

3208	5.934	8.04	2.64	0.4242
3209	6.894	9.12	2.91	0.4308
3210	6.858	9.12	2.982	0.4284
3211	7.872	10.14	3.216	0.4374
3212	6.894	9.12	2.916	0.4308
3213	7.86	10.14	3.186	0.4368
3214	7.854	10.14	3.18	0.4362
3215	7.884	10.14	3.252	0.438
3216	7.89	10.08	3.282	0.4386
3217	7.866	10.14	3.21	0.4368
3218	7.872	10.14	3.228	0.4374
3219	7.41	9.6	3.156	0.4362
3220	7.854	10.14	3.174	0.4362
3221	7.404	9.6	3.126	0.4356
3222	7.398	9.6	3.108	0.435
3309	5.844	8.16	2.418	0.4176
3310	5.826	8.16	2.376	0.4164
3311	5.844	8.16	2.418	0.4176
3312	5.844	8.16	2.418	0.4176
3313	5.832	8.16	2.394	0.417
3314	5.838	8.16	2.406	0.417
3315	5.838	8.16	2.412	0.417
3316	5.85	8.16	2.43	0.4182
3317	5.418	7.56	2.406	0.417
3318	5.826	8.16	2.382	0.4164
3320	5.418	7.56	2.394	0.4164
3322	5.412	7.56	2.382	0.4164
5210	4.072	5.928	2.603	0.407
5211	4.077	5.923	2.616	0.408
5213	4.081	5.919	2.629	0.408
6009	5.574	7.44	3.456	0.429
6010	6.084	7.92	3.756	0.4344
6011	5.574	7.44	3.438	0.4284
6012	6.066	7.92	3.684	0.4332
6013	6.558	8.46	3.93	0.4374
6014	6.066	7.92	3.684	0.4332
6015	6.552	8.46	3.894	0.4368
6016	6.078	7.92	3.726	0.4338
6017	6.558	8.46	3.918	0.4368
6018	6.078	7.92	3.744	0.4344
6019	6.552	8.46	3.912	0.4368
6020	6.594	8.4	4.08	0.4398
6021	6.564	8.46	3.954	0.4374
6022	6.096	7.92	3.822	0.4356
6024	6.6	8.4	4.104	0.4398
6026	6.564	8.4	3.96	0.438
6028	7.062	8.94	4.206	0.441

6030	7.056	8.94	4.2	0.441
6032	7.056	8.94	4.194	0.441
6034	6.558	8.46	3.91	0.436
6036	6.08	7.92	3.768	0.4344
6038	6.558	8.46	3.936	0.4374
6040	6.09	7.92	3.798	0.435
6044	6.084	7.92	3.768	0.4344
6048	6.582	8.4	4.044	0.4392
6052	6.108	7.86	3.864	0.4362
6056	6.6	8.4	4.104	0.4398
6060	6.114	7.86	3.894	0.4368
6208	3.606	5.4	2.418	0.4008
6209	3.618	5.4	2.466	0.402
6210	4.068	5.94	2.598	0.4068
6211	4.074	5.94	2.616	0.4074
6212	4.068	5.94	2.598	0.4068
6213	4.08	5.94	2.628	0.408
6214	4.098	5.88	2.694	0.4098
6215	4.56	6.42	2.85	0.4146
6216	4.134	5.88	2.802	0.4134
6217	4.572	6.42	2.886	0.4158
6218	4.578	6.42	2.904	0.4164
6219	4.098	5.88	2.694	0.4098
6220	4.092	5.88	2.664	0.4092
6221	4.086	5.94	2.64	0.4086
6222	4.074	5.94	2.616	0.4074
6224	4.596	6.42	2.964	0.4176
6226	4.116	5.88	2.748	0.4116
6228	4.602	6.42	2.988	0.4182
6230	4.668	6.3	3.228	0.4242
6232	5.106	6.9	3.3	0.426
6234	5.124	6.9	3.36	0.4272
6236	5.124	6.9	3.348	0.4266
6238	4.644	6.36	3.132	0.4218
6240	5.112	6.9	3.318	0.426
6244	4.68	6.3	3.294	0.4254
6308	3.042	4.98	1.974	0.3804
6309	3.036	4.98	1.95	0.3792
6310	3.048	4.98	1.98	0.381
6311	3.024	4.98	1.932	0.378
6312	3.066	4.92	2.022	0.3828
6313	3.072	4.92	2.034	0.384
6314	3.078	4.92	2.052	0.3846
6315	3.078	4.92	2.064	0.3852
6316	3.084	4.92	2.07	0.3858
6317	2.682	4.32	2.022	0.3828
6318	3.582	5.4	2.346	0.3978

6319	3.582	5.4	2.358	0.3984
6320	3.564	5.46	2.298	0.396
6321	3.558	5.46	2.292	0.3954
6322	3.564	5.46	2.298	0.396
6324	3.114	4.86	2.148	0.3894
6326	3.132	4.86	2.196	0.3912
6328	3.132	4.86	2.202	0.3918
6330	3.558	5.46	2.292	0.3954
6332	3.582	5.4	2.358	0.3984
6408	2.538	4.44	1.68	0.3624
6409	2.52	4.5	1.65	0.3606
6410	2.544	4.44	1.692	0.363
6411	2.532	4.44	1.668	0.3612
6412	2.544	4.44	1.698	0.3636
6413	2.562	4.44	1.728	0.366
6414	2.52	4.5	1.65	0.36
6415	2.532	4.44	1.674	0.3618
6416	2.544	4.44	1.698	0.3636
6417	2.556	4.44	1.722	0.3654
6418	2.526	4.44	1.662	0.3612
7219	6.462	8.52	2.73	0.431
7312	4.92	7.08	2.07	0.41
16008	7.056	8.94	4.194	0.441
16009	6.606	8.4	4.14	0.4404
16010	7.116	8.88	4.494	0.4446
16011	7.122	8.88	4.506	0.4452
16012	7.626	9.36	4.83	0.4488
16013	8.58	10.44	5.148	0.4518
16014	7.596	9.42	4.674	0.447
16015	8.094	9.9	4.938	0.45
16016	8.58	10.44	5.124	0.4518
16017	8.586	10.38	5.16	0.4518
16018	7.614	9.36	4.776	0.4482
16019	9.078	10.92	5.4	0.4542
16020	8.592	10.38	5.196	0.4524
16021	8.082	9.9	4.854	0.4488
16022	7.632	9.36	4.848	0.4488
16024	8.592	10.38	5.196	0.4524
16026	8.088	9.9	4.896	0.4494
16028	8.592	10.38	5.202	0.4524
16030	8.118	9.9	5.082	0.4512
16032	8.592	10.38	5.202	0.4524
16034	8.1	9.9	4.962	0.45
16036	7.17	8.82	4.776	0.4482
16038	8.106	9.9	4.986	0.45
16040	7.626	9.36	4.812	0.4482
16044	8.076	9.9	4.848	0.4488

16048	8.592	10.38	5.196	0.4524
16052	7.638	9.36	4.896	0.4494
21307	5.808	8.16	2.808	0.4146
21308	6.234	8.76	2.838	0.4158
21309	6.252	8.76	2.88	0.4164
21310	6.276	8.7	2.946	0.4182
21311	6.282	8.7	2.958	0.4188
21312	6.282	8.7	2.97	0.4188
21313	6.708	9.3	2.976	0.4188
21314	6.72	9.3	3.018	0.42
21315	6.738	9.24	3.06	0.4212
21316	6.756	9.24	3.108	0.4224
21317	6.732	9.24	3.042	0.4206
21318	6.744	9.24	3.078	0.4212
21319	6.756	9.24	3.102	0.4218
21320	6.708	9.3	2.988	0.4194
21321	6.72	9.3	3.018	0.42
21322	6.702	9.3	2.976	0.4188
22236	8.118	10.86	3.312	0.4272
22238	8.592	11.4	3.432	0.4296
22332	5.616	8.4	2.358	0.4008
22334	5.64	8.34	2.406	0.4026
22336	5.646	8.34	2.418	0.4032
22338	5.664	8.34	2.454	0.4044
22340	5.64	8.34	2.412	0.4032
22344	6.156	8.82	2.64	0.4104
22348	6.63	9.36	2.772	0.4146
22352	6.654	9.36	2.82	0.4158
22356	7.08	9.9	2.844	0.4164
23044	12.12	14.88	4.788	0.4488
23048	13.116	15.9	5.142	0.4524
23052	12.09	14.88	4.68	0.4476
23060	12.102	14.88	4.728	0.4482
23064	12.624	15.36	4.98	0.4506
23068	12.138	14.88	4.86	0.4494
23072	12.648	15.36	5.088	0.4518
23080	13.104	15.9	5.088	0.4518
23088	13.134	15.84	5.214	0.453
23092	13.128	15.84	5.184	0.4524
23096	13.626	16.38	5.37	0.4542
23138	10.644	13.32	4.272	0.4434
23152	10.128	12.84	4.05	0.4404
23164	10.122	12.84	4.026	0.44
23172	10.614	13.38	4.194	0.4422
23173	10.62	13.3806	4.1952	0.4422
23176	11.112	13.86	4.362	0.4446
23184	10.158	12.84	4.146	0.4416

23244	8.628	11.34	3.486	0.4314
23256	8.664	11.34	3.588	0.4332
23260	8.646	11.34	3.528	0.4326
23264	8.67	11.34	3.594	0.4338
23948	19.122	21.84	7.392	0.4662
23952	16.62	19.38	6.45	0.4614
23956	17.13	19.86	6.696	0.4632
23964	16.614	19.38	6.444	0.4614
23968	17.61	20.4	6.786	0.4632
23972	18.582	21.42	7.002	0.4644
23976	17.616	20.34	6.804	0.4638
23984	19.104	21.9	7.308	0.4662
23988	18.126	20.88	7.032	0.465
30232	8.814	11.16	4.044	0.441
30321	6.564	9.42	2.634	0.4104
31315	6.732	9.24	2.694	0.4206
31316	6.732	9.24	2.694	0.4206
31317	6.732	9.24	2.694	0.4206
31318	6.732	9.24	2.694	0.4206
32324	6.762	9.24	3.066	0.423
33018	12.108	14.88	4.728	0.4482
33019	12.606	15.36	4.902	0.45
33020	13.104	15.9	5.076	0.4518
33021	12.564	15.42	4.758	0.4488
33022	12.588	15.42	4.842	0.4494
33024	13.584	16.38	5.172	0.453
33110	9.69	12.3	4.002	0.4404
33111	9.624	12.36	3.828	0.4374
33112	10.158	12.84	4.086	0.4416
33113	10.122	12.9	3.984	0.4398
33114	9.642	12.36	3.882	0.4386
33115	10.158	12.84	4.086	0.4416
33116	11.112	13.86	4.296	0.4446
33117	10.632	13.38	4.194	0.4428
33118	10.596	13.38	4.086	0.4416
33208	7.11	9.9	2.898	0.4182
33209	8.142	10.86	3.33	0.4284
33210	9.114	11.88	3.606	0.4344
33211	8.628	11.34	3.468	0.4314
33212	8.58	11.4	3.336	0.429
33213	8.094	10.92	3.204	0.426
33214	8.598	11.4	3.378	0.4296
33215	9.606	12.36	3.738	0.4368
33216	9.594	12.42	3.714	0.4362
33217	9.066	11.94	3.462	0.4314
61808	11.082	12.9	6.528	0.462
61809	11.178	12.84	7.32	0.4656

61810	12.672	14.34	8.17	0.4692
61811	10.68	12.3	7.02	0.4644
61812	10.704	12.3	7.212	0.4656
61813	10.182	11.82	6.702	0.4626
61814	10.698	12.3	7.158	0.465
61815	11.676	13.32	7.608	0.4674
61816	12.192	13.8	8.058	0.4692
61817	10.188	11.82	6.786	0.4632
61818	9.684	11.28	6.414	0.4608
61819	10.182	11.82	6.732	0.4626
61820	11.616	13.38	7.044	0.4644
61821	11.184	12.78	7.362	0.4662
61822	12.636	14.34	7.836	0.468
61824	13.644	15.36	8.466	0.4704
61826	12.156	13.86	7.71	0.4674
61828	13.146	14.82	8.238	0.4698
61830	11.676	13.32	7.614	0.4674
61832	12.66	14.34	8.064	0.4692
61834	11.67	13.32	7.542	0.4668
61836	12.648	14.34	7.938	0.4686
61838	11.664	13.32	7.488	0.4668
61840	12.168	13.8	7.836	0.468
61844	14.118	15.84	8.538	0.4704
61848	12.66	14.34	8.064	0.4692
61852	15.3	8.664	8.664	0.471
61856	12.642	14.34	7.902	0.4686
61860	11.676	13.32	7.614	0.4674
61864	12.66	14.34	8.064	0.4692
61868	13.176	14.82	8.52	0.4704
61872	14.16	15.84	8.97	0.4722
61876	12.156	13.86	7.704	0.4674
532760	3.054	4.92	1.992	0.382
545144	3.048	4.92	1.992	0.382
545145	3.57	5.4	2.31	0.397
N208	5.412	7.56	2.916	0.4164
N209	5.922	8.1	3.174	0.423
N210	6.432	8.58	3.45	0.429
N211	6.432	8.58	3.45	0.429
N212	6.444	8.52	3.492	0.4296
N213	6.444	8.52	3.492	0.4296
N214	6.93	9.06	3.684	0.4332
N215	7.338	9.66	3.588	0.4314
N216	6.912	9.06	3.606	0.432
N217	6.912	9.06	3.612	0.432
N218	6.846	9.12	3.396	0.4278
N219	6.852	9.12	3.414	0.4284
N220	6.852	9.12	3.426	0.4284

N221	6.858	9.12	3.44	0.429
N222	6.816	9.18	3.306	0.426
N224	6.852	9.12	3.414	0.4284
N226	7.794	10.2	3.684	0.4332
N228	7.794	10.2	3.684	0.4332
N308	4.896	7.08	2.634	0.408
N309	4.434	6.54	2.49	0.4032
N310	4.872	7.14	2.574	0.4062
N311	4.83	7.14	2.478	0.4026
N312	4.86	7.14	2.544	0.405
N313	4.884	7.08	2.604	0.4074
N314	5.316	7.68	2.658	0.4092
N315	4.872	7.14	2.574	0.4062
N316	5.352	7.62	2.754	0.4116
N317	5.316	7.68	2.658	0.4092
N318	5.34	7.68	2.712	0.4104
N319	5.352	7.62	2.748	0.4116
N320	5.34	7.68	2.724	0.411
N321	5.316	7.68	2.658	0.4092
N322	5.718	8.28	2.64	0.4086
NU208	5.412	7.56	2.916	0.4164
NU209	5.922	8.1	3.174	0.423
NU210	6.432	8.58	3.45	0.429
NU211	6.432	8.58	3.45	0.429
NU212	6.444	8.52	3.492	0.4296
NU213	6.444	8.52	3.492	0.4296
NU214	6.93	9.06	3.684	0.4332
NU215	7.338	9.66	3.588	0.4314
NU216	6.912	9.06	3.606	0.432
NU217	6.912	9.06	3.612	0.432
NU218	6.846	9.12	3.396	0.4278
NU219	6.852	9.12	3.414	0.4284
NU220	6.852	9.12	3.426	0.4284
NU221	6.858	9.12	3.44	0.429
NU222	6.816	9.18	3.306	0.426
NU224	6.852	9.12	3.414	0.4284
NU226	7.794	10.2	3.684	0.4332
NU228	7.794	10.2	3.684	0.4332
NU308	4.896	7.08	2.634	0.408
NU309	4.434	6.54	2.49	0.4032
NU310	4.872	7.14	2.574	0.4062
NU311	4.83	7.14	2.478	0.4026
NU312	4.86	7.14	2.544	0.405
NU313	4.884	7.08	2.604	0.4074
NU314	5.316	7.68	2.658	0.4092
NU315	4.872	7.14	2.574	0.4062
NU316	5.352	7.62	2.754	0.4116

