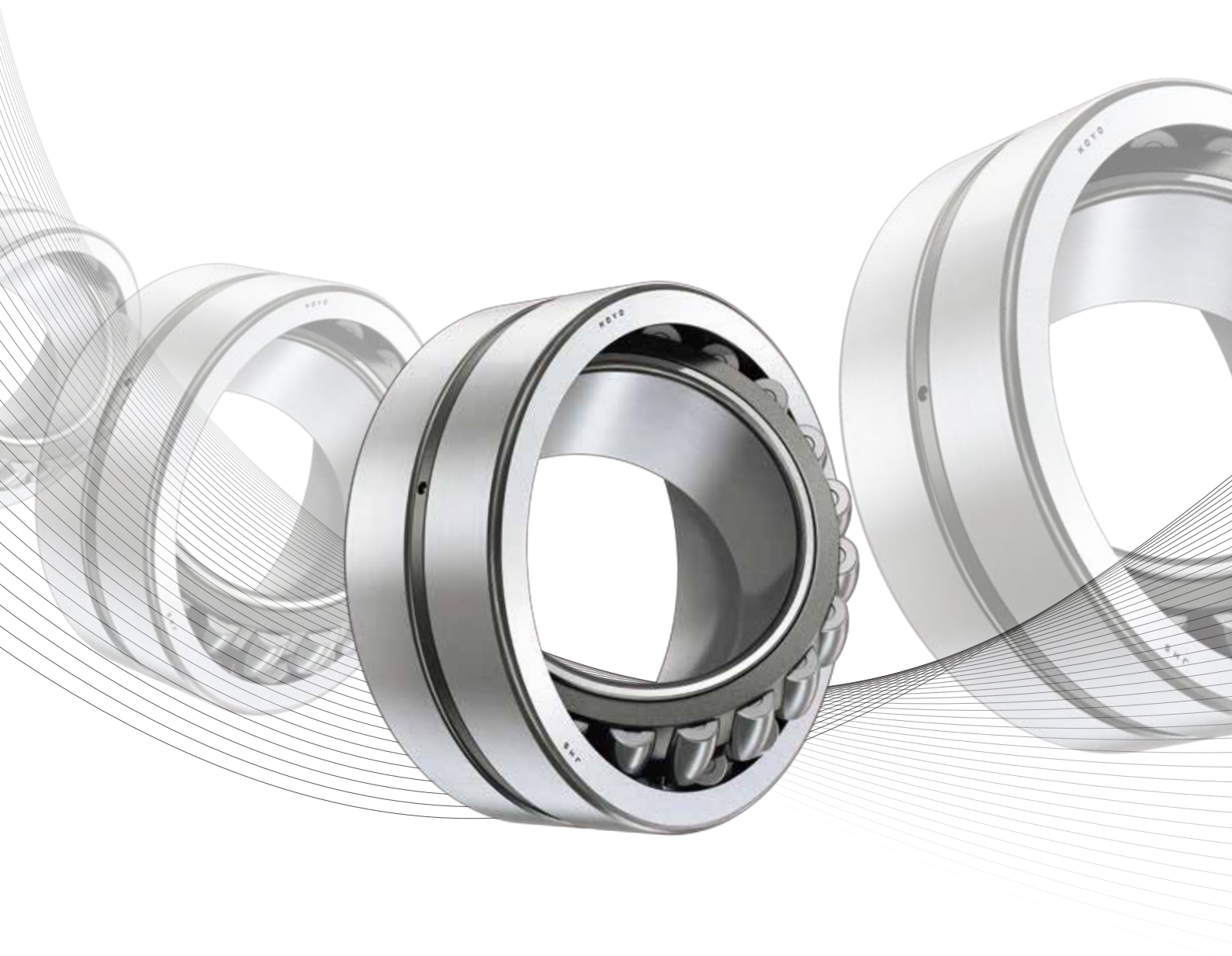


Koyo[®]

JHS Series RZ-type Spherical Roller Bearings



JTEKT

JTEKT CORPORATION

JTEKT

Koyo | **TOYODA**

CAT.NO.B2023E



***Ultrahigh-functionality bearings
for revolutionizing industrial
machinery and equipment.
This is the JHS Series.***

Aiming to ensure extremely high performance, we utilize advanced designs and processing technologies in the development of new materials.

