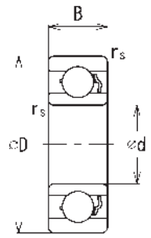
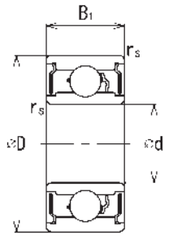
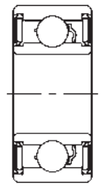
Extra-miniature/miniature/small bearings【Stainless-steel】



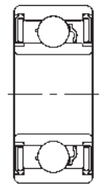
Open



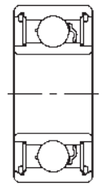
Shielded: ZZ



Sealed: 2RS



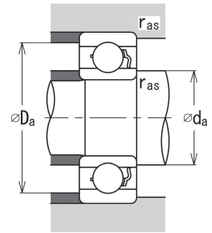
Sealed: 2RU

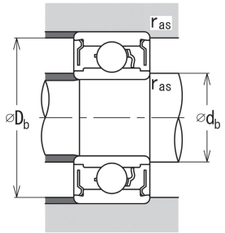


Sealed: TTS

Bore diameter d		Outer diameter D		Width Open B		Width Shielded, Sealed B_1		Chamfer $r_{s\,(min)}$		Bearing number					Load rating		Limiting speed[3]	
										Open	2 Shields[2]	2 Seals[2]			Cr	Cor	Grease	Oil
												2RS	2RU	TTS				
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch						N		min^{-1}	
0.6	0.0236	2.5	0.0984	1	0.0394	—	—	0.05	0.0020	**68/0.6H**	—	—	—	—	50	11	128 000	152 000
1	0.0394	3	0.1181	1	0.0394	—	—	0.05	0.0020	**681H**	—	—	—	—	81	20	117 000	139 000
		3	0.1181	1.5	0.0591	—	—	0.05	0.0020	**SMR31**	—	—	—	—	81	20	117 000	139 000
		4	0.1575	1.6	0.0630	—	—	0.10	0.0039	**691H**	—	—	—	—	120	29	105 000	124 000
1.2	0.0472	4	0.1575	1.8	0.0709	2.5	0.0984	0.10	0.0039	**SMR41X**	**SMR41XZZ**	—	—	—	96	27	105 000	124 000
1.5	0.0591	4	0.1575	1.2	0.0472	2	0.0787	0.05	0.0020	**681XH**	**681XHZZ**	—	—	—	96	27	105 000	124 000
		5	0.1969	2	0.0787	2.6	0.1024	0.15	0.0059	**691XH**	**691XHZZ**	—	—	—	202	55	94 000	111 000
		6	0.2362	2.5	0.0984	3	0.1181	0.15	0.0059	**601XH**	**601XHZZ**	—	—	—	281	79	86 000	101 000
2	0.0787	4	0.1575	1.2	0.0472	2	0.0787	0.05	0.0020	**672H**	**672HZZ**	—	—	—	106	32	98 000	116 000
		5	0.1969	1.5	0.0591	2.3	0.0906	0.08	0.0031	**682H**	**682HZZ**	—	—	—	144	40	94 000	111 000
		5	0.1969	2	0.0787	2.5	0.0984	0.10	0.0039	**SMR52**	**SMR52ZZ**	—	—	—	144	40	94 000	111 000
		6	0.2362	2.3	0.0906	3	0.1181	0.15	0.0059	**692H**	**692HZZ**	—	—	—	281	79	86 000	101 000
		6	0.2362	2.5	0.0984	2.5	0.0984	0.15	0.0059	**SMR62**	**SMR62ZZ**	—	—	—	281	79	86 000	101 000
		7	0.2756	2.5	0.0984	3	0.1181	0.15	0.0059	**SMR72**	**SMR72ZZS**	—	—	—	328	102	76 000	90 000
		7	0.2756	2.8	0.1102	3.5	0.1378	0.15	0.0059	**602H**	**602HZZS**	—	—	—	328	102	76 000	90 000
2.5	0.0984	6	0.2362	1.8	0.0709	2.6	0.1024	0.08	0.0031	**682XH**	**682XHZZ**	—	—	—	177	58	81 000	96 000
		7	0.2756	2.5	0.0984	3.5	0.1378	0.15	0.0059	**692XH**	**692XHZZS**	—	—	—	328	102	76 000	90 000
		8	0.3150	2.5	0.0984	—	—	0.20	0.0079	**SMR82X**	—	—	—	—	475	143	70 000	82 000
