

ESZ type 100 | 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	6,5	6,9	7,3	7,7	8,0	8,2	8,5	8,7	8,9	9,1	9,3	9,4	9,6	10,0	10,2	10,4	10,7	11,0	11,3	11,5	11,7
40,0	90		7,4	7,8	8,2	8,6	8,9	9,2	9,4	9,7	9,9	10,1	10,3	10,5	10,9	11,2	11,5	11,8	12,5	13,2	13,7	14,0
40,0	100			8,3	8,7	9,1	9,5	9,8	10,1	10,4	10,6	10,9	11,1	11,3	11,8	12,4	13,0	13,7	14,0	14,0	14,0	14,0
40,0	110				9,2	9,6	10,0	10,4	10,7	11,0	11,3	11,6	11,8	12,3	13,5	14,0	14,0	14,0	14,0	14,0	14,0	14,0
40,0	120					10,1	10,5	10,9	11,3	11,6	12,0	12,6	13,2	13,7	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
40,0	130						11,0	11,4	11,8	12,5	13,2	13,8	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
40,0	140							11,9	12,8	13,6	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
40,0	150								13,7	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
40,0	160									14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
39,7	170										14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
37,5	180											14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
35,5	190												14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
33,8	200													14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
32,1	210														14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
30,7	220															14,0	14,0	14,0	14,0	14,0	14,0	14,0
29,3	230																14,0	14,0	14,0	14,0	14,0	14,0
28,1	240																	14,0	14,0	14,0	14,0	14,0
27,0	250																		14,0	14,0	14,0	14,0
26,0	260																			14,0	14,0	14,0
25,0	270																				14,0	14,0
24,1	280																					14,0
23,3	290																					14,0
22,5	300																					14,0
19,3	350																					14,0
16,9	400																					14,0
15,0	450																					14,0

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

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

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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	42	50	59	67	76	86	95	104	114	124	134	144	154	184	204	225	256	309	362	415	469				
40.0	90		60	71	81	93	104	116	127	139	151	164	176	189	227	252	278	318	393	474	554	630				
40.0	100			83	96	110	123	137	152	166	181	196	211	226	272	311	350	410	490	560	630	700				
40.0	110				111	127	143	160	177	194	212	230	247	270	341	385	416	462	539	616	693	770				
40.0	120					146	164	184	203	224	246	273	301	328	386	420	454	504	588	672	756	840				
40.0	130						186	208	231	261	292	323	346	364	419	455	491	546	637	728	819	910				
40.0	140							234	268	304	333	353	372	392	451	490	529	588	686	784	882	980				
40.0	150								308	336	357	378	399	420	483	525	567	630	735	840	945	1050				
40.0	160									358	381	403	426	448	515	560	605	672	784	896	1008	1120				
39.7	170										405	428	452	476	547	595	643	714	833	952	1071	1190				
37.5	180											454	479	504	580	630	680	756	882	1008	1134	1260				
35.5	190												505	532	612	665	718	798	931	1064	1197	1330				
33.8	200													560	644	700	756	840	980	1120	1260	1400				
32.1	210														676	735	794	882	1029	1176	1323	1470				
30.7	220															708	770	832	924	1078	1232	1386	1540			
29.3	230																741	805	869	966	1127	1288	1449	1610		
28.1	240																	840	907	1008	1176	1344	1512	1680		
27.0	250																		875	945	1050	1225	1400	1575	1750	
26.0	260																			983	1092	1274	1456	1638	1820	
25.0	270																			1021	1134	1323	1512	1701	1890	
24.1	280																				1176	1372	1568	1764	1960	
23.3	290																				1218	1421	1624	1827	2030	
22.5	300																				1260	1470	1680	1890	2100	
19.3	350																					1715	1960	2205	2450	
16.9	400																						2240	2520	2800	
15.0	450																								2835	3150