

Cylindrical roller bearings, double row

Dimensions						Basic radial load		Speed limit		Designation	Weight
d	D	B	r _s	E,F	n _s	dyn. C _r	stat. C _{0r}	grease	oil		
mm	mm	mm	mm	mm	mm	KN	KN	min ⁻¹	min ⁻¹	-	Kg
30	55	19	1	48.5	4.5	29	38	11000	14000	NN3006KMP41	0.192
	55	19	1	48.5	4.5	29	38	11000	14000	NN3006KMP51	0.192
35	62	20	1	55	4.5	36.5	47	10000	12000	NN3007KMP41	0.246
	62	20	1	55	4.5	36.5	47	10000	12000	NN3007KMP51	0.246
40	68	21	1	61	4.5	42.5	58	9000	11000	NN3008KMP41	0.298
	68	21	1	61	4.5	42.5	58	9000	11000	NN3008KMP51	0.298
45	75	23	1	67.5	4.5	48.5	70	8000	9500	NN3009KMP41	0.382
	75	23	1	67.5	4.5	48.5	70	8000	9500	NN3009KMP51	0.382
50	80	23	1	72.5	4.5	51.5	80	7500	9000	NN3010KMP41	0.415
	80	23	1	72.5	4.5	51.5	80	7500	9000	NN3010KMP51	0.415
55	90	26	1.1	81	4.5	69	100	6700	8000	NN3011KMP41	0.618
	90	26	1.1	81	4.5	69	100	6700	8000	NN3011KMP51	0.618
	90	26	1.1	81	4.5	69	100	6700	8000	NN3011KTNP41	0.618
	90	26	1.1	81	4.5	69	100	6700	8000	NN3011KTNP51	0.618
60	95	26	1.1	86.1	4.5	72	110	6300	7500	NN3012KMP41	0.664
	95	26	1.1	86.1	4.5	72	110	6300	7500	NN3012KMP51	0.664
	95	26	1.1	86.1	4.5	72	110	6300	7500	NN3012KTNP41	0.664
	95	26	1.1	86.1	4.5	72	110	6300	7500	NN3012KTNP51	0.664
65	100	26	1.1	91	4.5	74	118	6000	7000	NN3013KMP41	0.705
	100	26	1.1	91	4.5	74	118	6000	7000	NN3013KMP51	0.705
	100	26	1.1	91	4.5	74	118	6000	7000	NN3013KTNP41	0.705
	100	26	1.1	91	4.5	74	118	6000	7000	NN3013KTNP51	0.705
70	110	30	1.1	100	6.5	96	151	5300	6300	NN3014KMP41	1.02
	110	30	1.1	100	6.5	96	151	5300	6300	NN3014KMP51	1.02
	110	30	1.1	100	6.5	96	151	5300	6300	NN3014KTNP41	1.02
	110	30	1.1	100	6.5	96	151	5300	6300	NN3014KTNP51	1.02
75	115	30	1.1	105	6.5	96	153	5000	6000	NN3015KMP41	1.08
	115	30	1.1	105	6.5	96	153	5000	6000	NN3015KMP51	1.08
	115	30	1.1	105	6.5	96	153	5000	6000	NN3015KTNP41	1.08
	115	30	1.1	105	6.5	96	153	5000	6000	NN3015KTNP51	1.08
80	125	34	1.1	113	6.5	118	184	4800	5600	NN3016KMP41	1.5
	125	34	1.1	113	6.5	118	184	4800	5600	NN3016KMP51	1.5
	125	34	1.1	113	6.5	118	184	4800	5600	NN3016KTNP41	1.5
	125	34	1.1	113	6.5	118	184	4800	5600	NN3016KTNP51	1.5
85	130	34	1.1	118	6.5	122	200	4500	5300	NN3017KMP41	1.58
	130	34	1.1	118	6.5	122	200	4500	5300	NN3017KMP51	1.58
	130	34	1.1	118	6.5	122	200	4500	5300	NN3017KTNP41	1.58
	130	34	1.1	118	6.5	122	200	4500	5300	NN3017KTNP51	1.58
90	140	37	1.5	127	6.5	141	224	4300	5000	NN3018MP51	2.01
	140	37	1.5	127	6.5	141	224	4300	5000	NN3018TNP51	2.01
	140	37	1.5	127	6.5	141	224	4300	5000	NN3018KMP41	2.01
	140	37	1.5	127	6.5	141	224	4300	5000	NN3018KMP51	2.01
	140	37	1.5	127	6.5	141	224	4300	5000	NN3018KTNP41	2.01
	140	37	1.5	127	6.5	141	224	4300	5000	NN3018KTNP51	2.01
