

四列圆柱滚子轴承典型设计结构

圆柱孔结构

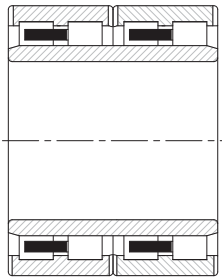


Figure 1

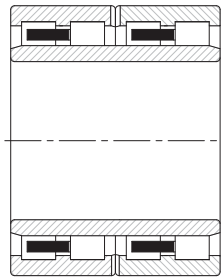


Figure 2

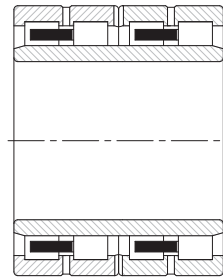


Figure 3

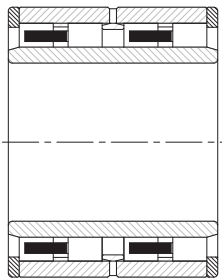


Figure 4

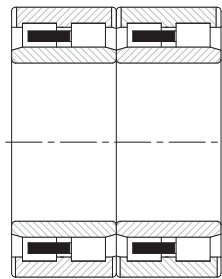


Figure 5

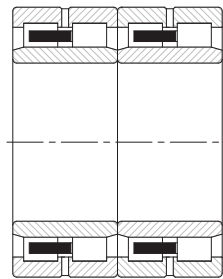


Figure 6

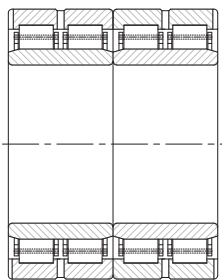


Figure 7

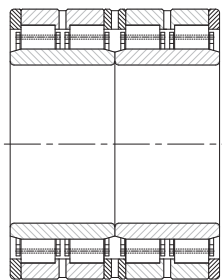


Figure 8

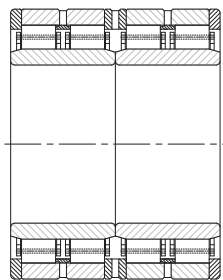


Figure 9

圆锥孔结构

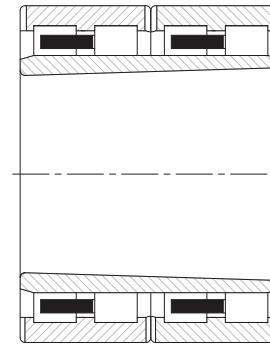


Figure 10

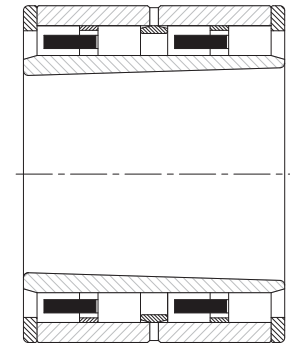


Figure 11

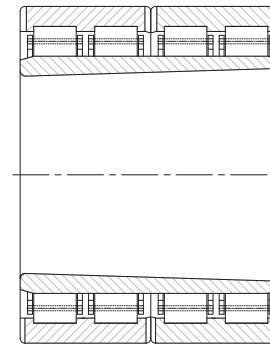


Figure 12

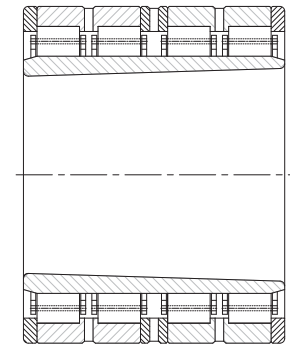
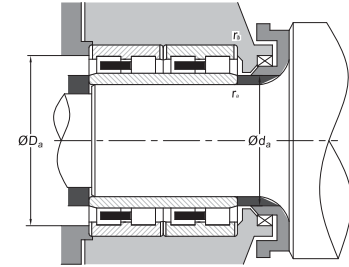
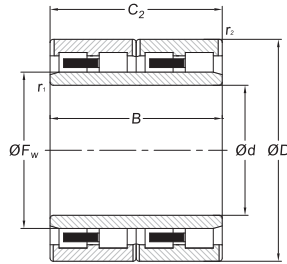