NU317	5.316	7.68	2.658	0.4092
NU318	5.34	7.68	2.712	0.4104
NU319	5.352	7.62	2.748	0.4116
NU320	5.34	7.68	2.724	0.411
NU321	5.316	7.68	2.658	0.4092
NU322	5.718	8.28	2.64	0.4086

1208	7.27914	9.72086	3.37324	0.428185	Self-aligning ball
1209	6.82761	9.17239	3.30561	0.426726	Self-aligning ball
1210	7.77526	10.2247	3.57414	0.431959	Self-aligning ball
1211	8.2479	10.7521	3.69644	0.4341	Self-aligning ball
1212	8.28078	10.7192	3.80286	0.435831	Self-aligning ball
1213	9.25987	11.7401	4.14767	0.440946	Self-aligning ball
1214	8.76993	11.2301	3.97484	0.438497	Self-aligning ball
1215	8.774	11.226	3.98978	0.4387	Self-aligning ball
1216	9.75457	12.2454	4.33485	0.44339	Self-aligning ball
1217	9.24031	11.7597	4.08122	0.440015	Self-aligning ball
1218	8.29912	10.7009	3.86799	0.436796	Self-aligning ball
1219	8.75958	11.2404	3.94312	0.437979	Self-aligning ball
1220	8.76667	11.2333	3.96591	0.438333	Self-aligning ball
1221	8.77789	11.2221	4.00285	0.438895	Self-aligning ball
1222	8.73917	11.2608	3.8768	0.436958	Self-aligning ball
1224	8.63229	11.3677	3.55789	0.431614	Self-aligning ball
1226	9.12309	11.8769	3.71629	0.434433	Self-aligning ball
1228	8.62702	11.373	3.54097	0.431351	Self-aligning ball
1230	9.08449	11.9155	3.61123	0.432595	Self-aligning ball
1308	6.24837	8.75163	2.87555	0.416558	Self-aligning ball
1309	6.21457	8.78543	2.79326	0.414305	Self-aligning ball
1310	5.36178	7.63822	2.73412	0.412445	Self-aligning ball
1311	6.24154	8.75846	2.86129	0.416103	Self-aligning ball
1312	6.72702	9.27298	3.02851	0.420439	Self-aligning ball
1313	6.74163	9.25837	3.06518	0.421352	Self-aligning ball
1314	6.70044	9.29956	2.96373	0.418778	Self-aligning ball
1315	6.73191	9.26809	3.04171	0.420744	Self-aligning ball
1316	6.29259	8.70741	2.99432	0.419506	Self-aligning ball
1317	6.73905	9.26095	3.06121	0.421191	Self-aligning ball
1318	6.25256	8.74744	2.89081	0.416838	Self-aligning ball
1319	6.23152	8.76848	2.83911	0.415435	Self-aligning ball
1320	6.2364	8.7636	2.84827	0.41576	Self-aligning ball
1321	6.22566	8.77434	2.82486	0.415044	Self-aligning ball
1322	7.14886	9.85114	3.03266	0.420521	Self-aligning ball
1324	7.08889	9.91111	2.89256	0.416994	Self-aligning ball
1326	7.06237	9.93763	2.83441	0.415434	Self-aligning ball
1328	6.63257	9.36743	2.80321	0.414536	Self-aligning ball
1409	4.16745	6.83255	1.89263	0.378859	Self-aligning ball
1410	4.16177	6.83823	1.88329	0.378343	Self-aligning ball
1411	4.6236	7.3764	2.01657	0.3853	Self-aligning ball
1412	4.62631	7.37369	2.02146	0.385526	Self-aligning ball
1413	5.1128	7.8872	2.19125	0.393292	Self-aligning ball
1414	4.66869	7.33131	2.09581	0.389057	Self-aligning ball
1415	4.6592	7.3408	2.07905	0.388266	Self-aligning ball
1416	4.60518	7.39482	1.98611	0.383765	Self-aligning ball
1417	4.59871	7.40129	1.9759	0.383226	Self-aligning ball
1418	4.62925	7.37075	2.02674	0.385771	Self-aligning ball

1615	2.66049	4.33951	1.96463	0.380071	Deep groove ball
1616	2.69283	4.30717	2.05276	0.38469	Deep groove ball
1620	2.96525	5.03475	1.80349	0.370656	Deep groove ball
1621	2.99979	5.00021	1.87455	0.374974	Deep groove ball
1622	3.0321	4.9679	1.94534	0.379013	Deep groove ball
1623	3.06239	4.93761	2.01588	0.382799	Deep groove ball
1628	3.11127	4.88873	2.1393	0.388908	Deep groove ball
1630	3.15796	4.84203	2.26994	0.394746	Deep groove ball
1633	3.15796	4.84203	2.26994	0.394746	Deep groove ball
1635	3.2	4.8	2.4	0.4	Deep groove ball
1638	4.09091	5.90909	2.65909	0.409091	Deep groove ball
1640	4.13043	5.86957	2.78804	0.413043	Deep groove ball
1644	4.16667	5.83333	2.91667	0.416667	Deep groove ball
1652	4.13793	5.86207	2.81379	0.413793	Deep groove ball
1654	4.16667	5.83333	2.91667	0.416667	Deep groove ball
1657	3.61475	5.38525	2.44329	0.401639	Deep groove ball
1658	3.62902	5.37098	2.48653	0.403225	Deep groove ball
2208	6.74503	9.25497	3.03482	0.421564	Self-aligning ball
2210	8.22219	10.7778	3.58518	0.432747	Self-aligning ball
2211	8.25155	10.7485	3.67573	0.434292	Self-aligning ball
2212	7.7497	10.2503	3.4694	0.430539	Self-aligning ball
2213	7.70094	10.2991	3.33296	0.42783	Self-aligning ball
2214	8.20496	10.795	3.5439	0.43184	Self-aligning ball
2215	8.70856	11.2914	3.75413	0.435428	Self-aligning ball
2216	8.71158	11.2884	3.76307	0.435579	Self-aligning ball
2217	8.23229	10.7677	3.62811	0.433278	Self-aligning ball
2218	8.19332	10.8067	3.51085	0.431227	Self-aligning ball
2219	8.15865	10.8413	3.4162	0.429403	Self-aligning ball
2220	8.12023	10.8798	3.31756	0.427381	Self-aligning ball
2221	7.66664	10.3334	3.24469	0.425924	Self-aligning ball
2221	7.66664	10.3334	3.24469	0.425924	Spherical roller
2222	7.63936	10.3606	3.17666	0.424409	Self-aligning ball
2224	6.75863	9.24137	3.09015	0.422415	Self-aligning ball
2226	6.75371	9.24629	3.0744	0.422107	Self-aligning ball
2228	6.79252	9.20747	3.18252	0.424533	Self-aligning ball
2230	6.7459	9.2541	3.05834	0.421619	Self-aligning ball
2310	4.72004	7.27996	2.15164	0.393337	Self-aligning ball
2311	4.72077	7.27923	2.15772	0.393397	Self-aligning ball
2312	4.71859	7.28141	2.15661	0.393216	Self-aligning ball
2313	5.18369	7.81631	2.29361	0.398746	Self-aligning ball
2314	5.18083	7.81917	2.29086	0.398525	Self-aligning ball
2315	5.18106	7.81894	2.28951	0.398543	Self-aligning ball
2316	5.17797	7.82203	2.2859	0.398305	Self-aligning ball
2317	5.21377	7.78623	2.35738	0.401059	Self-aligning ball
2318	5.2008	7.7991	2.32863	0.400063	Self-aligning ball
2319	5.19259	7.80741	2.31331	0.39943	Self-aligning ball
2320	5.16513	7.83487	2.26258	0.397317	Self-aligning ball

2321	5.1664	7.8336	2.26335	0.397415	Self-aligning ball
2322	5.18155	7.81845	2.29493	0.398581	Self-aligning ball
3210	6.84569	9.15431	2.87753	0.427855	Angular contact ball
3212	6.85943	9.14058	2.91365	0.428714	Angular contact ball
3213	6.87573	9.12427	2.95765	0.429733	Angular contact ball
3214	7.88136	10.1186	3.35877	0.437853	Angular contact ball
3215	7.8716	10.1284	3.3288	0.437311	Angular contact ball
3216	7.85376	10.1462	3.27533	0.43632	Angular contact ball
3217	7.85119	10.1488	3.26775	0.436177	Angular contact ball
3218	7.83682	10.1632	3.22604	0.435379	Angular contact ball
3219	7.82438	10.1756	3.19074	0.434688	Angular contact ball
3220	7.83169	10.1683	3.21141	0.435094	Angular contact ball
3221	7.83841	10.1616	3.2306	0.435467	Angular contact ball
3222	7.82756	10.1724	3.1997	0.434864	Angular contact ball
3311	5.84192	8.15808	2.49285	0.41728	Angular contact ball
3312	5.82811	8.17189	2.46182	0.416294	Angular contact ball
3313	5.80462	8.19538	2.41063	0.414616	Angular contact ball
3314	5.80086	8.19914	2.40261	0.414347	Angular contact ball
3315	5.83698	8.16302	2.48168	0.416927	Angular contact ball
3316	5.83125	8.16875	2.46882	0.416518	Angular contact ball
3317	5.82662	8.17338	2.45851	0.416187	Angular contact ball
3318	5.80563	8.19437	2.41278	0.414688	Angular contact ball
3319	5.8064	8.1936	2.41443	0.414743	Angular contact ball
3320	5.80331	8.19669	2.40782	0.414522	Angular contact ball
3321	5.8005	8.1995	2.40184	0.414321	Angular contact ball
3322	5.79479	8.20521	2.38977	0.413913	Angular contact ball
6200	3.0476	4.9524	1.98091	0.38095	Deep groove ball
6201	2.54545	4.45455	1.69697	0.363636	Deep groove ball
6202	3.04988	4.95012	1.98624	0.381235	Deep groove ball
6203	3.05305	4.94695	1.99368	0.381632	Deep groove ball
6204	3.05218	4.94782	1.99163	0.381522	Deep groove ball
6205	3.58502	5.41499	2.35739	0.398335	Deep groove ball
6206	3.56821	5.43179	2.31117	0.396467	Deep groove ball
6207	3.56551	5.43449	2.30391	0.396168	Deep groove ball
6208	3.5775	5.4225	2.33652	0.3975	Deep groove ball
6209	4.05385	5.94615	2.54766	0.405385	Deep groove ball
6210	4.09286	5.90714	2.66519	0.409286	Deep groove ball
6211	4.07806	5.92194	2.61949	0.407806	Deep groove ball
6212	4.10769	5.89231	2.71249	0.410769	Deep groove ball
6213	4.55884	6.44116	2.83635	0.41444	Deep groove ball
6214	4.55964	6.44036	2.83893	0.414513	Deep groove ball
6215	4.56312	6.43688	2.85011	0.414829	Deep groove ball
6216	5.06213	6.93787	3.12058	0.421844	Deep groove ball
6217	4.57525	6.42475	2.88972	0.415932	Deep groove ball
6218	4.55934	6.44066	2.83796	0.414485	Deep groove ball
6219	4.10151	5.89849	2.6926	0.410151	Deep groove ball
6220	4.09286	5.90714	2.66519	0.409286	Deep groove ball

6221	4.08508	4.29545	2.08636	0.386364	Deep groove ball
6222	4.07839	5.92161	2.62048	0.407839	Deep groove ball
6224	3.68973	5.31027	2.68683	0.40997	Deep groove ball
6226	3.70625	5.29375	2.74645	0.411806	Deep groove ball
6228	4.1859	5.8141	2.98946	0.41859	Deep groove ball
6230	4.66845	6.33155	3.23149	0.424405	Deep groove ball
6232	5.15333	6.84667	3.47275	0.429444	Deep groove ball
6234	5.127	6.873	3.36368	0.42725	Deep groove ball
6236	4.66447	6.33553	3.21538	0.424043	Deep groove ball
6238	4.64325	6.35675	3.1319	0.422113	Deep groove ball
6240	5.11543	6.88457	3.31776	0.426286	Deep groove ball
6248	5.10353	6.89647	3.27175	0.425294	Deep groove ball
6252	5.12481	6.87519	3.3549	0.427068	Deep groove ball
6256	5.12077	6.87923	3.3388	0.426731	Deep groove ball
6260	5.13814	6.86186	3.40903	0.428179	Deep groove ball
6264	4.64628	6.35372	3.14358	0.422389	Deep groove ball
6301	2.028	3.972	1.38121	0.338	Deep groove ball
6302	2.53195	4.46805	1.66947	0.361707	Deep groove ball
6303	2.54505	4.45495	1.69613	0.363578	Deep groove ball
6304	2.57396	4.42604	1.75747	0.367708	Deep groove ball
6305	2.57471	4.42529	1.75912	0.367816	Deep groove ball
6306	3.05385	4.94615	1.99555	0.381731	Deep groove ball
6307	3.06156	4.93844	2.0139	0.382696	Deep groove ball
6308	3.072	4.928	2.03917	0.384	Deep groove ball
6309	3.03669	4.96331	1.95576	0.379586	Deep groove ball
6310	3.0475	4.9525	1.98067	0.380938	Deep groove ball
6311	3.05646	4.94354	2.00173	0.382057	Deep groove ball
6312	3.06442	4.93558	2.02077	0.383053	Deep groove ball
6313	3.07083	4.92917	2.03631	0.383854	Deep groove ball
6314	3.07636	4.92364	2.0499	0.384545	Deep groove ball
6315	3.08119	4.91881	2.06188	0.385149	Deep groove ball
6316	3.08576	4.91424	2.07333	0.38572	Deep groove ball
6317	3.08951	4.91049	2.08281	0.386189	Deep groove ball
6318	3.09286	4.90714	2.09133	0.386607	Deep groove ball
6319	3.09586	4.90414	2.09904	0.386983	Deep groove ball
6320	3.07276	4.92724	2.04104	0.384095	Deep groove ball
6321	3.07636	4.92364	2.0499	0.384545	Deep groove ball
6322	3.05669	4.94331	2.00227	0.382086	Deep groove ball
6324	3.13116	4.86884	2.19331	0.391395	Deep groove ball
6326	3.13268	4.86732	2.19755	0.391585	Deep groove ball
6328	3.134	4.866	2.20122	0.39175	Deep groove ball
6330	3.58794	5.41206	2.36559	0.39866	Deep groove ball
6332	3.1872	4.8128	2.35903	0.3984	Deep groove ball
6334	3.16136	4.83864	2.27998	0.39517	Deep groove ball
6336	3.58152	5.41848	2.34764	0.397946	Deep groove ball
6338	3.81476	5.18524	2.457	0.423862	Deep groove ball
6340	3.62424	5.37576	2.4719	0.402694	Deep groove ball