Improved roller fatigue life. Superior toughness and corrosion resistance. Moreover, compared to other bearings, the JTEKT Hyper Strong (JHS) Series is a new-generation bearing providing unparalleled high capacity, abrasion resistance and high-speed performance.

JHS bearings support faster innovation, improvement and streamlining at manufacturing sites everywhere.





Hyper functionality worthy of the JHS Series name. New RZ-type Spherical Roller Bearing Lineup Debuts

More compact, yet same capacity. Same size, but with high speed and long life. Additionally, the load on the cooling system has been reduced. We are also responding to a variety of needs such as improving quality and productivity onsite, streamlining and saving energy.



JHS Series RZ-type Spherical Roller Bearings

Features

RZ-type Spherical Roller Bearings are the newest in our line of JHS Series Spherical Roller Bearings, joining the popular R and RH types satisfying our customers' needs to date. The bearings have an optimal internal design, excellent roller position stability and a standardized dimension stabilizing treatment that enable high-speed rotation, enhanced axial load performance, a long life and the ability to be used in high-temperature applications.

RZ-type

Features

Developed bearings have not only maximized load ratings like the RH-type, but also high speed / high performance characteristics for the axial load, like the R-type.

Structure

- Symmetrical roller
- Roller maximized / Number of rollers increased
- Roller position stabilized
- Without center guide rib (floating guide ring)



R-type

Features High speed / High performance for axial load

Structure

- Asymmetrical roller
- With center guide rib

Roller load: Balanced using three-point support

RH-type

Features High performance for radial load

Structure

- Symmetrical roller
- Without center guide rib (floating guide ring)

Roller load: Balanced using two-point support

Optimal internal design

Dynamic load rating/static load rating increased through design optimization

RZ-type compared to existing products

Dynamic load rating

Max. 1.15 times
(compared to our existing products)

Static load rating

Max. 1.30 times
(compared to our existing products)

Roller position stabilized

Controls roller behavior using optimized raceway curvature

High temperature

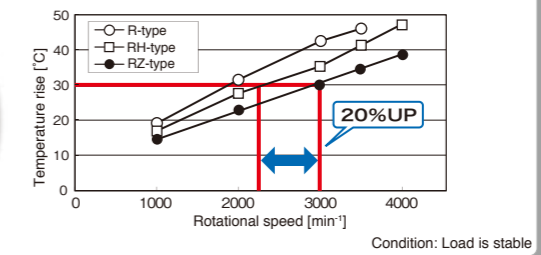
Dimension stabilizing adopted as standard treatment, realizing applicability in temperatures as high as 200°C and expanding use to a wider variety of environments.

Long life

Max. **2 times**
(compared to our existing products)

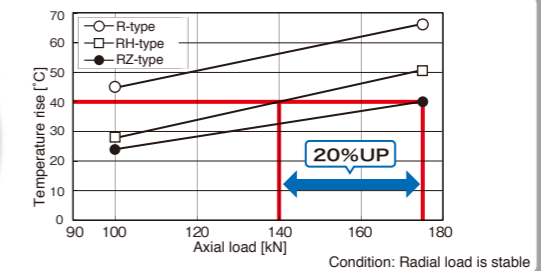
High speed

Limiting speed
Max. **25%UP**
(compared to our existing products)



High axial load performance

Max. **20%UP**
(compared to our existing products)