		8	0.3150	2.8	0.1102	4	0.1575	0.15	0.0059	**602XH**	**602XHZZ**	—	—	—	469	140	72 000	85 000
3	0.1181	6	0.2362	2	0.0787	2.5	0.0984	0.10	0.0039	**SMR63**	**SMR63ZZ**	—	—	—	177	58	81 000	96 000
		7	0.2756	2	0.0787	3	0.1181	0.10	0.0039	**683H**	**683HZZ**	**2RS**	—	—	265	90	74 000	88 000
		8	0.3150	2.5	0.0984	—	—	0.15	0.0059	**SMR83**	—	—	—	—	336	112	67 000	79 000
		8	0.3150	—	—	3	0.1181	0.10	0.0039	—	**SMR83ZZ**	—	—	—	336	112	67 000	79 000
		8	0.3150	3	0.1181	4	0.1575	0.15	0.0059	**693H**	**693HZZ**	**2RS**	—	—	475	143	70 000	82 000
		9	0.3543	2.5	0.0984	—	—	0.20	0.0079	**SMR93**	—	—	—	—	486	150	66 000	78 000
		9	0.3543	—	—	4	0.1575	0.15	0.0059	—	**SMR93ZZ**	—	—	—	486	150	66 000	78 000
		9	0.3543	3	0.1181	5	0.1969	0.15	0.0059	**603H**	**603HZZ**	—	—	—	486	150	66 000	78 000
		10	0.3937	4	0.1575	4	0.1575	0.15	0.0059	**623H**[1]	**623HZZ**	**2RS**	**2RU**	**TTS**	538	175	66 000	78 000
		13	0.5118	5	0.1969	5	0.1969	0.20	0.0079	**633H**[1]	**633HZZ**	**2RS**	—	—	1 110	388	51 000	60 000
4	0.1575	7	0.2756	2	0.0787	—	—	0.10	0.0039	**SMR74**	—	—	—	—	265	92	70 000	82 000
		7	0.2756	—	—	2.5	0.0984	0.10	0.0039	—	**SMR74ZZ**	—	—	—	217	86	71 000	83 000
		8	0.3150	2	0.0787	—	—	0.15	0.0059	**SMR84**	—	—	—	—	336	112	67 000	79 000
		8	0.3150	—	—	3	0.1181	0.10	0.0039	—	**SMR84ZZ**	—	—	—	336	112	67 000	79 000
		9	0.3543	2.5	0.0984	4	0.1575	0.10	0.0039	**684H**	**684HZZ**	**2RS**	—	**TTS**	545	181	63 000	75 000
		10	0.3937	3	0.1181	4	0.1575	0.20	0.0079	**SMR104**	**SMR104ZZ**	**2RS**	**2RU**	—	604	216	59 000	70 000
		11	0.4331	4	0.1575	4	0.1575	0.15	0.0059	**694H**[1]	**694HZZ**	**2RS**	—	—	815	277	57 000	67 000
		12	0.4724	4	0.1575	4	0.1575	0.20	0.0079	**604H**[1]	**604HZZ**	**2RS**	—	—	815	277	57 000	67 000
		13	0.5118	5	0.1969	5	0.1969	0.20	0.0079	**624H**[1]	**624HZZ**	**2RS**	**2RU**	—	1 110	388	51 000	60 000
		16	0.6299	5	0.1969	5	0.1969	0.30	0.0118	**634H**[1]	**634HZZ**	**2RS**	—	—	1 140	414	46 000	54 000

(1) Open bearings have shield/seal grooves.
(2) Single-shielded/single-sealed bearings are also available; suffix Z, RS, RU or TS.
(3) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions.
Limiting speeds for the contact rubber seal(s) types can be lower than the above-mentioned values, so please check the detailed values per item on “products” section of our website.
(4) Some items are also available with the TW cage. Please contact us for details.