Figure 13

圆柱内孔
d: 100.000~180.000mm

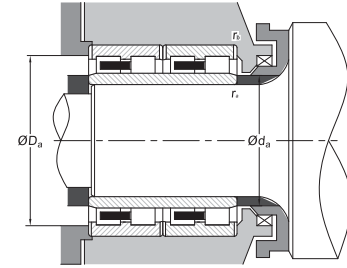
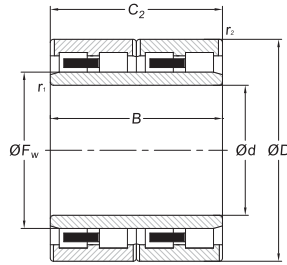


外形尺寸(mm)							轴承型号	设计结构①	基本额定载荷(kN)		安装尺寸 (mm)				重量 (kg)
d	D	B	C ₂	F _w	r ₁ (min)	r ₂ (min)			动载荷 Cr	静载荷 Cor	d _a (min)	D _a (max)	r _a (max)	r _b (max)	
100	140	104	104	111	1.5	1.1	100RV1401	3	400	820	110	130	1.5	1.0	4.8
110	170	120	120	127	2.0	2.0	110RV1701	1	615	1100	122	157	2.0	2.0	9.9
120	165	87	87	134.5	1.1	1.1	120RV1601	1	365	725	130	155	1.0	1.0	5.4
	180	105	105	136	2.0	2.0	120RV1801	1	530	880	132	167	2.0	2.0	8.9
	215	174	174	147	2.1	2.1	120RV2101	1	1060	1600	134	199	2.0	2.0	26.6
127	174.625	150.812	150.812	139.5	1.5	1.5	127RV1722	1	735	1580	138	163	1.5	1.5	10.5
	203.2	127	127	147.5	2.0	2.0	127RV2001	1	705	1110	139	190	2.0	2.0	15.4
130	200	125	125	149	2.0	2.0	130RV2001	1	700	1190	142	187	2.0	2.0	14.0
	200	104	104	149	2.0	2.0	130RV2003	1	570	950	142	187	2.0	2.0	11.7
140	210	116	116	160	2.0	2.0	140RV2101	1	640	1130	152	196	2.0	2.0	13.9
145	210	155	155	166	1.5	1.5	145RV2101	1	925	1920	157	197	1.5	1.5	17.8
	225	156	156	169	2.0	2.0	145RV2201	1	975	1820	158	211	2.0	2.0	23.0
150	220	150	150	168	2.0	2.0	150RV2201	1	900	1700	163	206	2.0	2.0	20.0
	225	150	150	168.5	1.5	2.1	150RV2203	1	970	1810	162	209	1.5	2.0	20.8
	225	136	136	168.776	2.1	2.1	150RV2204	1	820	1460	165	209	2.0	2.0	18.6
	230	130	130	174	2.1	2.1	150RV2301	1	845	1520	165	214	2.0	2.0	19.6
	230	156	156	174	2.0	2.0	150RV2302	1	965	1810	163	216	2.0	2.0	23.6
159.990	220	180	180	176	2.0	2.0	159RV2201	2	1050	2410	173	206	2.0	2.0	20.6
160	230	130	130	178	2.0	2.0	160RV2301	1	780	1340	173	216	2.0	2.0	16.4
	230	168	168	180	2.0	2.0	160RV2302	1	1040	2200	173	216	2.0	2.0	22.7
	230	180	180	178	2.0	2.0	160RV2303	2	1080	2280	173	216	2.0	2.0	24.2
	240	120	120	183	2.1	2.1	160RV2401	1	745	1320	175	224	2.0	2.0	18.8
	240	170	170	183	2.0	2.0	160RV2402	1	1080	2050	173	226	2.0	2.0	26.6
	240	145	145	180.016	2.1	2.1	160RV2403	1	920	1600	175	224	2.0	2.0	22.3
170	230	120	120	187	2.0	2.0	170RV2301	1	755	1610	183	216	2.0	2.0	14.0
	240	160	160	190	2.0	2.0	170RV2402	1	1000	2130	183	226	2.0	2.0	22.8
	250	168	168	192	2.1	2.1	170RV2501	1	1210	2320	185	234	2.0	2.0	27.4
	250	170	170	192	2.1	2.1	170RV2502	1	1210	2320	185	234	2.0	2.0	27.7
	255	180	180	193	2.1	2.1	170RV2503	1	1310	2500	185	239	2.0	2.0	31.5
	260	150	150	195	2.1	2.1	170RV2602	1	1030	1840	185	244	2.0	2.0	28.2
180	250	156	156	200	2.0	2.0	180RV2501	1	1020	2230	193	236	2.0	2.0	23.4
	260	168	168	202	2.1	2.1	180RV2601	1	1150	2300	195	244	2.0	2.0	29.2
	265	180	180	203	2.1	2.1	180RV2603	1	1230	2420	195	248	2.0	2.0	33.4

