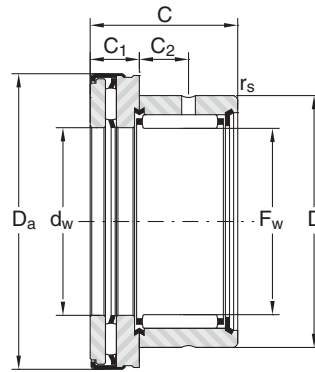
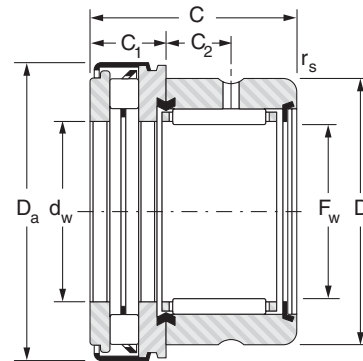


Combined bearings with incorporated thrust plate RAXPZ 400 – RAXZ 500

Machine-tool
quality combined
bearings
RAXNPZ 400,
RAXNZ 500
series

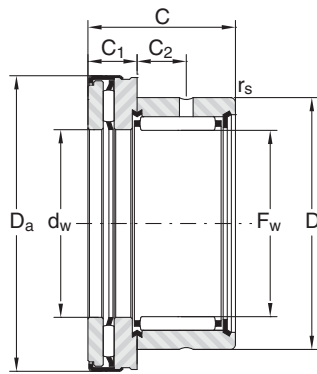


RAXPZ400 - RAXNPZ 400

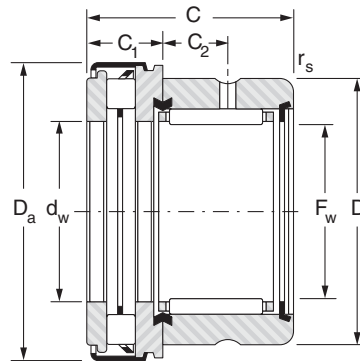


RAXZ 500 - RAXNZ 500

Shaft Ø mm	Designations		Fw mm	D mm	C mm	da mm	Da mm	C1 mm	C2 mm	rs min mm
	RAXPZ 400 series	RAXZ 500 series								
10	RAXPZ 410		10	19	21	10	22.4	7	6	0.35
		RAXZ 510	10	19	21.5	10	22.4	7.5	6	0.35
12	RAXPZ 412		12	21	21	12	26.4	7	6	0.35
		RAXZ 512	12	21	22	12	26.4	8	6	0.35
15	RAXPZ 415		15	24	21	15	28.4	7	6	0.35
		RAXZ 515	15	24	22	15	28.4	8	6	0.35
17	RAXPZ 417		17	26	23	17	30.4	7	8	0.65
		RAXZ 517	17	26	24	17	30.4	8	8	0.65
20	RAXPZ 420		20	30	27	20	35.4	9	9	0.85
		RAXZ 520	20	30	29	20	35.4	11	9	0.85
25	RAXPZ 425		25	37	27	25	43	9	9	0.85
		RAXZ 525	25	37	29	25	43	11	9	0.85
30	RAXPZ 430		30	42	27	30	48	9	9	0.85
		RAXZ 530	30	42	29	30	48	11	9	0.85
35	RAXPZ 435		35	71	27	35	54	9	9	0.85
		RAXZ 535	35	47	30	35	54	12	9	0.85
40	RAXPZ 440		40	52	27	40	61	9	9	0.85
		RAXZ 540	40	52	31	40	61	13	9	0.85
45	RAXPZ 445		45	58	27	45	66	9	9	0.85
		RAXZ 545	45	58	31	45	66	13	9	0.85
50	RAXPZ 450		50	62	30	50	71	9	11	1.3
		RAXZ 550	50	62	34	50	71	13	11	1.3
60	RAXPZ 460		60	72	32	60	86	11	11	1.3
		RAXZ 560	60	72	36	60	86	15	11	1.3
70	RAXPZ 470		70	85	32	70	96	11	11	1.3
		RAXZ 570	70	85	36	70	96	15	11	1.3



