

Spherical bearing **DIN 648**

GEES

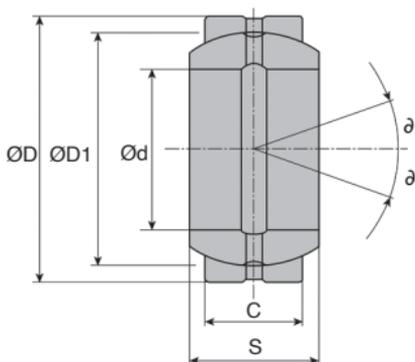
Steel/steel contact

- 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 | |

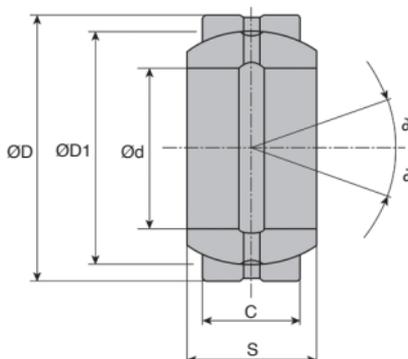
| Part number | Ød | ØD | ØD1 | S | C | δ | Load capacity | | | Stock* | Price each 1 to 5 |
|-------------|-----------------------|-----------------------|-------|----------------------|----------------------|-----|---------------|-------------|------------|--------|-------------------|
| | | | | | | | static (N) | dynamic (N) | Weight (g) | | |
| GE6E | 6 ^{+0.008} | 14 ^{+0.008} | 10,0 | 6 ^{+0.012} | 4 ^{+0.014} | 13° | 17000 | 3400 | <10 | ✓ | 4,28 € |
| GE8E | 8 ^{+0.008} | 16 ^{+0.008} | 13,0 | 8 ^{+0.012} | 5 ^{+0.014} | 15° | 27500 | 5500 | <10 | ✓ | 4,28 € |
| GE10E | 10 ^{+0.008} | 19 ^{+0.008} | 16,0 | 9 ^{+0.012} | 6 ^{+0.014} | 12° | 40500 | 8150 | 10 | ✓ | 4,28 € |
| GE12E | 12 ^{+0.008} | 22 ^{+0.008} | 18,0 | 10 ^{+0.012} | 7 ^{+0.014} | 11° | 54000 | 10800 | 10 | - | 4,28 € |
| GE15ES | 15 ^{+0.008} | 26 ^{+0.008} | 22,0 | 12 ^{+0.012} | 9 ^{+0.014} | 8° | 85000 | 17000 | 20 | ✓ | 4,28 € |
| GE17ES | 17 ^{+0.008} | 30 ^{+0.008} | 25,0 | 14 ^{+0.012} | 10 ^{+0.014} | 10° | 106000 | 21200 | 40 | ✓ | 4,64 € |
| GE20ES | 20 ^{+0.008} | 35 ^{+0.011} | 29,0 | 16 ^{+0.012} | 12 ^{+0.014} | 9° | 146000 | 30000 | 60 | ✓ | 4,64 € |
| GE25ES | 25 ^{+0.010} | 42 ^{+0.011} | 35,5 | 20 ^{+0.012} | 16 ^{+0.014} | 7° | 240000 | 48000 | 110 | ✓ | 5,39 € |
| GE30ES | 30 ^{+0.010} | 47 ^{+0.011} | 40,7 | 22 ^{+0.012} | 18 ^{+0.014} | 6° | 310000 | 62000 | 140 | - | 6,79 € |
| GE35ES | 35 ^{+0.010} | 55 ^{+0.013} | 47,0 | 25 ^{+0.012} | 20 ^{+0.014} | 6° | 400000 | 80000 | 220 | - | 9,36 € |
| GE40ES | 40 ^{+0.010} | 62 ^{+0.013} | 53,0 | 28 ^{+0.012} | 22 ^{+0.014} | 7° | 500000 | 100000 | 300 | ✓ | 12,30 € |
| GE45ES | 45 ^{+0.010} | 68 ^{+0.013} | 60,0 | 32 ^{+0.012} | 25 ^{+0.014} | 7° | 640000 | 127000 | 400 | - | 14,48 € |
| GE50ES | 50 ^{+0.010} | 75 ^{+0.013} | 66,0 | 35 ^{+0.012} | 28 ^{+0.014} | 6° | 780000 | 156000 | 540 | - | 17,34 € |
| GE60ES | 60 ^{+0.010} | 90 ^{+0.013} | 80,0 | 44 ^{+0.013} | 36 ^{+0.014} | 6° | 1220000 | 245000 | 1000 | - | 30,46 € |
| GE70ES | 70 ^{+0.010} | 105 ^{+0.013} | 92,0 | 49 ^{+0.013} | 40 ^{+0.014} | 6° | 1560000 | 315000 | 1500 | - | 39,92 € |
