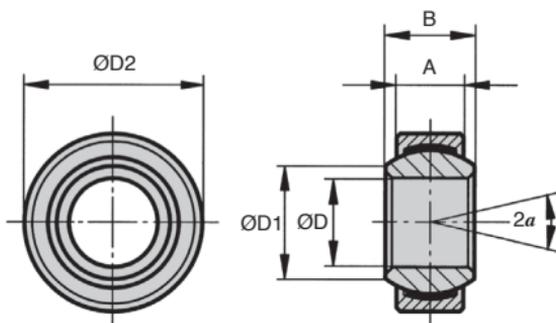


### Assembly

- Shaft tolerance g7
- Ball bore tolerance jS7

### Advantages

- Corrosion resistant and requiring no maintenance, these bearings are suitable for heavy duty applications



### DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-15%	-20%	On request

Part number	Tolerance	ØD	ØD1	ØD2	A	B	Max. static load (kN)	Tilting angle a	Weight (g)	Price each 1 to 5
	(µm)		(h5)							Stock*
CSS-06/SS	6 0/-8	8,0	14	4	6	9,0	13°	4	✓	47,39 €
CSS-08/SS	8 0/-8	10,2	16	5	8	15,6	15°	7	✓	31,55 €
CSS-10/SS	10 0/-8	13,2	19	6	9	23,4	12°	11	✓	42,86 €
CSS-12/SS	12 0/-8	14,9	22	7	10	32,0	11°	16	✓	43,19 €
CSS-15/SS	15 0/-8	18,4	26	9	12	50,0	8°	26	-	70,24 €
CSS-16/SS	16 0/-8	20,7	30	10	14	65,0	10°	49	✓	44,55 €
CSS-17/SS	17 0/-8	20,7	30	10	14	65,0	10°	38	-	80,57 €
CSS-20/SS	20 0/-10	24,2	35	12	16	90,5	9°	61	✓	94,69 €
CSS-25/SS	25 0/-10	29,3	42	16	20	159,0	7°	110	-	111,45 €
CSS-30/SS	30 0/-10	34,2	47	18	22	197,0	6°	140	-	136,99 €

\*Depending on availability - Dimensions in mm

## SSE Stainless steel/PTFE contact

- Allows for alignment and parallelism between shaft and housing
- Allows oscillating movements at slow speeds
- Material: Self-lubricating stainless steel Uniflon®E
- Requires a P7 toleranced housing

### Advantages

- No lubrication or other maintenance required

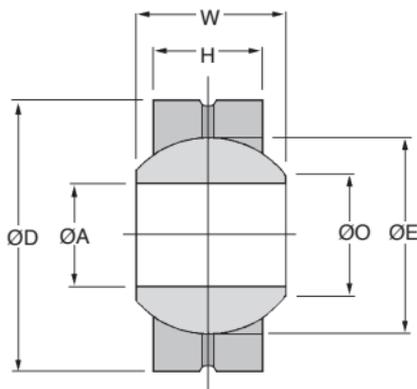
### Uses

- Occasional heavy loads
- Areas where maintenance would be difficult



stainless steel

Swiss precision



### DISCOUNTS

Qty	1+	10+	24+
Disc.	List	-20%	On request

Part number	Static radial load (daN)	Static axial load (daN)	ØA (H6)	ØD (h6)	H	ØØ	W	Sphere ØE	Weight (g)	Price each 1 to 9
SSE3.45	790	250	3	12	4,50	5,18	6	7,93	4	139,64 €
SSE5.45	1500	440	5	16	6,00	7,71	8	11,11	9	134,02 €
SSE6.45	1960	500	6	18	6,75	8,96	9	12,70	12	138,72 €
SSE8.45	3170	620	8	22	9,00	10,40	12	15,88	24	143,76 €
SSE10.45	4530	750	10	26	10,50	12,92	14	19,05	38	184,60 €
SSE12.45	6040	880	12	30	12,00	15,43	16	22,23	57	154,21 €
SSE14.45	7550	1000	14	34	13,50	16,86	19	25,40	83	262,30 €
SSE16.45	9440	1130	16	38	15,00	19,39	21	28,58	110	364,70 €
SSE18.45	11780	1250	18	42	16,50	21,89	23	31,75	150	514,30 €

Dimensions in mm