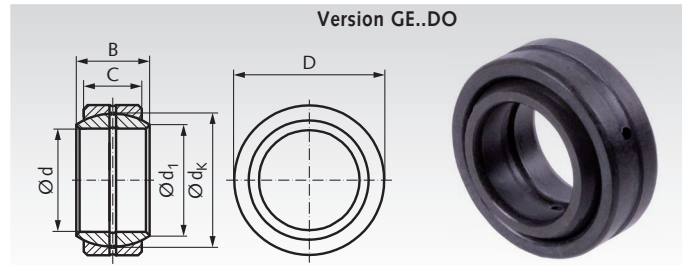


## Spherical Bearings Series E, Steel, re-lubricateable

**Material:** Inner ring and bearing shell from bearing steel 100Cr6, hardened, ground and phosphated. Treated with molybdenum disulfide. Bearing shell (outer ring) cut.

- DIN ISO 12240-1 (DIN 648), series E (slim shape).
- Re-lubricateable (from size 15 with lubrication hole).
- Initial lubrication before use is required.
- Suitable for high, alternating loads.
- Sliding speed up to 60 m/min.



Ordering Details: e.g.: Product No. 633 606 00, Spherical Bearing, Series E, re-lubricateable, 6mm

Product No. Standard	d mm	B mm	C mm	D* mm	d <sub>1</sub> mm	d <sub>k</sub> mm	Tilting Angel α °	Weight g
633 606 00**	6 <sup>-0,008</sup>	6 <sup>-0,12</sup>	4 <sup>-0,24</sup>	14 <sup>-0,008</sup>	8,0	10	13	4
633 608 00**	8 <sup>-0,008</sup>	8 <sup>-0,12</sup>	5 <sup>-0,24</sup>	16 <sup>-0,008</sup>	10,2	13	15	7
633 610 00**	10 <sup>-0,008</sup>	9 <sup>-0,12</sup>	6 <sup>-0,24</sup>	19 <sup>-0,009</sup>	13,2	16	12	11
633 612 00**	12 <sup>-0,008</sup>	10 <sup>-0,12</sup>	7 <sup>-0,24</sup>	22 <sup>-0,009</sup>	14,9	18	11	17
633 615 00	15 <sup>-0,008</sup>	12 <sup>-0,12</sup>	9 <sup>-0,24</sup>	26 <sup>-0,009</sup>	18,4	22	8	26
633 616 00	16 <sup>-0,008</sup>	14 <sup>-0,12</sup>	10 <sup>-0,24</sup>	30 <sup>-0,009</sup>	20,7	25	10	40
633 617 00	17 <sup>-0,008</sup>	14 <sup>-0,12</sup>	10 <sup>-0,24</sup>	30 <sup>-0,009</sup>	20,7	25	10	40
633 620 00	20 <sup>-0,010</sup>	16 <sup>-0,12</sup>	12 <sup>-0,24</sup>	35 <sup>-0,011</sup>	24,1	29	9	64
633 625 00	25 <sup>-0,010</sup>	20 <sup>-0,12</sup>	16 <sup>-0,24</sup>	42 <sup>-0,011</sup>	29,3	35,5	7	115
633 630 00	30 <sup>-0,010</sup>	22 <sup>-0,12</sup>	18 <sup>-0,24</sup>	47 <sup>-0,011</sup>	34,2	40,7	6	149
633 635 00	35 <sup>-0,012</sup>	25 <sup>-0,12</sup>	20 <sup>-0,24</sup>	55 <sup>-0,013</sup>	39,7	47	6	228
633 640 00	40 <sup>-0,012</sup>	28 <sup>-0,12</sup>	22 <sup>-0,24</sup>	62 <sup>-0,013</sup>	45,0	53	7	318
633 645 00	45 <sup>-0,012</sup>	32 <sup>-0,12</sup>	25 <sup>-0,24</sup>	68 <sup>-0,013</sup>	50,7	60	7	421
633 650 00	50 <sup>-0,012</sup>	35 <sup>-0,12</sup>	28 <sup>-0,24</sup>	75 <sup>-0,013</sup>	55,9	66	6	562
633 660 00	60 <sup>-0,015</sup>	44 <sup>-0,15</sup>	36 <sup>-0,30</sup>	90 <sup>-0,015</sup>	66,8	80	6	1030
633 670 00	70 <sup>-0,015</sup>	49 <sup>-0,15</sup>	40 <sup>-0,30</sup>	105 <sup>-0,015</sup>	77,8	92	6	1570
633 680 00	80 <sup>-0,015</sup>	55 <sup>-0,15</sup>	45 <sup>-0,30</sup>	120 <sup>-0,015</sup>	89,4	105	6	2320

\* Outer ring tolerance before cutting. \*\* Up to size 12 without lubrication bore. Technical tables page 636 - 637.