| GE80ES | 80 ^{+0.010} | 120 ^{+0.013} | 105,0 | 55 ^{+0.013} | 45 ^{+0.014} | 6° | 2000000 | 400000 | 2200 | - | 60,64 € |
| GE90ES | 90 ^{+0.008} | 130 ^{+0.014} | 115,0 | 60 ^{+0.013} | 50 ^{+0.014} | 5° | 2450000 | 490000 | 2700 | - | 93,79 € |
| GE100ES | 100 ^{+0.008} | 150 ^{+0.014} | 130,0 | 70 ^{+0.013} | 55 ^{+0.014} | 7° | 3050000 | 610000 | 4300 | - | 130,19 € |
| GE110ES | 110 ^{+0.008} | 160 ^{+0.014} | 140,0 | 70 ^{+0.013} | 55 ^{+0.014} | 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 ^{-0.038} | 26 ^{-0.038} | 22,0 | 12 ^{+0.12} | 9 ^{-0.24} | 8° | 85000 | 17000 | 20 | - | 5,39 € |
| GE17ES-2RS | 17 ^{-0.038} | 30 ^{-0.038} | 25,0 | 14 ^{+0.12} | 10 ^{-0.24} | 10° | 106000 | 21200 | 40 | - | 5,73 € |
| GE20ES-2RS | 20 ^{-0.038} | 35 ^{-0.038} | 29,0 | 16 ^{+0.12} | 12 ^{-0.24} | 9° | 146000 | 30000 | 60 | ✓ | 6,10 € |
| GE25ES-2RS | 25 ^{-0.038} | 42 ^{-0.038} | 35,5 | 20 ^{+0.12} | 16 ^{-0.24} | 7° | 240000 | 48000 | 110 | - | 7,54 € |
| GE30ES-2RS | 30 ^{-0.038} | 47 ^{-0.038} | 40,7 | 22 ^{+0.12} | 18 ^{-0.24} | 6° | 310000 | 62000 | 140 | - | 8,64 € |
| GE35ES-2RS | 35 ^{-0.038} | 55 ^{-0.038} | 47,0 | 25 ^{+0.12} | 20 ^{-0.24} | 6° | 400000 | 80000 | 220 | ✓ | 10,83 € |
| GE40ES-2RS | 40 ^{-0.038} | 62 ^{-0.038} | 53,0 | 28 ^{+0.12} | 22 ^{-0.24} | 7° | 500000 | 100000 | 300 | - | 13,92 € |
| GE45ES-2RS | 45 ^{-0.038} | 68 ^{-0.038} | 60,0 | 32 ^{+0.12} | 25 ^{-0.24} | 7° | 640000 | 127000 | 400 | - | 16,49 € |
| GE50ES-2RS | 50 ^{-0.038} | 75 ^{-0.038} | 66,0 | 35 ^{+0.12} | 28 ^{-0.24} | 6° | 780000 | 156000 | 540 | - | 21,80 € |
| GE60ES-2RS | 60 ^{-0.038} | 90 ^{-0.038} | 80,0 | 44 ^{+0.12} | 36 ^{-0.24} | 6° | 1220000 | 245000 | 1000 | - | 32,67 € |
| GE70ES-2RS | 70 ^{-0.038} | 105 ^{-0.038} | 92,0 | 49 ^{+0.12} | 40 ^{-0.24} | 6° | 1560000 | 315000 | 1500 | - | 44,44 € |
| GE80ES-2RS | 80 ^{-0.038} | 120 ^{-0.038} | 105,0 | 55 ^{+0.12} | 45 ^{-0.24} | 6° | 2000000 | 400000 | 2200 | - | 67,60 € |
| GE90ES-2RS | 90 ^{-0.038} | 130 ^{-0.038} | 115,0 | 60 ^{+0.12} | 50 ^{-0.24} | 5° | 2450000 | 490000 | 2700 | - | 105,44 € |
| GE100ES-2RS | 100 ^{-0.038} | 150 ^{-0.038} | 130,0 | 70 ^{+0.12} | 55 ^{-0.24} | 7° | 3050000 | 610000 | 4300 | - | 141,81 € |
| GE110ES-2RS | 110 ^{-0.038} | 160 ^{-0.038} | 140,0 | 70 ^{+0.12} | 55 ^{-0.24} | 6° | 3250000 | 655000 | 4700 | - | 217,49 € |