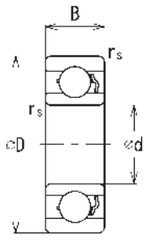




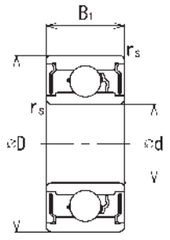
Abutment and fillet

Cage type[4]	Ball		Abutment and fillet dimensions								$r_{as\,(max)}$	Mass (Ref.)	
			Open				Shielded, Sealed					Open	2 Shields
	Size	Qty.	$d_{a\,(min)}$	$d_{a\,(max)}$	$D_{a\,(min)}$	$D_{a\,(max)}$	$d_{b\,(min)}$	$d_{b\,(max)}$	$D_{b\,(min)}$	$D_{b\,(max)}$			
	mm	pcs.	mm				mm				mm	g	
W	0.500	5	1.00	1.10	2.00	2.10	—	—	—	—	0.05	0.02	—
W	0.600	6	1.40	1.50	2.60	2.70	—	—	—	—	0.05	0.03	—
W	0.600	6	1.40	1.50	2.60	2.70	—	—	—	—	0.05	0.04	—
W	0.800	5	1.80	1.90	3.30	3.50	—	—	—	—	0.10	0.09	—
W	0.600	7	2.00	2.10	3.10	3.20	2.00	2.10	3.60	3.60	0.10	0.11	0.14
W	0.600	7	1.90	2.10	3.10	3.60	1.90	2.10	3.60	3.70	0.05	0.07	0.10
W	1.000	6	2.40	2.40	4.10	4.10	2.40	2.40	4.60	4.60	0.15	0.17	0.22
W	1.200	6	2.70	2.90	4.90	5.20	2.70	2.90	5.50	5.50	0.15	0.32	0.37
W	0.600	8	2.40	2.50	3.50	3.60	2.40	2.50	3.70	3.70	0.05	0.05	0.08
W	0.800	6	2.50	2.60	4.00	4.40	2.50	2.60	4.50	4.50	0.08	0.13	0.18
W	0.800	6	2.60	2.60	4.00	4.20	2.60	2.60	4.50	4.50	0.10	0.16	0.19
W	1.200	6	2.90	2.90	4.90	5.20	2.90	2.90	5.50	5.50	0.15	0.28	0.33
W	1.200	6	2.90	2.90	4.90	5.20	2.90	2.90	5.50	5.50	0.15	0.29	0.29
W	1.200	7	3.20	3.80	5.70	6.20	3.00	3.10	6.30	6.30	0.15	0.45	0.51
W	1.200	7	3.20	3.80	5.70	6.20	3.00	3.10	6.30	6.30	0.15	0.50	0.59
W	0.800	8	3.10	3.60	5.00	5.40	3.10	3.60	5.50	5.50	0.08	0.22	0.30
W	1.200	7	3.70	3.80	5.70	6.20	3.70	3.80	6.30	6.30	0.15	0.42	0.56
W	1.588	6	4.10	4.30	6.70	6.70	—	—	—	—	0.20	0.52	—
W	1.588	6	3.70	4.00	6.50	6.80	3.70	4.00	7.10	7.10	0.15	0.62	0.85
W	0.800	8	3.60	3.60	5.00	5.20	3.60	3.60	5.50	5.50	0.10	0.21	0.25
W	1.000	8	3.80	4.20	5.80	6.20	3.70	3.80	6.40	6.40	0.10	0.33	0.44
J	1.200	7	4.20	4.90	6.90	7.20	—	—	—	—	0.15	0.55	—
J	1.200	7	—	—	—	—	3.80	4.90	7.50	7.50	0.10	—	0.64
J	1.588	6	3.90	4.30	6.70	7.20	3.90	4.30	7.30	7.30	0.15	0.60	0.77
W	1.588	6	4.60	4.80	7.30	7.70	—	—	—	—	0.20	0.70	—
W	1.588	6	—	—	—	—	3.90	4.30	8.00	8.20	0.15	—	1.07
W	1.588	6	4.20	4.80	7.30	7.80	3.90	4.30	8.00	8.20	0.15	0.84	1.33
J	1.588	7	3.90	4.30	8.10	8.80	3.90	4.30	8.10	8.80	0.15	1.47	1.56
J	2.381	7	4.60	5.90	11.40	11.70	4.60	5.90	11.40	11.70	0.20	2.91	3.08
W	1.000	8	4.60	4.70	6.30	6.50	—	—	—	—	0.10	0.22	—
W	0.800	11	—	—	—	—	4.60	4.70	6.60	6.60	0.10	—	0.30
J	1.200	7	4.90	4.90	6.90	7.20	—	—	—	—	0.15	0.36	—
J	1.200	7	—	—	—	—	4.80	4.90	7.50	7.50	0.10	—	0.51
W	1.588	7	4.80	5.10	7.60	8.20	4.80	5.10	8.20	8.50	0.10	0.62	0.93
J	1.588	8	5.60	5.80	8.30	8.70	5.60	5.80	8.90	8.90	0.20	0.99	1.29
J	2.000	7	5.20	5.50	9.90	10.20	5.20	5.50	9.90	10.20	0.15	1.47	1.59
J	2.000	7	5.30	5.50	9.90	10.40	5.30	5.50	9.90	10.40	0.20	1.99	2.11
J	2.381	7	5.60	5.90	11.40	11.70	5.60	5.90	11.40	11.70	0.20	2.78	2.95
J	2.381	7	6.00	6.60	13.10	14.00	6.00	6.60	13.10	14.00	0.30	4.80	5.14

