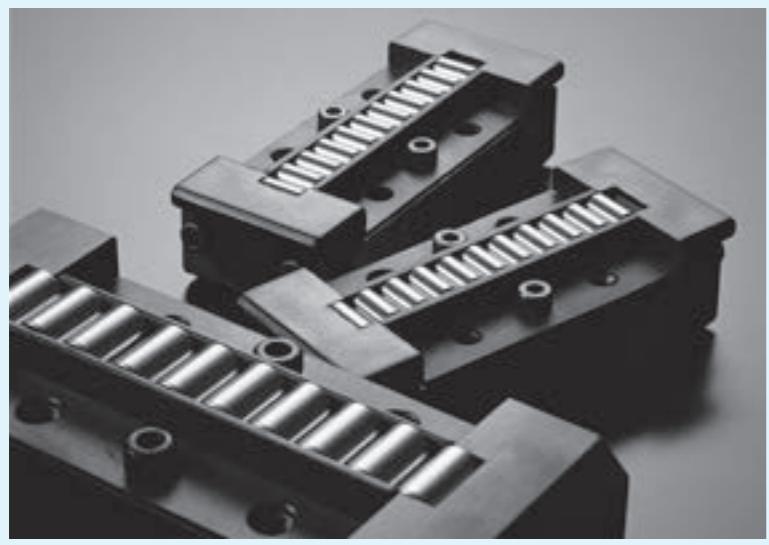


General Explanation



Load Rating and Life

Life of linear motion rolling guides

Even in normal operational status, a linear motion rolling guide will reach the end of its life after a certain period of operations. As repeated load is constantly applied onto a raceway and rolling elements of the linear motion rolling guide, this leads to leprosous damage (scale-like wear fragments) called fatigue flaking due to rolling contact fatigue of materials, it will be unusable at the end. Total traveling distance before occurrence of this fatigue flaking on a raceway or rolling elements is called the life of linear motion rolling guide.

As the life of linear motion rolling guide may vary depending on material fatigue phenomenon, rating life based on statistic calculation is used.

Rating life

Rating life of linear motion rolling guide refers to the total traveling distance ⁽¹⁾ 90% of a group of the same linear motion rolling guide can operate without linear motion rolling guide material damages due to rolling contact fatigue when they are operated individually under the same conditions.

Note ⁽¹⁾ Stroke Rotary Bushing is represented as total number of rotations.

Basic dynamic load rating C

Basic dynamic load rating refers to load with certain direction and size that is logically endurable for rating life indicated in Table 1 when a group of the same linear motion rolling guides is operated individually under the same conditions.

Table 1 Load rating

Series	Rating life
Crossed Roller Way Roller Way & Flat Roller Cage	100×10^3 m
Linear Slide Unit Linear Ball Spline Linear Bushing	50×10^3 m
Stroke Rotary Bushing	10^6 rotations

Basic static load rating C_0

Basic static load rating refers to static load generating a certain contact stress at the center of contact parts of the rolling elements and a raceway under maximum load, which is the load at the allowable limit for normal rolling motion. Generally, it is used considering static safety factor.

Allowable load F

Allowable load refers to load of smooth rolling motion on contact surface to which maximum contact stress is applied and the sum of whose elastic deformation of rolling elements and raceway is small.

Therefore, use applied load within the allowable load range if very smooth rolling motion and high accuracy are required.

Dynamic torque rating T

Dynamic torque rating refers to a torque with a certain direction and size with which 90% of a group of the same linear ball splines can run 50×10^3 m without material damages due to rolling contact fatigue when they are operated individually.

Static torque rating T_0

Static moment rating T_o, T_x, T_y

Static torque rating and static moment rating refer to static torque or moment load generating a certain level of contact stress at the center of contact parts of rolling elements and a raceway under the maximum load when the torque or moment load (see Fig. 1) are loaded, which is the torque or moment load at the allowable limit for normal rolling motion. Generally, it is used considering static safety factor.

Load direction and load rating

Linear motion rolling guide is used with its load rating corrected in accordance to the load direction. Basic dynamic load rating and basic static load rating indicated in the dimension table should be corrected before use. As the values to be corrected vary depending on series, please see an explanation for each series.