注：①设计结构参阅E54和E55页

圆柱内孔

d: 180.000~270.000mm

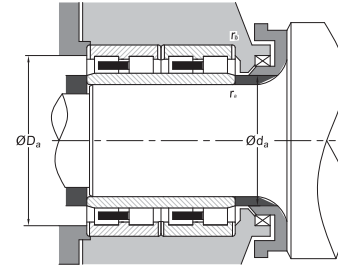
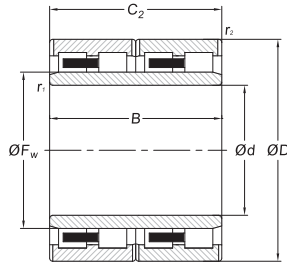


外形尺寸(mm)							轴承型号	设计结构①	基本额定载荷(kN)		安装尺寸 (mm)				重量 (kg)
d	D	B	C ₂	F _w	r ₁ (min)	r ₂ (min)			动载荷 Cr	静载荷 Cor	da (min)	Da (max)	ra (max)	rb (max)	
180	280	180	180	205.085	2.1	2.1	180RV2802	3	1410	2490	195	263	2.0	2.0	40.9
190	260	168	168	212	2.0	2.0	190RV2601	1	1140	2600	203	245	2.0	2.0	26.6
	270	200	200	212	2.1	2.1	190RV2701	1	1470	3100	206	253	2.0	2.0	36.0
	270	170	170	213	2.1	2.1	190RV2702	1	1290	2610	206	253	2.0	2.0	30.4
	270	170	170	212	2.0	2.0	190RV2703	1	1290	2610	203	255	2.0	2.0	30.6
	280	200	200	214	2.1	2.1	190RV2801	1	1480	2920	206	263	2.0	2.0	41.3
200	250	200	200	215	1.0	1.0	200RV2521	1	900	2500	210	240	1.0	1.0	22.3
	280	200	200	224	2.1	2.1	200RV2801	1	1410	3200	216	263	2.0	2.0	38.3
	280	200	200	222	2.1	2.1	200RV2802	1	1410	3200	216	263	2.0	2.0	38.6
	280	190	190	223	2.1	2.1	200RV2803	1	1350	3050	216	263	2.0	2.0	36.4
	280	170	170	223	2.1	2.1	200RV2804	1	1150	2460	216	263	2.0	2.0	32.3
	290	192	192	226	2.1	2.1	200RV2901	1	1420	3000	216	273	2.0	2.0	42.3
	310	230	230	229	2.1	2.1	200RV3102	1	1840	3500	216	293	2.0	2.0	63.7
320	216	216	231	3.0	3.0	200RV3231	4	2120	3900	218	300	2.5	2.5	69.9	
210	290	192	192	236	2.1	2.1	210RV2901	1	1400	3350	226	273	2.0	2.0	39.0
219.954	310	183	183	244.5	1.5	1.0	219RV3131	4	1480	3150	233	298	1.5	1.0	45.3
220	310	192	192	247	2.1	2.1	220RV3101	1	1540	3450	236	293	2.0	2.0	46.1
	310	225	225	245	2.1	2.1	220RV3102	1	1740	3900	236	293	2.0	2.0	52.9
	320	210	210	248	2.1	2.1	220RV3201	1	1790	3650	236	302	2.0	2.0	56.0
	320	210	210	246	2.1	2.1	220RV3203	1	1900	3750	236	302	2.0	2.0	57.0
222.250	320.675	241.3	241.3	251	2.1	2.1	222RV3201	2	1990	4350	238	303	2.0	2.0	65.0
230	330	206	206	260	2.1	2.1	230RV3301	1	1760	3900	246	312	2.0	2.0	58.2
	340	260	260	261	3.0	3.0	230RV3401	1	2390	5100	248	320	2.5	2.5	81.0
	365	250	250	266	3.0	3.0	230RV3601	5	2310	4300	248	344	2.5	2.5	98.3
240	330	220	220	270	3.0	3.0	240RV3301	1	1770	4400	259	310	2.5	2.5	57.7
	340	220	220	268	3.0	3.0	240RV3403	1	1890	3900	259	320	2.5	2.5	61.7
	360	220	220	272	3.0	3.0	240RV3601	2	2250	4350	259	340	2.5	2.5	77.8
250	350	220	220	278	3.0	3.0	250RV3501	1	1930	4200	269	330	2.5	2.5	64.8
259.948	368	218	218	290	2.1	1.1	259RV3631	4	2010	4350	277	354	2.0	1.0	76.7
260	355	260	260	286	2.1	2.1	260RV3521	5	2090	5000	277	337	2.0	2.0	74.5
	370	220	220	292	3.0	3.0	260RV3701	1	2050	4450	279	349	2.5	2.5	76.0
	380	280	280	294	3.0	3.0	260RV3801	1	2820	6250	279	359	2.5	2.5	107.0
	400	290	290	296	4.0	4.0	260RV4001	1	3250	6350	282	376	3.0	3.0	133.0
270	380	230	230	298	2.1	2.1	270RV3801	1	2330	5050	287	361	2.0	2.0	83.0