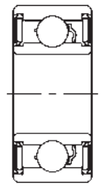
Extra-miniature/miniature/small bearings【Stainless-steel】



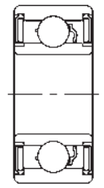
Open



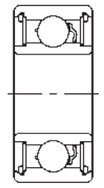
Shielded: ZZ



Sealed: 2RS



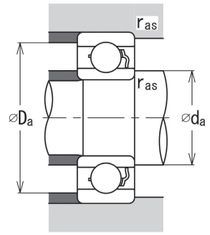
Sealed: 2RU

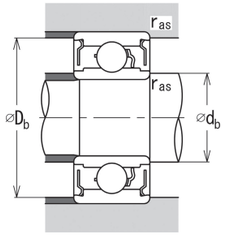


Sealed: TTS

Bore diameter d		Outer diameter D		Width Open B		Width Shielded, Sealed B_1		Chamfer $r_{s\ (min)}$		Bearing number					Load rating		Limiting speed[3]	
										Open	2 Shields[2]	2 Seals[2]			Cr	Cor	Grease	Oil
												2RS	2RU	TTS				
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch						N		min^{-1}	
5	0.1969	8	0.3150	2	0.0787	—	—	0.10	0.0039	**SMR85**	—	—	—	—	263	97	62 000	74 000
		8	0.3150	—	—	2.5	0.0984	0.10	0.0039	—	**SMR85ZZ**	—	—	—	185	73	63 000	75 000
		9	0.3543	2.5	0.0984	3	0.1181	0.15	0.0059	**SMR95**	**SMR95ZZ**	—	—	**TTS**	367	134	60 000	71 000
		10	0.3937	3	0.1181	4	0.1575	0.15	0.0059	**SMR105**	**SMR105ZZ**	**2RS**	—	—	367	134	60 000	71 000
		11	0.4331	4	0.1575	4	0.1575	0.15	0.0059	**SMR115**[1]	**SMR115ZZ**	**2RS**	—	—	609	226	54 000	64 000
		11	0.4331	3	0.1181	5	0.1969	0.15	0.0059	**685H**	**685HZZ**	**2RS**	—	—	609	226	54 000	64 000
		13	0.5118	4	0.1575	4	0.1575	0.20	0.0079	**695H**[1]	**695HZZ**	**2RS**	—	—	916	344	50 000	59 000
		14	0.5512	5	0.1969	5	0.1969	0.20	0.0079	**605H**[1]	**605HZZ**	**2RS**	—	—	1 130	405	48 000	56 000
		16	0.6299	5	0.1969	5	0.1969	0.30	0.0118	**625H**[1]	**625HZZ**	**2RS**	—	—	1 470	536	44 000	52 000
		19	0.7480	6	0.2362	6	0.2362	0.30	0.0118	**635H**[1]	**635HZZ**	**2RS**	—	—	1 990	711	38 000	45 000
6	0.2362	10	0.3937	2.5	0.0984	—	—	0.15	0.0059	**SMR106**	—	—	—	—	422	175	54 000	64 000
		10	0.3937	—	—	3	0.1181	0.10	0.0039	—	**SMR106ZZ**	—	—	—	423	174	55 000	64 000
		12	0.4724	3	0.1181	4	0.1575	0.20	0.0079	**SMR126**	**SMR126ZZ**	**2RS**	—	—	608	234	50 000	59 000
		13	0.5118	3.5	0.1378	5	0.1969	0.15	0.0059	**686H**	**686HZZ**	**2RS**	**2RU**	—	920	350	48 000	56 000
		13	0.5118	—	—	5	0.1969	0.15	0.0059	—	—	—	—	**TTS**	920	350	38 000	38 000
		15	0.5906	5	0.1969	5	0.1969	0.20	0.0079	**696H**[1]	**696HZZ**	**2RS**	**2RU**	—	1 140	414	46 000	54 000
		15	0.5906	—	—	5	0.1969	0.20	0.0079	—	—	—	—	**TTS**	1 140	414	38 000	38 000
		16	0.6299	5	0.1969	5	0.1969	0.20	0.0079	**696AH**[1]	**696AHZZ**	**2RS**	**2RU**	—	1 140	414	46 000	54 000
		17	0.6693	6	0.2362	6	0.2362	0.30	0.0118	**606H**[1]	**606HZZ**	**2RS**	**2RU**	—	1 920	670	42 000	49 000
		19	0.7480	6	0.2362	6	0.2362	0.30	0.0118	**626H**[1]	**626HZZ**	**2RS**	**2RU**	—	1 990	711	38 000	45 000
		22	0.8661	7	0.2756	7	0.2756	0.30	0.0118	**636H**[1]	**636HZZ**	**2RS**	**2RU**	—	2 800	1 090	33 000	39 000