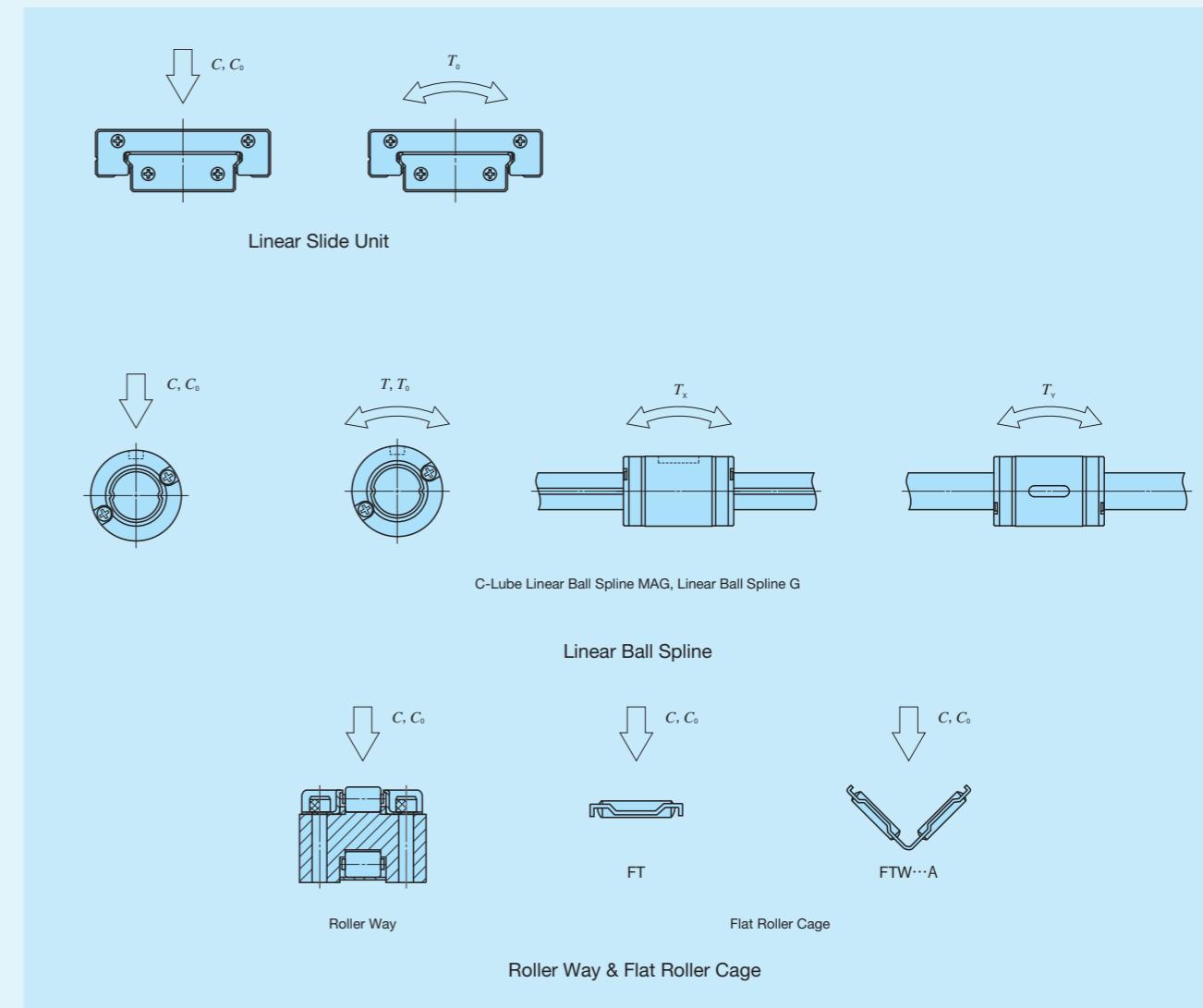


Fig. 1 Direction of load rating, torque rating, and moment load

Remark: For the cases of Crossed Roller Way and Linear Bushing, see an explanation of each series.

Precaution for Use

Cleaning and removing fat

Never clean a linear motion rolling guide that has integrated C-lube with organic solvents or white kerosene with fat removing properties.

Precautions regarding oil components

Rust prevention oil or grease is used for the linear motion rolling guide. Therefore, oil may drip or spatter depending on the operating conditions. Consider installing a shielding plate if necessary.

Storage

Store the linear motion rolling guide horizontally indoors in the IKO packing and packaging provided. Avoid high temperature, low temperature and high humidity. In products pre-packed with lubricant, the lubricant will deteriorate over time if products are stored for a long time. Be sure to reapply lubricant before use.

Statements

Unit Conversion Rate Table

SI, CGS series and gravity system unit cross-reference table

Amount Unit system	Length	Mass	Time	Acceleration	Force	Stress and pressure
SI	m	kg	s	m/s^2	N	Pa
CGS series	cm	g	s	Gal	dyn	dyn/cm ²
Gravity system	m	kgf·s ² /m	s	m/s^2	kgf	kgf/m ²

SI unit conversion

Amount	Unit name	Code	SI conversion rate	SI unit name	Code		
Angle	D	°	$\pi/180$	Radian	rad		
	Min	'	$\pi/10\ 800$				
	Sec	"	$\pi/648\ 000$				
Length	Meter	m	1	Meter	m		
	Micron	μ	10^{-6}				
	Angstrom	Å	10^{-10}				
	X ray unit	$\approx 1.002\ 08 \times 10^{-13}$					
	Nautical mile	n mile	1852				
Area	Square meter	m^2	1	Square meter	m^2		
	Are	a	10^2				
	Hectare	ha	10^4				
Volume	Cubic meter	m^3	1	Cubic meter	m^3		
	Liter	l, L	10^{-3}				
Mass	Kilogram	kg	1	Kilogram	kg		
	Ton	t	10^3				
	Atomic mass unit	u	$\approx 1.660\ 57 \times 10^{-27}$				
Time	Sec	s	1	Sec	s		
	Min	min	60				
	Hr	h	3 600				
	Day	d	86 400				
Velocity	Meter per second	m/s	1	Meter per second	m/s		
	Knot	kn	$1\ 852/3\ 600$				
Frequency and vibration	Number of cycle	s^{-1}	1	Hertz	Hz		
Number of rotations	Rotation per minute	min^{-1}	1/60	Per second	s^{-1}		
Angular velocity	Radian per second	rad/s	1	Radian per second	rad/s		
Acceleration	Meter per second	m/s^2	1	Meter per second	m/s^2		
	G	G	9.806 65				
Force	Weight in kg	kgf	9.806 65	Newton	N		
	Weight in ton	tf	9.806 65				
	Dyne	dyn	10^{-5}				
Force moment load	Weight in kg meter	$kgf \cdot m$	9.806 65	Newton meter	$N \cdot m$		
Stress and pressure	Weight in kg per square meter	kgf/m^2	9.806 65	Pascal	Pa		
	Weight in kg per square cm	kgf/cm^2	$9.806\ 65 \times 10^4$				
	Weight in kg per square mm	kgf/mm^2	$9.806\ 65 \times 10^6$				

Energy	Power	Temperature	Viscosity	Kinetic viscosity	Flux	Flux density	Magnetic field intensity
J	W	K	$Pa \cdot s$	m^2/s	Wb	T	A/m
erg	erg/s	°C	P	St	Mx	Gs	Oe
kgf·m	kgf·m/s	°C	$kgf \cdot s/m^2$	m^2/s	—	—	—

Amount	Unit name	Code	SI conversion rate	SI unit name	Code
Pressure	Meter water column	mH_2O	9 806.65	Pascal	Pa
	millimeter of mercury column	mmHg	101 325/760		
	Torr	Torr	101 325/760		
Energy	Air pressure	atm	101 325	Joule	J
	Bar	bar	10^5		
	Erg	erg	10^{-7}		
	IT calorie	cal _{IT}	4.186 8		
	Weight in kg meter	$kgf \cdot m$	9.806 65		
Power and motivity	Kilowatt per hour	kW·h	3.600×10^6	Watt	W
	French horse-power per hour	PS·h	$\approx 2.647\ 79 \times 10^6$		
	Electron volt	eV	$\approx 1.602\ 19 \times 10^{-19}$		
Viscosity	Watt	W	1	Watt	W
	French horse-power	PS	≈ 735.5		
	Weight in kg meter per second	$kgf \cdot m/s$	9.806 65		
Kinetic viscosity	Poise	P	10^{-1}	Pascal second	Pa·s
	Centipoise	cP	10^{-3}		
	Weight in kg second per square meter	$kgf \cdot s/m^2$	9.806 65		
Temperature	Stokes	St	10^{-4}	Square meter per second	m^2/s
Radioactivity	Centistokes	cSt	10^{-6}		
	D	°C	+273.15	Kelvin	K
	Curie	Ci	3.7×10^{10}	Becquerel	Bq
Exposure radiation dose	Roentgen	R	2.58×10^{-4}	Coulomb per kg	C/kg
	Rad	rad	10^{-2}	Gray	Gy
	Rem	rem	10^{-2}	Sievert	Sv
Flux	Maxwell	Mx	10^{-8}	Weber	Wb
Flux density	Gamma	γ	10^{-9}	Tesla	T
	Gauss	Gs	10^{-4}		
Magnetic field intensity	Oersted	Oe	$10^{3/4} \pi$	Ampere per meter	A/m
Electric charge	Coulomb	C	1	Coulomb	C
	Volt	V	1	Volt	V
Capacitance	Farad	F	1	Farad	F
	Ohm	Ω	1	Ohm	Ω
	Siemens	S	1	Siemens	S
Resistance	Henry	H	1	Henry	H
	Ampere	A	1	Ampere	A