* Depending on availability - Dimensions in mm

Spherical bearing **DIN 648**



GEc

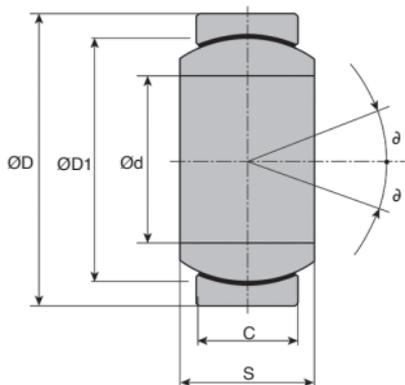
Hard chrome/PTFE contact

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

*Depending on availability - Dimensions in mm

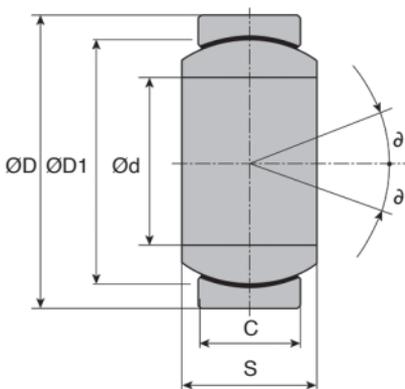
Hard chrome/PTFE contact, with **seals** **GEET2RS**