95	145	37	1.5	132	6.5	146	236	4000	4800	NN3019MP51	2.1
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019TNP51	2.1

Dimensions						Basic radial load		Speed limit		Designation	Weight
d	D	B	r _s min.	E,F min.	n _s	dyn. C _r	stat. C _{0r}	grease	oil		
mm	mm	mm	mm	mm	mm	KN	KN	min ⁻¹	min ⁻¹	-	Kg
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019KMP41	2.1
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019KMP51	2.1
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019KMP52	2.1
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019KTNP41	2.1
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019KTNP51	2.1
	145	37	1.5	132	6.5	146	236	4000	4800	NN3019KTNP52	2.1
100	140	40	1.1	113	6.5	125	244	4000	4800	NUU4920MP51	1.87
	140	40	2	113	6.5	125	244	4000	4800	NUU4920KP51NA	1.8
	140	40	1.1	113	6.5	125	244	4000	4800	NUU4920KMP51	1.79
	150	37	1.5	137	6.5	152	264	3800	4500	NN3020MP51	2.21
	150	37	1.5	137	6.5	152	264	3800	4500	NN3020TNP51	2.21
	150	37	1.5	137	6.5	152	264	3800	4500	NN3020KMP41	2.21
	150	37	1.5	137	6.5	152	264	3800	4500	NN3020KMP51	2.21
	150	37	1.5	137	6.5	152	264	3800	4500	NN3020KTNP41	2.21
	150	37	1.5	137	6.5	152	264	3800	4500	NN3020KTNP51	2.21
105	145	40	1.1	118	6.5	118	231	3800	4500	NUU4921MP51	1.9
	145	40	1.1	118	6.5	118	231	3800	4500	NUU4921KP51NA	2
	145	40	1.1	118	6.5	118	231	3800	4500	NUU4921KMP51	1.82
	160	41	2	146	6.5	192	310	3600	4300	NN3021KMP41	2.81
	160	41	2	146	6.5	192	310	3600	4300	NN3021KMP51	2.81
	160	41	2	146	6.5	192	310	3600	4300	NN3021KTNP41	2.81
	160	41	2	146	6.5	192	310	3600	4300	NN3021KTNP51	2.81
110	150	40	1.1	123	6.5	129	264	3800	4500	NUU4922KMP51	1.91
	170	45	2	155	6.5	226	365	3400	4000	NN3022MP41	3.56
	170	45	2	155	6.5	226	365	3400	4000	NN3022TNP41	3.56
	170	45	2	155	6.5	226	365	3400	4000	NN3022KMP41	3.56
	170	45	2	155	6.5	226	365	3400	4000	NN3022KMP51	3.56
	170	45	2	155	6.5	226	365	3400	4000	NN3022KTNP41	3.56
	170	45	2	155	6.5	226	365	3400	4000	NN3022KTNP51	3.56
120	165	45	2	134.5	6.5	170	328	3400	4000	NUU4924KP51NA	2.67
	165	45	1.1	134.5	6.5	170	328	3400	4000	NUU4924KMP51	2.67
	180	46	2	165	6.5	235	405	3200	3800	NN3024MP41	3.87
	180	46	2	165	6.5	235	405	3200	3800	NN3024TNP41	3.87
	180	46	2	165	6.5	235	405	3200	3800	NN3024KMP41	3.87
	180	46	2	165	6.5	235	405	3200	3800	NN3024KMP51	3.87
	180	46	2	165	6.5	235	405	3200	3800	NN3024KTNP41	3.87
	180	46	2	165	6.5	235	405	3200	3800	NN3024KTNP51	3.87
130	180	50	1.5	146	6.5	193	371	3200	3800	NUU4926MP51	3.6
	180	50	1.5	146	6.5	193	371	3200	3800	NUU4926KMP51	3.56
	180	50	1.5	146	6.5	193	371	3200	3800	NUU4926KMP51NA	3.53
	200	52	2	182	9.5	294	510	3000	3600	NN3026MP41	5.76