RAXPZ400 - RAXNPZ 400

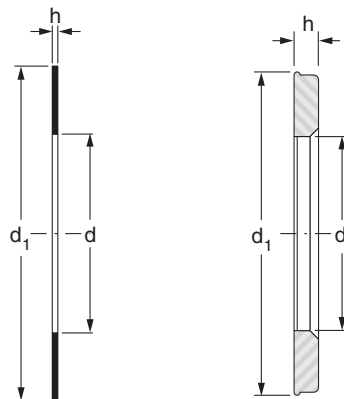


RAXZ 500 - RAXNZ 500

Load Ratings kN				Speed rating min ⁻¹	Weight kg	Shaft Ø mm
Radial		Axial				
Dyn. C	Stat. Co	Dyn. C	Stat. Co			
5.9	7.2	5	10.9	15500	0.029	10
5.9	7.2	8.2	17.9	15500	0.031	
6.8	9	7.1	18.5	13000	0.038	12
6.8	9	12.7	29.5	13000	0.039	
9.66	12.6	7.6	20.8	11500	0.040	15
9.66	12.6	14	34	11500	0.044	
11.8	16.3	8.1	23	10500	0.048	17
11.8	16.3	15	39	10500	0.053	
14.8	23.7	11.8	39	9000	0.079	20
14.8	23.7	22	54	9000	0.086	
15.1	26.2	13.3	49	7500	0.118	25
15.1	26.2	25.5	70	7500	0.131	
20.2	34.6	14.5	57	6.500	0.133	30
20.2	34.6	26.5	77	6.500	0.147	
22.1	40.8	18.9	84	5.500	0.157	35
22.1	40.8	33.8	94	5.500	0.181	
23.8	47	20.4	96	5.000	0.184	40
23.8	47	46	129	5.000	0.218	
24.9	51.8	21.8	109	4.500	0.216	45
24.9	51.8	49	143	4.500	0.255	
30.2	68.5	22.5	118	4.000	0.245	50
30.2	68.5	51	157	4.000	0.287	
31.9	78.1	31.5	193	3.500	0.365	60
31.9	78.1	71	255	3.500	0.423	
36.1	84.7	34.5	223	3.000	0.479	70
36.1	84.7	77	295	3.000	0.545	

Thrust plates for standard combined bearings

CP thin and thick series



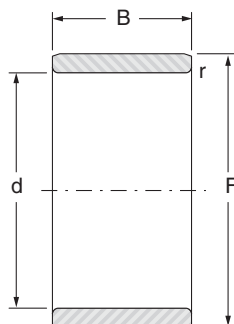
CP thin

CP thick

Shaft Ø mm	Designations		d mm	d ₁ mm	h mm	Weight g	For combined bearings		
	CP Thin series	CF Thick series					RAX 700 RAXF 700	RAX 400	RAX 500
10	CP 10 22		10	21.5	0.8	1.7		RAX 410	RAX 510
		CP 2 10 22	10	21.5	2	4.3			
12	CP 12 26		12	25.5	0.8	2.5	RAX, RAXF 712	RAX 412	RAX 512
		CP 2 12 26	12	25.5	2	6.2			
14	CP 14 26		14	25.5	0.8	2.3	RAX, RAXF 714		
		CP 2 14 26	14	25.5	2	5.6			
15	CP 15 28		15	27.5	0.8	2.8	RAX, RAXF 715	RAX 415	RAX 515
		CP 2 15 28	15	27.5	2	6			
17	CP 17 30		17	29.5	0.8	2.5		RAX 417	RAX 517
		CP 2 17 30	17	29.5	2	7			
18	CP 18 30		18	29.5	0.8	2.3	RAX, RAXF 718		
		CP 2 18 30	18	29.5	2	5.7			
20	CP 20 35		20	34.5	0.8	3.8	RAX, RAXF 720	RAX 420	RAX 520
		CP 3 20 35	20	34.5	3	13			
25	CP 25 42		25	41.5	0.8	5.3	RAX, RAXF725	RAX425	RAX 525
		CP 3 25 42	25	41.5	3	19			
30	CP 30 47		30	46.5	0.8	6	RAX, RAXF 730	RAX 430	RAX 530
		CP 3 30 47	30	46.5	3	22			
35	CP 35 52		35	51.5	0.8	7	RAX, RAXF 735	RAX 435	RAX 535
		CP 3 35 52	35	51.5	3	26			
40	CP 40 60		40	59.5	0.8	9.3	RAX, RAXF 740	RAX 440	RAX 540
		CP 3 40 60	40	59.5	3	34			
45	CP 45 65		45	64.4	0.8	10	RAX, RAXF 745	RAX 445	RAX 545
		CP 3 45 65	45	64.4	3	37			
50	CP 50 70		50	69.4	0.8	11		RAX 450	RAX 550
		CP 3 50 70	50	69.4	3	40			
60	CP 60 85		60	84.3	0.8	17		RAX 460	RAX 560
		CP 4 60 85	60	84.3	4	83			
70	CP 1.5 70 95		70	94.3	1.5	32		RAX 470	RAX 570
		CP 4 70 95	70	94.3	4	93			

