

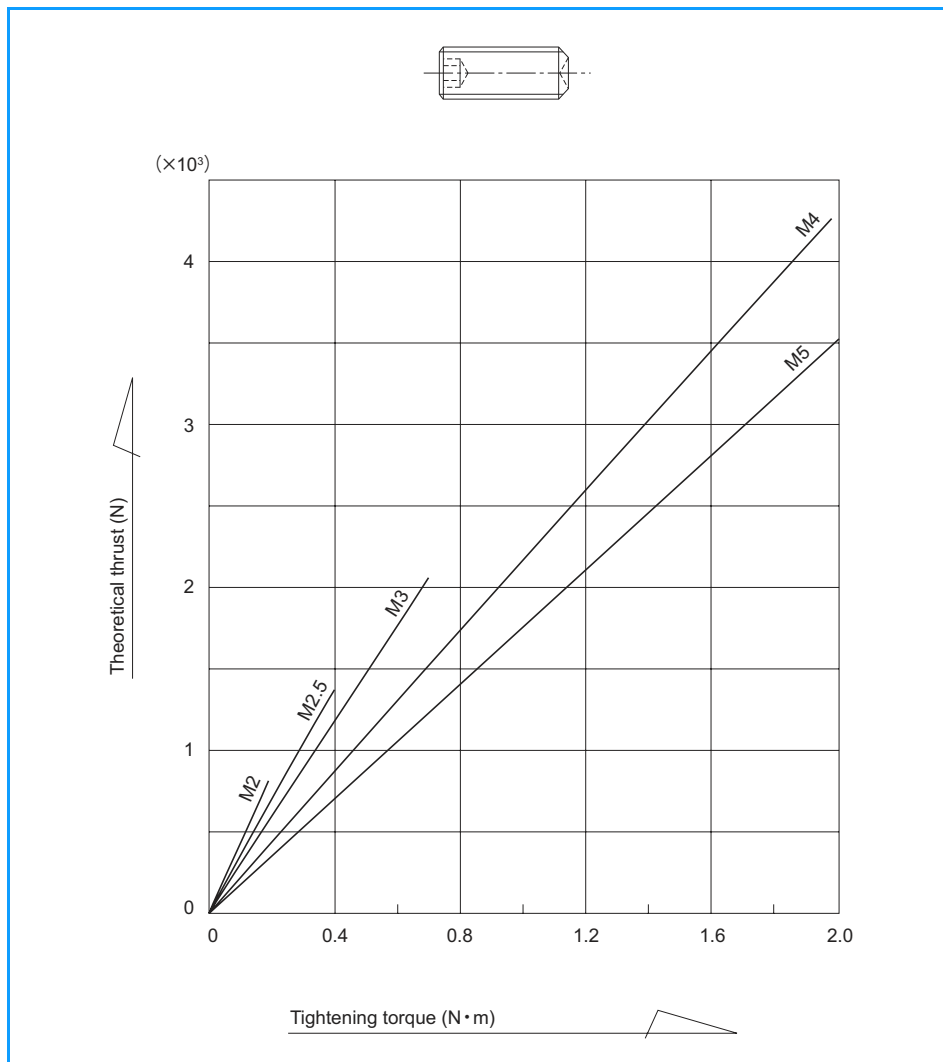
Appendix

THK General Catalog

Appendix Tables

Tightening Torques and Theoretical Thrusts for Hexagonal Socket-head Setscrew

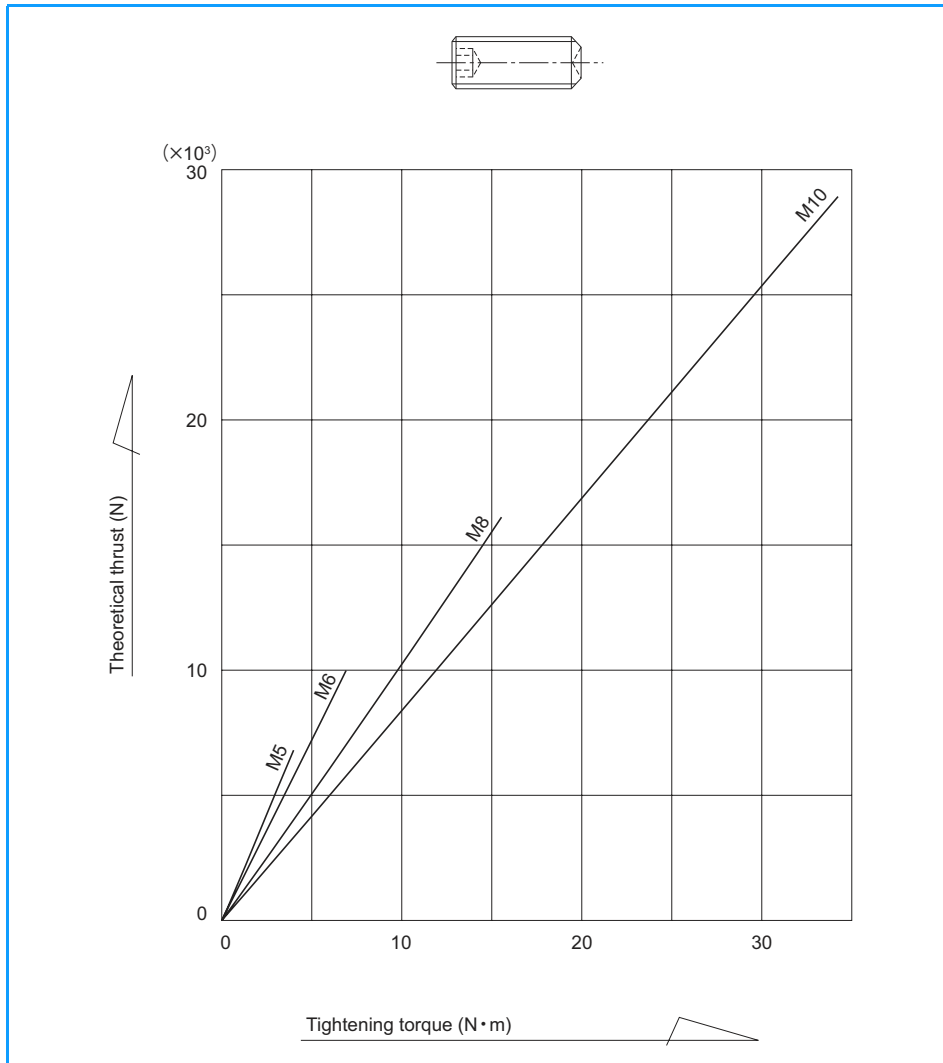
[M2 to M5, Cut-point]