	200	52	2	182	9.5	294	510	3000	3600	NN3026TNP41	5.76
	200	52	2	182	9.5	294	510	3000	3600	NN3026KMP41	5.76
	200	52	2	182	9.5	294	510	3000	3600	NN3026KMP51	5.76
	200	52	2	182	9.5	294	510	3000	3600	NN3026KTNP41	5.76
	200	52	2	182	9.5	294	510	3000	3600	NN3026KTNP51	5.76
140	190	50	1.5	156	6.5	189	395	3000	3600	NUU4928KMP51	3.79
	190	50	1.5	156	6.5	189	395	3000	3600	NUU4928KMP51NA	4.05

Dimensions						Basic radial load		Speed limit		Designation	Weight
d	D	B	r _s	E,F	n _s	dyn.	stat.	grease	oil		
mm	mm	mm	mm	mm	mm	C _r	C _{0r}	min ⁻¹	min ⁻¹	-	Kg
	210	53	2	192	6.5	305	520	2800	3400	NN3028MP51	6.21
	210	53	2	192	9.5	305	520	2800	3400	NN3028KMP51	6.21
150	210	60	2	168.5		326	645	2600	3200	NNU4930KP51NA	6.46
	210	60	2	168.5	6.5	326	645	2600	3200	NNU4930KMP51	5.95
	225	56	2.1	206	9.5	339	600	2600	3000	NN3030KMP51	7.5
	225	65	2.1	206	9.5	339	600	2600	3000	NN3030MP51	7.5
160	220	60	2	178.5		323	648	2600	3000	NNU4932KMP51NA	6.38
170	230	60	2	188.5	6.5	339	720	2400	2600	NNU4934KMP51	6.61
	260	67	2.1	236	9.5	458	810	2200	2600	NN3034KMP51	12.4
180	250	69	2	202	9.5	380	830	2200	2600	NNU4936KMP51	9.58
	250	69	2	202		409	873	2200	2600	NNU4936KMP51NA	10.1
	280	74	2.1	255	12.2	576	1080	2000	2400	NN3036KMP51	16.3
190	260	69	2	212		412	910	2200	2400	NNU4938KMP51	9.95
	290	75	2.1	265	12.2	610	1150	2000	2400	NN3038KMP51	17.1
200	280	80	2.1	225		485	1028	2000	2400	NNU4940M	14
	280	80	2.1	225		485	1028	2000	2400	NNU4940KMP51	14
	280	80	2.1	225	12.2	485	1028	2000	2200	NNU4940KMP51NA	14
	310	82	2.1	282		715	1271	1900	2200	NN3040M	22
	310	82	2.1	282		715	1271	1900	2200	NN3040KMP51	22
	310	82	2.1	282		715	1271	1900	2200	NN3040KMP51NA	22
220	300	80	2.1	245		700	1692	1900	2200	NNU4944M	15.5
	300	80	2.1	245		700	1692	1900	2200	NNU4944KMP4W33AR	16.2
	300	80	2.1	245	12.2	700	1692	1900	2200	NNU4944KMP51	16.2
	300	80	2.1	245		700	1692	1900	2200	NNU4944KMP51NA	16.2
	340	90	3	310		865	1606	1700	2000	NN3044M	28.5
	340	90	3	310	15	865	1606	1700	2000	NN3044KMP51	28.5
	340	90	3	310		865	1606	1700	2000	NN3044KMP51NA	28.5
240	320	80	2.1	265		530	1255	1700	2000	NNU4948MP51	17.5
	320	80	2.1	265	12.2	530	1255	1700	2000	NNU4948KMP51	17.5
	320	80	2.1	265		530	1255	1700	2000	NNU49484948KMSPW33AR	17.5
	360	92	3	330		835	1688	1600	1900	NN3048MW33	36
	360	92	3	330	15	835	1688	1600	1900	NN3048KMP51	36
	360	92	3	330		835	1688	1600	1900	NN3048KMW33	36
260	360	100	2.1	292		745	1780	1600	1900	NNU4952MC3NA	31
	360	100	2.1	292		745	1780	1600	1900	NNU4952MC3NAW33	31
	360	100	2.1	292		745	1780	1600	1900	NNU4952MP51NAW33	31
	360	100	2.1	292		745	1780	1600	1900	NNU4952MP53NAW33	31
	360	100	2.1	292	15	745	1780	1600	1900	NNU4952KMP51	31