注：①设计结构参阅E54和E55页

圆柱内孔

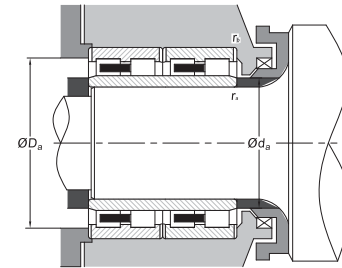
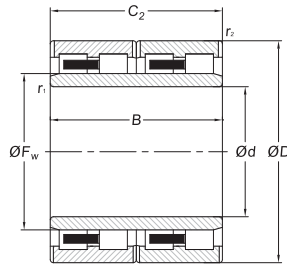
d: 280.000~380.000mm



外形尺寸(mm)							轴承型号	设计结构①	基本额定载荷(kN)		安装尺寸(mm)				重量(kg)
d	D	B	C ₂	F _w	r ₁ (min)	r ₂ (min)			动载荷Cr	静载荷Cor	d _a (min)	D _a (max)	r _a (max)	r _s (max)	
280	390	220	220	312	3.0	3.0	280RV3901	1	2120	4800	299	369	2.5	2.5	80.9
	390	240	240	312	3.0	3.0	280RV3902	1	2360	5500	299	369	2.5	2.5	88.5
	390	275	275	308	3.0	1.1	280RV3903	1	2860	6450	299	375	2.5	1.0	100.0
	400	285	285	316	3.0	3.0	280RV4021	5	3000	6950	299	379	2.5	2.5	117.0
290	390	234	234	320	3.0	3.0	290RV3901	1	2270	5600	310	369	2.5	2.5	79.7
	410	240	240	320	3.0	3.0	290RV4101	1	2570	5450	310	389	2.5	2.5	99.0
	420	300	300	327	3.0	3.0	290RV4201	1	3300	7500	310	398	2.5	2.5	138.0
300	400	300	300	328	2.0	2.0	300RV4021	5	2720	6900	316	383	2.0	2.0	103.0
	420	240	240	332	3.0	3.0	300RV4201	1	2670	5750	320	398	2.5	2.5	101.0
	420	300	300	332	2.0	2.0	300RV4221	5	3200	7200	316	402	2.0	2.0	128.0
310	420	300	300	338	3.0	3.0	310RV4201	1	3300	8050	330	398	2.5	2.5	119.0
	430	240	240	344.5	3.0	3.0	310RV4301	1	2610	5950	330	408	2.5	2.5	107.0
320	450	240	240	358	3.0	3.0	320RV4501	1	2760	6150	340	428	2.5	2.5	120.0
	480	350	350	364	4.0	1.5	320RV4811	8	4850	10500	343	462	3.0	1.5	232.0
330	430	230	230	358	3.0	3.0	330RV4301	1	2340	5850	350	408	2.5	2.5	86.3
	440	200	200	360	3.0	3.0	330RV4401	3	2160	4750	350	418	2.5	2.5	83.8
	460	340	340	365	4.0	4.0	330RV4601	1	3550	8650	353	435	3.0	3.0	174.0
340	450	250	250	371	3.0	3.0	340RV4501	1	2720	6750	361	428	2.5	2.5	108.0
	450	250	250	368	3.0	3.0	340RV4502	3	2720	6750	361	428	2.5	2.5	108.0
	480	350	350	378	4.0	4.0	340RV4801	1	4050	9400	364	454	3.0	3.0	198.0
345	480	350	350	376	3.0	3.0	345RV4821	6	4400	10300	366	457	2.5	2.5	190.0
360	480	290	290	394	3.0	3.0	360RV4801	1	3250	8300	381	457	2.5	2.5	146.0
	510	370	370	400	4.0	4.0	360RV5101	1	4500	10100	384	484	3.0	3.0	234.0
370	480	250	250	401	3.0	3.0	370RV4801	1	2830	7350	391	457	2.5	2.5	116.0
	520	380	380	409	4.0	2.0	370RV5211	1	6000	14400	394	500	3.0	2.0	263.0
	540	400	400	415	4.0	4.0	370RV5401	1	5250	12000	394	513	3.0	3.0	311.0
380	500	290	290	414	3.0	3.0	380RV5001	1	3350	8800	401	477	2.5	2.5	153.0
	520	290	290	418	4.0	4.0	380RV5201	1	3750	8850	404	493	3.0	3.0	181.0
	520	280	280	417	4.0	4.0	380RV5202	1	3650	8450	404	493	3.0	3.0	174.0
	540	340	340	424	5.0	5.0	380RV5431	4	4700	10900	408	509	4.0	4.0	259.0
	540	400	400	424	5.0	5.0	380RV5401	3	5050	12000	408	509	4.0	4.0	280.0
	540	400	400	422	5.0	2.0	380RV5411	8	6000	14400	408	520	4.0	2.0	305.0
	540	400	380	424	5.0	2.0	380RV5412	1	5750	13800	408	520	4.0	2.0	294.0