Inner rings for standard combined bearings

JR standard series

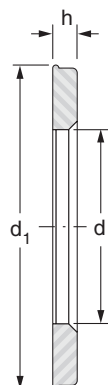


JR

Shaft Ø mm	Designations		d mm	F mm	B mm	r mm	Weight g	For combined bearings		
	JR series	JR series						RAX 700 RAXF 700	RAX 400 RAXPZ 400	RAX 500 RAXZ 500
7		JR 7x10x16	7	10	16	0.2	4.8		RAX 410	RAX 510
8	JR 8x12x12,5		8	12	12.5	0.3	5.8	RAX 712		
9		JR 9x12x16	9	12	16	0.2	5.9		RAX 412	RAX 512
10	JR 10x14x12		10	14	12	0.3	7	RAX 714		
12	JR 12x15x12,5		12	15	12.5	0.2	5.8	RAX 715		
		JR 12x15x16	12	15	16	0.2	7.6		RAX 415	RAX 515
13	JR 15x18x16,5		13	18	16.5	0.35	15	RAX 718		
14		JR 14x17x17	14	17	17	0.2	9.3		RAX 417	RAX 517
15	JR 15x20 16		15	20	16	0.35	17	RAX 720		
		JR 17x20x20	15	20	20	0.35	20.5		RAX 420	RAX 520
20		JR 20x25x20	20	25	20	0.35	32		RAX 425	RAX 525
	JR 20x25x20,5		20	25	20.5	0.35	33	RAX 725		
25		JR 25x30x20	25	30	20	0.35	32		RAX 430	RAX 530
	JR 25x30x20,5		25	30	20.5	0.35	33	RAX 730		
30		JR 30x35x20	30	35	20	0.35	38		RAX 435	RAX 535
	JR 30x35x20,5		30	35	20.5	0.35	39	RAX 735		
35		JR 35x40x20	35	40	20	0.35	44		RAX 440	RAX 540
	JR 35x40x20,5		35	40	20.5	0.35	45	RAX 740		
40		JR 40x45x20	40	45	20	0.35	50		RAX 445	RAX 545
	JR 40x45x20,5		40	45	20.5	0.35	51	RAX 745		
45		JR 45x50x25	45	50	25	0.65	69		RAX 450	RAX 550
55		JR 55x60x25	55	60	25	0.65	84		RAX 460	RAX 560
60		JR 60x70x25	60	70	25	0.85	190		RAX 470	RAX 570