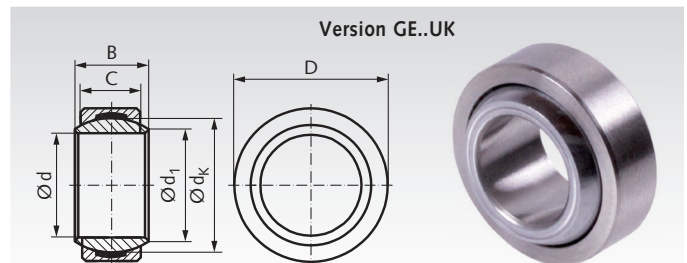
## Spherical Bearings Series E, Steel or Stainless Steel, maintenance-free

**Material standard:** Inner ring bearing steel 100Cr6, hardened, ground, polished and hard chromed. Bearing shell from bearing steel, 100Cr6 with PTFE-lining. From size 35 in 2RS-version (sealed on both sides).

**Material stainless:** Inner ring stainless steel 1.4125, AISI 440 C (from size 45 stainless steel 1.4112), hardened, ground and polished. Bearing shell stainless steel 1.4571 (AISI 316 Ti), with PTFE-lining.



- DIN ISO 12240-1 (DIN 648), series E (slim shape).
- Maintenance-free.
- Suitable for high unidirectional load.
- Sliding speed up to 10 m/min.



Ordering Details: e.g.: Product No. 633 706 00, Spherical Bearing, Series E, maintenance-free, 6mm

Product No. Standard	Product No. Stainless	d mm	B mm	C mm	D mm	d <sub>1</sub> mm	d <sub>k</sub> mm	Tilting Angel α °	Weight g
633 706 00	633 997 06	6 <sup>-0,008</sup>	6 <sup>-0,12</sup>	4 <sup>-0,24</sup>	14 <sup>-0,008</sup>	8,0	10	13	4
633 708 00	633 997 08	8 <sup>-0,008</sup>	8 <sup>-0,12</sup>	5 <sup>-0,24</sup>	16 <sup>-0,008</sup>	10,2	13	15	7
633 710 00	633 997 10	10 <sup>-0,008</sup>	9 <sup>-0,12</sup>	6 <sup>-0,24</sup>	19 <sup>-0,009</sup>	13,2	16	12	11
633 712 00	633 997 12	12 <sup>-0,008</sup>	10 <sup>-0,12</sup>	7 <sup>-0,24</sup>	22 <sup>-0,009</sup>	14,9	18	11	17
633 715 00	633 997 15	15 <sup>-0,008</sup>	12 <sup>-0,12</sup>	9 <sup>-0,24</sup>	26 <sup>-0,009</sup>	18,4	22	8	26
633 716 00	633 997 16	16 <sup>-0,008</sup>	14 <sup>-0,12</sup>	10 <sup>-0,24</sup>	30 <sup>-0,009</sup>	20,7	25	10	40
633 717 00	633 997 17	17 <sup>-0,008</sup>	14 <sup>-0,12</sup>	10 <sup>-0,24</sup>	30 <sup>-0,009</sup>	20,7	25	10	40
633 720 00	633 997 20	20 <sup>-0,010</sup>	16 <sup>-0,12</sup>	12 <sup>-0,24</sup>	35 <sup>-0,011</sup>	24,1	29	9	64
633 725 00	633 997 25	25 <sup>-0,010</sup>	20 <sup>-0,12</sup>	16 <sup>-0,24</sup>	42 <sup>-0,011</sup>	29,3	35,5	7	115
633 730 00	633 997 30	30 <sup>-0,010</sup>	22 <sup>-0,12</sup>	18 <sup>-0,24</sup>	47 <sup>-0,011</sup>	34,2	40,7	6	149
633 735 00*	633 997 35	35 <sup>-0,012</sup>	25 <sup>-0,12</sup>	20 <sup>-0,24</sup>	55 <sup>-0,013</sup>	39,8	47	6	228
633 740 00*	633 997 40	40 <sup>-0,012</sup>	28 <sup>-0,12</sup>	22 <sup>-0,24</sup>	62 <sup>-0,013</sup>	45,0	53	7	318
633 745 00*	-	45 <sup>-0,012</sup>	32 <sup>-0,12</sup>	25 <sup>-0,24</sup>	68 <sup>-0,013</sup>	50,8	60	7	421
633 750 00*	633 997 50	50 <sup>-0,012</sup>	35 <sup>-0,12</sup>	28 <sup>-0,24</sup>	75 <sup>-0,013</sup>	56,0	66	6	532
633 760 00*	633 997 60	60 <sup>-0,015</sup>	44 <sup>-0,15</sup>	36 <sup>-0,30</sup>	90 <sup>-0,015</sup>	66,8	80	6	1030
633 770 00*	633 997 70	70 <sup>-0,015</sup>	49 <sup>-0,15</sup>	40 <sup>-0,30</sup>	105 <sup>-0,015</sup>	77,9	92	6	1570
633 780 00*	633 997 80	80 <sup>-0,015</sup>	55 <sup>-0,15</sup>	45 <sup>-0,30</sup>	120 <sup>-0,015</sup>	89,4	105	6	2320

\* From size 35 in 2RS-version (sealed on both sides).

Technical tables page 636 - 637.