Inch-mm Conversion Table

1 inch=25.4mm

inch		0"	1"	2"	3"	4"	5"	6"	7"	8"
Fractional number	Decimal number									
1 / 64"	0.015625	0.397	25.400	50.800	76.200	101.600	127.000	152.400	177.800	203.200
1 / 32"	0.031250	0.794	25.797	51.197	76.597	101.997	127.397	152.797	178.197	203.597
3 / 64"	0.046875	1.191	26.591	51.991	77.391	102.791	128.191	153.591	178.991	204.391
1 / 16"	0.062500	1.588	26.988	52.388	77.788	103.188	128.588	153.988	179.388	204.788
5 / 64"	0.078125	1.984	27.384	52.784	78.184	103.584	128.984	154.384	179.784	205.184
3 / 32"	0.093750	2.381	27.781	53.181	78.581	103.981	129.381	154.781	180.181	205.581
7 / 64"	0.109375	2.778	28.178	53.578	78.978	104.378	129.778	155.178	180.578	205.978
1 / 8"	0.125000	3.175	28.575	53.975	79.375	104.775	130.175	155.575	180.975	206.375
9 / 64"	0.140625	3.572	28.972	54.372	79.772	105.172	130.572	155.972	181.372	206.772
5 / 32"	0.156250	3.969	29.369	54.769	80.169	105.569	130.969	156.369	181.769	207.169
11 / 64"	0.171875	4.366	29.766	55.166	80.566	105.966	131.366	156.766	182.166	207.566
3 / 16"	0.187500	4.762	30.162	55.562	80.962	106.362	131.762	157.162	182.562	207.962
13 / 64"	0.203125	5.159	30.559	55.959	81.359	106.759	132.159	157.559	182.959	208.359
7 / 32"	0.218750	5.556	30.956	56.356	81.756	107.156	132.556	157.956	183.356	208.756
15 / 64"	0.234375	5.953	31.353	56.753	82.153	107.553	132.953	158.353	183.753	209.153
1 / 4"	0.250000	6.350	31.750	57.150	82.550	107.950	133.350	158.750	184.150	209.550
17 / 64"	0.265625	6.747	32.147	57.547	82.947	108.347	133.747	159.147	184.547	209.947
9 / 32"	0.281250	7.144	32.544	57.944	83.344	108.744	134.144	159.544	184.944	210.344
19 / 64"	0.296875	7.541	32.941	58.341	83.741	109.141	134.541	159.941	185.341	210.741
5 / 16"	0.312500	7.938	33.338	58.738	84.138	109.538	134.938	160.338	185.738	211.138
21 / 64"	0.328125	8.334	33.734	59.134	84.534	109.934	135.334	160.734	186.134	211.534
11 / 32"	0.343750	8.731	34.131	59.531	84.931	110.331	135.731	161.131	186.531	211.931
23 / 64"	0.359375	9.128	34.528	59.928	85.328	110.728	136.128	161.528	186.928	212.328
3 / 8"	0.375000	9.525	34.925	60.325	85.725	111.125	136.525	161.925	187.325	212.725
25 / 64"	0.390625	9.922	35.322	60.722	86.122	111.522	136.922	162.322	187.722	213.122
13 / 32"	0.406250	10.319	35.719	61.119	86.519	111.919	137.319	162.719	188.119	213.519
27 / 64"	0.421875	10.716	36.116	61.516	86.916	112.316	137.716	163.116	188.516	213.916
7 / 16"	0.437500	11.112	36.512	61.912	87.312	112.712	138.112	163.512	188.912	214.312
29 / 64"	0.453125	11.509	36.909	62.309	87.709	113.109	138.509	163.909	189.309	214.709
15 / 32"	0.468750	11.906	37.306	62.706	88.106	113.506	138.906	164.306	189.706	215.106
31 / 64"	0.484375	12.303	37.703	63.103	88.503	113.903	139.303	164.703	190.103	215.503
1 / 2"	0.500000	12.700	38.100	63.500	88.900	114.300	139.700	165.100	190.500	215.900

inch		0"	1"	2"	3"	4"	5"	6"	7"	8"
Fractional number	Decimal number									
33 / 64"	0.515625	13.097	38.497	63.897	89.297	114.697	140.097	165.497	190.897	216.297
17 / 32"	0.531250	13.494	38.894	64.294	89.694	115.094	140.494	165.894	191.294	216.694
35 / 64"	0.546875	13.891	39.291	64.691	90.091	115.491	140.891	166.291	191.691	217.091
9 / 16"	0.562500	14.288	39.688	65.088	90.488	115.888	141.288	166.688	192.088	217.488
37 / 64"	0.578125	14.684	40.084	65.484	90.884	116.284	141.684	167.084	192.484	217.884
19 / 32"	0.593750	15.081	40.481	65.881	91.281	116.681	142.081	167.481	192.881	218.281
39 / 64"	0.609375	15.478	40.878	66.278	91.678	117.078	142.478	167.878	193.278	218.678
5 / 8"	0.625000	15.875	41.275	66.675	92.075	117.475	142.875	168.275	193.675	219.075
41 / 64"	0.640625	16.272	41.672	67.072	92.472	117.872	143.272	168.672	194.072	219.472
21 / 32"	0.656250	16.669	42.069	67.469	92.869	118.269	143.669	169.069	194.469	219.869
43 / 64"	0.671875	17.066	42.466	67.866	93.266	118.666	144.066	169.466	194.866	220.266
11 / 16"	0.687500	17.462	42.862	68.262	93.662	119.062	144.462	169.862	195.262	220.662
45 / 64"	0.703125	17.859	43.259	68.659	94.059	119.459	144.859	170.259	195.659	221.059
23 / 32"	0.718750	18.256	43.656	69.056	94.456	119.856	145.256	170.656	196.056	221.456
47 / 64"	0.734375	18.653	44.053	69.453	94.853	120.253	145.653	171.053	196.453	221.853
3 / 4"	0.750000	19.050	44.450	69.850	95.250	120.650	146.050	171.450	196.850	222.250
49 / 64"	0.765625	19.447	44.847	70.247	95.647	121.047	146.447	171.847	197.247	222.647
25 / 32"	0.781250	19.844	45.244	70.644	96.044	121.444	146.844	172.244	197.644	223.044
51 / 64"	0.796875	20.241	45.641	71.041	96.441	121.841	147.241	172.641	198.041	223.441
13 / 16"	0.81									

● Hardness Conversion Table (Reference)