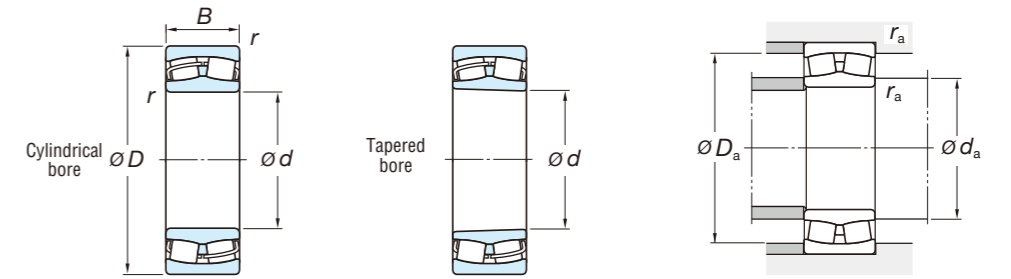


High temperature

up to **200°C**



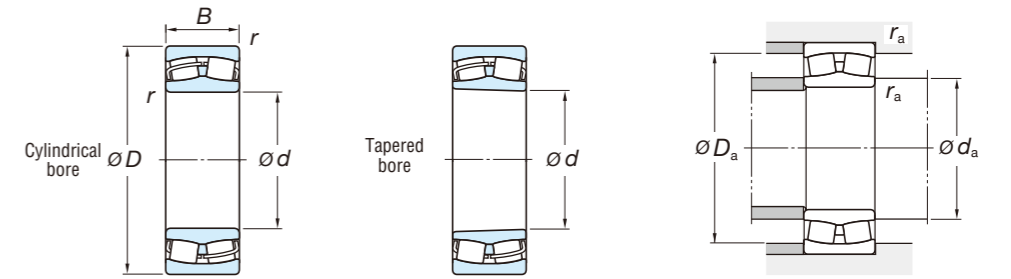
Dimensions tables of JHS Series RZ-type Spherical Roller Bearings ($\phi d25 \sim d180\text{mm}$)



