Student: Badiane Lamine

The shaft journal rotating at n=1000 rpm is loaded with a radial force of 7000N and a axial force of 2000N. Select a deep groove ball bearing that is capable of operating for 30000 hours. Use the tables at the end of the document.

Student: Kamiloğlu Eylül Bahar

The shaft journal rotating at n=2000 rpm is loaded with a radial force of 5000N and a axial force of 2700N. Select a deep groove ball bearing that is capable of operating for 40000 hours. Use the tables at the end of the document.

Student: Mohamed Mohanad Adel Abdelazeem

The shaft journal rotating at n=1300 rpm is loaded with a radial force of 3000N and a axial force of 1000N. Select a deep groove ball bearing that is capable of operating for 3500 hours. Use the tables at the end of the document.

Student: Muhala Norman Tawanda

The shaft journal rotating at n=1500 rpm is loaded with a radial force of 2500N and a axial force of 1000N. Select a deep groove ball bearing that is capable of operating for 5000 hours. Use the tables at the end of the document.

Student: Naili Amin

The shaft journal rotating at n=2000 rpm is loaded with a radial force of 5500N and a axial force of 2500N. Select a deep groove ball bearing that is capable of operating for 25000 hours. Use the tables at the end of the document.

Student: Tawfik Abdulrahman

The shaft journal rotating at n=3000 rpm is loaded with a radial force of 5100N and a axial force of 2500N. Select a deep groove ball bearing that is capable of operating for 27000 hours. Use the tables at the end of the document.

Student: Hachem Boushaba

The shaft journal rotating at n=2500 rpm is loaded with a radial force of 3000N and a axial force of 1200N. Select a deep groove ball bearing that is capable of operating for 30000 hours. Use the tables at the end of the document.

Student: Khiter Abdennour

The shaft journal rotating at n=1200 rpm is loaded with a radial force of 4300N and a axial force of 2300N. Select a deep groove ball bearing that is capable of operating for 15000 hours. Use the tables at the end of the document.

Student: Bachir Salah Eddine

The shaft journal rotating at n=1700 rpm is loaded with a radial force of 4900N and a axial force of 2600N. Select a deep groove ball bearing that is capable of operating for 9000 hours. Use the tables at the end of the document.

Student: Salma Rhayate

The shaft journal rotating at n=400 rpm is loaded with a radial force of 1500N and a axial force of 800N. Select a deep groove ball bearing that is capable of operating for 14000 hours. Use the tables at the end of the document.

Student: Zarat Anis

The shaft journal rotating at n=550 rpm is loaded with a radial force of 2200N and a axial force of 400N. Select a deep groove ball bearing that is capable of operating for 27500 hours. Use the tables at the end of the document.

Student: Belaid Yanis

The shaft journal rotating at n=2000 rpm is loaded with a radial force of 2000N and a axial force of 1300N. Select a deep groove ball bearing that is capable of operating for 33000 hours. Use the tables at the end of the document.

Student: Labrach Alaa Lamisse M H

The shaft journal rotating at n=1600 rpm is loaded with a radial force of 3700N and a axial force of 2000N. Select a deep groove ball bearing that is capable of operating for 36000 hours. Use the tables at the end of the document.

Student: Kadid Abdelrrahim

The shaft journal rotating at n=1400 rpm is loaded with a radial force of 3400N and a axial force of 1500N. Select a deep groove ball bearing that is capable of operating for 17000 hours. Use the tables at the end of the document.

Designation	dimensions				load capacity		n_{gr}
	d	D	B	r	dynamic C	static C_0	
	[mm]				[N]		
6200	10	30	9	0,6	5720	2240	23000
6201	12	32	10	0,6	6900	3000	21000
6202	15	35	11	0,6	7800	3400	20000
6203	17	40	12	0,6	9500	4500	17000
6204	20	47	14	1,0	12700	6100	15000
6205	25	52	15	1,0	14000	6950	12000
6206	30	62	16	1,0	19500	10000	11000
6207	35	72	17	1,1	25500	13700	9000
6208	40	80	18	1,1	30000	16000	8500
6209	45	85	19	1,1	33200	17800	7500
6210	50	90	20	1,1	36300	19800	7000
6211	55	100	21	1,5	43300	25000	6300
6212	60	110	22	1,5	48500	29000	6000
6213	65	120	23	1,5	56800	34800	5300
6214	70	125	24	1,5	62000	37200	5000
6215	75	130	25	1,5	66000	41000	4800
6216	80	140	26	2,0	71000	45000	4500
6217	85	150	28	2,0	83000	53000	4300
6218	90	160	30	2,0	95700	62000	3800
6219	95	170	32	2,1	108000	69500	3600
6220	100	180	34	2,1	124000	78000	3400

Designation	dimensions				load capacity		n_{gr}
	d	D	B	r	dynamic C	static C_0	
	[mm]				[N]		
6300	10	35	11	0,6	8100	3500	20000
6301	12	37	12	1,0	9650	4250	19000
6302	15	42	13	1,0	11400	4850	18000
6303	17	47	14	1,0	13500	6300	16000
6304	20	52	15	1,1	16300	7800	13000
6305	25	62	17	1,1	22400	11000	11000
6306	30	72	19	1,1	28500	14500	9000
6307	35	80	21	1,5	33200	18000	8500
6308	40	90	23	1,5	41500	22000	7500
6309	45	100	25	1,5	53000	30000	6500
6310	50	110	27	2,0	62000	35000	6300
6311	55	120	29	2,0	73500	41000	5500
6312	60	130	31	2,1	81500	46000	5000
6313	65	140	33	2,1	92500	55000	4500
6314	70	150	35	2,1	104000	61000	4300
6315	75	160	37	2,1	112000	72000	4000
6316	80	170	39	2,1	124000	78000	3800
6317	85	180	41	3,0	132000	82000	3400
6318	90	190	43	3,0	142000	96000	3200
6319	95	200	45	3,0	153000	108000	3100
6320	100	215	47	3,0	174000	130000	3000

Designation	dimensions				Load capacity		n_{or}
	d	D	B	r	dynamic C	static C_0	
	[mm]				[N]		
6403	17	62	17	1,1	23000	11000	12000
6404	20	72	19	1,1	30500	16000	10000
6405	25	80	21	1,5	35900	19000	9000
6406	30	90	23	1,5	43300	24000	8000
6407	35	100	25	1,5	55000	30000	6500
6408	40	110	27	2,0	63000	35000	6200
6409	45	120	29	2,0	76200	45000	5500
6410	50	130	31	2,1	87000	52000	5000
6411	55	140	33	2,1	99500	62000	5000
6412	60	150	35	2,1	109000	69500	4500
6413	65	160	37	2,1	119000	78000	4000
6414	70	180	42	3,0	143000	100000	3600
6415	75	190	45	3,0	153000	112000	3400
6416	80	200	48	3,0	163000	125000	3200
6417	85	210	52	4,0	174000	130000	3000
6418	90	225	54	4,0	186000	146000	2800

$\frac{R_w}{C_0}$	0,014	0,028	0,056	0,084	0,111	0,17	0,28	0,42	0,56
e	0,19	0,22	0,26	0,28	0,30	0,34	0,38	0,42	0,44
Y	2,30	1,99	1,71	1,55	1,45	1,31	1,15	1,04	1,0