7	0.2756	11	0.4331	2.5	0.0984	3	0.1181	0.15	0.0059	**SMR117**	**SMR117ZZS**	—	—	—	388	161	50 000	59 000
		13	0.5118	3	0.1181	—	—	0.20	0.0079	**SMR137**	—	—	—	—	460	221	45 000	53 000
		13	0.5118	—	—	4	0.1575	0.15	0.0059	—	**SMR137ZZ**	—	—	—	460	221	45 000	53 000
		14	0.5512	3.5	0.1378	5	0.1969	0.15	0.0059	**687H**	**687HZZ**	**2RS**	—	—	999	409	44 000	52 000
		17	0.6693	5	0.1969	5	0.1969	0.30	0.0118	**697H**[1]	**697HZZ**	**2RS**	—	—	1 370	573	40 000	47 000
		19	0.7480	6	0.2362	6	0.2362	0.30	0.0118	**607H**[1]	**607HZZ**	**2RS**	**2RU**	—	1 990	711	38 000	45 000
		19	0.7480	—	—	6	0.2362	0.30	0.0118	—	—	—	—	**TTS**	1 900	729	29 000	29 000
		22	0.8661	7	0.2756	7	0.2756	0.30	0.0118	**627H**[1]	**627HZZ**	**2RS**	**2RU**	—	2 800	1 090	33 000	39 000
		22	0.8661	—	—	7	0.2756	0.30	0.0118	—	—	—	—	**TTS**	2 800	1 090	27 000	27 000
8	0.3150	12	0.4724	2.5	0.0984	—	—	0.15	0.0059	**SMR128**	—	—	—	—	462	220	46 000	54 000
		12	0.4724	—	—	3.5	0.1378	0.10	0.0039	—	**SMR128ZZ**	**2RS**	—	—	463	219	46 000	54 000
		12	0.4724	—	—	3.5	0.1378	0.10	0.0039	—	—	—	—	**TTS**	462	220	31 000	31 000
		14	0.5512	3.5	0.1378	—	—	0.20	0.0079	**SMR148**	—	—	—	—	696	309	42 000	50 000
		14	0.5512	—	—	4	0.1575	0.15	0.0059	—	**SMR148ZZ**	**2RS**	—	—	696	309	42 000	50 000
		16	0.6299	4	0.1575	5	0.1969	0.20	0.0079	**688H**	**688HZZ**	**2RS**	**2RU**	—	1 070	472	40 000	47 000
		16	0.6299	—	—	5	0.1969	0.20	0.0079	—	—	—	—	**TTS**	1 070	472	29 000	29 000
		19	0.7480	6	0.2362	6	0.2362	0.30	0.0118	**698H**[1]	**698HZZ**	**2RS**	**2RU**	—	1 900	729	37 000	44 000
		22	0.8661	7	0.2756	7	0.2756	0.30	0.0118	**608H**[1]	**608HZZ**	**2RS**	**2RU**	—	2 800	1 090	33 000	39 000
8	0.3150	22	0.8661	—	—	7	0.2756	0.30	0.0118	—	—	—	—	**TTS**	2 800	1 090	27 000	27 000
		24	0.9449	8	0.3150	8	0.3150	0.30	0.0118	**628H**[1]	**628HZZ**	**2RS**	**2RU**	—	2 830	1 130	31 000	37 000
		28	1.1024	9	0.3543	9	0.3543	0.30	0.0118	**638H**[1]	**638HZZ**	**2RS**	**2RU**	—	3 890	1 570	28 000	33 000
9	0.3543	14	0.5512	3	0.1181	4.5	0.1772	0.10	0.0039	**679H**	**679HZZS**	—	—	—	781	374	41 000	48 000
		17	0.6693	4	0.1575	5	0.1969	0.20	0.0079	**689H**	**689HZZ**	**2RS**	—	—	1 130	531	37 000	44 000
		20	0.7874	6	0.2362	6	0.2362	0.30	0.0118	**699H**[1]	**699HZZ**	**2RS**	**2RU**	—	2 100	855	35 000	42 000
		24	0.9449	7	0.2756	7	0.2756	0.30	0.0118	**609H**[1]	**609HZZ**	**2RS**	**2RU**	—	2 850	1 150	30 000	36 000
		26	1.0236	8	0.3150	8	0.3150	0.60	0.0236	**629H**[1]	**629HZZ**	**2RS**	**2RU**	—	3 890	1 570	28 000	33 000
		30	1.1811	10	0.3937	10	0.3937	0.60	0.0236	**639H**[1]	**639HZZ**	**2RS**	—	—	4 350	1 910	25 000	30 000

