

ESZ type 150 | for static component bearing

$R_{\perp d}$ [N/mm²] | Bearing thickness $t = 15$ mm

Important note:

The table shows the maximum permissible values of the load-bearing capacity with corresponding rotational capacity parallel to side b (α_b) in accordance with the approval conditions and is only intended as a guide. In our opinion, the interaction between compressive stress and rotation is not taken into account in a practical manner.

As soon as holes are drilled in the bearing, the shape factor changes and therefore the entire basis for design changes.

You can conveniently carry out a specific dimensioning for your application using the [ESZ dimensioning tool online](#).



| α_s [%] | side a [mm] | side b [mm] | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------|-------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 230 | 250 | 270 | 300 | 350 | 400 | 450 | 500 |
| 40,0 | 80 | 6,2 | 6,8 | 7,3 | 7,8 | 8,2 | 8,5 | 8,9 | 9,2 | 9,4 | 9,7 | 9,9 | 10,2 | 10,4 | 10,9 | 11,2 | 11,5 | 11,8 | 12,3 | 12,7 | 13,0 | 13,2 |
| 40,0 | 90 | | 7,4 | 8,0 | 8,5 | 9,0 | 9,4 | 9,8 | 10,1 | 10,5 | 10,8 | 11,1 | 11,3 | 11,5 | 12,2 | 12,5 | 12,9 | 13,3 | 13,8 | 14,3 | 14,7 | 15,0 |
| 40,0 | 100 | | | 8,6 | 9,2 | 9,7 | 10,2 | 10,6 | 11,1 | 11,4 | 11,8 | 12,1 | 12,4 | 12,7 | 13,4 | 13,8 | 14,2 | 14,7 | 15,3 | 15,9 | 16,3 | 16,7 |
| 40,0 | 110 | | | | 9,8 | 10,4 | 10,9 | 11,4 | 11,9 | 12,3 | 12,7 | 13,0 | 13,4 | 13,7 | 14,5 | 15,0 | 15,4 | 16,0 | 16,8 | 17,4 | 17,9 | 18,3 |
| 40,0 | 120 | | | | | 11,1 | 11,6 | 12,2 | 12,7 | 13,1 | 13,5 | 13,9 | 14,3 | 14,7 | 15,6 | 16,1 | 16,6 | 17,2 | 18,1 | 18,8 | 19,4 | 19,9 |
| 40,0 | 130 | | | | | | 12,3 | 12,8 | 13,4 | 13,9 | 14,3 | 14,8 | 15,2 | 15,6 | 16,6 | 17,2 | 17,7 | 18,4 | 19,4 | 20,2 | 20,9 | 21,0 |
| 40,0 | 140 | | | | | | | 13,5 | 14,0 | 14,6 | 15,1 | 15,6 | 16,0 | 16,4 | 17,6 | 18,2 | 18,8 | 19,6 | 20,7 | 21,0 | 21,0 | 21,0 |
| 40,0 | 150 | | | | | | | | 14,7 | 15,2 | 15,8 | 16,3 | 16,8 | 17,2 | 18,5 | 19,2 | 19,8 | 20,7 | 21,0 | 21,0 | 21,0 | 21,0 |
| 40,0 | 160 | | | | | | | | | 15,9 | 16,4 | 17,0 | 17,5 | 18,0 | 19,3 | 20,1 | 20,8 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 39,7 | 170 | | | | | | | | | | 17,1 | 17,7 | 18,2 | 18,7 | 20,1 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 37,5 | 180 | | | | | | | | | | | 18,3 | 18,9 | 19,4 | 20,9 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 35,5 | 190 | | | | | | | | | | | | 19,5 | 20,1 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 33,8 | 200 | | | | | | | | | | | | | 20,7 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 32,1 | 210 | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 30,7 | 220 | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 29,3 | 230 | | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 28,1 | 240 | | | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 27,0 | 250 | | | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 26,0 | 260 | | | | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 | 21,0 |
| 25,0 | 270 | | | | | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 | 21,0 |
| 24,1 | 280 | | | | | | | | | | | | | | | | | | | 21,0 | 21,0 | 21,0 |
| 23,3 | 290 | | | | | | | | | | | | | | | | | | | | 21,0 | 21,0 |
| 22,5 | 300 | | | | | | | | | | | | | | | | | | | | | 21,0 |
| 19,3 | 350 | | | | | | | | | | | | | | | | | | | | | 21,0 |
| 16,9 | 400 | | | | | | | | | | | | | | | | | | | | | 21,0 |
| 15,0 | 450 | | | | | | | | | | | | | | | | | | | | | 21,0 |

Bearing thickness $t = 15$ mm: Limit dimension of shorter bearing side $a_{max} = 450$ mm

ESZ type 150 | for static component bearing

$F_{d,max}$ [kN] | Bearing thickness $t = 15$ mm

Important note:

The table shows the maximum permissible values of the load-bearing capacity with corresponding rotational capacity parallel to side b (α_b) in accordance with the approval conditions and is only intended as a guide. In our opinion, the interaction between compressive stress and rotation is not taken into account in a practical manner.