Rockwell C scale hardness Load 1471N	Vickers hardness HRC	Brinell hardness		Rockwell hardness		Shore hardness HS
		Standard ball	Tungsten Carbide ball	A scale	B scale	
				Load 588.4N Diamond circular cone	Load 980.7N Diameter $\frac{1}{16}$ in ball	
68	940	—	—	85.6	—	97
67	900	—	—	85.0	—	95
66	865	—	—	84.5	—	92
65	832	—	(739)	83.9	—	91
64	800	—	(722)	83.4	—	88
63	772	—	(705)	82.8	—	87
62	746	—	(688)	82.3	—	85
61	720	—	(670)	81.8	—	83
60	697	—	(654)	81.2	—	81
59	674	—	(634)	80.7	—	80
58	653	—	615	80.1	—	78
57	633	—	595	79.6	—	76
56	613	—	577	79.0	—	75
55	595	—	560	78.5	—	74
54	577	—	543	78.0	—	72
53	560	—	525	77.4	—	71
52	544	(500)	512	76.8	—	69
51	528	(487)	496	76.3	—	68
50	513	(475)	481	75.9	—	67
49	498	(464)	469	75.2	—	66
48	484	451	455	74.7	—	64
47	471	442	443	74.1	—	63
46	458	432	432	73.6	—	62
45	446	421	421	73.1	—	60
44	434	409	409	72.5	—	58
43	423	400	400	72.0	—	57
42	412	390	390	71.5	—	56
41	402	381	381	70.9	—	55
40	392	371	371	70.4	—	54
39	382	362	362	69.9	—	52

Rockwell C scale hardness Load 1471N	Vickers hardness HRC	Brinell hardness		Rockwell hardness		Shore hardness HS
		Standard ball	Tungsten Carbide ball	A scale	B scale	
				Load 588.4N Diamond circular cone	Load 980.7N Diameter $\frac{1}{16}$ in ball	
38	372	353	353	69.4	—	51
37	363	344	344	68.9	—	50
36	354	336	336	68.4	(109.0)	49
35	345	327	327	67.9	(108.5)	48
34	336	319	319	67.4	(108.0)	47
33	327	311	311	66.8	(107.5)	46
32	318	301	301	66.3	(107.0)	44
31	310	294	294	65.8	(106.0)	43
30	302	286	286	65.3	(105.5)	42
29	294	279	279	64.7	(104.5)	41
28	286	271	271	64.3	(104.0)	41
27	279	264	264	63.8	(103.0)	40
26	272	258	258	63.3	(102.5)	38
25	266	253	253	62.8	(101.5)	38
24	260	247	247	62.4	(101.0)	37
23	254	243	243	62.0	100.0	36
22	248	237	237	61.5	99.0	35
21	243	231	231	61.0	98.5	35
20	238	226	226	60.5	97.8	34
(18)	230	219	219	—	96.7	33
(16)	222	212	212	—	95.5	32
(14)	213	203	203	—	93.9	31
(12)	204	194	194	—	92.3	29
(10)	196	187	187	—	90.7	28
(8)	188	179	179	—	89.5	27
(6)	180	171	171	—	87.1	26
(4)	173	165	165	—	85.5	25
(2)	166	158	158	—	83.5	24
(0)	160	152	152	—	81.7	24

Tolerances of Shaft Dimensions

Classification of diameter mm		b12		c12		d6		e6		e12		f5		f6		g5	
Above	Below	H	L	H	L	H	L	H	L	H	L	H	L	H	L		
-	3	-140	-240	-60	-160	-20	-26	-14	-20	-14	-114	-6	-10	-6	-12	-2	-6
3	6	-140	-260	-70	-190	-30	-38	-20	-28	-20	-140	-10	-15	-10	-18	-4	-9
6	10	-150	-300	-80	-230	-40	-49	-25	-34	-25	-175	-13	-19	-13	-22	-5	-11
10	18	-150	-330	-95	-275	-50	-61	-32	-43	-32	-212	-16	-24	-16	-27	-6	-14
18	30	-160	-370	-110	-320	-65	-78	-40	-53	-40	-250	-20	-29	-20	-33	-7	-16
30	40	-170	-420	-120	-370	-80	-96	-50	-66	-50	-300	-25	-36	-25	-41	-9	-20
40	50	-180	-430	-130	-380	-80	-96	-50	-66	-50	-300	-25	-36	-25	-41	-9	-20
50	65	-190	-490	-140	-440	-100	-119	-60	-79	-60	-360	-30	-43	-30	-49	-10	-23
65	80	-200	-500	-150	-450	-100	-119	-60	-79	-60	-360	-30	-43	-30	-49	-10	-23
80	100	-220	-570	-170	-520	-120	-142	-72	-94	-72	-422	-36	-51	-36	-58	-12	-27
100	120	-240	-590	-180	-530	-120	-142	-72	-94	-72	-422	-36	-51	-36	-58	-12	-27
120	140	-260	-660	-200	-600	-145	-170	-85	-110	-85	-485	-43	-61	-43	-68	-14	-32
140	160	-280	-680	-210	-610	-145	-170	-85	-110	-85	-485	-43	-61	-43	-68	-14	-32
160	180	-310	-710	-230	-630	-170	-199	-100	-129	-100	-560	-50	-70	-50	-79	-15	-35
180	200	-340	-800	-240	-700	-170	-199	-100	-129	-100	-560	-50	-70	-50	-79	-15	-35
200	225	-380	-840	-260	-720	-170	-199	-100	-129	-100	-560	-50	-70	-50	-79	-15	-35
225	250	-420	-880	-280	-740	-190	-222	-110	-142	-110	-630	-56	-79	-56	-88	-17	-40
250	280	-480	-1000	-300	-820	-190	-222	-110	-142	-110	-630	-56	-79	-56	-88	-17	-40
280	315	-540	-1060	-330	-850	-190	-222	-110	-142	-110	-630	-56	-79	-56	-88	-17	-40
315	355	-600	-1170	-360	-930	-210	-246	-125	-161	-125	-695	-62	-87	-62	-98	-18	-43
355	400	-680	-1250	-400	-970	-210	-246	-125	-161	-125	-695	-62	-87	-62	-98	-18	-43
400	450	-760	-1390	-440	-1070	-230	-270	-135	-175	-135	-765	-68	-95	-68	-108	-20	-47
450	500	-840	-1470	-480	-1110	-230	-270	-135	-175	-135	-765	-68	-95	-68	-108	-20	-47