Thrust plates for machine-tool quality combined bearings

CPN series for
RAXN 400 and RAXN 500

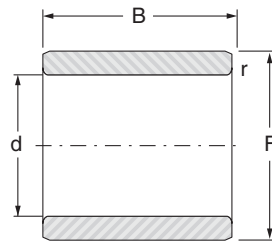


CPN

Centred		Designations		d mm	d ₁ mm	h mm	Weight kg
On shaft Ø mm	On inner ring Ø mm	CPN Standard series	CPN Supplementary series				
10		CPN 2 10 22		10	21.5	2	0.0043
			CPN 2,5 10 22	10	21.7	2.5	0.005
			CPN 4 10 22	10	21.7	4	0.009
12		CPN 2 12 26		12	25.5	2	0.0062
			CPN 3 12 26	12	25.7	3	0.0095
			CPN 4 12 26	12	25.7	4	0.012
15		CPN 2 15 28		15	27.5	2	0.006
			CPN 4 15 28	15	27.7	4	0.013
			CPN 7 15 28	15	27.7	7	0.024
17		CPN 2 17 30		17	29.5	2	0.007
			CPN 4 17 30	17	29.7	4	0.014
			CPN 7 17 30	17	29.7	7	0.025
	20	CPN 3 20 35		20	34.5	3	0.013
			CPN 5 20 35	20	34.7	5	0.024
	25	CPN 3 25 42		25	41.5	3	0.019
			CPN 5 25 42	25	41.77	5	0.033
	30	CPN 3 30 47		30	46.5	3	0.022
			CPN 5 30 47	30	46.7	5	0.037
	35	CPN 3 35 52		35	51.5	3	0.026
			CPN 4 35 52	35	52	4	0.034
	40	CPN 3 40 60		40	59.5	3	0.034
	45	CPN 3 45 65		45	64.4	3	0.037
	50	CPN 3 50 70		50	69.4	3	0.040
	60	CPN 4 60 85		60	84.3	4	0.083
	70	CPN 4 70 95		70	94.3	4	0.093

Inner ring for machine-tool quality combined bearings

IM 19000 and IM 20600
series for
RAXN 400 and RAXN 500

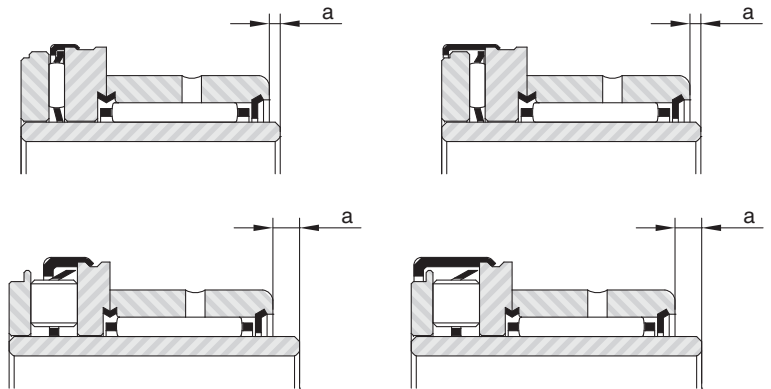


IM

Shaft Ø mm	Designations		d mm	F mm	B mm	Weight kg
	IM 19 000 series	IM 20 600 series				
17	IM 19 017		17	20	27.5	0.019
		IM 20 617	17	20	31.5	0.021
20	IM 19 020		20	25	27.5	0.038
		IM 20 620	20	25	31.5	0.044
25	IM 19 025		25	30	27.5	0.042
		IM 20 625	25	30	31.5	0.048
30	IM 19 030		30	35	27.5	0.055
		IM 20 630	30	35	31.5	0.063
35	IM 19 035		35	40	27.5	0.063
		IM 20 635	35	40	31.5	0.072
40	IM 19 040		40	45	27.5	0.069
		IM 20 640	40	45	31.5	0.08
45	IM 19 045		45	50	30.5	0.085
		IM 20 645	45	50	34.5	0.096
50	IM 19 050		50	60	32.5	0.208
		IM 20 650	50	60	38.5	0.25
60	IM 19 060		60	70	32.5	0.247
		IM 20 660	60	70	39.5	0.30

