

ESZ type 100 | for static component bearing

R_{ld} [N/mm²] | Bearing thickness $t = 10$ 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_b [%]	side a [mm]	side b [mm]																	
		70	80	90	100	110	120	130	140	150	160	170	180	190	200	230	250	270	300
40,0	50	-	-	-	8,3	8,6	8,8	9,1	9,3	9,4	9,6	9,7	9,9	10,0	10,1	10,4	10,6	10,7	10,9
40,0	60	-	-	-	9,4	9,8	10,1	10,4	10,6	10,9	11,1	11,3	11,5	11,6	11,8	12,4	12,8	13,2	13,7
40,0	70	8,8	9,4	9,9	10,4	10,9	11,2	11,6	11,9	12,5	13,0	13,5	13,8	14,0	14,0	14,0	14,0	14,0	14,0
40,0	80		10,1	10,7	11,3	11,8	12,6	13,4	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
40,0	90			11,5	12,3	13,4	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	100				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	14,0
40,0	110					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	14,0
37,5	120						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
34,6	130							14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
32,1	140								14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
30,0	150									14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
28,1	160										14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
26,5	170											14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
25,0	180												14,0	14,0	14,0	14,0	14,0	14,0	14,0
23,7	190													14,0	14,0	14,0	14,0	14,0	14,0
22,5	200														14,0	14,0	14,0	14,0	14,0
21,4	210															14,0	14,0	14,0	14,0
20,5	220																14,0	14,0	14,0
19,6	230																	14,0	14,0
18,8	240																		14,0
18,0	250																		14,0
17,3	260																		14,0
16,7	270																		14,0
16,1	280																		14,0
15,5	290																		14,0
15,0	300																		14,0

Bearing thickness $t = 10$ mm: Limit dimension of shorter bearing side $a_{max} = 300$ mm

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$F_{d,max}$ [kN] | bearing thickness $t = 10$ mm

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α_b [%]	side a [mm]	side b [mm]																					
		70	80	90	100	110	120	130	140	150	160	170	180	190	200	230	250	270	300				
40,0	50	-	-	-	42	47	53	59	65	71	77	83	89	95	101	120	132	144	163				
40,0	60	-	-	-	57	65	73	81	89	98	106	115	124	132	141	171	193	214	246				
40,0	70	43	53	63	73	84	94	105	117	131	146	160	174	186	196	225	245	265	294				
40,0	80		65	77	90	104	121	140	157	168	179	190	202	213	224	258	280	302	336				
40,0	90			93	111	133	151	164	176	189	202	214	227	239	252	290	315	340	378				
40,0	100				137	154	168	182	196	210	224	238	252	266	280	322	350	378	420				
40,0	110					169	185	200	216	231	246	262	277	293	308	354	385	416	462				
37,5	120						202	218	235	252	269	286	302	319	336	386	420	454	504				
34,6	130							237	255	273	291	309	328	346	364	419	455	491	546				
32,1	140								274	294	314	333	353	372	392	451	490	529	588				
30,0	150									315	336	357	378	399	420	483	525	567	630				
28,1	160										358	381	403	426	448	515	560	605	672				
26,5	170											405	428	452	476	547	595	643	714				
25,0	180												454	479	504	580	630	680	756				
23,7	190													505	532	612	665	718	798				
22,5	200														560	644	700	756	840				
21,4	210															676	735	794	882				
20,5	220																708	770	832	924			
19,6	230																	741	805	869	966		
18,8	240																		840	907	1008		
18,0	250																			875	945	1050	
17,3	260																				983	1092	
16,7	270																					1021	1134
16,1	280																						1176
15,5	290																						1218
15,0	300																						1260