6344	3.65956	5.34044	2.58378	0.406618	Deep groove ball
6348	4.14189	5.85811	2.82757	0.414189	Deep groove ball
6352	4.12687	5.87313	2.77597	0.412688	Deep groove ball
6356	4.11395	5.88605	2.73292	0.411395	Deep groove ball
6403	2.03544	3.96456	1.39436	0.339241	Deep groove ball
6404	2.01652	3.98348	1.36129	0.336087	Deep groove ball
6405	2.52566	4.47434	1.6569	0.360809	Deep groove ball
6406	2.52758	4.47242	1.66072	0.361083	Deep groove ball
6407	2.5265	4.4735	1.65857	0.360929	Deep groove ball
6408	2.5368	4.4632	1.67926	0.3624	Deep groove ball
6409	2.52339	4.47661	1.65241	0.360485	Deep groove ball
6410	2.54294	4.45706	1.6918	0.363278	Deep groove ball
6411	2.53113	4.46887	1.66781	0.36159	Deep groove ball
6412	2.54767	4.45233	1.70155	0.363952	Deep groove ball
6413	2.56169	4.43831	1.73101	0.365956	Deep groove ball
6414	2.52224	4.47776	1.65013	0.36032	Deep groove ball
6415	2.53558	4.46442	1.6768	0.362226	Deep groove ball
6416	2.5475	4.4525	1.7012	0.363929	Deep groove ball
6417	2.5582	4.4418	1.72361	0.365458	Deep groove ball
6418	2.58289	4.41711	1.77715	0.368984	Deep groove ball
6419	3.20382	4.79618	2.41248	0.400478	Deep groove ball
6420	3.16549	4.83451	2.29229	0.395686	Deep groove ball
7008	6.86407	9.13593	3.33278	0.429004	Angular contact ball
7009	7.30525	9.69475	3.36815	0.429721	Angular contact ball
7010	7.83228	10.1677	3.65971	0.435127	Angular contact ball
7011	7.76255	10.2374	3.44619	0.431253	Angular contact ball
7012	8.27807	10.7219	3.69272	0.435688	Angular contact ball
7013	8.79171	11.2083	3.93874	0.439586	Angular contact ball
7014	8.72176	11.2782	3.7166	0.436088	Angular contact ball
7015	9.22849	11.7715	3.92976	0.439452	Angular contact ball
7016	8.72875	11.2712	3.73771	0.436437	Angular contact ball
7017	9.22727	11.7727	3.92589	0.439394	Angular contact ball
7018	8.73338	11.2666	3.75182	0.436669	Angular contact ball
7019	9.22546	11.7745	3.92016	0.439308	Angular contact ball
7020	9.71818	12.2818	4.08828	0.441735	Angular contact ball
7021	9.22399	11.776	3.91551	0.439238	Angular contact ball
7022	8.7401	11.2598	3.77267	0.437008	Angular contact ball
7024	9.26535	11.7346	4.05055	0.441207	Angular contact ball
7026	9.2313	11.7687	3.93874	0.439586	Angular contact ball
7028	9.74683	12.2532	4.18432	0.443038	Angular contact ball
7030	9.74084	12.2592	4.16389	0.442766	Angular contact ball
7032	9.73507	12.2649	4.14438	0.442503	Angular contact ball
7034	9.2268	11.7732	3.92439	0.439371	Angular contact ball
7036	8.73329	11.2667	3.75157	0.436665	Angular contact ball
7038	9.22538	11.7746	3.91989	0.439304	Angular contact ball
7040	8.75854	11.2415	3.5939	0.437927	Angular contact ball
7044	9.178	11.822	3.77513	0.437048	Angular contact ball

7048	9.70691	12.2931	4.05169	0.441223	Angular contact ball
7201	2.94626	5.05374	1.7061	0.368283	Angular contact ball
7202	3.85282	6.14718	1.99419	0.385282	Angular contact ball
7203	3.85665	6.14335	2.00161	0.385665	Angular contact ball
7204	3.8691	6.1309	2.02606	0.38691	Angular contact ball
7205	5.4744	7.5258	2.3676	0.4212	Angular contact ball
7206	5.469	7.5312	2.3538	0.4206	Angular contact ball
7207	5.4666	7.5336	2.349	0.4206	Angular contact ball
7208	5.9352	8.0652	2.46	0.4242	Angular contact ball
7209	5.9526	8.0478	2.502	0.4254	Angular contact ball
7210	6.4572	8.5428	2.7018	0.4302	Angular contact ball
7211	6.4416	8.5584	2.6604	0.4296	Angular contact ball
7212	6.4272	8.5734	2.622	0.4284	Angular contact ball
7213	6.8958	9.1044	2.7222	0.4308	Angular contact ball
7214	6.903	9.0972	2.7408	0.4314	Angular contact ball
7215	7.3914	9.609	2.8866	0.435	Angular contact ball
7216	6.9384	9.0618	2.8362	0.4338	Angular contact ball
7217	7.4004	9.6	2.9112	0.4356	Angular contact ball
7218	6.9102	9.09	2.76	0.432	Angular contact ball
7219	6.468	8.532	2.7306	0.4314	Angular contact ball
7220	5.9856	8.0148	2.6976	0.4278	Angular contact ball
7222	6.441	8.5596	2.658	0.4296	Angular contact ball
7224	6.4218	8.5782	2.7204	0.4284	Angular contact ball
7226	6.873	9.1272	2.778	0.4296	Angular contact ball
7228	6.9084	9.0918	2.871	0.432	Angular contact ball
7230	6.8898	9.111	2.8212	0.4308	Angular contact ball
7232	6.918	9.0822	2.8986	0.4326	Angular contact ball
7234	7.4226	9.5778	3.099	0.4368	Angular contact ball
7236	7.3794	9.621	2.976	0.4338	Angular contact ball
7309	4.893	7.107	2.0052	0.408	Angular contact ball
7310	4.9056	7.095	2.0292	0.4086	Angular contact ball
7311	4.9164	7.0836	2.0514	0.4098	Angular contact ball
7312	4.9248	7.0752	2.0688	0.4104	Angular contact ball
7313	4.9326	7.0674	2.085	0.411	Angular contact ball
7314	4.9386	7.0614	2.097	0.4116	Angular contact ball
7315	4.9452	7.0554	2.1108	0.4122	Angular contact ball
7317	4.9542	7.0464	2.1306	0.4128	Angular contact ball
7318	4.9578	7.0428	2.1378	0.4134	Angular contact ball
7319	4.9614	7.0386	2.1468	0.4134	Angular contact ball
7320	4.89132	7.10868	2.08727	0.40761	Angular contact ball
7321	4.89353	7.10647	2.09172	0.407794	Angular contact ball
7322	4.87189	7.12811	2.04874	0.405991	Angular contact ball
7324	5.37421	7.62579	2.23639	0.413401	Angular contact ball
7326	4.961	7.039	2.23681	0.413416	Angular contact ball
7328	4.96257	7.03743	2.24043	0.413548	Angular contact ball
7330	5.86885	8.13115	2.40661	0.419203	Angular contact ball
7334	5.34816	7.65184	2.18264	0.411397	Angular contact ball

7405	3.8994	6.1008	1.6554	0.39	Angular contact ball
7406	3.936	6.0642	1.719	0.3936	Angular contact ball
7407	3.7986	6.0816	1.6884	0.3918	Angular contact ball
7408	3.9468	6.0534	1.7376	0.3948	Angular contact ball
7409	3.9318	6.0684	1.7106	0.393	Angular contact ball
7410	3.9528	6.0474	1.7478	0.3954	Angular contact ball
7411	3.9402	6.06	1.7256	0.3942	Angular contact ball
7412	3.9576	6.0426	1.7568	0.396	Angular contact ball
7413	3.9738	6.0264	1.7868	0.3972	Angular contact ball
7414	3.93	6.0702	1.7076	0.393	Angular contact ball
7415	3.945	6.0552	1.734	0.3942	Angular contact ball
7416	3.91329	6.08672	1.75048	0.391329	Angular contact ball
7418	3.91233	6.08767	1.7488	0.39123	Angular contact ball
7419	4.20518	5.79482	2.44852	0.420518	Angular contact ball
7420	4.16691	5.83309	2.33007	0.416691	Angular contact ball
7510	3.1579	4.8421	2.26974	0.394737	Deep groove ball
7512	3.2	4.8	2.4	0.4	Deep groove ball
7514	4.13043	5.86957	2.78804	0.413043	Deep groove ball
7516	4.16667	5.83333	2.91667	0.416667	Deep groove ball
7518	3.58475	5.41525	2.35664	0.398305	Deep groove ball
7520	3.61475	5.38525	2.44331	0.401639	Deep groove ball
7608	3.11111	4.88889	2.13889	0.388889	Deep groove ball
7609	3.13513	4.86487	2.20439	0.391892	Deep groove ball
7610	3.1579	4.8421	2.26974	0.394737	Deep groove ball
7611	3.17949	4.82051	2.33494	0.397436	Deep groove ball
7612	3.2	4.8	2.4	0.4	Deep groove ball
7613	4.11109	5.88891	2.72355	0.411109	Deep groove ball
7614	4.13043	5.86957	2.78804	0.413043	Deep groove ball
7615	4.14894	5.85106	2.85239	0.414894	Deep groove ball
7616	4.16667	5.83333	2.916	0.416667	Deep groove ball
7617	3.56897	5.43103	2.31322	0.396552	Deep groove ball
7618	3.58475	5.41525	2.35664	0.398305	Deep groove ball
7620	3.61475	5.38525	2.44331	0.401639	Deep groove ball
10407	6.21287	8.78712	2.78937	0.414192	Self-aligning ball
10408	5.36723	7.63277	2.74808	0.412864	Self-aligning ball
10409	6.24441	8.75559	2.86822	0.416294	Self-aligning ball
10410	6.7311	9.2689	3.03871	0.420693	Self-aligning ball
10411	6.74418	9.25581	3.07176	0.421512	Self-aligning ball
10412	6.69845	9.30155	2.95898	0.418653	Self-aligning ball
10413	6.73323	9.26677	3.04505	0.420827	Self-aligning ball
10414	6.74328	9.25672	3.07206	0.421455	Self-aligning ball
10415	6.25628	8.74372	2.89994	0.417085	Self-aligning ball
10416	6.22745	8.77256	2.82951	0.415163	Self-aligning ball
10417	6.23446	8.76554	2.84367	0.415631	Self-aligning ball
10418	6.22359	8.77641	2.82001	0.414906	Self-aligning ball
11208	7.27914	9.72086	3.37324	0.428185	Self-aligning ball
11209	6.82761	9.17239	3.30561	0.426726	Self-aligning ball

11307	5.79332	8.20668	2.77734	0.413809	Self-aligning ball
11308	6.24857	8.75144	2.87622	0.416571	Self-aligning ball
11309	6.21456	8.78544	2.79341	0.414304	Self-aligning ball
11310	5.36067	7.63933	2.73147	0.412359	Self-aligning ball
11311	6.24152	8.75848	2.8614	0.416101	Self-aligning ball
11312	6.71221	9.28778	3.02562	0.419513	Self-aligning ball
11508	7.27914	9.72086	3.37324	0.428185	Self-aligning ball
11509	9.17239	9.17239	3.30561	0.426726	Self-aligning ball
11510	7.77526	10.2247	3.57414	0.431959	Self-aligning ball
16006	5.10353	6.89647	3.27175	0.425294	Deep groove ball
16007	6.08351	7.91649	3.75343	0.434536	Deep groove ball
16008	7.05926	8.94074	4.19317	0.441204	Deep groove ball
16009	6.607	8.393	4.13979	0.440467	Deep groove ball
16010	7.12074	8.87926	4.49432	0.445046	Deep groove ball
16011	7.12408	8.87592	4.5119	0.445255	Deep groove ball
16012	7.62938	9.37062	4.83037	0.448787	Deep groove ball
16013	8.58593	10.4141	5.14841	0.451891	Deep groove ball
16014	7.60042	9.39958	4.67149	0.447083	Deep groove ball
16015	8.09811	9.90189	4.93939	0.449895	Deep groove ball
16016	8.09385	9.90615	4.91574	0.449659	Deep groove ball
16017	8.588	10.412	5.16033	0.452	Deep groove ball
16018	7.6197	9.3803	4.77609	0.448217	Deep groove ball
16019	8.10675	9.89325	4.98816	0.450375	Deep groove ball
16020	8.59484	10.4052	5.20005	0.45236	Deep groove ball
16021	7.6346	9.3654	4.86014	0.449094	Deep groove ball
16022	7.63239	9.36761	4.8475	0.448964	Deep groove ball
16024	8.59497	10.405	5.20079	0.452367	Deep groove ball
16026	8.09073	9.90927	4.8985	0.449485	Deep groove ball
16028	8.59506	10.4049	5.20132	0.452371	Deep groove ball
16030	8.12352	9.87648	5.08548	0.451307	Deep groove ball
16032	8.14275	9.85725	5.20172	0.452375	Deep groove ball
16034	7.65277	9.34723	4.9665	0.450163	Deep groove ball
16036	7.17183	8.82817	4.77814	0.448239	Deep groove ball
16038	8.10713	9.89287	4.99029	0.450396	Deep groove ball
16040	7.627	9.373	4.81692	0.44864	Deep groove ball
16044	7.68036	9.31964	5.13697	0.451786	Deep groove ball
16048	8.1903	9.8097	5.51263	0.455017	Deep groove ball
16052	7.64124	9.35876	4.8985	0.449485	Deep groove ball
16056	8.14269	9.85731	5.20132	0.452371	Deep groove ball
16060	7.64776	9.35224	4.93675	0.449868	Deep groove ball
16064	7.69037	9.30962	5.20172	0.452375	Deep groove ball
16068	7.17302	8.82698	4.78521	0.448314	Deep groove ball
16072	7.66039	9.33961	5.01248	0.450611	Deep groove ball
16076	8.60154	10.3985	5.23955	0.452713	Deep groove ball
16124	8.59497	10.405	5.20079	0.452367	Deep groove ball
21308	6.2292	8.7708	2.83651	0.41528	Spherical roller
21309	6.25485	8.74515	2.89967	0.41699	Spherical roller

21310	6.26192	8.73808	2.91825	0.417462	Spherical roller
21311	6.28105	8.71895	2.96743	0.418736	Spherical roller
21312	6.28931	8.71069	2.98963	0.419287	Spherical roller
21313	6.70373	9.29626	2.97851	0.418983	Spherical roller
21314	6.72534	9.27466	3.03213	0.420334	Spherical roller
21315	6.7335	9.2665	3.05309	0.420844	Spherical roller
21316	6.75065	9.24935	3.09757	0.421916	Spherical roller
21317	6.73634	9.26366	3.0612	0.421021	Spherical roller
21318	6.74261	9.25739	3.0776	0.421413	Spherical roller
21319	6.75669	9.24331	3.1144	0.422293	Spherical roller
21320	6.70983	9.29017	2.9969	0.419364	Spherical roller
21321	6.72395	9.27605	3.03196	0.420247	Spherical roller
21322	6.70566	9.29434	2.98863	0.419104	Spherical roller
21324	6.70357	9.29643	2.98304	0.418973	Spherical roller
22209	6.7872	9.213	3.1728	0.4242	Self-aligning ball
22210	7.3032	9.6972	3.4272	0.4296	Spherical roller
22211	7.257	9.7428	3.2958	0.4266	Spherical roller
22212	7.269	9.7308	3.3294	0.4278	Spherical roller
22213	7.2768	9.723	3.351	0.4278	Spherical roller
22214	7.7718	10.2288	3.54	0.432	Spherical roller
22215	8.2668	10.734	3.7284	0.435	Spherical roller
22216	7.79039	10.2096	3.61212	0.432799	Spherical roller
22217	8.17702	10.823	3.47957	0.430369	Spherical roller
22218	7.70891	10.2911	3.37036	0.428273	Spherical roller
22219	8.09666	10.9033	3.27822	0.42614	Spherical roller
22220	7.63239	10.3676	3.17495	0.424022	Spherical roller
22222	7.57799	10.422	3.05229	0.421	Spherical roller
22224	7.56838	10.4316	3.02156	0.420465	Spherical roller
22226	7.58079	10.4192	3.05181	0.421155	Spherical roller
22228	7.59292	10.4071	3.07805	0.421829	Spherical roller
22230	7.59552	10.4045	3.08431	0.421974	Spherical roller
22232	7.56176	10.4382	3.00937	0.420098	Spherical roller
22234	7.61394	10.3861	3.1241	0.422997	Spherical roller
22236	8.12433	10.8757	3.33438	0.427596	Spherical roller
22238	8.15192	10.8481	3.4023	0.429048	Spherical roller
22240	8.1531	10.8469	3.40386	0.429111	Spherical roller
22244	8.07931	10.9207	3.22176	0.425227	Spherical roller
22248	8.09135	10.9087	3.24986	0.42586	Spherical roller
22252	8.09731	10.9027	3.2638	0.426174	Spherical roller
22256	8.56695	11.4331	3.37268	0.428347	Spherical roller
22260	8.60107	11.3989	3.45777	0.430054	Spherical roller
22264	8.6004	11.3996	3.45595	0.43002	Spherical roller
22324	5.654	8.346	2.432	0.404	Spherical roller
22326	5.651	8.349	2.425	0.404	Spherical roller
22344	7.1214	9.879	2.9556	0.4188	Spherical roller
22348	7.143	9.8574	3.0048	0.42	Spherical roller
22352	7.1604	9.84	3.0468	0.4212	Spherical roller