(1) Open bearings have shield/seal grooves.
(2) Single-shielded/single-sealed bearings are also available; suffix Z, RS, RU or TS.
(3) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions.
Limiting speeds for the contact rubber seal(s) types can be lower than the above-mentioned values, so please check the detailed values per item on “products” section of our website.
(4) Some items are also available with the TW cage. Please contact us for details.





Abutment and fillet

Cage type[4]	Ball		Abutment and fillet dimensions								$r_{as\ (max)}$	Mass (Ref.)	
			Open				Shielded, Sealed					Open	2 Shields
	Size	Qty.	$d_{a\ (min)}$	$d_{a\ (max)}$	$D_{a\ (min)}$	$D_{a\ (max)}$	$d_{b\ (min)}$	$d_{b\ (max)}$	$D_{b\ (min)}$	$D_{b\ (max)}$			
	mm	pcs.	mm				mm				mm	g	
W	1.000	8	5.60	5.70	7.30	7.50	—	—	—	—	0.10	0.26	—
W	0.800	9	—	—	—	—	5.60	5.70	7.60	7.60	0.10	—	0.35
W	1.200	8	5.90	5.90	7.90	8.20	5.90	5.90	8.50	8.50	0.15	0.50	0.57
W	1.200	8	5.90	5.90	7.90	8.80	5.90	5.90	8.50	8.80	0.15	0.93	1.21
J	1.588	8	6.20	6.70	10.00	10.20	6.20	6.70	10.00	10.20	0.15	1.42	1.52
J	1.588	8	6.20	6.70	9.30	9.80	5.90	6.10	10.00	10.20	0.15	1.17	1.81
J	2.000	8	6.30	6.50	11.30	11.70	6.30	6.50	11.30	11.70	0.20	2.11	2.26
J	2.381	7	6.60	6.80	12.30	12.70	6.60	6.80	12.30	12.70	0.20	3.14	3.33
J	2.778	7	7.00	7.40	13.50	14.00	7.00	7.40	13.50	14.00	0.30	4.44	4.77
J	3.500	6	7.00	8.40	16.60	17.00	7.00	8.40	16.60	17.00	0.30	7.48	8.00
W	1.200	10	6.90	6.90	9.00	9.20	—	—	—	—	0.15	0.57	—
W	1.200	10	—	—	—	—	6.80	6.90	9.40	9.40	0.10	—	0.70
J	1.588	8	7.30	7.60	10.30	10.70	7.10	7.10	11.00	11.00	0.20	1.22	1.56
J	2.000	8	7.20	7.90	11.10	11.80	7.20	7.30	11.80	12.20	0.15	1.83	2.47
J	2.000	8	—	—	—	—	7.20	7.30	11.70	12.20	0.15	—	2.38
J	2.381	7	7.30	7.40	13.10	13.40	7.30	7.40	13.10	13.40	0.20	3.48	3.78
J	2.381	7	—	—	—	—	7.30	7.40	12.90	13.40	0.20	—	3.71
J	2.381	7	7.30	7.40	13.10	14.40	7.30	7.40	13.10	14.40	0.20	4.40	4.70