$\phi d25 \sim d95\text{mm}$

Boundary dimensions (mm)				Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing no.		Mounting dimensions (mm)					Constant	Axial load factors			(Refer) Mass (kg)	
d	D	B	r min.	C_r	C_{Gr}	C_u	Grease lub.	Oil lub.	Cylindrical bore	Tapered bore	d_a		D_a		r_a max.	e	Y_1	Y_2	Y_0	Cylindrical bore	Tapered bore
											min.	max.	max.	min.							
25	52	18	1	56.8	48.1	3.90	9 600	12 800	22205RZ	22205RZK	31	31	46	46	1	0.35	1.91	2.85	1.87	0.188	0.184
30	62	20	1	76.5	65.9	5.30	8 100	10 900	22206RZ	22206RZK	36	36	56	56	1	0.33	2.04	3.04	2.00	0.296	0.29
	72	19	1.1	74.2	62.7	4.80	7 200	9 600	21306RZ	21306RZK	37	41	65	62	1	0.27	2.49	3.71	2.43	0.43	0.424
35	72	23	1.1	100	88.7	7.75	6 900	9 200	22207RZ	22207RZK	42	42	65	64	1	0.32	2.09	3.11	2.04	0.459	0.449
	80	21	1.5	87	75.8	5.90	6 200	8 300	21307RZ	21307RZK	44	46	71	69	1.5	0.27	2.49	3.71	2.43	0.572	0.564
40	80	23	1.1	114	102	9.55	6 200	8 300	22208RZ	22208RZK	47	49	73	73	1	0.28	2.37	3.53	2.32	0.602	0.591
	90	23	1.5	105	92.8	7.55	5 600	7 600	21308RZ	21308RZK	49	53	81	77	1.5	0.26	2.55	3.80	2.50	0.781	0.77
	90	33	1.5	170	152	11.8	5 600	7 600	22308RZ	22308RZK	49	51	81	79	1.5	0.37	1.83	2.72	1.79	1.08	1.06
45	85	23	1.1	120	110	10.2	5 800	7 700	22209RZ	22209RZK	52	53	78	78	1	0.26	2.55	3.80	2.50	0.602	0.59
	100	25	1.5	132	121	10.0	5 000	6 700	21309RZ	21309RZK	54	60	91	86	1.5	0.26	2.62	3.90	2.56	1.05	1.04
	100	36	1.5	208	183	13.8	5 100	6 700	22309RZ	22309RZK	54	55	91	87	1.5	0.37	1.83	2.72	1.79	1.42	1.39
50	90	23	1.1	128	122	12.7	5 400	7 200	22210RZ	22210RZK	57	58	83	83	1	0.24	2.79	4.15	2.73	0.648	0.634
	110	27	2	157	147	12.0	4 500	6 100	21310RZ	21310RZK	60	67	100	95	2	0.25	2.71	4.04	2.65	1.37	1.35
	110	40	2	255	237	17.5	4 500	6 200	22310RZ	22310RZK	60	62	100	96	2	0.36	1.85	2.76	1.81	1.92	1.88
55	100	25	1.5	155	144	15.0	4 700	6 300	22211RZ	22211RZK	64	64	91	91	1.5	0.24	2.84	4.23	2.78	0.867	0.849
	120	29	2	181	165	13.0	4 100	5 600	21311RZ	21311RZK	65	71	110	102	2	0.25	2.71	4.03	2.65	1.69	1.67
	120	43	2	295	264	21.1	4 100	5 500	22311RZ	22311RZK	65	66	110	104	2	0.36	1.85	2.76	1.81	2.4	2.35
60	110	28	1.5	191	181	18.7	4 300	5 800	22212RZ	22212RZK	69	70	101	100	1.5	0.25	2.74	4.08	2.68	1.19	1.17
	130	31	2.1	210	193	15.1	3 900	5 100	21312RZ	21312RZK	72	77	118	110	2	0.24	2.78	4.14	2.72	2.11	2.08
	130	46	2.1	354	334	24.9	3 900	5 100	22312RZ	22312RZK	72	73	118	113	2	0.36	1.86	2.77	1.82	3.06	2.99
65	120	31	1.5	223	211	20.7	4 000	5 200	22213RZ	22213RZK	74	76	111	109	1.5	0.25	2.69	4.00	2.63	1.55	1.52