	360	100	2.1	292		745	1780	1600	1900	NNU4952KMP51NAW33	31
	360	100	2.1	292		745	1780	1600	1900	NNU4952KMSPW33AR	31
	360	300	2.1	292		1480	5445	1600	1900	3xNNU4952MC3NA	93
	400	104	4	364		1040	1951	1500	1800	NN3052MP51NA	46
	400	104	4	364	15	1040	1951	1500	1800	NN3052KMP51	46
	400	104	4	364		1040	1951	1500	1800	NN3052KMP51NA	46
280	380	100	2.1	312		780	1884	1500	1800	NNU4956M	32.5
	380	100	2.1	312	15	780	1884	1500	1800	NNU4956KMP51	32.5
	380	100	2.1	312		780	1884	1500	1800	NNU4956KMP51NA	32.5
	420	106	4	384		1110	1985	1400	1700	NN3056MP51NA	49.5

Dimensions						Basic radial load		Speed limit		Designation	Weight
d	D	B	r _s	E,F	n _s	dyn.	stat.	grease	oil		
mm	mm	mm	mm	mm	mm	C _r	C _{0r}	min ⁻¹	min ⁻¹	-	Kg
	420	105	4	384		1110	1985	1400	1700	NN3056KMP41NA	49.5
	420	105	4	384		1110	1985	1400	1700	NN3056KMP42NA	49.5
	420	106	4	384		1110	1985	1400	1700	NN3056KMP4NA	49.5
	420	106	4	384		1110	1985	1400	1700	NN3056KMP4R20..55W33	49.5
	420	105	4	384		1110	1985	1400	1700	NN3056KMP4R30..60NA	49.5
	420	106	4	384	15	1110	1985	1400	1700	NN3056KMP51	49.5
	420	106	4	384		1110	1985	1400	1700	NN3056KMP51NA	49.5
	420	106	4	384		1110	1985	1400	1700	NN3056KMP52NA	49.5
300	420	118	3	339		1075	2410	1300	1600	NNU4960MC3NA	50.5
	420	118	3	339		1075	2410	1300	1600	NNU4960MP51NA	50.5
	420	118	3	339		1075	2410	1300	1600	NNU4960MP52NA	50.5
	420	118	3	339		1075	2410	1300	1600	NNU4960MP53NA	50.5
	420	118	3	339	16.7	1075	2410	1300	1600	NNU4960KMP51	50.5
	420	118	3	339		1075	2410	1300	1600	NNU4960KMP51NA	50.5
	420	236	3	339		1830	4820	1300	1600	2xNNU4960MC3NA	101
	420	354	3	339		2520	7230	1300	1600	3xNNU4960MC3NA	152
	420	472	3	339		3150	9640	1300	1600	4xNNU4960MC3NA	202
	460	118	4	418		1470	2853	1300	1500	NN3060M	69
	460	118	4	418	16.7	1470	2853	1300	1500	NN3060KMP51	69
	460	118	4	418		1470	2853	1300	1500	NN3060KMP51NA	69
320	440	118	3	359		1115	2581	1300	1500	NNU4964MC3NA	54.5
	440	118	3	359		1115	2581	1300	1500	NNU4964MP51NA	54.5
	440	118	3	359		1115	2581	1300	1500	NNU4964MP52NA	54.5
	440	118	3	359	16.7	1115	2581	1300	1500	NNU4964KMP51	54.5
	440	118	3	359		1115	2581	1300	1500	NNU4964KMP51NA	54.5
	440	118	3	359		1115	2581	1300	1500	NNU4964KMP52NA	54.5
	440	236	3	359		1905	5162	1300	1500	2xNNU4964MC3NA	109
	440	472	3	359		3275	10324	1300	1500	4xNNU4964MC3NA	218
	480	121	4	438		1325	2821	1200	1500	NN3064MW33	77
	480	121	4	438	16.7	1325	2821	1200	1500	NN3064KMP51	77
	480	121	4	438		1325	2821	1200	1500	NN3064KMP51NAW33	77
340	460	118	3	379		1155	2752	1200	1500	NNU4968MP51NA	58
	460	118	3	379		1155	2752	1200	1500	NNU4968KMP51	58
	460	118	3	379		1155	2752	1200	1500	NNU4968KMP51NA	58