23024	14.1818	16.8182	5.76569	0.457477	Spherical roller
23026	13.6622	16.3378	5.48932	0.455406	Spherical roller
23028	14.1953	16.8047	5.8251	0.457912	Spherical roller
23030	14.2032	16.7968	5.86491	0.458167	Spherical roller
23032	14.2044	16.7955	5.87046	0.458208	Spherical roller
23034	13.6971	16.3029	5.64132	0.456568	Spherical roller
23036	12.7143	15.2857	5.32679	0.454081	Spherical roller
23038	13.6783	16.3217	5.56114	0.455945	Spherical roller
23040	12.7098	15.2902	5.30869	0.45392	Spherical roller
23044	12.7266	15.2734	5.37821	0.454522	Spherical roller
23048	13.7242	16.2758	5.76568	0.457474	Spherical roller
23052	13.2068	15.7932	5.48932	0.455406	Spherical roller
23056	13.7367	16.2633	5.82506	0.45789	Spherical roller
23060	13.1876	15.8124	5.41244	0.454745	Spherical roller
23064	13.7095	16.2905	5.70035	0.456984	Spherical roller
23068	13.2097	15.7903	5.50733	0.455508	Spherical roller
23072	13.7234	16.2766	5.76563	0.457448	Spherical roller
23076	14.236	16.764	6.02378	0.459227	Spherical roller
23080	13.7321	16.2679	5.80705	0.457737	Spherical roller
23084	14.2397	16.7603	6.04119	0.459347	Spherical roller
23088	14.2433	16.7567	6.0599	0.459462	Spherical roller
23092	14.2154	16.7846	5.92775	0.458561	Spherical roller
23096	14.7183	17.2817	6.13744	0.459947	Spherical roller
23122	11.2404	13.7596	4.81725	0.449617	Spherical roller
23124	11.2049	13.7951	4.68446	0.448196	Spherical roller
23126	11.7383	14.2617	5.01118	0.451475	Spherical roller
23128	11.7162	14.2838	4.92447	0.450622	Spherical roller
23130	10.7134	13.2866	4.51567	0.446393	Spherical roller
23132	10.6993	13.3007	4.46772	0.445805	Spherical roller
23134	10.7235	13.2765	4.56006	0.446814	Spherical roller
23136	10.7121	13.2879	4.51344	0.446336	Spherical roller
23138	10.7196	13.2804	4.53704	0.446649	Spherical roller
23140	9.77259	12.2274	4.33248	0.444209	Spherical roller
23144	10.2476	12.7524	4.44663	0.445548	Spherical roller
23148	10.2707	12.7293	4.53332	0.446553	Spherical roller
23152	10.2674	12.7326	4.51891	0.446408	Spherical roller
23156	10.7695	13.2305	4.73177	0.448729	Spherical roller
23160	10.2657	12.7343	4.51556	0.446336	Spherical roller
23164	9.80624	12.1938	4.45729	0.445738	Spherical roller
23168	9.32303	11.677	4.31304	0.443954	Spherical roller
23172	9.81694	12.1831	4.5039	0.446225	Spherical roller
23176	10.311	12.689	4.69456	0.448305	Spherical roller
23180	10.7726	13.2274	4.74979	0.44886	Spherical roller
23184	10.2803	12.7197	4.57094	0.446968	Spherical roller
23188	10.7705	13.2295	4.73663	0.44877	Spherical roller
23192	10.3032	12.6968	4.66431	0.447965	Spherical roller
23196	10.3164	12.6836	4.71814	0.448539	Spherical roller

23217	9.68866	12.3113	4.04513	0.440394	Spherical roller
23218	9.68633	12.3137	4.03834	0.440288	Spherical roller
23219	9.67458	12.3254	4.00165	0.439754	Spherical roller
23220	9.1899	11.8101	3.85569	0.437614	Spherical roller
23222	9.18714	11.8129	3.83903	0.437483	Spherical roller
23224	9.2284	11.7716	3.9648	0.439448	Spherical roller
23226	8.76646	11.2335	3.89632	0.438323	Spherical roller
23228	9.22012	11.7799	3.94057	0.439053	Spherical roller
23230	8.75801	11.242	3.86537	0.437901	Spherical roller
23232	8.75546	11.2445	3.85317	0.437773	Spherical roller
23234	8.75653	11.2435	3.85875	0.437826	Spherical roller
23236	9.24501	11.755	4.02235	0.440239	Spherical roller
23238	9.23917	11.7608	4.00206	0.43996	Spherical roller
23240	8.75688	11.2431	3.86981	0.437844	Spherical roller
23244	8.75525	11.2448	3.85188	0.437763	Spherical roller
23248	8.1792	10.821	3.4728	0.4302	Spherical roller
23252	8.28523	10.7148	3.74389	0.436065	Spherical roller
23256	8.7846	11.2154	3.95096	0.43923	Spherical roller
23260	8.75543	11.2446	3.856	0.437771	Spherical roller
23264	8.31793	10.6821	3.8532	0.437786	Spherical roller
23268	8.2963	10.7037	3.7796	0.436647	Spherical roller
23272	8.31963	10.6804	3.86251	0.437875	Spherical roller
23276	8.77479	11.2252	3.9179	0.438739	Spherical roller
23280	8.3177	10.6823	3.856	0.437774	Spherical roller
23284	8.31761	10.6824	3.85384	0.437769	Spherical roller
23288	8.32054	10.6795	3.86356	0.437923	Spherical roller
23292	8.75447	11.2455	3.85492	0.437723	Spherical roller
23296	8.31735	10.6826	3.85314	0.437755	Spherical roller
23944	19.6868	22.3132	7.90835	0.468734	Spherical roller
23948	21.662	24.3375	8.51656	0.470925	Spherical roller
23952	18.1978	20.8022	7.39544	0.46661	Spherical roller
23956	19.6808	22.3192	7.87357	0.468591	Spherical roller
23960	17.6983	20.3017	7.20602	0.465746	Spherical roller
23964	18.6978	21.3022	7.5877	0.467445	Spherical roller
23968	19.6997	22.3003	7.98925	0.46904	Spherical roller
23972	20.7019	23.2981	8.39069	0.470498	Spherical roller
23976	19.1947	21.8053	7.76151	0.468164	Spherical roller
23980	19.7215	22.2785	8.1249	0.46956	Spherical roller
23984	20.7143	23.285	8.47097	0.470778	Spherical roller
23988	19.2133	21.7867	7.87793	0.468618	Spherical roller
23992	20.1996	22.8004	8.18208	0.469758	Spherical roller
30207	7.1162	9.8838	2.90054	0.418	Taper roller
30208	7.11555	9.88445	2.8991	0.418562	Taper roller
30209	8.08433	10.9157	3.16737	0.425491	Taper roller
30210	8.57133	11.4287	3.30138	0.428566	Taper roller
30211	8.08443	10.9156	3.1676	0.425496	Taper roller
30212	8.08438	10.9156	3.16748	0.4254	Taper roller

30213	8.08497	10.915	3.16887	0.425525	Taper roller
30214	8.57081	11.4292	3.30013	0.42854	Taper roller
30215	9.0592	11.9408	3.43376	0.43139	Taper roller
30216	8.57181	11.4282	3.30254	0.42859	Taper roller
30217	8.57083	11.4292	3.30019	0.428541	Taper roller
30218	8.57147	11.4285	3.30173	0.428574	Taper roller
30219	8.5709	11.4291	3.30037	0.428545	Taper roller
30220	8.57145	11.4285	3.30168	0.428572	Taper roller
30221	8.57126	11.4287	3.30122	0.428563	Taper roller
30222	8.57107	11.4289	3.30076	0.428553	Taper roller
30224	9.05865	11.9413	3.43241	0.431364	Taper roller
30226	9.05846	11.9415	3.43194	0.431355	Taper roller
30228	9.05845	11.9416	3.43192	0.431355	Taper roller
30230	7.76432	10.2357	3.43172	0.431351	Taper roller
30232	9.0587	11.9413	3.43252	0.431367	Taper roller
30234	9.05886	11.9411	3.43293	0.431374	Taper roller
30236	8.67892	11.3211	3.56188	0.433946	Taper roller
30238	9.05847	11.9415	3.43197	0.431356	Taper roller
30240	9.05857	11.9414	3.43221	0.431361	Taper roller
30244	8.57138	11.4286	3.30151	0.428569	Taper roller
30248	8.57133	11.4287	3.30138	0.428566	Taper roller
30307	5.5992	8.4008	2.34732	0.399943	Taper roller
30308	6.56402	9.43598	2.62723	0.410251	Taper roller
30309	6.56399	9.43601	2.62719	0.41025	Taper roller
30310	6.5635	9.43651	2.62622	0.410218	Taper roller
30311	6.56396	9.43604	2.62712	0.410247	Taper roller
30312	6.56395	9.43605	2.6271	0.410247	Taper roller
30313	6.56368	9.43632	2.62658	0.41023	Taper roller
30314	6.56332	9.43668	2.62588	0.410208	Taper roller
30315	6.5638	9.4362	2.62681	0.410237	Taper roller
30316	6.56383	9.43617	2.62687	0.410239	Taper roller
30317	9.43681	2.62561	9.43681	0.410199	Taper roller
30318	6.5644	9.43559	2.62799	0.410275	Taper roller
30319	6.5638	9.4362	2.62681	0.410237	Taper roller
30320	6.56328	9.43672	2.6258	0.410205	Taper roller
30321	6.56414	9.43586	2.62748	0.410259	Taper roller
30322	6.56382	9.43618	2.62685	0.410239	Taper roller
30324	6.56397	9.43603	2.62714	0.410248	Taper roller
30326	6.56396	9.43604	2.62712	0.410247	Taper roller
30328	6.56355	9.43645	2.62633	0.410222	Taper roller
30330	6.56382	9.43618	2.62684	0.410238	Taper roller
30332	6.5637	9.436	2.62662	0.410231	Taper roller
30334	6.56381	9.43619	2.62684	0.410238	Taper roller
30336	6.5637	9.4363	2.62661	0.410231	Taper roller
30340	6.56393	9.43607	2.62706	0.410246	Taper roller
31308	6.73626	9.26374	2.70421	0.421016	Taper roller
31309	6.73629	9.26371	2.70428	0.421018	Taper roller

31310	6.73581	9.26419	2.70321	0.420988	Taper roller
31311	6.73622	9.26378	2.70412	0.421014	Taper roller
31312	6.73624	9.26376	2.70418	0.421015	Taper roller
31313	6.7355	9.2645	2.70252	0.420969	Taper roller
31314	6.73581	9.2642	2.7032	0.420988	Taper roller
31315	6.73609	9.26391	2.70383	0.421006	Taper roller
31316	6.73644	9.26356	2.70462	0.421027	Taper roller
31317	5.89419	8.10581	2.70413	0.421014	Taper roller
31318	6.73643	9.26357	2.70461	0.421027	Taper roller
31319	6.73622	9.26378	2.70412	0.421014	Taper roller
32203	5.60323	8.39676	2.3556	0.400231	Taper roller
32204	5.62001	8.37999	2.3844	0.401429	Taper roller
32206	7.11607	9.88393	2.90024	0.418592	Taper roller
32207	7.11613	9.88387	2.90038	0.418596	Taper roller
32208	7.11627	9.88373	2.9007	0.418604	Taper roller
32209	8.08489	10.9151	3.16867	0.42552	Taper roller
32210	8.14276	10.8572	3.30138	0.428566	Taper roller
32211	8.08497	10.915	3.16885	0.425525	Taper roller
32212	8.08504	10.915	3.16903	0.425528	Taper roller
32213	8.08503	10.915	3.169	0.425528	Taper roller
32214	8.57095	11.4291	3.30047	0.428547	Taper roller
32216	8.57053	11.4295	3.29946	0.428526	Taper roller
32217	8.5712	11.4288	3.30108	0.42856	Taper roller
32218	8.57145	11.4285	3.30167	0.428572	Taper roller
32219	11.4291	11.4291	3.30037	0.428545	Taper roller
32220	8.57145	11.4285	3.30168	0.428572	Taper roller
32221	8.57098	11.429	3.30056	0.428549	Taper roller
32222	8.57081	11.4292	3.30013	0.42854	Taper roller
32224	7.76448	10.2355	3.43218	0.43136	Taper roller
32226	9.05886	11.9411	3.43291	0.431374	Taper roller
32228	7.76489	10.2351	3.43338	0.431383	Taper roller
32230	9.05844	11.9416	3.43189	0.431354	Taper roller
32232	9.0585	11.9415	3.43204	0.431357	Taper roller
32234	9.05826	11.9417	3.43144	0.431346	Taper roller
32236	9.113	11.887	3.56225	0.433953	Taper roller
32238	9.05885	11.9411	3.4329	0.431374	Taper roller
32240	8.22894	10.7711	3.54224	0.433102	Taper roller
32244	9.05864	11.9414	3.43239	0.431364	Taper roller
32248	9.0587	11.9413	3.43254	0.431367	Taper roller
32252	8.60958	11.3904	3.38992	0.430479	Taper roller
32260	9.05852	11.9415	3.43207	0.431358	Taper roller
32308	6.56342	9.43659	2.62606	0.410213	Taper roller
32309	6.56346	9.43654	2.62614	0.410216	Taper roller
32310	6.56398	9.43602	2.62716	0.410249	Taper roller
32311	6.56396	9.43604	2.62713	0.410248	Taper roller
32312	6.56395	9.43605	2.6271	0.410247	Taper roller
32313	6.5638	9.4362	2.62681	0.410237	Taper roller

32314	6.56354	9.43646	2.6263	0.410221	Taper roller
32315	6.5631	9.4369	2.62544	0.410194	Taper roller
32316	6.56337	9.43663	2.62597	0.410211	Taper roller
32317	6.56423	9.43577	2.62766	0.410265	Taper roller
32318	5.74317	8.25683	2.62646	0.410226	Taper roller
32319	6.56383	9.43618	2.62686	0.410239	Taper roller
32320	6.15324	8.84676	2.62615	0.410216	Taper roller
32321	6.15405	8.84595	2.62783	0.41027	Taper roller
32322	5.74361	8.25639	2.62744	0.410258	Taper roller
32324	6.56425	9.43575	2.6277	0.410266	Taper roller
32328	6.5638	9.4362	2.62681	0.410237	Taper roller
32330	6.56357	9.43643	2.62636	0.410223	Taper roller
32332	6.5638	9.4362	2.62681	0.410237	Taper roller
32334	7.04869	9.95131	2.76446	0.414629	Taper roller
32336	7.04846	9.95154	2.764	0.414615	Taper roller
32340	7.04848	9.95152	2.76403	0.414616	Taper roller
32908	11.3648	13.6352	5.36142	0.454593	Taper roller
32911	14.8319	17.1681	6.672	0.46349	Taper roller
32914	14.2199	16.7801	5.88428	0.458707	Taper roller
32915	14.7525	17.2475	6.22205	0.461014	Taper roller
32917	14.8252	17.1748	6.6176	0.463288	Taper roller
32918	15.7127	18.2873	6.40057	0.46213	Taper roller
32919	16.2367	18.7633	6.70235	0.463907	Taper roller
32924	17.1324	19.8676	6.55239	0.463039	Taper roller
32926	16.6305	19.3695	6.37262	0.461959	Taper roller
32932	17.1223	19.8777	6.50561	0.462764	Taper roller
32934	18.6628	21.3372	7.2131	0.466569	Taper roller
32936	18.176	20.824	6.98138	0.466052	Taper roller
32938	19.6698	22.3302	7.49153	0.468327	Taper roller
32940	16.6072	19.3928	6.21129	0.46131	Taper roller
32944	17.6431	20.3569	6.7014	0.464292	Taper roller
32948	19.1487	21.8513	7.22237	0.467042	Taper roller
32952	17.113	19.887	6.40039	0.462513	Taper roller
32956	18.5966	21.4034	6.8133	0.464916	Taper roller
32960	17.0686	19.9314	6.21172	0.4613	Taper roller
33010	10.7175	13.2825	4.5253	0.446564	Taper roller
33011	10.6922	13.3078	4.43849	0.4455	Taper roller
33012	11.2108	13.7892	4.68572	0.448432	Taper roller
33013	12.265	14.7341	5.28321	0.454293	Taper roller
33014	10.6729	13.3271	4.38749	0.444704	Taper roller
33015	12.6535	15.3465	5.05172	0.451912	Taper roller
33016	12.1481	14.8519	4.8602	0.449931	Taper roller
33017	12.6181	15.3819	4.92393	0.450646	Taper roller
33018	11.5988	14.4012	4.51286	0.446107	Taper roller
33019	12.0962	14.9038	4.67658	0.448006	Taper roller
33020	12.595	15.405	4.84416	0.449821	Taper roller
33021	12.6418	15.3582	5.01712	0.451493	Taper roller