- 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 ^{+0.008} | 30 ^{+0.009} | 25,0 | 14 ^{+0.12} | 10 ^{+0.04} | 10° | 56000 | 22400 | 30 | - | 14,21 € |
| GE20ET-2RS | 20 ^{+0.009} | 35 ^{+0.011} | 29,0 | 16 ^{+0.12} | 12 ^{+0.04} | 9° | 78000 | 31500 | 60 | ✓ | 14,58 € |
| GE25ET-2RS | 25 ^{+0.010} | 42 ^{+0.011} | 35,5 | 20 ^{+0.12} | 16 ^{+0.04} | 7° | 127000 | 51000 | 110 | - | 18,08 € |
| GE30ET-2RS | 30 ^{+0.010} | 47 ^{+0.011} | 40,7 | 22 ^{+0.12} | 18 ^{+0.04} | 6° | 166000 | 65500 | 140 | - | 19,49 € |
| GE35ET-2RS | 35 ^{+0.010} | 55 ^{+0.013} | 47,0 | 25 ^{+0.12} | 20 ^{+0.04} | 6° | 224000 | 112000 | 220 | - | 22,98 € |
| GE40ET-2RS | 40 ^{+0.010} | 62 ^{+0.013} | 53,0 | 28 ^{+0.12} | 22 ^{+0.04} | 7° | 280000 | 140000 | 300 | - | 26,46 € |
| GE45ET-2RS | 45 ^{+0.010} | 68 ^{+0.013} | 60,0 | 32 ^{+0.12} | 25 ^{+0.04} | 7° | 360000 | 180000 | 400 | - | 31,36 € |
| GE50ET-2RS | 50 ^{+0.010} | 75 ^{+0.013} | 66,0 | 35 ^{+0.12} | 28 ^{+0.04} | 6° | 440000 | 220000 | 540 | - | 49,53 € |
| GE60ET-2RS | 60 ^{+0.010} | 90 ^{+0.015} | 80,0 | 44 ^{+0.15} | 36 ^{+0.04} | 6° | 695000 | 345000 | 1000 | - | 62,07 € |
| GE70ET-2RS | 70 ^{+0.010} | 105 ^{+0.015} | 92,0 | 49 ^{+0.15} | 40 ^{+0.04} | 6° | 880000 | 440000 | 1500 | - | 83,05 € |
| GE80ET-2RS | 80 ^{+0.010} | 120 ^{+0.015} | 105,0 | 55 ^{+0.15} | 45 ^{+0.04} | 6° | 1140000 | 570000 | 2200 | - | 122,19 € |
| GE90ET-2RS | 90 ^{+0.010} | 130 ^{+0.015} | 115,0 | 60 ^{+0.15} | 50 ^{+0.04} | 5° | 1370000 | 695000 | 2700 | - | 159,19 € |
| GE100ET-2RS | 100 ^{+0.010} | 150 ^{+0.015} | 130,0 | 70 ^{+0.20} | 55 ^{+0.04} | 7° | 1730000 | 865000 | 4300 | - | 319,88 € |
| GE110ET-2RS | 110 ^{+0.010} | 160 ^{+0.015} | 140,0 | 70 ^{+0.20} | 55 ^{+0.04} | 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

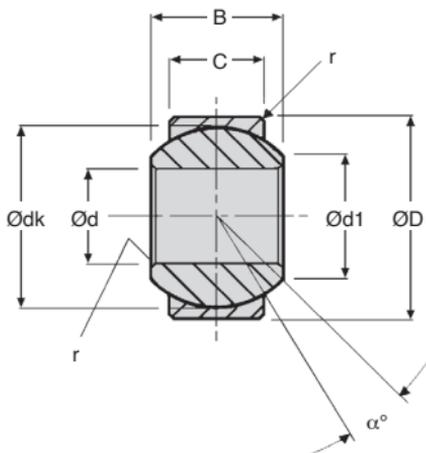
- **Self-aligning spherical bearing DIN ISO 12240-1 K series**
- Working temperature: -30°C to +120°C (150°C occasionally)
- Does not tolerate movement
- Materials:
 - Sphere: steel (100C6), treated, ground and polished.
 - External ring: special self lubricating steel, cold formed on the sphere (acc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

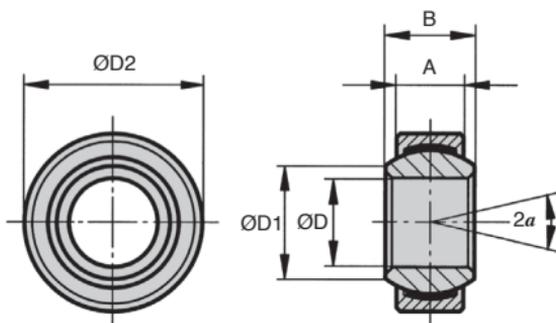


Assembly

- 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

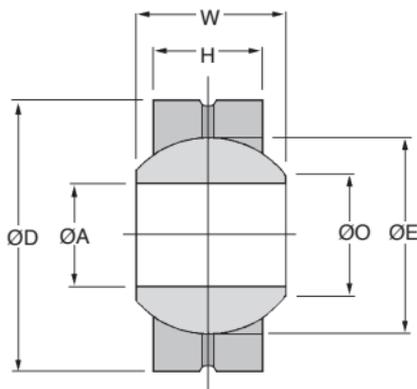
Uses

- 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