	520	133	5	473		1755	3486	1100	1300	NN3068MP51NA	110
	520	133	5	473		1755	3486	1100	1300	NN3068MP52NA	110
	520	133	5	473		1755	3486	1100	1300	NN3068KMP51NA	110
	520	133	5	473	16.7	1755	3486	1100	1300	NN3068KMP52	110
	520	133	5	473		1755	3486	1100	1300	NN3068KMP52NA	110
360	480	118	3	399		1305	3238	1100	1400	NNU4972M	58.5
	480	118	3	399		1305	3238	1100	1400	NNU4972MP51NA	58.5
	480	118	3	399		1305	3238	1100	1400	NNU4972KM	58.5
	480	118	3	399		1305	3238	1100	1400	NNU4972KMP51NA	58.5
	540	134	5	493	16.7	1760	3300	1100	1300	NN3072MC3	109
	540	134	5	493		1740	3300	1100	1300	NN3072MC3NA	109
	540	134	5	493	16.7	1740	3300	1100	1300	NN3072KMP51	109
	540	134	5	426		1740	3300	1100	1300	NN3072KMP51NA	109
380	520	140	4	426		1485	3760	1100	1300	NNU4976MP51NA	91

Dimensions						Basic radial load		Speed limit		Designation	Weight
d	D	B	r _s	E,F	n _s	dyn.	stat.	grease	oil		
mm	mm	mm	mm	mm	mm	C _r	C _{0r}	min ⁻¹	min ⁻¹	-	Kg
	520	140	4	426	16.7	1485	3760	1100	1300	NNU4976KMP51	91
	520	140	4	426		1485	3760	1100	1300	NNU4976KMP51NAW33	91
	520	420	4	513		3865	11280	1100	1300	3xNNU4976MC3NA	273
	560	135	5	513		1640	3650	1000	1200	NN3076M	111
	560	135	5	513	16.7	1640	3650	1000	1200	NN3076KMP51	111
	560	135	5	446		1640	3650	1000	1200	NN3076KMP51NA	111
400	540	140	4	446		1645	4366	1000	1200	NNU4980MW33	95
	540	140	4	549		1645	4366	1000	1200	NNU4980KMP51NAW33	95
	600	148	5	549		2540	5189	950	1200	NN3080M	144
	600	148	5	549	16.7	1450	5189	950	1200	NN3080KMP51	144
	600	148	5	466		2540	5189	950	1200	NN3080KMP51NA	144
420	560	140	4	466	16.7	1550	4081	1000	1200	NNU4984MC3	96
	560	140	4	466		1550	4081	1000	1200	NNU4984MC3NA	96
	560	140	4	466		1550	4081	1000	1200	NNU4984MP51NA	96
	560	140	4	466		1550	4081	1000	1200	NNU4984MP52NA	96
	560	140	4	466	16.7	1550	4081	1000	1200	NNU4984MP53NA	96
	560	140	4	466		1550	4081	1000	1200	NNU4984KM	96
	560	140	4	466		1550	4081	1000	1200	NNU4984KMNA	96
	560	280	4	466		2655	8162	1000	1200	2xNNU4984MC3NA	192
	560	560	4	466		4550	16324	1000	1200	4xNNU4984MC3NA	384
	620	150	5	569		2635	5507	950	1100	NN3084M	145
	620	150	5	569		2635	5507	950	1100	NN3084KMP51NA	145
440	600	160	4	490		2110	5383	950	1100	NNU4988MW33	140
	600	160	4	482	16.7	2100	5383	950	1100	NNU4988KMP51	140
	600	160	4	490		2100	5383	950	1100	NNU4988KMP51NAW33	140
	650	157	6	592		2355	4665	900	1100	NN3088M	183
	650	157	6	592	16.7	2355	4665	900	1100	NN3088KMP51	183
	650	157	6	592		2355	4665	900	1100	NN3088KMP51NA	183
	650	157	6	592		2355	4665	900	1100	NN3088KMP52NA	183
460	620	160	4	502	23.5	2180	6400	900	1100	NNU4992MP53	143
	620	160	4	510		2135	5543	900	1100	NNU4992MP53NAW33	143
	620	160	4	510		2135	5543	900	1100	NNU4992MW33	143