33022	13.1154	15.8846	5.09617	0.452257	Taper roller
33024	14.1161	16.8839	5.44415	0.45536	Taper roller
33030	14.0834	16.9166	5.2714	0.454303	Taper roller
33109	9.10525	11.8947	3.58266	0.433584	Taper roller
33110	9.6507	12.3492	3.87221	0.438671	Taper roller
33111	9.16029	11.8397	3.74047	0.436205	Taper roller
33112	10.1288	12.871	3.99621	0.440384	Taper roller
33113	9.65271	12.3473	3.89296	0.43876	Taper roller
33114	9.61565	12.3843	3.7911	0.437075	Taper roller
33115	10.1282	12.8718	3.99421	0.440355	Taper roller
33116	10.641	13.359	4.19989	0.443375	Taper roller
33117	10.6063	13.3937	4.09893	0.441928	Taper roller
33118	10.128	12.871	3.9943	0.440357	Taper roller
33119	10.1018	12.8982	3.92121	0.439209	Taper roller
33120	10.606	13.394	4.09807	0.441916	Taper roller
33121	10.5976	13.4024	4.07479	4.07479	Taper roller
33122	11.093	13.907	4.22475	0.443721	Taper roller
33124	10.569	13.431	3.99566	0.440376	Taper roller
33209	7.65352	10.3465	3.16431	0.425196	Taper roller
33210	8.61931	11.3807	3.42446	0.430965	Taper roller
33211	8.13604	10.864	3.29573	0.428213	Taper roller
33212	8.5831	11.4169	3.3389	0.429155	Taper roller
33213	8.09837	10.9016	3.20839	0.42623	Taper roller
33215	9.1042	11.8958	3.5531	0.433533	Taper roller
33216	9.09513	11.9049	3.53092	0.433102	Taper roller
33217	9.06866	11.9313	3.46748	0.431841	Taper roller
62213	4.60625	6.39375	2.99567	0.41875	Deep groove ball
81115	13	13	5.83333	0.5	Cylindrical roller thrust
81116	13.5	13.5	6.16667	0.5	Cylindrical roller thrust
81117	14	14	6.5	0.5	Cylindrical roller thrust
81118	13	13	5.83333	0.5	Cylindrical roller thrust
81120	12	12	5.34091	0.5	Cylindrical roller thrust
81122	13	13	5.79545	0.5	Cylindrical roller thrust
81124	14	14	6.25	0.5	Cylindrical roller thrust
81126	13.5	13.5	6.24583	0.5	Cylindrical roller thrust
81128	14.5	14.5	7	0.5	Cylindrical roller thrust
81130	15.5	15.5	7.07917	0.5	Cylindrical roller thrust
81132	16.5	16.5	7.5	0.5	Cylindrical roller thrust
81134	15	15	6.875	0.5	Cylindrical roller thrust
81136	16	16	7.22857	0.5	Cylindrical roller thrust
81138	16	16	7.16667	0.5	Cylindrical roller thrust
81140	16.5	16.5	7.47667	0.5	Cylindrical roller thrust
81144	18.5	18.5	8.14	0.5	Cylindrical roller thrust
81148	18.5	18.5	7.61944	0.5	Cylindrical roller thrust
81152	19.5	19.5	8.16667	0.5	Cylindrical roller thrust
81156	18	18	7.27273	0.5	Cylindrical roller thrust
81160	17	17	6.896	0.5	Cylindrical roller thrust

81164	18	18	7.3	0.5 Cylindrical roller thrust
81168	19	19	7.692	0.5 Cylindrical roller thrust
81172	19.5	19.5	8.092	0.5 Cylindrical roller thrust
81176	20.5	20.5	8.448	0.5 Cylindrical roller thrust
81180	21.5	21.5	8.848	0.5 Cylindrical roller thrust
81184	22.5	22.5	9.248	0.5 Cylindrical roller thrust
81188	19	19	7.73594	0.5 Cylindrical roller thrust
81192	20	20	8.04844	0.5 Cylindrical roller thrust
81196	20.5	20.5	8.37813	0.5 Cylindrical roller thrust
81215	9	9	4.20455	0.5 Cylindrical roller thrust
81217	9.5	9.5	4.35	0.5 Cylindrical roller thrust
81220	9	9	4.15	0.5 Cylindrical roller thrust
81222	10	10	4.48333	0.5 Cylindrical roller thrust
81224	10.5	10.5	4.81667	0.5 Cylindrical roller thrust
81226	8.5	8.5	4.1921	0.5 Cylindrical roller thrust
81228	9.5	9.5	4.45789	0.5 Cylindrical roller thrust
81230	10.5	10.5	4.45	0.5 Cylindrical roller thrust
81232	11	11	4.66429	0.5 Cylindrical roller thrust
81234	11.5	11.5	4.76818	0.5 Cylindrical roller thrust
81236	12	12	4.99545	0.5 Cylindrical roller thrust
81238	10.5	10.5	4.53462	0.5 Cylindrical roller thrust
81240	11	11	4.72692	0.5 Cylindrical roller thrust
81244	12	12	5.12115	0.5 Cylindrical roller thrust
81248	11.5	4.68437	4.68437	0.5 Cylindrical roller thrust
81252	12.5	12.5	4.96406	0.5 Cylindrical roller thrust
228285	10.24	12.76	4.41	0.45 Spherical roller
228711	7.75069	10.2493	3.43967	0.430594 Spherical roller
229711	7.75	10.25	3.44	0.43 Spherical roller
229750	9.76449	12.2355	4.30596	0.44384 Spherical roller
230530	14.2416	16.7586	6.0246	0.4596 Spherical roller
230560	14.721	17.2794	6.1206	0.4602 Spherical roller
230630	13.1922	15.8082	5.4138	0.4548 Spherical roller
230670	14.7402	17.2608	6.2124	0.4608 Spherical roller
230710	13.6368	15.3636	8.2404	0.4704 Spherical roller
230750	14.7498	17.2506	6.2628	0.4608 Spherical roller
230850	13.7016	16.299	5.6436	0.4566 Spherical roller
230906	9.76449	12.2355	4.30596	0.44384 Spherical roller
230950	14.1786	16.8222	5.733	0.4572 Spherical roller
231255	9.25555	11.7444	4.08538	0.44074 Spherical roller
231481	9.19348	11.8065	3.879	0.437785 Spherical roller
313221	7.72941	10.2706	3.47108	0.429412 Taper roller
313639	10.2471	12.7529	4.53481	0.445525 Cylindrical roller
314560	15.563	18.437	5.87263	0.457734 Cylindrical roller
314889	10.787	13.213	4.89589	0.449458 Cylindrical roller
314897	12.1772	14.8228	5.05395	0.451009 Cylindrical roller
328111	8.61396	11.386	3.4318	0.430698 Taper roller
328115	11.1342	13.8658	4.41431	0.445368 Taper roller

328126	10.1859	12.8141	3.7771	0.442866	Taper roller
328127	5.10834	7.89166	2.19119	0.392949	Taper roller
330710	14.1139	16.8861	5.42529	0.455287	Taper roller
330835	19.7867	22.2133	8.35676	0.471112	Taper roller
330841	8.66196	11.338	3.51877	0.433098	Taper roller
331075	6.19107	8.80893	2.49228	0.412738	Taper roller
331165	21.0324	23.9676	7.4412	0.467387	Taper roller
331169	20.5946	23.4054	7.43413	0.468059	Taper roller
331228	17.0705	19.9295	6.2776	0.461364	Taper roller
331274	9.28197	11.718	4.12897	0.441999	Taper roller
331329	16.1336	18.8664	6.21355	0.460959	Taper roller
331350	17.0594	19.9406	6.2306	0.461064	Taper roller
331351	24.0948	26.9052	8.80796	0.472447	Taper roller
331387	16.1336	18.8664	6.21355	0.460959	Taper roller
331388	20.6983	23.3017	7.97396	0.470416	Taper roller
331398	14.0637	16.9363	5.13094	0.453667	Taper roller
331399	23.6411	26.3589	8.85189	0.472822	Taper roller
331465	19.5658	22.4342	6.9434	0.465854	Taper roller
331480	18.1548	20.8452	6.92228	0.465507	Taper roller
331486	20.6983	23.3017	7.97396	0.470416	Taper roller
331499	19.0322	21.9678	6.79988	0.464199	Taper roller
331614	16.2216	18.7784	6.66914	0.463475	Taper roller
331616	19.6198	22.3802	7.39522	0.467138	Taper roller
331657	17.0588	19.9412	6.22792	0.46104	Taper roller
331717	9.5957	12.4043	3.67782	0.436168	Taper roller
331753	8.80281	11.1972	3.63474	0.440141	Taper roller
331787	17.0913	19.9087	6.35447	0.461927	Taper roller
331814	18.1579	20.8421	6.93876	0.465588	Taper roller
331925	20.0549	22.9451	7.2299	0.466394	Taper roller
331933	7.59392	10.4061	3.04826	0.421885	Taper roller
331943	20.2337	22.7663	8.21582	0.470552	Taper roller
331952	8.0574	10.9426	3.09213	0.424074	Taper roller
331959	18.5966	21.4034	6.8133	0.464916	Taper roller
331964	13.7184	16.2816	5.50028	0.457279	Taper roller
331981	17.0705	19.9295	6.2776	0.461364	Taper roller
331999	21.1228	23.8772	7.81164	0.469395	Taper roller
332059	16.5571	19.4429	6.05825	0.459921	Taper roller
332283	16.5987	19.4013	6.23255	0.461076	Taper roller
332335	47.6367	50.3633	17.0914	0.486089	Taper roller
332383	16.0787	18.9213	5.9028	0.459393	Taper roller
332935	6.55562	9.44438	2.62914	0.409726	Taper roller
332954	7.60768	10.3923	3.03502	0.422649	Taper roller
21312C	8.14853	10.8515	3.40195	0.42887	Spherical roller
21313C	8.64822	11.3518	3.58734	0.432411	Spherical roller
22212C	7.71424	10.2858	3.38546	0.428569	Spherical roller
22213C	7.72777	10.2722	3.42135	0.429321	Spherical roller
22214C	8.22388	10.7761	3.61251	0.432836	Spherical roller

22216C	8.70488	11.2951	3.7566	0.435244	Spherical roller
22217C	8.22817	10.7718	3.62755	0.433062	Spherical roller
22218C	8.23345	10.7666	3.64001	0.43334	Spherical roller
22219C	8.19846	10.8015	3.53773	0.431498	Spherical roller
22220C	8.20418	10.7958	3.55315	0.431799	Spherical roller
22222C	8.18169	10.8183	3.4861	0.430615	Spherical roller
22224C	8.19434	10.8057	3.51947	0.431281	Spherical roller
22226C	8.20959	10.7904	3.5591	0.432084	Spherical roller
22228C	8.21122	10.7888	3.56647	0.43217	Spherical roller
22230C	8.17445	10.8256	3.46291	0.430234	Spherical roller
22232C	8.17823	10.8218	3.47055	0.430433	Spherical roller
22234C	8.17623	10.8238	3.46425	0.430328	Spherical roller
22236C	8.64966	11.3503	3.58273	0.432483	Spherical roller
22238C	8.20304	10.797	3.53953	0.431739	Spherical roller
22240C	8.17577	10.8242	3.46386	0.430304	Spherical roller
22244C	8.18347	10.8165	3.48405	0.430709	Spherical roller
22248C	8.14679	10.8532	3.38588	0.428779	Spherical roller
22309C	5.7483	8.2517	2.62729	0.410593	Spherical roller
22310C	5.70063	8.29937	2.52443	0.407188	Spherical roller
22311C	5.73074	8.26926	2.5913	0.409338	Spherical roller
22312C	5.72082	8.27919	2.56983	0.40863	Spherical roller
22313C	5.75073	8.24927	2.64203	0.410766	Spherical roller
22314C	5.74711	8.25289	2.63475	0.410508	Spherical roller
22315C	6.17789	8.82211	2.67694	0.411859	Spherical roller
22316C	5.73493	8.26507	2.6077	0.409638	Spherical roller
22317C	5.6994	8.3004	2.559	0.4074	Spherical roller
22318C	6.18076	8.81924	2.68486	0.412051	Spherical roller
22319C	6.19679	8.80321	2.72095	0.413119	Spherical roller
22320C	6.16546	8.83454	2.65124	0.41103	Spherical roller
22322C	6.17418	8.82582	2.67163	0.411612	Spherical roller
22324C	6.16764	8.83236	2.65768	0.411176	Spherical roller
22326C	6.17651	8.82349	2.67664	0.411767	Spherical roller
22328C	6.17852	8.82148	2.67916	0.411901	Spherical roller
22330C	6.17823	8.82177	2.68036	0.411882	Spherical roller
22332C	6.19674	8.80326	2.72084	0.413116	Spherical roller
22334C	6.19082	8.80918	2.70862	0.412721	Spherical roller
22336C	6.18123	8.81877	2.68588	0.412082	Spherical roller
22338C	6.19679	8.80321	2.72095	0.413119	Spherical roller
22340C	6.19165	8.80835	2.71046	0.412777	Spherical roller
22344C	6.64772	9.35228	2.81066	0.415483	Spherical roller
22348C	6.64923	9.35077	2.81658	0.415577	Spherical roller
22352C	6.65374	9.34626	2.82828	0.415859	Spherical roller
22356C	6.65787	9.34213	2.83911	0.416117	Spherical roller
23022C	11.7272	14.2728	4.99806	0.451048	Spherical roller
23024C	12.1847	14.8153	5.02848	0.451286	Spherical roller
23026C	11.2094	13.7906	4.73753	0.448377	Spherical roller
23028C	12.1838	14.8162	5.02605	0.451252	Spherical roller