注：①设计结构参阅E54和E55页

圆柱内孔
d: 390.000~500.000mm

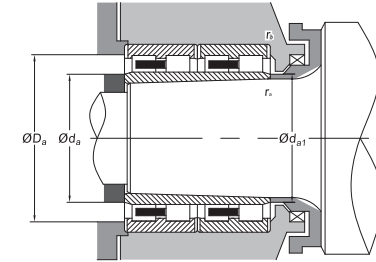
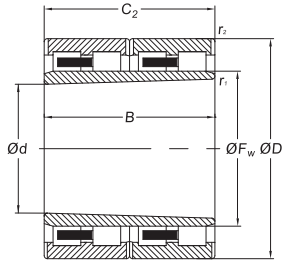


外形尺寸(mm)							轴承型号	设计结构①	基本额定载荷(kN)		安装尺寸 (mm)				重量 (kg)
d	D	B	C ₂	F _w	r ₁ (min)	r ₂ (min)			动载荷 Cr	静载荷 Cor	d _a (min)	D _a (max)	r _a (max)	r _b (max)	
390	510	290	290	424	3.0	3.0	390RV5101	1	3400	9000	412	487	2.5	2.5	156.0
	550	400	400	434	5.0	5.0	390RV5521	6	5150	12400	419	519	4.0	4.0	303.0
400	520	250	250	432	4.0	4.0	400RV5202	3	3000	7700	425	493	3.0	3.0	136.0
	550	300	300	441	4.0	4.0	400RV5501	1	4150	9750	425	523	3.0	3.0	212.0
	560	400	400	446	5.0	5.0	400RV5612	8	5650	13600	429	529	4.0	4.0	308.0
	560	410	410	445	5.0	2.0	400RV5613	8M	6550	16500	429	539	4.0	2.0	315.0
	560	400	400	446	5.0	5.0	400RV5621	6	4750	11300	429	529	4.0	4.0	304.0
	560	410	410	445	5.0	2.0	400RV5611	8	6550	16500	429	539	4.0	2.0	315.0
406.400	609.6	304.8	304.8	460	5.0	5.0	406RV6001	1	4650	9150	435	577	4.0	4.0	307.0
410	600	440	440	460	5.0	5.0	410RV6011	8	7350	16600	439	568	4.0	4.0	438.0
420	560	280	280	457	4.0	4.0	420RV5601	1	3800	9250	445	533	3.0	3.0	190.0
	560	400	400	458	4.0	4.0	420RV5602	6	4950	13000	445	533	3.0	3.0	270.0
	600	440	440	470	5.0	2.0	420RV6011	8	7100	17200	449	579	4.0	2.0	419.0
430	591	420	420	476	4.0	4.0	430RV5921	5	5200	13400	455	563	3.0	3.0	347.0
440	620	450	450	487	5.0	5.0	440RV6213	8	7350	17800	470	588	4.0	4.0	430.0
	620	450	450	490	4.0	4.0	440RV6221	5	7450	19000	466	591	3.0	3.0	430.0
450	630	450	450	500	4.0	4.0	450RV6321	5	6950	17500	476	601	3.0	3.0	440.0
460	620	400	400	506	4.0	4.0	460RV6201	1	5500	14700	486	591	3.0	3.0	347.0
	620	400	400	502	4.0	4.0	460RV6211	8	6400	16600	486	591	3.0	3.0	358.0
	620	460	460	502	4.0	4.0	460RV6212	8M	7100	19100	486	591	3.0	3.0	412.0
	650	470	470	509	6.0	3.0	460RV6511	8	8400	20900	496	624	5.0	2.5	514.0
	670	500	500	522	6.0	6.0	460RV6721	7	8900	22700	496	631	5.0	5.0	596.0
480	680	500	500	534	5.0	5.0	480RV6801	7	9000	23100	510	646	4.0	4.0	610.0