	620	160	4	510		2135	5543	900	1100	NNU4992KMP4W33AR	143
	620	160	4	510		2135	5543	900	1100	NNU4992KMP51NAW33	143
	680	163	6	624		2560	5059	850	1000	NN3092M	198
	680	163	6	624	23.5	2560	5059	850	1000	NN3092KMP51	198
	680	163	6	624		2560	5059	850	1000	NN3092KMP51NA	198
480	650	170	5	534		2375	6050	850	1000	NNU4996MW33	160
	650	170	5	534		2375	6050	850	1000	NNU4996KMP51NAW33	160
	700	165	8	644		2610	2431	800	1000	NN3096MW33	200
	700	165	8	644		2610	2431	800	1000	NN3096KMW33	200
500	670	170	5	552		2715	6920	800	1000	NNU49/500EMP51NAW33	178
	670	170	5	552		2715	6920	800	1000	NNU49/500EMW33	178
	670	170	5	552		2715	6920	800	1000	NNU49/500EKMP51NAW33	178
	670	170	5	552		2715	6920	800	1000	NNU49/500EKMW33	178
	720	167	8	664		2685	6122	800	950	NN30/500MW33	210
	720	167	8	664		2685	6122	800	950	NN30/500KMW33	210
530	710	180	5	588	23.5	3140	8845	800	950	NNU49/530MC3	218

Dimensions						Basic radial load		Speed limit		Designation	Weight
d	D	B	r _s min.	E,F min.	n _s	dyn. C _r	stat. C _{0r}	grease	oil		
mm	mm	mm	mm	mm	mm	KN	KN	min ⁻¹	min ⁻¹	-	Kg
	710	180	5	588		3140	8845	800	950	NNU49/530MW33	218
	710	180	5	588		3140	8845	800	950	NNU49/530KMW33	218
560	750	190	5	617		3865	10441	750	900	NNU49/560MW33	240
	750	190	5	617		3865	10441	750	900	NNU49/560KMP51NAW33	240
	750	336	5	607		6110	17400	750	900	3xNNU29/560MC3NA	460
600	800	200	5	666		3680	10305	700	850	NNU49/600MW33	283
	800	200	5	666		3680	10305	700	850	NNU49/600KMW33	283
630	850	218	5	700	23.5	3835	10716	670	800	NNU49/630MC3	368
	850	218	6	704		3835	10716	670	800	NNU49/630MC3W33	368
	850	218	6	704		3835	10716	670	800	NNU49/630KMP51NAW33	368
670	900	230	6	738		4485	12375	600	750	NNU49/670MW33	408
	900	230	6	738		4485	12375	600	750	NNU49/670KMP51NAW33	408
	900	308	5	738		5260	15189	600	750	NNU59/670KMP51NAW33	513
710	950	243	6	782		5405	15020	600	700	NNU49/710MW33	500
	950	243	6	782		5405	15020	600	700	NNU49/710KMW33	480
750	1000	250	6	831		5740	15867	560	670	NNU49/750MW33	540
	1000	250	6	831		5740	15867	560	670	NNU49/750KMW33	540
800	1060	258	6	884		6000	18250	530	630	NNU49/800MW33	615
	1060	258	6	884		6000	18250	530	630	NNU49/800KMW33	615
850	1120	272	6	939		6220	18600	480	600	NNU49/850MW33	726
	1120	272	6	939		6220	18600	480	600	NNU49/850KMW33	726
900	1180	280	6	986		6845	20617	450	560	NNU49/900MW33	817
	1180	280	6	986		6845	20617	450	560	NNU49/900KMW33	817
950	1250	300	7.5	1046		7945	24275	430	530	NNU49/950MW33	996
	1250	300	7.5	1046		7945	24275	430	530	NNU49/950KMW33	996
1000	1320	315	9.5	1092		8685	24474	430	500	NNU49/1000MW33	1170
	1320	315	9.5	1092		8685	24474	430	500	NNU49/1000KMP51NAW33	1170