	140	33	2.1	242	232	19.8	3 600	4 700	21313RZ	21313RZK	77	85	128	119	2	0.24	2.83	4.21	2.76	2.62	2.58
	140	48	2.1	382	360	30.8	3 600	4 700	22313RZ	22313RZK	77	79	128	122	2	0.34	1.98	2.94	1.93	3.66	3.58
70	125	31	1.5	233	222	24.4	3 700	5 000	22214RZ	22214RZK	79	80	116	114	1.5	0.24	2.87	4.27	2.80	1.64	1.61
	150	35	2.1	269	260	21.6	3 300	4 400	21314RZ	21314RZK	82	91	138	127	2	0.24	2.84	4.23	2.78	3.19	3.15
	150	51	2.1	434	413	35.0	3 300	4 400	22314RZ	22314RZK	82	85	138	131	2	0.34	1.98	2.94	1.93	4.45	4.36
75	130	31	1.5	241	236	28.2	3 600	4 700	22215RZ	22215RZK	84	85	121	119	1.5	0.22	3.07	4.57	3.00	1.73	1.69
	160	37	2.1	307	298	24.3	3 000	4 100	21315RZ	21315RZK	87	98	148	138	2	0.24	2.87	4.27	2.80	3.81	3.76
	160	55	2.1	492	473	38.4	3 000	4 100	22315RZ	22315RZK	87	91	148	140	2	0.35	1.95	2.90	1.91	5.45	5.33
80	140	33	2	271	271	30.5	3 300	4 400	22216RZ	22216RZK	90	92	130	128	2	0.22	3.07	4.57	3.00	2.17	2.13
	140	44.4	2	305	342	31.2	3 300	4 400	23216RZ	23216RZK	90	93	130	124	2	0.29	2.35	3.50	2.30	2.95	2.86
	170	39	2.1	344	339	27.5	2 900	3 900	21316RZ	21316RZK	92	104	158	146	2	0.23	2.88	4.29	2.82	4.53	4.47
	170	58	2.1	539	521	41.7	2 900	3 900	22316RZ	22316RZK	92	97	158	148	2	0.35	1.95	2.90	1.91	6.44	6.3
85	150	36	2	322	324	35.7	3 000	4 100	22217RZ	22217RZK	95	97	140	137	2	0.22	3.01	4.48	2.94	2.75	2.69
	150	49.2	2	358	410	36.2	3 000	4 100	23217RZ	23217RZK	95	99	140	134	2	0.30	2.25	3.34	2.20	3.78	3.67
	180	41	3	375	372	29.6	2 800	3 600	21317RZ	21317RZK	99	109	166	154	2.5	0.23	2.89	4.33	2.83	5.32	5.25
	180	60	3	601	586	47.8	2 800	3 600	22317RZ	22317RZK	99	103	166	157	2.5	0.33	2.02	3.00	1.97	7.47	7.31
90	160	40	2	373	381	39.2	2 900	3 900	22218RZ	22218RZK	100	104	150	145	2	0.24	2.79	4.15	2.73	3.5	3.43
	160	52.4	2	420	482	42.9	2 900	3 900	23218RZ	23218RZK	100	103	150	141	2	0.32	2.14	3.19	2.09	4.63	4.5
	190	43	3	413	416	32.9	2 600	3 400	21318RZ	21318RZK	104	116	176	162	2.5	0.23	2.91	4.30	2.84	6.2	6.11
	190	64	3	672	662	50.5	2 600	3 400	22318RZ	22318RZK	104	108	176	166	2.5	0.34	2.00	2.98	1.96	8.82	8.63
95	170	43	2.1	418	422	42.7	2 800	3 600	22219RZ	22219RZK	107	109	158	154	2	0.24	2.76	4.11	2.70	4.24	4.15
	170	55.6	2.1	457	516	43.9	2 800	3 600	23219RZ	23219RZK	107	110	158	150	2	0.30	2.25	3.34	2.20	5.5	5.35
	200	45	3	453	461	36.3	2 500	3 200	21319RZ	21319RZK	109	123	186	171	2.5	0.23	2.92	4.35	2.86	7.16	7.06
	200	67	3	733	726	55.6	2 500	3 200	22319RZ	22319RZK	109	114	186	174	2.5	0.33	2.02	3.00	1.97	10.2	9.98