Classification of diameter mm		g6		h5		h6		h7		h8		h9		h10		h11		Classification of diameter mm	
Above	Below	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	Above	Below
-2	-8	0	-4	0	-6	0	-10	0	-14	0	-25	0	-40	0	-60	0	-3	3	
-4	-12	0	-5	0	-8	0	-12	0	-18	0	-30	0	-48	0	-75	0	6	6	
-5	-14	0	-6	0	-9	0	-15	0	-22	0	-36	0	-58	0	-90	0	10	10	
-6	-17	0	-8	0	-11	0	-18	0	-27	0	-43	0	-70	0	-110	0	18	18	
-7	-20	0	-9	0	-13	0	-21	0	-33	0	-52	0	-84	0	-130	0	30	30	
-9	-25	0	-11	0	-16	0	-25	0	-39	0	-62	0	-100	0	-160	0	40	40	
-10	-29	0	-13	0	-19	0	-30	0	-46	0	-74	0	-120	0	-190	0	50	50	
-12	-34	0	-15	0	-22	0	-35	0	-54	0	-87	0	-140	0	-220	0	100	100	
-14	-39	0	-18	0	-25	0	-40	0	-63	0	-100	0	-160	0	-250	0	140	140	
-15	-44	0	-20	0	-29	0	-46	0	-72	0	-115	0	-185	0	-290	0	200	200	
-17	-49	0	-23	0	-32	0	-52	0	-81	0	-130	0	-210	0	-320	0	250	250	
-18	-54	0	-25	0	-36	0	-57	0	-89	0	-140	0	-230	0	-360	0	315	315	
-20	-60	0	-27	0	-40	0	-63	0	-97	0	-155	0	-250	0	-400	0	450	450	

Classification of diameter mm		h12		js5		j5		js6		j6		j7		k5		k6	
Above	Below	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L
-	3	0	-100	+2	-2	+2	-2	+3	-3	+4	-2	+6	-4	+4	0	+6	0
3	6	0	-120	+2.5	-2.5	+3	-2	+4	-4	+6	-2	+8	-4	+6	+1	+9	+1
6	10	0	-150	+3	-3	+4	-2	+4.5	-4.5	+7	-2	+10	-5	+7	+1	+10	+1
10	18	0	-180	+4	-4	+5	-3	+5.5	-5.5	+8	-3	+12	-6	+9	+1	+12	+1
18	30	0	-210	+4.5	-4.5	+5</td											

● Tolerances of Housing Hole Dimensions

Classification of diameter mm		B12		E7		E11		E12		F6		F7		G6		G7	
Above	Below	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L
—	3	+ 240	+140	+ 24	+ 14	+ 74	+ 14	+114	+ 14	+ 12	+ 6	+ 16	+ 6	+ 8	+ 2	+12	+ 2
3	6	+ 260	+140	+ 32	+ 20	+ 95	+ 20	+140	+ 20	+ 18	+ 10	+ 22	+ 10	+ 12	+ 4	+16	+ 4
6	10	+ 300	+150	+ 40	+ 25	+115	+ 25	+175	+ 25	+ 22	+ 13	+ 28	+ 13	+ 14	+ 5	+20	+ 5
10	18	+ 330	+150	+ 50	+ 32	+142	+ 32	+212	+ 32	+ 27	+ 16	+ 34	+ 16	+ 17	+ 6	+24	+ 6
18	30	+ 370	+160	+ 61	+ 40	+170	+ 40	+250	+ 40	+ 33	+ 20	+ 41	+ 20	+ 7	+28	+ 7	
30	40	+ 420	+170	+ 75	+ 50	+210	+ 50	+300	+ 50	+ 41	+ 25	+ 50	+ 25	+ 25	+ 9	+34	+ 9
40	50	+ 430	+180	+ 80	+ 55	+210	+ 55	+300	+ 55	+ 41	+ 25	+ 50	+ 25	+ 25	+ 9	+34	+ 9
50	65	+ 490	+190	+ 90	+ 60	+250	+ 60	+360	+ 60	+ 49	+ 30	+ 60	+ 30	+ 29	+ 10	+40	+ 10
65	80	+ 500	+200	+ 95	+ 65	+250	+ 65	+360	+ 65	+ 49	+ 30	+ 60	+ 30	+ 29	+ 10	+40	+ 10
80	100	+ 570	+220	+107	+ 72	+292	+ 72	+422	+ 72	+ 58	+ 36	+ 71	+ 36	+ 34	+ 12	+47	+ 12
100	120	+ 590	+240	+107	+ 72	+292	+ 72	+422	+ 72	+ 58	+ 36	+ 71	+ 36	+ 34	+ 12	+47	+ 12
120	140	+ 660	+260	+125	+ 85	+335	+ 85	+485	+ 85	+ 68	+ 43	+ 83	+ 43	+ 39	+ 14	+54	+ 14
140	160	+ 680	+280	+125	+ 85	+335	+ 85	+485	+ 85	+ 68	+ 43	+ 83	+ 43	+ 39	+ 14	+54	+ 14
160	180	+ 710	+310	+125	+ 85	+335	+ 85	+485	+ 85	+ 68	+ 43	+ 83	+ 43	+ 39	+ 14	+54	+ 14
180	200	+ 800	+340	+146	+100	+390	+100	+560	+100	+ 79	+ 50	+ 96	+ 50	+ 44	+ 15	+61	+ 15
200	225	+ 840	+380	+146	+100	+390	+100	+560	+100	+ 79	+ 50	+ 96	+ 50	+ 44	+ 15	+61	+ 15
225	250	+ 880	+420	+162	+110	+430	+110	+630	+110	+ 88	+ 56	+108	+ 56	+ 49	+ 17	+69	+ 17
250	280	+1000	+480	+162	+110	+430	+110	+630	+110	+ 88	+ 56	+108	+ 56	+ 49	+ 17	+69	+ 17
280	315	+1060	+540	+162	+110	+430	+110	+630	+110	+ 88	+ 56	+108	+ 56	+ 49	+ 17	+69	+ 17
315	355	+1170	+600	+182	+125	+485	+125	+695	+125	+ 98	+ 62	+119	+ 62	+ 54	+ 18	+75	+ 18
355	400	+1250	+680	+182	+125	+485	+125	+695	+125	+ 98	+ 62	+119	+ 62	+ 54	+ 18	+75	+ 18
400	450	+1390	+760	+198	+135	+535	+135	+765	+135	+108	+ 68	+131	+ 68	+ 60	+ 20	+83	+ 20
450	500	+1470	+840	+198	+135	+535	+135	+765	+135	+108	+ 68	+131	+ 68	+ 60	+ 20	+83	+ 20