23030C	12.1991	14.8009	5.08745	0.45182	Spherical roller
23032C	12.1828	14.8172	5.02421	0.451214	Spherical roller
23034C	11.6944	14.3056	4.87082	0.449783	Spherical roller
23036C	11.1942	13.8058	4.67697	0.447769	Spherical roller
23038C	11.708	14.292	4.92434	0.450307	Spherical roller
23040C	11.2117	13.7883	4.74168	0.448467	Spherical roller
23044C	11.198	13.802	4.68857	0.447919	Spherical roller
23048C	12.1853	14.8147	5.02852	0.451307	Spherical roller
23052C	11.2095	13.7905	4.73471	0.448381	Spherical roller
23056C	12.1839	14.8161	5.02323	0.451256	Spherical roller
23060C	11.6667	14.3333	4.76683	0.448721	Spherical roller
23064C	12.1828	14.8172	5.01678	0.451216	Spherical roller
23068C	11.6736	14.3264	4.79071	0.448983	Spherical roller
23072C	12.6857	15.3143	5.21871	0.45306	Spherical roller
23076C	12.69	15.3098	5.24259	0.4532	Spherical roller
23120C	9.71105	12.2889	4.13	0.441411	Spherical roller
23122C	9.70804	12.292	4.12234	0.441274	Spherical roller
23124C	9.25555	11.7444	4.08538	0.44074	Spherical roller
23126C	9.73938	12.2606	4.23119	0.442699	Spherical roller
23128C	10.2053	12.7947	4.31132	0.443707	Spherical roller
23130C	9.6886	12.3114	4.0538	0.440391	Spherical roller
23132C	9.19348	11.8065	3.879	0.437785	Spherical roller
23134C	9.69339	12.3066	4.07263	0.440609	Spherical roller
23136C	9.68359	12.3164	4.03794	0.440163	Spherical roller
23138C	9.68022	12.3198	4.02377	0.44001	Spherical roller
23140C	9.1805	11.8195	3.83279	0.437167	Spherical roller
23144C	9.6815	12.3185	4.02894	0.440068	Spherical roller
23148C	9.66679	12.3332	3.98558	0.4394	Spherical roller
23152C	9.191	11.809	3.86673	0.437666	Spherical roller
23156C	9.70085	12.2992	4.0954	0.440948	Spherical roller
23160C	9.6649	12.3351	3.97851	0.439314	Spherical roller
23164C	9.65909	12.3409	3.95607	0.43905	Spherical roller
23168C	9.19295	11.807	3.87044	0.437759	Spherical roller
23184C	9.22402	11.776	3.97471	0.439239	Spherical roller
23218C	8.24846	10.7515	3.65023	0.434129	Spherical roller
23219C	8.24725	10.7528	3.64658	0.434066	Spherical roller
23220C	8.18089	10.8191	3.45213	0.430573	Spherical roller
23222C	8.19413	10.8059	3.48069	0.43127	Spherical roller
23224C	8.21361	10.7864	3.5319	0.432295	Spherical roller
23226C	8.22302	10.777	3.56245	0.432791	Spherical roller
23228C	8.23007	10.7699	3.58296	0.433162	Spherical roller
23230C	7.7558	10.2442	3.45436	0.430878	Spherical roller
23232C	7.7641	10.2359	3.47846	0.431339	Spherical roller
23234C	7.75069	10.2493	3.43967	0.430594	Spherical roller
32203B	6.34529	8.65471	2.97937	0.423019	Taper roller
7236B	4.85995	6.14005	3.24676	0.441814	Angular contact ball
N205	4.98701	7.01299	2.87712	0.415584	Cylindrical roller

N206	5.02174	6.97826	2.98515	0.418478	Cylindrical roller
N207	4.98113	7.01887	2.85954	0.415094	Cylindrical roller
N208	5.41667	7.58333	2.91667	0.416667	Cylindrical roller
N209	5.92308	8.07692	3.17308	0.423077	Cylindrical roller
N210	6.42857	8.5714	3.42857	0.428571	Cylindrical roller
N211	6.43548	8.56452	3.45176	0.429032	Cylindrical roller
N212	6.44737	8.55	3.49233	0.429825	Cylindrical roller
N213	6.45161	8.54839	3.50703	0.430108	Cylindrical roller
N214	6.93333	9.06667	3.68333	0.433333	Cylindrical roller
N215	6.90732	9.09268	3.59242	0.431707	Cylindrical roller
N216	6.90909	9.09091	3.59848	0.431818	Cylindrical roller
N217	6.91525	9.08475	3.6197	0.432203	Cylindrical roller
N218	6.42	8.58	3.40022	0.428	Cylindrical roller
N219	6.85283	9.14717	3.41514	0.428302	Cylindrical roller
N220	6.85714	9.14286	3.42857	0.428571	Cylindrical roller
N2202	3.97119	6.02881	2.32712	0.397119	Cylindrical roller
N221	6.86333	9.13667	3.448	0.428958	Cylindrical roller
N222	6.39068	8.60933	3.30648	0.426045	Cylindrical roller
N224	6.85373	9.14627	3.41794	0.428358	Cylindrical roller
N225	7.8	10.2	3.6834	0.4332	Cylindrical roller
N226	7.36667	9.63333	3.68333	0.433333	Cylindrical roller
N228	7.36667	9.63333	3.68333	0.433333	Cylindrical roller
N230	7.8	10.2	3.68333	0.433333	Cylindrical roller
N232	7.8	10.2	3.68333	0.433333	Cylindrical roller
N234	7.8	10.2	3.68333	0.433333	Cylindrical roller
N236	8.284	10.716	3.84225	0.436	Cylindrical roller
N238	8.28113	10.7189	3.83291	0.435849	Cylindrical roller
N240	8.27857	10.7214	3.8246	0.435714	Cylindrical roller
N244	8.27419	10.7258	3.81048	0.435484	Cylindrical roller
N248	8.24265	3.7116	10.7573	0.433824	Cylindrical roller
N252	8.21622	10.7838	3.63243	0.432432	Cylindrical roller
N302	3.05454	4.94546	1.9972	0.381818	Cylindrical roller
N303	3.51562	5.48438	2.17634	0.390625	Cylindrical roller
N304	3.52703	5.47297	2.20439	0.391892	Cylindrical roller
N308	4.90076	7.09924	2.63756	0.408397	Cylindrical roller
N310	4.875	7.125	2.57292	0.40625	Cylindrical roller
N311	4.43143	6.56857	2.47639	0.402857	Cylindrical roller
N312	4.86316	7.13684	2.54415	0.405263	Cylindrical roller
N313	4.8878	7.1122	2.60469	0.407317	Cylindrical roller
N314	4.90909	7.09091	2.65909	0.409091	Cylindrical roller
N315	4.8766	7.1234	2.57684	0.406383	Cylindrical roller
N316	5.356	7.644	2.75291	0.412	Cylindrical roller
N317	4.90909	7.09091	2.65909	0.409091	Cylindrical roller
N318	5.33929	7.66071	2.71072	0.410714	Cylindrical roller
N319	5.35424	7.64576	2.7484	0.411864	Cylindrical roller
N320	5.34444	7.65556	2.72361	0.411111	Cylindrical roller
N321	5.31818	7.68182	2.65909	0.409091	Cylindrical roller

N322	5.31143	7.68857	2.64295	0.408571	Cylindrical roller
N324	4.86316	7.13684	2.54415	0.405263	Cylindrical roller
N326	5.70244	8.29756	2.60469	0.407317	Cylindrical roller
N328	5.72727	8.27273	2.65909	0.409091	Cylindrical roller
N330	5.74894	8.25106	2.70826	0.410638	Cylindrical roller
N332	6.24	8.76	2.89219	0.416	Cylindrical roller
N334	6.22642	8.77359	2.85954	0.415094	Cylindrical roller
N336	6.21429	8.78571	2.83095	0.414286	Cylindrical roller
N338	6.22881	8.77119	2.86525	0.415254	Cylindrical roller
N340	6.29032	8.70968	3.01936	0.419355	Cylindrical roller
N344	6.26471	8.73529	2.95336	0.417647	Cylindrical roller
N348	6.7027	9.2973	3.00225	0.418919	Cylindrical roller
N352	6.72	9.28	3.045	0.42	Cylindrical roller
N405	3.43701	5.56299	1.99856	0.38189	Cylindrical roller
N406	3.4322	5.5678	1.9885	0.381356	Cylindrical roller
N407	3.89706	6.10294	2.15637	0.389706	Cylindrical roller
N408	3.86667	6.13333	2.09255	0.386667	Cylindrical roller
N409	3.90909	6.09091	2.18258	0.390909	Cylindrical roller
N410	3.89868	6.10132	2.15987	0.389868	Cylindrical roller
N411	4.36831	6.63169	2.32712	0.397119	Cylindrical roller
N412	4.34762	6.65238	2.2816	0.395238	Cylindrical roller
N413	4.37355	6.62645	2.3389	0.397596	Cylindrical roller
N414	4.36508	6.63492	2.3199	0.396825	Cylindrical roller
N415	4.33774	6.66226	2.26041	0.39434	Cylindrical roller
N416	4.32143	6.67857	2.22619	0.392857	Cylindrical roller
N417	4.28621	6.71379	2.15528	0.389655	Cylindrical roller
N418	4.3127	6.6873	2.20824	0.392063	Cylindrical roller
N419	4.78209	7.21791	2.36174	0.398507	Cylindrical roller
N420	4.76571	7.23429	2.3277	0.397143	Cylindrical roller
N421	4.75069	7.24931	2.29721	0.39589	Cylindrical roller
N422	4.76923	7.23077	2.33494	0.397436	Cylindrical roller
N424	4.74419	7.25581	2.28424	0.395349	Cylindrical roller
N426	4.7234	7.2766	2.24362	0.393617	Cylindrical roller
N428	4.752	7.248	2.29985	0.396	Cylindrical roller
N430	5.22453	7.77547	2.44996	0.401887	Cylindrical roller
N432	5.24643	7.75357	2.49616	0.40357	Cylindrical roller
N434	5.2661	7.7339	2.53901	0.405085	Cylindrical roller
NJ228	7.36667	9.63333	3.68333	0.433333	Cylindrical roller
NU205	4.98701	7.01299	2.87712	0.415584	Cylindrical roller
NU206	5.02174	6.97826	2.98515	0.418478	Cylindrical roller
NU207	4.98113	7.01887	2.85954	0.415094	Cylindrical roller
NU208	5.41667	7.58333	2.91667	0.416667	Cylindrical roller
NU209	5.92308	8.07692	3.17308	0.423077	Cylindrical roller
NU210	6.42857	8.5714	3.42857	0.428571	Cylindrical roller
NU211	6.43548	8.56452	3.45176	0.429032	Cylindrical roller
NU212	6.44737	8.55	3.49233	0.429825	Cylindrical roller
NU213	6.45161	8.54839	3.50703	0.430108	Cylindrical roller

NU214	6.93333	9.06667	3.68333	0.433333	Cylindrical roller
NU215	6.90732	9.09268	3.59242	0.431707	Cylindrical roller
NU216	6.90909	9.09091	3.59848	0.431818	Cylindrical roller
NU217	6.91525	9.08475	3.6197	0.432203	Cylindrical roller
NU218	6.42	8.58	3.40022	0.428	Cylindrical roller
NU219	6.85283	9.14717	3.41514	0.428302	Cylindrical roller
NU220	6.85714	9.14286	3.42857	0.428571	Cylindrical roller
NU2202	3.97119	6.02881	2.32712	0.397119	Cylindrical roller
NU221	6.86333	9.13667	3.448	0.428958	Cylindrical roller
NU222	6.39068	8.60933	3.30648	0.426045	Cylindrical roller
NU224	6.85373	9.14627	3.41794	0.428358	Cylindrical roller
NU225	7.8	10.2	3.6834	0.4332	Cylindrical roller
NU226	7.36667	9.63333	3.68333	0.433333	Cylindrical roller
NU228	7.36667	9.63333	3.68333	0.433333	Cylindrical roller
NU230	7.8	10.2	3.68333	0.433333	Cylindrical roller
NU232	7.8	10.2	3.68333	0.433333	Cylindrical roller
NU234	7.8	10.2	3.68333	0.433333	Cylindrical roller
NU236	8.284	10.716	3.84225	0.436	Cylindrical roller
NU238	8.28113	10.7189	3.83291	0.435849	Cylindrical roller
NU240	8.27857	10.7214	3.8246	0.435714	Cylindrical roller
NU244	8.27419	10.7258	3.81048	0.435484	Cylindrical roller
NU248	8.24265	3.7116	10.7573	0.433824	Cylindrical roller
NU252	8.21622	10.7838	3.63243	0.432432	Cylindrical roller
NU302	3.05454	4.94546	1.9972	0.381818	Cylindrical roller
NU303	3.51562	5.48438	2.17634	0.390625	Cylindrical roller
NU304	3.52703	5.47297	2.20439	0.391892	Cylindrical roller
NU308	4.90076	7.09924	2.63756	0.408397	Cylindrical roller
NU310	4.875	7.125	2.57292	0.40625	Cylindrical roller
NU311	4.43143	6.56857	2.47639	0.402857	Cylindrical roller
NU312	4.86316	7.13684	2.54415	0.405263	Cylindrical roller
NU313	4.8878	7.1122	2.60469	0.407317	Cylindrical roller
NU314	4.90909	7.09091	2.65909	0.409091	Cylindrical roller
NU315	4.8766	7.1234	2.57684	0.406383	Cylindrical roller
NU316	5.356	7.644	2.75291	0.412	Cylindrical roller
NU317	4.90909	7.09091	2.65909	0.409091	Cylindrical roller
NU318	5.33929	7.66071	2.71072	0.410714	Cylindrical roller
NU319	5.35424	7.64576	2.7484	0.411864	Cylindrical roller
NU320	5.34444	7.65556	2.72361	0.411111	Cylindrical roller
NU321	5.31818	7.68182	2.65909	0.409091	Cylindrical roller
NU322	5.31143	7.68857	2.64295	0.408571	Cylindrical roller
NU324	4.86316	7.13684	2.54415	0.405263	Cylindrical roller
NU326	5.70244	8.29756	2.60469	0.407317	Cylindrical roller
NU328	5.72727	8.27273	2.65909	0.409091	Cylindrical roller
NU330	5.74894	8.25106	2.70826	0.410638	Cylindrical roller
NU332	6.24	8.76	2.89219	0.416	Cylindrical roller
NU334	6.22642	8.77359	2.85954	0.415094	Cylindrical roller
NU336	6.21429	8.78571	2.83095	0.414286	Cylindrical roller

NU338	6.22881	8.77119	2.86525	0.415254	Cylindrical roller
NU340	6.29032	8.70968	3.01936	0.419355	Cylindrical roller
NU344	6.26471	8.73529	2.95336	0.417647	Cylindrical roller
NU348	6.7027	9.2973	3.00225	0.418919	Cylindrical roller
NU352	6.72	9.28	3.045	0.42	Cylindrical roller
NU405	3.43701	5.56299	1.99856	0.38189	Cylindrical roller
NU406	3.4322	5.5678	1.9885	0.381356	Cylindrical roller
NU407	3.89706	6.10294	2.15637	0.389706	Cylindrical roller
NU408	3.86667	6.13333	2.09255	0.386667	Cylindrical roller
NU409	3.90909	6.09091	2.18258	0.390909	Cylindrical roller
NU410	3.89868	6.10132	2.15987	0.389868	Cylindrical roller
NU411	4.36831	6.63169	2.32712	0.397119	Cylindrical roller
NU412	4.34762	6.65238	2.2816	0.395238	Cylindrical roller
NU413	4.37355	6.62645	2.3389	0.397596	Cylindrical roller
NU414	4.36508	6.63492	2.3199	0.396825	Cylindrical roller
NU415	4.33774	6.66226	2.26041	0.39434	Cylindrical roller
NU416	4.32143	6.67857	2.22619	0.392857	Cylindrical roller
NU417	4.28621	6.71379	2.15528	0.389655	Cylindrical roller
NU418	4.3127	6.6873	2.20824	0.392063	Cylindrical roller
NU419	4.78209	7.21791	2.36174	0.398507	Cylindrical roller
NU420	4.76571	7.23429	2.3277	0.397143	Cylindrical roller
NU421	4.75069	7.24931	2.29721	0.39589	Cylindrical roller
NU422	4.76923	7.23077	2.33494	0.397436	Cylindrical roller
NU424	4.74419	7.25581	2.28424	0.395349	Cylindrical roller
NU426	4.7234	7.2766	2.24362	0.393617	Cylindrical roller
NU428	4.752	7.248	2.29985	0.396	Cylindrical roller
NU430	5.22453	7.77547	2.44996	0.401887	Cylindrical roller
NU432	5.24643	7.75357	2.49616	0.40357	Cylindrical roller
NU434	5.2661	7.7339	2.53901	0.405085	Cylindrical roller
NU436	5.24193	7.75807	2.48656	0.403226	Cylindrical roller
NU438	5.70769	8.29231	2.61602	0.407692	Cylindrical roller
NU440	5.68235	8.31765	2.56213	0.405882	Cylindrical roller
NU444	5.2171	7.7829	2.43465	0.401316	Cylindrical roller
NU448	5.23171	7.76829	2.46494	0.402439	Cylindrical roller
QJ1008	7.91599	10.084	3.35117	0.439777	Four-point contact ball
QJ1012	8.90921	11.0908	3.71017	0.44546	Four-point contact ball
QJ1016	8.92991	11.0701	3.78365	0.446495	Four-point contact ball
QJ1022	9.37817	11.6218	3.78976	0.44658	Four-point contact ball
QJ1030	10.3831	12.6169	4.1775	0.451441	Four-point contact ball
QJ1034	9.42026	11.5797	3.94084	0.448584	Four-point contact ball
QJ1036	9.37213	11.6279	3.769	0.446292	Four-point contact ball
QJ1038	9.41913	11.5809	3.93662	0.44853	Four-point contact ball
QJ1040	9.37545	11.6245	3.78037	0.44645	Four-point contact ball
QJ1056	10.389	12.611	4.19977	0.451693	Four-point contact ball
QJ1068	9.86885	12.1312	3.94084	0.448584	Four-point contact ball
QJ1244	6.08749	7.91251	2.66607	0.434821	Four-point contact ball
QJ1248	6.71495	8.28504	3.3407	0.447664	Four-point contact ball