Bearing assemblies

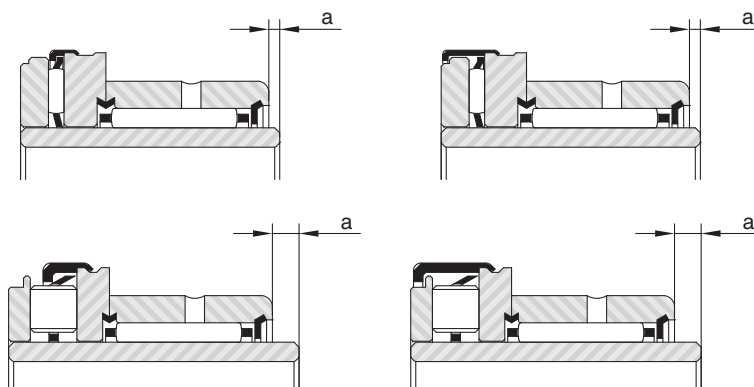
Combined bearings,
thrust plates, inner rings
machine-tool
quality series
RAXN, RAXNPZ 400,
RAXN, RAXNZ 500



Combined bearings and separate thrust plates	Combined bearings with retained thrust plates	Inner rings	a mm
RAXN 420 + CPN 3 20 35	RAXNPZ 420	IM 19 017	0.5
		IM 20 617	4.5
RAXN 420 + CPN 5 20 35		IM 20 617	2.5
RAXN 520 + CPN 3 20 35	RAXNZ 520	IM 20 617	2.5
RAXN 520 + CPN 5 20 35		IM 20 617	0.5
RAXN 425 + CPN 3 25 42	RAXNPZ 425	IM 19 020	0.5
		IM 20 620	4.5
RAXN 425 + CPN 5 25 42		IM 20 620	2.5
RAXN 525 + CPN 3 25 42	RAXNZ 525	IM 20 620	2.5
RAXN 525 + CPN 5 25 42		IM 20 620	0.5
RAXN 430 + CPN 3 30 47	RAXNPZ 430	IM 19 025	0.5
		IM 20 625	4.5
RAXN 430 + CPN 5 30 47		IM 20 625	2.5
RAXN 530 + CPN 3 30 47	RAXNZ 530	IM 20 625	2.5
RAXN 530 + CPN 5 30 47		IM 20 625	0.5
RAXN 435 + CPN 3 35 52	RAXNPZ 435	IM 19 030	0.5
		IM 20 630	4.5
RAXN 435 + CPN 4 35 52		IM 20 630	3.5
RAXN 535 + CPN 3 35 52	RAXNZ 535	IM 20 630	1.5
RAXN 535 + CPN 4 35 52		IM 20 630	0.5

Bearing assemblies

Combined bearings,
thrust plates, inner rings
machine-tool
quality series
RAXN, RAXNPZ 400,
RAXN, RAXNZ 500



Combined bearings and separate thrust plates	Combined bearings with retained thrust plates	Inner rings	a mm
RAXN 440 + CPN 3 40 60	RAXNPZ 440	IM 19 035	0.5
		IM 20 635	4.5
RAXN 540 + CPN 3 40 60	RAXNZ 540	IM 20 635	0.5
RAXN 445 + CPN 3 45 65	RAXNPZ 445	IM 19 040	0.5
		IM 20 640	4.5
RAXN 545 + CPN 3 45 65	RAXNZ 545	IM 20 640	0.5
RAXN 450 + CPN 3 50 70	RAXNPZ 450	IM 19 045	0.5
		IM 20 645	4.5
RAXN 550 + CPN 3 50 70	RAXNZ 550	IM 20 645	0.5
RAXN 460 + CPN 4 60 85	RAXNPZ 460	IM 19 050	0.5
		IM 20 650	6.5
RAXN 560 + CPN 4 60 85	RAXNZ 560	IM 20 650	2.5
RAXN 470 + CPN 4 70 95	RAXNPZ 470	IM 19 060	0.5
		IM 20 660	7.5
RAXN 570 + CPN 4 70 95	RAXNZ 570	IM 20 660	3.5