H6		H7		H8		H9		H10		H11		JS6		J6		Classification of diameter mm	
H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	Above	Below
+ 6	0	+10	0	+14	0	+ 25	0	+ 40	0	+ 60	0	+ 3	- 3	+ 2	- 4	—	3
+ 8	0	+12	0	+18	0	+ 30	0	+ 48	0	+ 75	0	+ 4	- 4	+ 5	- 3	3	6
+ 9	0	+15	0	+22	0	+ 36	0	+ 58	0	+ 90	0	+ 4.5	- 4.5	+ 5	- 4	6	10
+11	0	+18	0	+27	0	+ 43	0	+ 70	0	+110	0	+ 5.5	- 5.5	+ 6	- 5	10	18
+13	0	+21	0	+33	0	+ 52	0	+ 84	0	+130	0	+ 6.5	- 6.5	+ 8	- 5	18	30
+16	0	+25	0	+39	0	+ 62	0	+100	0	+160	0	+ 8	- 8	+ 10	- 6	30	40
+19	0	+30	0	+46	0	+ 74	0	+120	0	+190	0	+ 9.5	- 9.5	+ 13	- 6	50	65
+22	0	+35	0	+54	0	+ 87	0	+140	0	+220	0	+ 11	- 11	+ 16	- 6	80	100
+25	0	+40	0	+63	0	+100	0	+160	0	+250	0	+ 12.5	- 12.5	+ 18	- 7	120	140
+29	0	+46	0	+72	0	+115	0	+185	0	+290	0	+ 14.5	- 14.5	+ 22	- 7	200	225
+32	0	+52	0	+81	0	+130	0	+210	0	+320	0	+ 16	- 16	+ 25	- 7	250	280
+36	0	+57	0	+89	0	+140	0	+230	0	+360	0	+ 18	- 18	+ 29	- 7	315	355
+40	0	+63	0	+97	0	+155	0	+250	0	+400	0	+ 20	- 20	+ 33	- 7	400	450

Classification of diameter mm		JS7		J7		K5		K6		K7		M6		M7		N6	
Above	Below	H	L	H	L	H	L	H	L	H	L	H	L	H	L	Above	Below
—	3	+ 5	- 5	+ 4	- 6	0	- 4	0	- 6	0	-10	- 2	- 8	- 2	-12	- 4	-10
3	6	+ 6	- 6	+ 6	- 6	0	- 5	+ 2	- 6	+ 3	- 9	- 1	- 9	0	-12	- 5	-13
6	10	+ 7	- 7	+ 8	- 7	+ 1	- 5	+ 2	- 7								

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				LM…F OP	Linear Bushing	RED	II-161	LME…N F UU	Linear Bushing	RED	II-167	LRXSC	Linear Roller Way Super X	BLUE	II-209
BG	Stroke Rotary Cage	RED	II-192	LM…F UU	Linear Bushing	RED	II-163	LME…N F UU AJ	Linear Bushing	RED	II-167	LRXSG	Linear Roller Way Super X	BLUE	II-209
BK…A	Miniature Stroke Rotary Bushing	RED	II-187	LM…F UU AJ	Linear Bushing	RED	II-163	LME…N F UU OP	Linear Bushing	RED	II-167	LSAG	Linear Ball Spline G	RED	II-123
BSP…SL	Precision Linear Slide Unit	RED	II- 89	LM…F UU OP	Linear Bushing	RED	II-163	LME…N OP	Linear Bushing	RED	II-155	LSAGF	Linear Ball Spline G	RED	II-127
BSPG…SL	Precision Linear Slide Unit	RED	II- 91	LM…N	Linear Bushing	RED	II-147	LME…N UU	Linear Bushing	RED	II-157	LSAGFL	Linear Ball Spline G	RED	II-127
BSR…SL	Precision Linear Slide Unit	RED	II- 93	LM…N AJ	Linear Bushing	RED	II-147	LME…N UU AJ	Linear Bushing	RED	II-157	LSAGFLT	Linear Ball Spline G	RED	II-127
BSU…A	Linear Slide Unit	RED	II- 99	LM…N F	Linear Bushing	RED	II-161	LME…N UU OP	Linear Bushing	RED	II-157	LSAGFT	Linear Ball Spline G	RED	II-127
BWU	High Rigidity Precision Linear Slide Unit	RED	II- 81	LM…N F AJ	Linear Bushing	RED	II-161	LME…OP	Linear Bushing	RED	II-155	LSAGL	Linear Ball Spline G	RED	II-123
	C			LM…N F UU	Linear Bushing	RED	II-163	LME…UU	Linear Bushing	RED	II-157	LSAGLT	Linear Ball Spline G	RED	II-123
				LM…N F UU AJ	Linear Bushing	RED	II-163	LME…UU AJ	Linear Bushing	RED	II-157	LSAGT	Linear Ball Spline G	RED	II-123
CRW	Crossed Roller Way	RED	II- 33	LM…N F UU OP	Linear Bushing	RED	II-163	LME…UU OP	Linear Bushing	RED	II-157	LWE	Linear Way E	BLUE	II- 75
CRW…SL	Crossed Roller Way	RED	II- 33	LM…N OP	Linear Bushing	RED	II-147	LMG	Linear Bushing G	RED	II-139	LWE…Q	Low Decibel Linear Way E	BLUE	II- 75
CRWG	Anti-Creep Cage Crossed Roller Way	RED	II- 27	LM…N UU	Linear Bushing	RED	II-151	LMGT	Linear Bushing G	RED	II-139	LWE…SL	Linear Way E	BLUE	II- 75
CRWG…H	Anti-Creep Cage Crossed Roller Way H	RED	II- 31	LM…N UU AJ	Linear Bushing	RED	II-151	LMS	Miniature Linear Bushing	RED	II-172	LWEC	Linear Way E	BLUE	II- 75
CRWM	Crossed Roller Way	RED	II- 49	LM…N UU OP	Linear Bushing	RED	II-151	LMS…F	Miniature Linear Bushing	RED	II-172	LWEC…SL	Linear Way E	BLUE	II- 75
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CRWU…RS	Crossed Roller Way Unit	RED	II- 71	LM…UU AJ	Linear Bushing	RED	II-151	LMSL…F	Miniature Linear Bushing	RED	II-172	LWES…Q	Low Decibel Linear Way E	BLUE	II- 83
CRWUG	Anti-Creep Cage Crossed Roller Way Unit	RED	II- 61	LM…UU OP	Linear Bushing	RED	II-151	LMSL…F UU	Miniature Linear Bushing	RED	II-172	LWES…SL	Linear Way E	BLUE	II- 83
	F			LMB	Linear Bushing	RED	II-159	LMSL…UU	Miniature Linear Bushing	RED	II-172	LWESC	Linear Way E	BLUE	II- 83
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FT	Flat Roller Cage	RED	II-211	LMB…N AJ	Linear Bushing	RED	II-159	LRWXH	Linear Roller Way X	BLUE	II-229	LWESG…SL	Linear Way E	BLUE	II- 83
FT…N	Flat Roller Cage	RED	II-211	LMB…N OP	Linear Bushing	RED	II-159	LRX	Linear Roller Way Super X	BLUE	II-191	LWET	Linear Way E	BLUE	II- 79
FT…V	Flat Roller Cage	RED	II-211	LMB…OP	Linear Bushing	RED	II-159	LRXC	Linear Roller Way Super X	BLUE	II-191	LWET…Q	Low Decibel Linear Way E	BLUE	II- 79
FTW…A	Flat Roller Cage	RED	II-212	LME	Linear Bushing	RED	II-155	LRXD	Linear Roller Way Super X	BLUE	II-199	LWET…SL	Linear Way E	BLUE	II- 79
FTW…VA	Flat Roller Cage	RED	II-212	LME…AJ	Linear Bushing	RED	II-155	LRXD…SL	Linear Roller Way Super X	BLUE	II-199	LWETC	Linear Way E	BLUE	II- 79
	G			LME…F	Linear Bushing	RED	II-165	LRXDC	Linear Roller Way Super X	BLUE	II-199	LWETC…SL	Linear Way E	BLUE	II- 79
				LME…F AJ	Linear Bushing	RED	II-165	LRXDC…SL	Linear Roller Way Super X	BLUE	II-199	LWETG	Linear Way E	BLUE	II- 79
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	L			LME…F UU AJ	Linear Bushing	RED	II-167	LRXDL	Linear Roller Way Super X	BLUE	II-207	LWFH	Linear Way F	BLUE	II-149
				LME…F UU OP	Linear Bushing	RED	II-167	LRXG	Linear Roller Way Super X	BLUE	II-191	LWFS	Linear Way F	BLUE	II-153
LM	Linear Bushing	RED	II-147	LME…N	Linear Bushing	RED	II-155	LRXH	Linear Roller Way Super X	BLUE	II-191	LWFS…SL	Linear Way F	BLUE	II-153
LM…AJ	Linear Bushing	RED	II-147	LME…N AJ	Linear Bushing	RED	II-155	LRXHC	Linear Roller Way Super X	BLUE	II-191	LWH…B	Linear Way H	BLUE	II-107
LM…F	Linear Bushing	RED	II-161	LME…N F	Linear Bushing	RED	II-165	LRXHG	Linear Roller Way Super X	BLUE	II-191	LWH…M	Linear Way H	BLUE	II-107
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Note: BLUE denotes CAT-1600E, while RED denotes CAT-1601E.