J	3.500	6	7.70	8.10	14.90	15.40	7.70	8.10	14.90	15.40	0.30	5.37	5.87
J	3.500	6	8.00	8.40	16.60	17.00	8.00	8.40	16.60	17.00	0.30	7.09	7.62
J	3.969	7	8.00	10.40	19.10	20.00	8.00	10.40	19.10	20.00	0.30	12.0	12.6
W	1.200	9	7.90	7.90	10.10	10.10	7.90	7.90	10.40	10.40	0.15	0.60	0.74
W	1.200	12	8.60	9.30	11.20	11.40	—	—	—	—	0.20	1.53	—
W	1.200	12	—	—	—	—	8.20	8.90	11.80	12.20	0.15	—	1.98
J	2.000	9	8.20	8.90	12.10	12.80	8.20	8.40	12.80	13.20	0.15	2.02	2.74
J	2.381	9	8.70	9.10	14.40	15.00	8.70	9.10	14.40	15.00	0.30	4.75	4.98
J	3.500	6	8.70	8.90	16.60	17.00	8.70	8.90	16.60	17.00	0.30	6.67	7.18
J	3.175	7	—	—	—	—	9.00	9.70	16.60	17.00	0.30	—	7.02
J	3.969	7	9.00	10.40	19.10	20.00	9.00	10.40	19.10	20.00	0.30	11.5	12.1
J	3.969	7	—	—	—	—	9.00	10.40	19.40	20.00	0.30	—	11.6
W	1.200	12	9.00	9.00	11.00	11.20	—	—	—	—	0.15	0.70	—
W	1.200	12	—	—	—	—	8.60	8.90	11.40	11.40	0.10	—	1.00
W	1.200	12	—	—	—	—	8.80	9.00	11.40	11.40	0.10	—	0.94
J	1.588	10	9.60	9.80	12.30	12.70	—	—	—	—	0.20	1.77	—
J	1.588	10	—	—	—	—	8.90	9.20	12.90	13.20	0.15	—	1.98
J	2.000	10	9.60	10.40	13.60	14.40	9.50	9.60	14.30	14.70	0.20	3.13	3.75
J	2.000	10	—	—	—	—	9.50	9.60	14.20	14.40	0.20	—	3.62
J	3.175	7	9.70	9.70	16.80	17.00	9.70	9.70	16.80	17.00	0.30	6.13	6.64
J	3.969	7	10.00	10.40	19.10	20.00	10.00	10.40	19.10	20.00	0.30	10.9	11.5
J	3.969	7	—	—	—	—	10.00	10.40	19.40	20.00	0.30	—	11.0
J	3.969	7	10.00	11.80	20.00	22.00	10.00	11.80	20.00	22.00	0.30	16.3	17.0
J	4.762	7	10.00	13.80	22.50	26.00	10.00	13.80	22.50	26.00	0.30	26.9	28.0
W	1.588	12	9.80	10.30	12.70	13.20	9.80	10.20	13.30	13.50	0.10	1.27	1.81
J	2.000	11	10.60	11.40	14.60	15.40	10.30	10.60	15.30	15.70	0.20	3.39	4.08
J	3.175	8	11.00	11.50	17.50	18.00	11.00	11.50	17.50	18.00	0.30	7.01	7.51
J	3.969	7	11.00	12.00	20.60	22.00	11.00	12.00	20.60	22.00	0.30	13.1	13.9
J	4.762	7	13.00	13.80	22.50	22.60	13.00	13.80	22.50	22.60	0.60	17.5	18.7
RJ	4.762	8	13.00	15.20	25.40	26.00	13.00	15.20	25.40	26.00	0.60	32.9	34.3