QJ1252	7.02916	8.97084	2.87048	0.439323	Four-point contact ball
QJ1264	7.52458	9.47542	3.04035	0.442622	Four-point contact ball
QJ1268	7.02714	8.97286	2.86433	0.439196	Four-point contact ball
QJ1272	7.51751	9.48249	3.01789	0.442206	Four-point contact ball
QJ205	5.41626	7.58374	2.38825	0.416636	Four-point contact ball
QJ206	5.39748	7.60252	2.34523	0.415191	Four-point contact ball
QJ207	5.3943	7.6057	2.33807	0.414946	Four-point contact ball
QJ208	5.44309	7.55691	2.45229	0.418699	Four-point contact ball
QJ209	5.45968	7.54032	2.4935	0.419975	Four-point contact ball
QJ210	5.95968	8.04032	2.69503	0.425691	Four-point contact ball
QJ211	6.36719	8.63281	2.64982	0.424479	Four-point contact ball
QJ212	5.92874	8.07126	2.61364	0.423482	Four-point contact ball
QJ213	6.39282	8.60718	2.71398	0.426188	Four-point contact ball
QJ214	6.39982	8.60018	2.73201	0.426654	Four-point contact ball
QJ215	6.88372	9.11628	2.87813	0.430232	Four-point contact ball
QJ216	6.8651	9.1349	2.82904	0.429069	Four-point contact ball
QJ217	6.89817	9.10183	2.9173	0.431136	Four-point contact ball
QJ218	6.40791	8.59209	2.75314	0.427194	Four-point contact ball
QJ219	6.396	8.604	2.72216	0.4264	Four-point contact ball
QJ220	6.38537	8.61463	2.69503	0.425691	Four-point contact ball
QJ221	6.3754	8.6246	2.67007	0.425027	Four-point contact ball
QJ222	6.36759	8.63241	2.65079	0.424506	Four-point contact ball
QJ224	6.39378	8.60622	2.71645	0.426252	Four-point contact ball
QJ226	6.90197	9.09803	2.92787	0.431373	Four-point contact ball
QJ228	7.36631	9.63369	3.01624	0.433313	Four-point contact ball
QJ23	8.3674	10.6326	3.38661	0.44039	Four-point contact ball
QJ230	7.88537	10.1146	3.25636	0.438076	Four-point contact ball
QJ232	7.85548	10.1445	3.16864	0.436416	Four-point contact ball
QJ234	8.3674	10.6326	3.38661	0.44039	Four-point contact ball
QJ236	7.87645	10.1236	3.22971	0.437581	Four-point contact ball
QJ248	7.89848	10.1015	3.29633	0.438805	Four-point contact ball
QJ303	3.49425	5.50575	1.74101	0.38825	Four-point contact ball
QJ304	3.91633	6.08367	1.80099	0.391633	Four-point contact ball
QJ305	3.95393	6.04607	1.87201	0.395393	Four-point contact ball
QJ306	4.44446	6.55554	2.05554	0.404042	Four-point contact ball
QJ307	4.44301	6.55699	2.0525	0.40391	Four-point contact ball
QJ308	4.45476	6.54524	2.07733	0.404978	Four-point contact ball
QJ309	4.41499	6.58501	1.99538	0.401363	Four-point contact ball
QJ310	4.42717	6.57283	2.01985	0.40247	Four-point contact ball
QJ311	4.43726	6.56274	2.04053	0.403387	Four-point contact ball
QJ312	4.44623	6.55377	2.05924	0.404202	Four-point contact ball
QJ313	4.45344	6.54656	2.07452	0.404858	Four-point contact ball
QJ314	4.45968	6.54032	2.08788	0.405425	Four-point contact ball
QJ315	4.46512	6.53488	2.09967	0.40592	Four-point contact ball
QJ316	4.47026	6.52974	2.11093	0.406387	Four-point contact ball
QJ317	4.47448	6.52552	2.12025	0.406771	Four-point contact ball
QJ318	4.88537	7.11463	2.12864	0.407114	Four-point contact ball

QJ319	4.88906	7.11094	2.13622	0.407422	Four-point contact ball
QJ320	4.45562	6.54438	2.07917	0.405056	Four-point contact ball
QJ321	4.45968	6.5403	2.08788	0.405425	Four-point contact ball
QJ322	4.43751	6.56249	2.04106	0.40341	Four-point contact ball
QJ324	4.93217	7.06783	2.22846	0.411014	Four-point contact ball
QJ326	4.9343	7.0657	2.23322	0.411192	Four-point contact ball
QJ328	4.93592	7.06408	2.23683	0.411327	Four-point contact ball
QJ330	5.42083	7.57917	2.39893	0.416987	Four-point contact ball
QJ334	5.38367	7.61633	2.31447	0.414128	Four-point contact ball
QJ336	5.41323	7.58677	2.38122	0.416403	Four-point contact ball
QJ344	5.92908	8.07092	2.61451	0.423506	Four-point contact ball

6008	5.1258	6.8742	3.36003	0.42717
6009	5.5698	7.4304	3.42173	0.42843
6010	6.0738	7.926	3.71349	0.43386
6011	5.5746	7.425	3.44177	0.42883
6012	6.0678	7.932	3.68863	0.43343
6013	6.5622	8.4378	3.93494	0.43746
6014	6.0738	7.926	3.71346	0.43386
6015	6.5598	8.4402	3.92692	0.43734
6016	6.0786	7.9218	3.73216	0.43418
6017	6.5586	8.4414	3.92049	0.43724
6018	6.0822	7.9182	3.74717	0.43443
6019	6.5688	8.4312	3.96619	0.43794
6020	6.5952	8.4048	4.08396	0.43968
6021	6.5706	8.4294	3.97247	0.43803
6022	5.6154	7.3842	3.60651	0.43196
6024	6.111	7.8888	3.87351	0.4365
6026	6.5622	8.4378	3.93494	0.4374
6028	7.0566	8.9436	4.18079	0.44103
6030	7.0518	8.9484	4.15895	0.44073
6208	3.6072	5.3928	2.42052	0.40078
6209	4.0842	5.916	2.63813	0.40842
6210	4.0926	5.907	2.66519	0.40929
6211	4.0782	5.922	2.61988	0.40782
6212	4.0824	5.9178	2.63264	0.40824
6213	4.0992	5.901	2.68451	0.4099
6214	4.1046	5.8956	2.70223	0.41045
6215	4.572	6.4278	2.87922	0.41564
6216	4.134	5.8662	2.80055	0.41341
6217	4.122	5.8782	2.75887	0.41218
6218	4.1112	5.889	2.72325	0.4111
6219	4.1016	5.8986	2.69235	0.41014
6220	4.0962	5.904	2.67536	0.40961
6221	4.0854	5.9148	2.64121	0.40852
6222	4.0782	5.922	2.61998	0.40782
6224	4.1022	5.8974	2.69519	0.41023
6226	4.1178	5.8818	2.74645	0.41181
6228	4.1856	5.814	2.98946	0.41859
6230	4.6686	6.3318	3.23149	0.4244
6232	5.1534	6.8466	3.47275	0.42944
6234	5.127	6.873	3.36317	0.42724
6236	4.662	6.3384	3.20464	0.4238
6238	4.6434	6.3564	3.1323	0.42212
6240	5.1156	6.8844	3.31818	0.42629
6244	4.6548	6.345	3.17778	0.42319
6308	3.072	4.9278	2.03902	0.38399
6309	3.0624	4.9374	2.01661	0.38284
6310	3.0708	4.929	2.03607	0.38384

6311	3.0564	4.9434	2.00195	0.38207
6312	3.0642	4.9356	2.02026	0.38303
6313	3.0708	4.929	2.03612	0.38384
6314	3.0762	4.9236	2.0499	0.38455
6315	3.081	4.9188	2.06205	0.38516
6316	3.0858	4.9146	2.07293	0.3857
6317	3.0894	4.9104	2.08265	0.38618
6318	3.093	4.907	2.09133	0.38661
6319	3.096	4.9038	2.09918	0.38699
6320	3.0816	4.9188	2.06255	0.38518
6321	3.0762	4.9236	2.0499	0.38455
6322	3.0672	4.9326	2.02756	0.3834
6324	3.13	4.869	2.19302	0.39138
6326	3.1326	4.8672	2.19755	0.39159
6328	3.1338	4.866	2.20147	0.39176
6330	3.588	5.412	2.36586	0.39867
6332	3.1872	4.8126	2.35903	0.3984
6408	2.5494	4.4502	1.70549	0.36422
6409	2.5626	4.437	1.73338	0.36611
6410	2.574	4.4262	1.75751	0.36771
6411	2.541	4.4592	1.68789	0.36301
6412	2.5476	4.4526	1.7012	0.36393
6413	2.5656	4.434	1.73976	0.36654
6414	2.5488	4.4514	1.70376	0.3641
6415	2.5536	4.446	1.71348	0.36477
6416	2.5608	4.4388	1.72936	0.36584
6417	2.5962	4.404	1.80654	0.37085
6418	2.583	4.4172	1.7769	0.36897
7208	5.5116	7.488	2.4613	0.42399
7209	5.5272	7.473	2.50152	0.42516
7210	6.027	7.9728	2.70247	0.4305
7211	6.0114	7.9884	2.65772	0.42938
7212	5.9982	8.0016	2.62214	0.42846
7213	6.4644	8.5356	2.72152	0.43097
7214	6.471	8.529	2.73899	0.4314
7215	6.9558	9.0444	2.88472	0.43474
7216	6.5052	8.4948	2.83611	0.43366
7217	6.4908	8.5092	2.79493	0.43272
7218	6.4782	8.5218	2.75977	0.43189
7219	6.036	7.9638	2.7293	0.43116
7220	6.027	7.9728	2.70249	0.4305
7221	6.0186	7.9812	2.6787	0.4299
7222	6.0114	7.9884	2.65787	0.42938
7224	6.4656	8.5344	2.72367	0.43102
7226	6.9732	9.027	2.93472	0.43582
7228	6.9522	9.048	2.87423	0.43451
7230	6.9342	9.0654	2.8245	0.4334

7308	4.5222	6.4776	2.08678	0.41113
7309	4.485	6.5148	2.00509	0.40774
7310	4.4964	6.5034	2.02971	0.40879
7311	4.506	6.4938	2.05054	0.40965
7312	4.5144	6.486	2.06847	0.41039
7313	4.521	6.4788	2.08398	0.41101
7314	4.527	6.4728	2.09748	0.41155
7315	4.5324	6.468	2.10937	0.41202
7316	4.5366	6.4632	2.12003	0.41244
7317	4.5408	6.459	2.12954	0.4128
7318	4.5444	6.4554	2.13804	0.41313
7319	4.5474	6.453	2.14462	0.41338
7320	4.9344	7.0656	2.08869	0.4112
7321	4.5264	6.4734	2.09626	0.4115
7322	4.9992	7.0008	2.23252	0.4166
7324	5.0016	6.9984	2.23776	0.41679
7326	5.0034	6.9966	2.2422	0.41694
7328	5.0052	6.9948	2.24605	0.41708
7330	5.4906	7.509	2.40758	0.42237
21308	6.207	8.793	2.77104	0.41379
21309	5.7108	8.289	2.58326	0.40793
21312	7.2282	9.7716	3.22371	0.42519
21313	7.2288	9.771	3.22571	0.42523
21314	6.7368	9.2634	3.0511	0.42105
21315	6.744	9.2562	3.06886	0.42149
21316	6.7236	9.276	3.01883	0.42023
21317	7.197	9.8028	3.14889	0.42336
21318	7.2102	9.7896	3.18283	0.42414
21319	8.204	10.7892	3.55067	0.43182
21320	8.7168	11.2836	3.78431	0.43583
22208	6.1164	8.8836	2.57091	0.40777
22209	7.2312	9.7686	3.22053	0.42537
22210	7.2516	9.7482	3.28644	0.42657
22211	7.698	10.302	3.34253	0.42767
22212	7.7142	10.2858	3.38478	0.42857
22213	7.728	10.272	3.41948	0.42932
22214	8.1702	10.83	3.46068	0.43
22215	8.7204	11.2794	3.80284	0.43602
22216	8.2278	10.7724	3.63069	0.43304
22217	8.199	10.8006	3.54369	0.43154
22218	8.2062	10.794	3.5606	0.43191
22219	8.1726	10.827	3.46825	0.43015
22220	8.1804	10.8192	3.48709	0.43056
22222	8.1642	10.836	3.44073	0.42969
22224	8.1744	10.8258	3.46705	0.43023
22226	8.2008	10.7988	3.53754	0.43164
22228	8.1972	10.803	3.52782	0.43142

22230	8.1804	10.8192	3.47869	0.43056
22232	7.6812	10.3188	3.28777	0.42672
22234	8.1978	10.8024	3.52414	0.43145
22236	8.196	10.8042	3.52348	0.43137
22238	8.2032	10.797	3.53929	0.43173
22240	8.199	10.8006	3.529	0.43154
22244	8.1726	10.8276	3.45188	0.43014
22248	7.7142	10.2858	3.37296	0.42857
22252	7.701	10.299	3.3382	0.42782
22256	8.1972	10.803	3.52696	0.43142
22260	8.2056	10.7946	3.5511	0.43187
22264	8.214	10.7862	3.56536	0.43232
22308	5.1972	7.803	2.31977	0.39978
22309	5.718	8.2818	2.56412	0.40844
22310	5.6544	8.3454	2.43051	0.40388
22311	5.6982	8.3016	2.52232	0.40702
22312	5.6904	8.3094	2.5098	0.40647
22313	5.751	8.2488	2.64317	0.4108
22314	5.7468	8.253	2.63406	0.41048
22315	5.7402	8.2602	2.61877	0.41
22316	5.7348	8.2656	2.607	0.40962
22317	5.7366	8.2638	2.61453	0.40975
22318	5.6838	8.316	2.50489	0.406
22319	6.1848	8.8152	2.69137	0.41233
22320	6.2058	8.7942	2.73686	0.41371
22322	6.1992	8.8008	2.7229	0.41329
22324	6.1812	8.8188	2.68431	0.41206
22326	6.2094	8.7906	2.74524	0.41395
22328	5.643	8.3568	2.41702	0.40307
22330	6.207	8.793	2.73982	0.41379
22332	6.2118	8.7882	2.75096	0.41412
22334	5.6664	8.3334	2.46492	0.40476
22336	5.6676	8.3322	2.46886	0.40484
22338	5.6874	8.3124	2.50864	0.40625
22340	6.7158	9.2838	2.95932	0.41975
22344	6.195	8.805	2.7218	0.41301
22348	6.2274	8.7726	2.79877	0.41514
22352	6.2022	8.7978	2.74196	0.41346
22356	6.2082	8.7918	2.75661	0.41387
23022	11.1888	13.8114	4.65618	0.44755
23024	12.1764	14.8236	4.9955	0.45098
23026	11.202	13.7982	4.70587	0.44807
23028	12.1764	14.8236	4.9955	0.45098
23030	12.1956	14.8044	5.07323	0.4517
23032	12.2064	14.7936	5.11325	0.45209
23034	11.2242	13.7754	4.74737	0.44898
23036	10.7124	13.2876	4.54964	0.44635