Dimensions tables of JHS Series RZ-type Spherical Roller Bearings ($\varnothing d25 \sim d180\text{mm}$)



$\varnothing d100 \sim d180\text{mm}$

Boundary dimensions (mm)				Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing no.		Mounting dimensions (mm)					Constant	Axial load factors			(Refer) Mass (kg)	
d	D	B	r min.	C_r	C_{Or}	C_u	Grease lub.	Oil lub.	Cylindrical bore	Tapered bore	d_a		D_a		r_a max.	e	Y_1	Y_2	Y_0	Cylindrical bore	Tapered bore
											min.	max.	max.	min.							
100	150	37	1.5	262	332	33.7	2 900	3 900	23020RZ	23020RZK	109	110	141	138	1.5	0.22	3.01	4.48	2.94	2.34	2.27
	165	52	2	412	510	48.5	2 800	3 600	23120RZ	23120RZK	110	114	155	147	2	0.29	2.33	3.47	2.28	4.52	4.38
	180	46	2.1	470	481	47.6	2 600	3 400	22220RZ	22220RZK	112	115	168	163	2	0.25	2.74	4.08	2.68	5.11	5
	180	60.3	2.1	533	629	53.5	2 600	3 400	23220RZ	23220RZK	112	116	168	157	2	0.32	2.09	3.11	2.04	6.85	6.66
	215	47	3	519	524	40.2	2 200	3 000	21320RZ	21320RZK	114	131	201	184	2.5	0.22	3.02	4.49	2.95	8.79	8.68
	215	73	3	875	877	63.9	2 200	3 000	22320RZ	22320RZK	114	121	201	187	2.5	0.35	1.95	2.90	1.91	13.2	12.9
110	170	45	2	377	486	48.4	2 600	3 400	23022RZ	23022RZK	120	123	160	156	2	0.24	2.84	4.23	2.78	3.85	3.74
	170	60	2	472	647	58.6	2 600	3 600	24022RZ	24022RZK	120	120	160	151	2	0.32	2.08	3.10	2.04	5.07	4.99
	180	56	2	481	605	53.7	2 500	3 300	23122RZ	23122RZK	120	125	170	161	2	0.29	2.36	3.51	2.31	5.72	5.54
	180	69	2	566	778	63.4	2 500	3 300	24122RZ	24122RZK	120	120	170	154	2	0.37	1.84	2.74	1.80	6.98	6.87
	200	53	2.1	613	642	58.7	2 300	3 000	22222RZ	22222RZK	122	127	188	180	2	0.26	2.64	3.93	2.58	7.37	7.21
	200	69.8	2.1	672	792	65.4	2 300	3 000	23222RZ	23222RZK	122	127	188	173	2	0.34	1.99	2.96	1.94	9.76	9.48
	240	50	3	604	616	46.0	1 900	2 600	21322RZ	21322RZK	124	147	226	205	2.5	0.21	3.19	4.75	3.12	11.8	11.7
240	80	3	1 040	1 040	77.7	1 900	2 600	22322RZ	22322RZK	124	136	226	208	2.5	0.33	2.03	3.02	1.98	18.1	17.7	
120	180	46	2	392	524	51.6	2 300	3 200	23024RZ	23024RZK	130	132	170	165	2	0.23	2.95	4.40	2.89	4.2	4.07
	180	60	2	482	709	61.8	2 300	3 200	24024RZ	24024RZK	130	130	170	160	2	0.30	2.23	3.32	2.18	5.43	5.34
	200	62	2	568	714	61.2	2 200	3 000	23124RZ	23124RZK	130	137	190	176	2	0.29	2.34	3.49	2.29	7.98	7.74
	200	80	2	730	1 020	78.6	2 200	3 000	24124RZ	24124RZK	130	133	190	172	2	0.38	1.75	2.61	1.72	10.2	10
	215	58	2.1	707	764	67.2	2 100	2 800	22224RZ	22224RZK	132	138	203	193	2	0.26	2.60	3.87	2.54	9.31	9.1
	215	76	2.1	771	956	78.9	2 100	2 900	23224RZ	23224RZK	132	139	203	185	2	0.34	1.97	2.94	1.93	12.2	11.8
	260	86	3	1 120	1 130	87.2	1 800	2 500	22324RZ	22324RZK	134	149	246	228	2.5	0.33	2.03	3.02	1.98	22.8	22.3
130	200	52	2	506	674	63.6	2 200	2 900	23026RZ	23026RZK	140	145	190	182	2	0.24	2.87	4.27	2.80	6.15	5.97