	680	500	500	534	5.0	5.0	480RV6811	8	9000	23100	510	646	4.0	4.0	610.0
	700	400	400	538	6.0	6.0	480RV7031	9	7650	17400	517	660	5.0	5.0	538.0
500	670	450	450	540	5.0	5.0	500RV6712	8	8300	22300	531	637	4.0	4.0	464.0
	680	420	405	550	5.0	5.0	500RV6812	8	6700	17600	531	646	4.0	4.0	451.0
	690	510	510	550	5.0	5.0	500RV6913	8M	8850	23900	531	656	4.0	4.0	580.0
	690	510	510	552	5.0	5.0	500RV6921	7	9000	24600	531	656	4.0	4.0	580.0
	700	515	515	554	5.0	5.0	500RV7021	7	9100	23800	531	666	4.0	4.0	622.0
	710	480	480	558	5.0	5.0	500RV7111	8	8500	21200	531	676	4.0	4.0	632.0
720	530	530	560	6.0	6.0	500RV7211	8	9950	25300	537	680	5.0	5.0	782.0	

注：①设计结构参阅E54和E55页；
字母M表示轴承采用油雾润滑。

圆锥内孔

d: 110.417~633.333mm



外形尺寸(mm)							轴承型号	设计结构①	基本额定载荷(kN)		安装尺寸 (mm)					重量 (kg)
d	D	B	C ₂	F _w	r ₁ (min)	r ₂ (min)			动载荷 Cr	静载荷 Cor	d _a (min)	d _{a1} (min)	D _a (max)	r _a (max)	r _b (max)	
110.417	180	115	115	136	1.0	1.0	120RVK1801	10	490	840	118	128	171	1.0	1.0	10.0
151.500	230	168	168	180	1.0	1.0	165RVK2331	11	1040	2170	160	174	220	1.0	1.0	23.5
179.750	260	175	168	212	1.1	2.0	193RVK2602	10	1140	2600	190	205	245	1.0	2.0	25.1
180	260	175	168	212	1.1	2.0	194RVK2602	10	1140	2600	191	206	245	1.0	2.0	25.0
181.500	260	168	168	209	1.0	2.0	195RVK2602	10	1140	2600	191	205	245	1.0	2.0	24.2
235.367	360	268	268	278	1.5	1.5	257RVK3631	11	2770	6000	249	272	344	1.5	1.5	92.9
266.250	400	285	285	312	2.0	2.0	290RVK4031	11	3200	7500	281	305	383	2.0	2.0	118.0
356.667	550	400	400	434	5.0	5.0	390RVK5531	12	5450	13300	385	419	519	4.0	4.0	328.0
	550	400	400	431.9	3.0	2.5	390RVK5532	12	5450	13300	378	412	527	2.5	2.0	328.0
412.335	650	488	488	494.5	3.0	4.0	453RVK6521	12	8900	21100	434	476	621	2.5	3.0	603.0
485	740	540	540	580	5.0	5.0	530RVK7431	13	10100	26800	516	561	705	4.0	4.0	823.0
633.333	960	680	680	745.8	7.5	7.5	690RVK9632	13	18100	47000	679	737	909	6.0	6.0	1720.0

注：①设计结构参阅E54和E55页