23038	11.2242	13.7754	4.78817	0.44898
23040	11.6874	14.3124	4.83512	0.44952
23044	11.2278	13.7718	4.79968	0.44912
23048	11.7216	14.2788	4.96986	0.45082
23052	10.7424	13.2576	4.65655	0.4476
23056	12.1938	14.8062	5.05291	0.45161
23060	11.6964	14.3034	4.874	0.44987
23064	12.2094	14.7906	5.11916	0.45221
23076	14.1978	16.8024	5.84067	0.45798
23080	14.2188	16.7814	5.93298	0.45867
23120	9.2214	11.7786	3.96859	0.43911
23122	10.6758	13.3242	4.39658	0.44482
23124	9.2196	11.7804	3.96704	0.43902
23126	10.215	12.7854	4.3445	0.44413
23128	10.1742	12.8256	4.2033	0.44236
23130	9.2544	11.7456	4.07394	0.44068
23132	9.2172	11.7828	3.95057	0.43891
23134	9.6666	12.3336	3.98397	0.43939
23136	10.2378	12.762	4.39943	0.44513
23138	10.7178	13.2822	4.5183	0.44657
23140	10.23	12.766	4.3797	0.4449
23144	10.693	13.306	4.432	0.44555
23148	10.7034	13.2966	4.47122	0.4459
23152	10.2156	12.7842	4.31571	0.44416
23156	10.7652	13.2348	4.70096	0.44856
23160	10.7286	13.2714	4.55959	0.44702
23164	10.6974	13.3026	4.44375	0.44572
23168	10.233	12.7668	4.37619	0.44492
23172	10.7154	13.284	4.5162	0.44647
23176	9.711	12.2892	4.12602	0.44141
23180	9.7326	12.2676	4.20243	0.44238
23184	10.6992	13.3008	4.45393	0.44581
23218	8.2062	10.794	3.52568	0.43191
23220	7.7586	10.2414	3.47833	0.43103
23222	7.7622	10.2372	3.47941	0.43125
23224	8.2056	10.758	3.505	0.43188
23226	8.7096	11.2902	3.71282	0.43548
23228	8.2032	10.7964	3.50088	0.43176
23230	8.2116	10.7886	3.52108	0.43218
23232	8.2128	10.7868	3.53106	0.43226
23234	7.7664	10.2336	3.48912	0.43145
23236	8.2164	10.7838	3.54633	0.43243
23238	8.2122	10.7874	3.5286	0.43223
23240	8.2128	10.7874	3.53164	0.43225
23244	8.2788	10.7208	3.70979	0.43574
23248	7.7106	10.2894	3.31931	0.42837
23252	7.2828	9.7176	3.32012	0.42839

23256	8.319	10.6812	3.84095	0.43783
23260	8.3346	10.6656	3.89344	0.43866
23264	8.2128	10.7868	3.52263	0.43226
23268	8.2524	10.7472	3.62298	0.43435
23272	8.253	10.7472	3.62971	0.43436
23276	7.7682	10.2318	3.49066	0.43157
23280	7.7544	10.2456	3.44779	0.4308
23936	17.7336	20.2668	7.40712	0.46667
23938	18.7254	21.2748	7.7554	0.46813
23940	16.7406	19.2588	7.05084	0.46503
23944	18.2394	20.7606	7.64692	0.46768
23948	20.2086	22.7916	8.24174	0.46997
23952	17.7252	20.2746	7.35908	0.46646
23956	19.6758	22.3242	7.84137	0.46847
23960	18.186	20.814	7.3213	0.4663
23964	18.7224	21.2778	7.73489	0.46806
23968	19.728	22.272	8.1687	0.46972
23972	21.1986	23.8014	8.56003	0.47108
23976	18.7194	21.2802	7.71897	0.46799
23980	20.1876	22.8126	8.10255	0.46947
23984	21.1794	23.8206	8.43386	0.47065
23988	18.7248	21.2748	7.7563	0.46813
23992	19.239	21.7614	8.04423	0.46924
23996	19.2432	21.7566	8.07093	0.46935
24024	11.2746	13.7256	4.9406	0.45098
24026	10.7538	13.2462	4.66256	0.44807
24028	11.2746	13.7256	4.94364	0.45098
24030	11.7444	14.256	5.02144	0.4517
24032	11.2806	13.7196	4.96834	0.45122
24036	10.26	12.7398	4.4747	0.44609
24038	11.2524	13.7472	4.85636	0.4501
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24044	11.2806	13.7196	4.94934	0.45122
24048	11.7486	14.2512	5.04643	0.45188
24052	10.7538	13.2462	4.65684	0.44807
24056	11.7456	14.2548	5.02986	0.45175
24060	10.7802	13.2198	4.75757	0.44916
24064	11.7432	14.2572	5.0197	0.45165
24068	11.7678	14.2326	5.09996	0.4526
24072	11.7462	14.2536	5.02492	0.45179
24076	12.2472	14.7528	5.2431	0.4536
24080	11.2746	13.7256	4.94958	0.45098
24122	9.2706	11.7288	4.08478	0.44147
24124	8.7954	11.205	3.96245	0.43976
24126	9.7776	12.22	4.3276	0.44444
24128	9.7644	12.2352	4.28211	0.44385
24130	9.2316	11.7684	3.95262	0.43961

24132	8.7642	11.2362	3.85677	0.4382
24134	9.258	11.742	4.04137	0.44086
24136	8.7678	11.2326	3.87707	0.43838
24138	9.2622	11.7372	4.03682	0.44107
24140	8.2638	10.7364	3.65292	0.43494
24144	8.7726	11.2272	3.88417	0.43862
24148	8.727	11.272	3.74876	0.43636
24152	8.7606	11.2398	3.84485	0.43802
N208	5.4168	7.5834	2.91667	0.41667
N209	5.9232	8.0772	3.17308	0.42308
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N211	6.4356	8.5644	3.45176	0.42903
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N214	6.9336	9.0666	3.68333	0.43333
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N219	6.4248	8.5752	3.41514	0.4283
N220	6.8574	9.1428	3.42857	0.42857
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N226	6.9336	9.0666	3.68333	0.43333
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N308	4.9008	7.0992	2.63756	0.4084
N309	4.4382	6.5622	2.49273	0.40345
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N312	4.863	7.137	2.54415	0.40526
N314	5.3184	7.6818	2.65909	0.40909
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N316	5.3562	7.644	2.75291	0.412
N318	5.3394	7.6608	2.71071	0.41071
N319	5.3544	7.645	2.7484	0.41186
N320	5.3442	7.6554	2.72361	0.41111
N321	4.9092	7.0908	2.65909	0.40909
N322	4.9026	7.0974	2.64295	0.40857
N324	4.863	7.137	2.54415	0.40526
N326	4.8876	7.1124	2.60468	0.40732
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NU208	5.4168	7.5834	2.91667	0.41667
NU209	5.9232	8.0772	3.17308	0.42308
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NU211	6.4356	8.5644	3.45176	0.42903
NU212	6.4476	8.5524	3.49232	0.42982

NU213	6.8766	9.123	3.49134	0.42981
NU214	6.9336	9.0666	3.68333	0.43333
NU215	6.9072	9.0924	3.59242	0.43171
NU216	6.912	9.0882	3.60867	0.432
NU217	6.9132	9.0864	3.61334	0.43209
NU218	6.8478	9.1518	3.40022	0.428
NU219	6.4248	8.5752	3.41514	0.4283
NU220	6.8574	9.1428	3.42857	0.42857
NU222	6.3906	8.6094	3.30648	0.42604
NU224	6.4254	8.5746	3.41794	0.42836
NU226	6.9336	9.0666	3.68333	0.43333
NU228	6.9336	9.0666	3.68333	0.43333
NU230	6.9336	9.0666	3.68333	0.43333
NU308	4.9008	7.0992	2.63756	0.4084
NU309	4.4382	6.5622	2.49273	0.40345
NU310	4.875	7.125	2.57292	0.40625
NU311	4.8342	7.1658	2.47638	0.40286
NU312	4.863	7.137	2.54415	0.40526
NU314	5.3184	7.6818	2.65909	0.40909
NU315	4.8768	7.1232	2.57684	0.40638
NU316	5.3562	7.644	2.75291	0.412
NU318	5.3394	7.6608	2.71071	0.41071
NU319	5.3544	7.645	2.7484	0.41186
NU320	5.3442	7.6554	2.72361	0.41111
NU321	4.9092	7.0908	2.65909	0.40909
NU322	4.9026	7.0974	2.64295	0.40857
NU324	4.863	7.137	2.54415	0.40526
NU326	4.8876	7.1124	2.60468	0.40732
NU328	4.9092	7.0908	2.65909	0.40909

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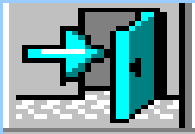
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FAG

NSK

차수비계산



1. 베어링 번호를 입력하고

7312

2. 회전수(RPM)를 입력후 ENTER

3580

BPFO

4.9248

BPFI

7.0752

BEARING TYPE Angular contact ball

INNER RACE 편심, 마모 $N * F_0$ 59.67

INNER RACE SPOT 흠 $N * Z * F_i$ 422.15

$N * Z * F_{i+F}$ 481.82

$N * Z * F_{i-F}$ 362.49

$N * Z * F_{i+F}$ 458.98

$N * Z * F_{i-F}$ 385.33

OUTER RACE SPOT 흠 $N * Z * F_c$ 293.85

BALL, ROLLER SPOT 흠 $N * F_b$ 123.44

$N * F_{b+F_c}$ 160.26

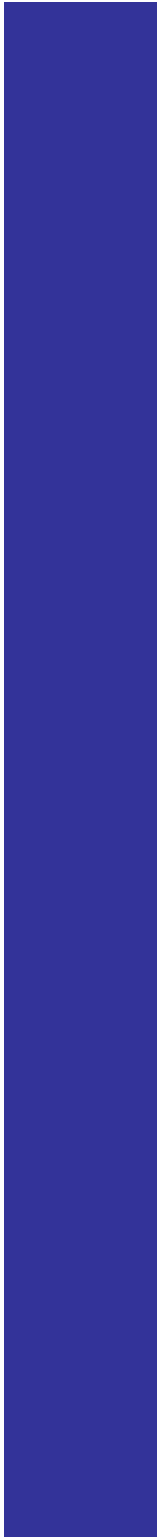
$N * F_{b-F_c}$ 86.62

CAGE 주파수 $FTF * F_0$ 24.49

수비

BSF 2.0688 FTF 0.4104

119.33	179.00	238.67	298.33
844.31	#####	#####	#####
903.97	#####	#####	#####
784.64	#####	#####	#####
881.13	#####	#####	#####
807.48	#####	#####	#####
587.69	881.54	#####	#####
246.88	370.32	493.75	617.19
283.61	407.05	530.48	653.92
210.15	333.58	457.02	580.46
48.97	73.46	97.95	122.44



FAG 베어링 차

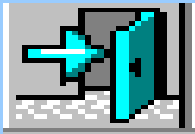
베어링차수비 분석SYSTEM
베어링차수비 분석SYSTEM
베어링차수비 분석SYSTEM

SKF

FAG

NSK

차수비계산



1. 베어링 번호를 입력하고

2. 회전수(RPM)를 입력후 ENTER

BPFO BPFI

BEARING TYPE

INNER RACE 편심, 마모 $N * F_0$ 59.67

INNER RACE SPOT 흠 $N * Z * F_i$ 422.44

$N * Z * F_{i+F}$ 482.11

$N * Z * F_{i-F}$ 362.77

$N * Z * F_{i+F}$ 459.23

$N * Z * F_{i-F}$ 385.65

OUTER RACE SPOT 흠 $N * Z * F_c$ 293.56

BALL, ROLLER SPOT 흠 $N * F_b$ 123.51

$N * F_b + F_c$ 160.30

$N * F_b - F_c$ 86.72

CAGE 주파수 $FTF * F_0$ 24.46

수비

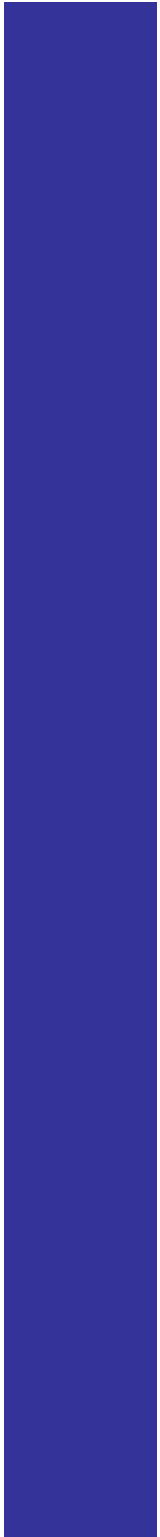
BSF

2.07

FTF

0.41

119.33	179.00	238.67	298.33
844.88	#####	#####	#####
904.55	#####	#####	#####
785.21	#####	#####	#####
881.67	#####	#####	#####
808.09	#####	#####	#####
587.12	880.68	#####	#####
247.02	370.53	494.04	617.55
283.72	407.23	530.74	654.25
210.33	333.84	457.35	580.86
48.93	73.39	97.85	122.32



NSK 베어링 차

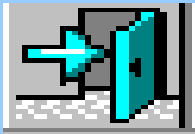
베어링차수비 분석SYSTEM
베어링차수비 분석SYSTEM
베어링차수비 분석SYSTEM

SKF

FAG

NSK

차수비계산



1. 베어링 번호를 입력하고

nu22216

2. 회전수(RPM)를 입력후 ENTER

1760

BPFO

6.3906

BPFI

8.6094

BEARING TYPE

INNER RACE 편심, 마모	$N * F_0$	29.3
INNER RACE SPOT 흠	$N * Z * F_i$	252.5
	$N * Z * F_{i+F}$	281.9
	$N * Z * F_{i-F}$	223.2
	$N * Z * F_{i+F}$	276.0
	$N * Z * F_{i-F}$	229.1
OUTER RACE SPOT 흠	$N * Z * F_c$	187.5
BALL, ROLLER SPOT 흠	$N * F_b$	97.0
	$N * F_b + F_c$	120.5
	$N * F_b - F_c$	73.5
CAGE 주파수	$FTF * F_0$	12.5

수비

BSF

3.30648

FTF

0.42604

58.7	88.0	117.3	146.7
505.1	757.6	757.6	1262.7
534.4	787.0	1039.5	1292.0
475.8	728.3	980.8	1233.4
528.6	781.1	1033.7	1286.2
481.6	734.1	986.7	1239.2
374.9	562.4	749.8	937.3
194.0	291.0	388.0	485.0
217.4	314.4	411.4	508.4
170.5	267.5	364.5	461.5
25.0	37.5	50.0	62.5



베어링 차수비계산

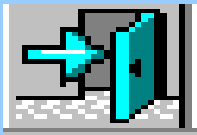
베어링차수비 분석SYSTEM
 베어링차수비 분석SYSTEM
 베어링차수비 분석SYSTEM

SKF

FAG

NSK

차수비계산



베어링 번호

회전수

볼 수량

볼 직경

베어링 피치

접촉각



케

INNER RACE 편심,마모	30.0	60.0
INNER RACE SPOT흄	322.5	645.0
OUTER RACE SPOT흄	600.0	1200.0
BALL,ROLLER SPOT흄	198.9	397.8
CAGE주파수	13.9	27.8

산

외륜주파수	9.250
내륜주파수	10.750
볼 주파수	6.629
이지주파수	0.463

90.0	240.0	300.0
967.5	1290.0	#####
1800.0	2400.0	#####
596.6	795.5	994.4
41.6	55.5	69.4