	200	69	2	621	914	77.3	2 200	2 900	24026RZ	24026RZK	140	143	190	177	2	0.32	2.14	3.18	2.09	8.03	7.9
	210	64	2	618	799	68.4	2 100	2 800	23126RZ	23126RZK	140	147	200	187	2	0.28	2.42	3.61	2.37	8.71	8.44
	210	80	2	750	1 080	91.8	2 100	2 800	24126RZ	24126RZK	140	145	200	184	2	0.36	1.90	2.83	1.86	10.8	10.6
	230	64	3	822	914	74.4	1 900	2 600	22226RZ	22226RZK	144	148	216	206	2.5	0.26	2.55	3.80	2.50	11.6	11.3
	230	80	3	878	1 090	89.4	1 900	2 600	23226RZ	23226RZK	144	151	216	201	2.5	0.33	2.05	3.05	2.00	14.4	14
	280	93	4	1 310	1 340	98.6	1 700	2 200	22326RZ	22326RZK	148	160	262	245	3	0.33	2.03	3.02	1.98	28.5	27.9
140	210	53	2	527	723	67.9	2 100	2 800	23028RZ	23028RZK	150	155	200	192	2	0.23	2.98	4.44	2.92	6.62	6.42
	210	69	2	636	957	81.7	2 100	2 800	24028RZ	24028RZK	150	153	200	188	2	0.30	2.28	3.39	2.23	8.49	8.35
	225	68	2.1	706	940	79.6	1 900	2 600	23128RZ	23128RZK	152	158	213	201	2	0.28	2.45	3.65	2.40	10.6	10.3
	225	85	2.1	849	1 220	90.7	1 900	2 600	24128RZ	24128RZK	152	153	213	194	2	0.36	1.89	2.82	1.85	13.1	12.9
	250	68	3	948	1 030	85.2	1 800	2 300	22228RZ	22228RZK	154	158	236	224	2.5	0.26	2.60	3.87	2.54	14.5	14.2
	250	88	3	1 010	1 290	103	1 800	2 300	23228RZ	23228RZK	154	161	236	214	2.5	0.34	1.99	2.96	1.95	19	18.4
150	225	56	2.1	576	797	76.3	1 900	2 500	23030RZ	23030RZK	162	166	213	205	2	0.22	3.04	4.53	2.97	8.01	7.77
	225	75	2.1	720	1 100	90.3	1 900	2 500	24030RZ	24030RZK	162	163	213	199	2	0.30	2.23	3.32	2.18	10.6	10.4
	250	80	2.1	897	1 230	102	1 800	2 300	23130RZ	23130RZK	162	171	238	216	2	0.30	2.24	3.34	2.19	16.4	15.9
	250	100	2.1	1 100	1 590	116	1 800	2 300	24130RZ	24130RZK	162	166	238	213	2	0.38	1.77	2.64	1.73	19.9	19.6
	270	73	3	1 080	1 200	102	1 700	2 200	22230RZ	22230RZK	164	172	256	243	2.5	0.25	2.69	4.00	2.63	18.9	18.5
	270	96	3	1 200	1 540	121	1 700	2 200	23230RZ	23230RZK	164	173	256	230	2.5	0.34	1.96	2.93	1.92	24.5	23.8
160	240	60	2.1	663	924	86.0	1 800	2 300	23032RZ	23032RZK	172	177	228	219	2	0.22	3.01	4.48	2.94	9.74	9.44
	240	80	2.1	825	1 270	103	1 800	2 300	24032RZ	24032RZK	172	175	228	215	2	0.30	2.24	3.34	2.19	12.9	12.7
	270	86	2.1	1 060	1 430	117	1 700	2 200	23132RZ	23132RZK	172	182	258	234	2	0.30	2.22	3.30	2.17	20.8	20.2
170	260	67	2.1	790	1 090	97.9	1 700	2 200	23034RZ	23034RZK	182	189	248	236	2	0.23	2.90	4.31	2.83	13.2	12.8
	260	90	2.1	1 000	1 540	120	1 700	2 200	24034RZ	24034RZK	182	184	248	227	2	0.32	2.11	3.15	2.07	17.5	17.2
	280	88	2.1	1 150	1 550	124	1 500	2 100	23134RZ	23134RZK	182	194	268	249	2	0.29	2.30	3.43	2.25	21.9	21.2
180	280	74	2.1	960	1 330	118	1 500	1 900	23036RZ	23036RZK	192	202	268	253	2	0.24	2.84	4.23	2.78	17.4	16.9

OFFICES

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