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MV	C-Lube Linear Way MV	BLUE	II- 59
MX	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXC	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXD	C-Lube Linear Roller Way Super MX	BLUE	II-199
MXD··SL	C-Lube Linear Roller Way Super MX	BLUE	II-199
MXDC	C-Lube Linear Roller Way Super MX	BLUE	II-199
MXDG	C-Lube Linear Roller Way Super MX	BLUE	II-199
MXDL	C-Lube Linear Roller Way Super MX	BLUE	II-201
MXG	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXH	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXHC	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXHG	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXHL	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXL	C-Lube Linear Roller Way Super MX	BLUE	II-191
MXN	C-Lube Linear Roller Way Super MX	BLUE	II-213

Note: BLUE denotes CAT-1600E, while RED denotes CAT-1601E.

Note: BLUE denotes CAT-1600E, while RED denotes CAT-1601E.

IKO Linear Motion Rolling Guide Series,

IKO Linear Motion Rolling Guide Series General Catalog Consists of

BLUE
(CAT-1600E)

Configuration of General Catalog

RED, the two volumes.
(CAT-1601E)

BLUE



CAT-1600E

【Models】

- Rail Guide Type
Endless Linear Motion Type

RED



CAT-1601E

【Models】

- Rail Guide Type
Limited Linear Motion Type
- Shaft Guide Type
Endless Linear Motion Type
Limited Linear Motion Type + Rolling Motion Type
- Flat Guide Type
Endless Linear Motion Type
Limited Linear Motion Type

C-Lube Linear Way ML C-Lube Linear Way MLV C-Lube Linear Way MV C-Lube Linear Way ME C-Lube Linear Way MH
Linear Way L Linear Way E Linear Way H



Linear Way F



C-Lube Linear Way MUL
Linear Way U



C-Lube Linear Way Super MX
Linear Roller Way Super X



LRWX



LWLM · LRWM



Rail Guide Type
Crossed Roller Way



Rail Guide Type
Linear Slide Unit



Shaft Guide Type
Linear Ball Spline



Shaft Guide Type
Linear Bushing



Shaft Guide Type
Stroke Rotary Bushing



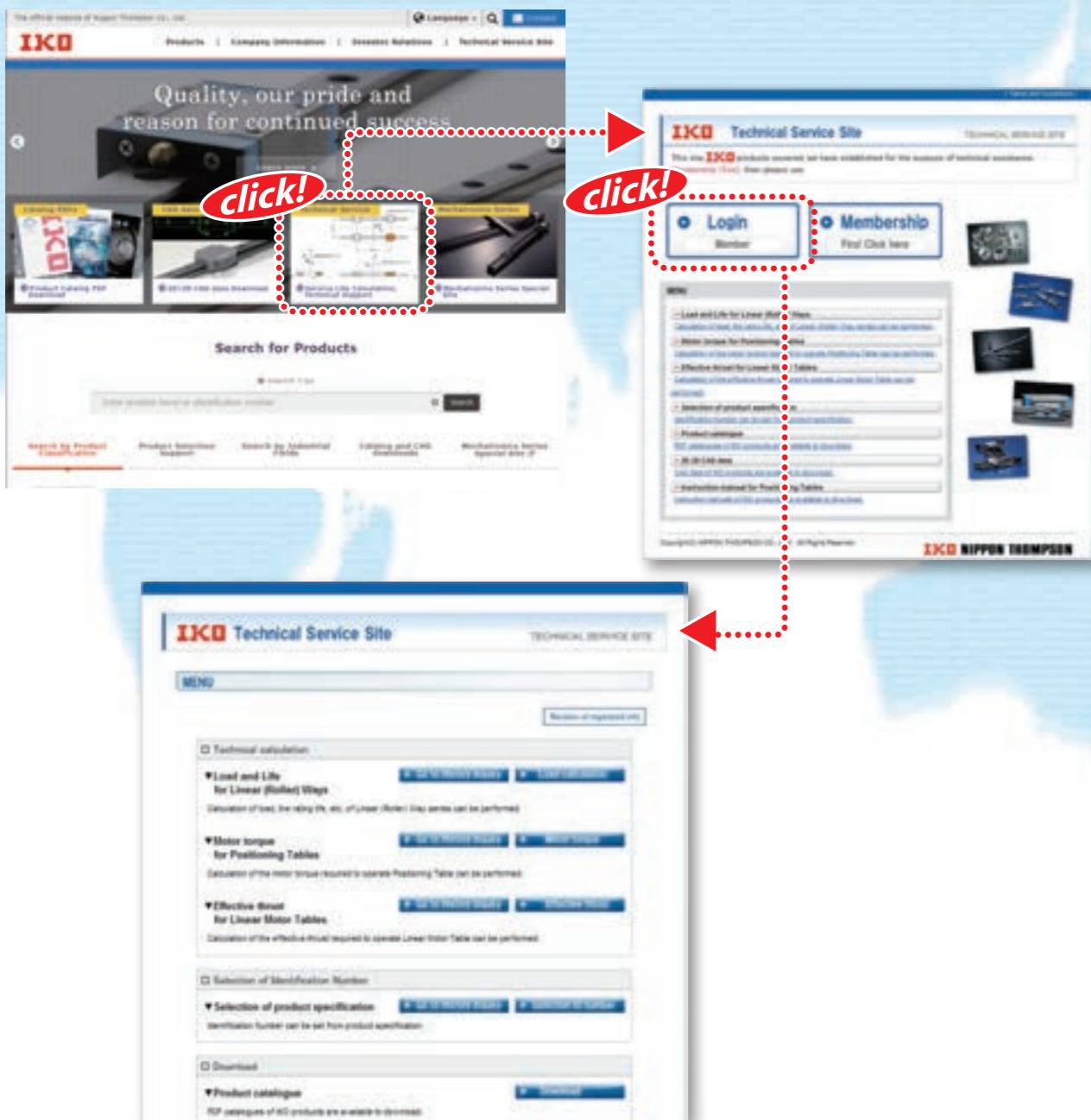
Flat Guide Type
Roller Way & Flat Roller Cage