As soon as holes are drilled in the bearing, the shape factor changes and therefore the entire basis for design changes.

You can conveniently carry out a specific dimensioning for your application using the [ESZ dimensioning tool online](#).



| α_s [%] | side a [mm] | side b [mm] | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------|-------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 230 | 250 | 270 | 300 | 350 | 400 | 450 | 500 | | | | |
| 40.0 | 80 | 40 | 49 | 58 | 68 | 78 | 89 | 99 | 110 | 121 | 132 | 143 | 154 | 166 | 200 | 224 | 248 | 283 | 344 | 405 | 466 | 528 | | | | |
| 40.0 | 90 | | 60 | 72 | 84 | 97 | 110 | 123 | 137 | 151 | 165 | 179 | 193 | 208 | 252 | 282 | 312 | 358 | 436 | 514 | 594 | 673 | | | | |
| 40.0 | 100 | | | 86 | 101 | 117 | 133 | 149 | 166 | 183 | 200 | 217 | 235 | 253 | 308 | 345 | 383 | 440 | 536 | 635 | 734 | 833 | | | | |
| 40.0 | 110 | | | | 119 | 138 | 157 | 176 | 196 | 216 | 237 | 258 | 280 | 301 | 367 | 412 | 458 | 527 | 645 | 764 | 885 | 1007 | | | | |
| 40.0 | 120 | | | | | 159 | 181 | 204 | 228 | 252 | 276 | 301 | 326 | 352 | 430 | 484 | 538 | 621 | 761 | 904 | 1048 | 1194 | | | | |
| 40.0 | 130 | | | | | | 207 | 234 | 261 | 289 | 317 | 346 | 375 | 405 | 496 | 559 | 622 | 719 | 884 | 1052 | 1222 | 1365 | | | | |
| 40.0 | 140 | | | | | | | 264 | 295 | 327 | 359 | 392 | 426 | 460 | 565 | 637 | 711 | 822 | 1013 | 1176 | 1323 | 1470 | | | | |
| 40.0 | 150 | | | | | | | | 330 | 366 | 403 | 440 | 478 | 517 | 637 | 719 | 803 | 930 | 1103 | 1260 | 1418 | 1575 | | | | |
| 40.0 | 160 | | | | | | | | | 406 | 447 | 489 | 532 | 576 | 711 | 804 | 898 | 1008 | 1176 | 1344 | 1512 | 1680 | | | | |
| 39.7 | 170 | | | | | | | | | | 493 | 540 | 588 | 637 | 787 | 891 | 964 | 1071 | 1250 | 1428 | 1607 | 1785 | | | | |
| 37.5 | 180 | | | | | | | | | | | 592 | 645 | 699 | 866 | 945 | 1021 | 1134 | 1323 | 1512 | 1701 | 1890 | | | | |
| 35.5 | 190 | | | | | | | | | | | | 703 | 762 | 918 | 998 | 1077 | 1197 | 1397 | 1596 | 1796 | 1995 | | | | |
| 33.8 | 200 | | | | | | | | | | | | | 827 | 966 | 1050 | 1134 | 1260 | 1470 | 1680 | 1890 | 2100 | | | | |
| 32.1 | 210 | | | | | | | | | | | | | | 1014 | 1103 | 1191 | 1323 | 1544 | 1764 | 1985 | 2205 | | | | |
| 30.7 | 220 | | | | | | | | | | | | | | | 1063 | 1155 | 1247 | 1386 | 1617 | 1848 | 2079 | 2310 | | | |
| 29.3 | 230 | | | | | | | | | | | | | | | | 1111 | 1208 | 1304 | 1449 | 1691 | 1932 | 2174 | 2415 | | |
| 28.1 | 240 | | | | | | | | | | | | | | | | | 1260 | 1361 | 1512 | 1764 | 2016 | 2268 | 2520 | | |
| 27.0 | 250 | | | | | | | | | | | | | | | | | | 1313 | 1418 | 1575 | 1838 | 2100 | 2363 | 2625 | |
| 26.0 | 260 | | | | | | | | | | | | | | | | | | | 1474 | 1638 | 1911 | 2184 | 2457 | 2730 | |
| 25.0 | 270 | | | | | | | | | | | | | | | | | | | | 1531 | 1701 | 1985 | 2268 | 2552 | 2835 |
| 24.1 | 280 | | | | | | | | | | | | | | | | | | | | 1764 | 2058 | 2352 | 2646 | 2940 | |
| 23.3 | 290 | | | | | | | | | | | | | | | | | | | | 1827 | 2132 | 2436 | 2741 | 3045 | |
| 22.5 | 300 | | | | | | | | | | | | | | | | | | | | 1890 | 2205 | 2520 | 2835 | 3150 | |
| 19.3 | 350 | | | | | | | | | | | | | | | | | | | | 2573 | 2940 | 3308 | 3675 | | |
| 16.9 | 400 | | | | | | | | | | | | | | | | | | | | | 3360 | 3780 | 4200 | | |
| 15.0 | 450 | | | | | | | | | | | | | | | | | | | | | | 4253 | 4725 | | |