IKO Introduction of Technical Service Site

"IKO Technical Service Site" can be accessed from our home page. The site provides various tools for selecting Linear Ways and Linear Roller Ways. Please utilize these tools for assistance when selecting products. Additionally the site also provides CAD data and product catalogs for the Needle Series, Linear Motion Rolling Guide Series, and Mechatronics Series for download. Please utilize them to improve your design efficiency.

<https://www.ikont.co.jp/eg/>



1. Technical calculations

For Linear Way/Linear Roller Way load and life calculation, you can obtain the calculated load and the rating life by entering the operating conditions. Also you can derive the motor torque required for operation and the effective thrust force during operation in the sections of motor torque calculation and calculation of effective thrust force of linear motor tables respectively, and output the calculation results in PDF format, as well as save the histories.

2. Selection of Identification Number

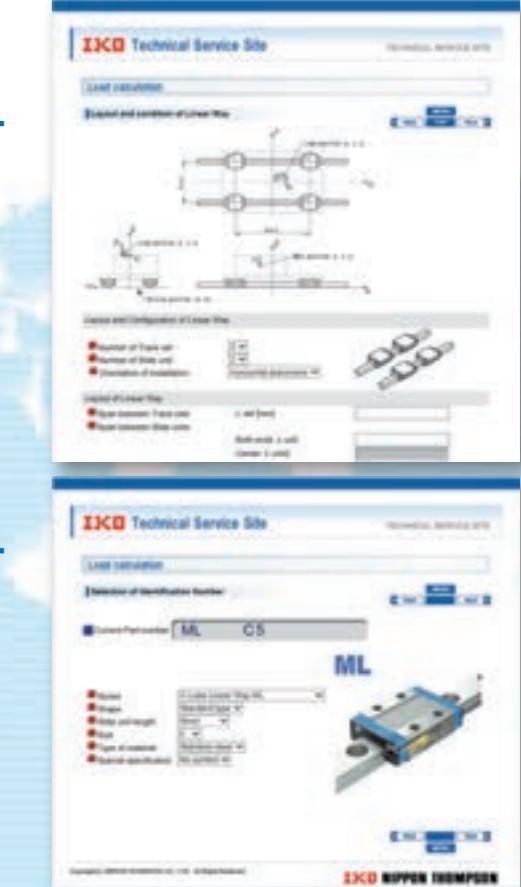
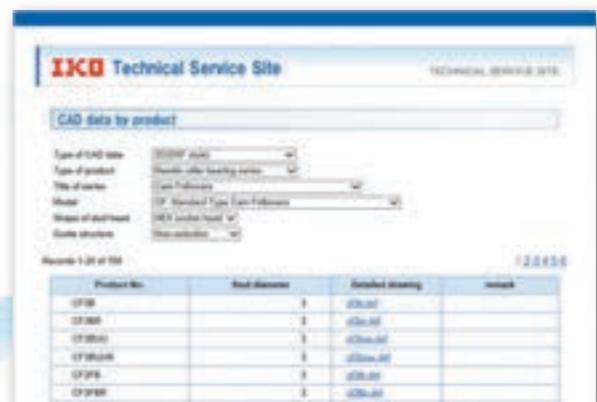
By selecting such specification as model code, dimensions, part code, material code, preload symbol, classification symbol, interchangeable code and supplemental code of Linear ways/Linear roller ways, you can easily specify the identification number used for ordering.

Also you can browse the CAD data of the selected products, calculate the load, and output the selection results in PDF format, as well as save the histories.

3. Downloading CAD data

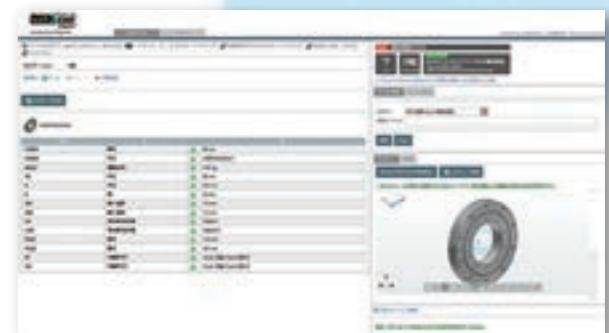
2-dimensional CAD data (DXF file)

There are two types of figures, brief figure and detailed figure. The brief figure shows only the external view lines, and the detailed figure shows the detailed lines. The drawing consists of three drawings: front view, side view and plain view. The scale shows only the original size (1:1), and it does not show dimension lines.



3-dimensional CAD data

It is linked to the mechanical parts CAD library "PART community". Entering the rail dimension and option contents to the detail, you can view the 2D/3D CAD data suitable for the specification for free of charge.



4. Downloading Catalog and Operation Manual

You can download product catalogs of needle series, linear motion rolling guide series and mechatronics series, operation manuals of precision positioning tables and various electrical components in PDF format, as well as support software for precision positioning tables. If you would like a copy of our catalog, please visit the IKO official website and apply for the catalog, or contact our regional office or sales office nearby.



IKO Gentle to The Earth

Nippon Thompson Co., Ltd. is working to develop global environment-friendly products.

It is committed to developing products that make its customers' machinery and equipment more reliable, thereby contributing to preserving the global environment.

This development stance manifests well in the keyword "Oil Minimum."

Our pursuit of Oil Minimum has led to the creation of IKO's proprietary family of lubricating parts as "C-Lube."



- IKO Linear Motion Rolling Guides are manufactured through a control system that alleviates their impact on the global environment to meet the quality requirements of ISO 14001 in compliance with the quality requirements level of ISO 9001 for quality improvement.
- The standard products listed in this catalog comply with the specifications of the ten hazardous materials cited in the European RoHS Directive.

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