Note) The theoretical thrust may vary depending on the lubrication and the conditions of the surfaces of the setscrew or the reference surface ($\mu = 0.13$).

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[M5 to M10, Cut-point]



Note) The theoretical thrust may vary depending on the lubrication and the conditions of the surfaces of the setscrew or the reference surface ($\mu = 0.13$).

Appendix

Dimensional Tolerances of the Shafts

Dimension classification (mm)		e	f			g		h						js		
Above	Or less	e6	f5	f6	g5	g6	h5	h6	h7	h8	h9	h10	js5	js6	js7	
3	6	-20 -28	-10 -15	-10 -18	-4 -9	-4 -12	0 -5	0 -8	0 -12	0 -18	0 -30	0 -48	±2.5	±4	±6	
6	10	-25 -34	-13 -19	-13 -22	-5 -11	-5 -14	0 -6	0 -9	0 -15	0 -22	0 -36	0 -58	±3	±4.5	±7.5	
10	14	-32	-16	-16	-6	-6	0	0	0	0	0	0	±4	±5.5	±9	
14	18	-43	-24	-27	-14	-17	-8	-11	-18	-27	-43	-70				
18	24	-40	-20	-20	-7	-7	0	0	0	0	0	0	±4.5	±6.5	±10.5	
24	30	-53	-29	-33	-16	-20	-9	-13	-21	-33	-52	-84				
30	40	-50	-25	-25	-9	-9	0	0	0	0	0	0	±5.5	±8	±12.5	
40	50	-66	-36	-41	-20	-25	-11	-16	-25	-39	-62	-100				
50	65	-60	-30	-30	-10	-10	0	0	0	0	0	0	±6.5	±9.5	±15	
65	80	-79	-43	-49	-23	-29	-13	-19	-30	-46	-74	-120				
80	100	-72	-36	-36	-12	-12	0	0	0	0	0	0	±7.5	±11	±17.5	
100	120	-94	-51	-58	-27	-34	-15	-22	-35	-54	-87	-140				
120	140	-85 -110	-43 -61	-43 -68	-14 -32	-14 -39	0 -18	0 -25	0 -40	0 -63	0 -100	0 -160	±9	±12.5	±20	
140	160															
160	180															
180	200	-100 -129	-50 -70	-50 -79	-15 -35	-15 -44	0 -20	0 -29	0 -46	0 -72	0 -115	0 -185	±10	±14.5	±23	
200	225															
225	250															
250	280															
280	315	-110	-56	-56	-17	-17	0	0	0	0	0	0	±11.5	±16	±26	
315	355	-142	-79	-88	-40	-49	-23	-32	-52	-81	-130	-210				
355	400	-125	-62	-62	-18	-18	0	0	0	0	0	0	±12.5	±18	±28.5	
400	450	-161	-87	-98	-43	-54	-25	-36	-57	-89	-140	-230				
450	500	-135	-68	-68	-20	-20	0	0	0	0	0	0	±13.5	±20	±31.5	
500	560	-175	-95	-108	-47	-60	-27	-40	-63	-97	-155	-250				
560	630	-145	-76	-76	-22	-22	0	0	0	0	0	0	±15	±22	±35	
630	710	-189	-106	-120	-52	-66	-30	-44	-70	-110	-175	-280				
710	800	-160	-80	-80	-24	-24	0	0	0	0	0	0	±17.5	±25	±40	
800	900	-210	-115	-130	-59	-74	-35	-50	-80	-125	-200	-320				
900	1000	-170	-86	-86	-26	-26	0	0	0	0	0	0	±20	±28	±45	
1000	1120	-226	-126	-142	-66	-82	-40	-56	-90	-140	-230	-360				
1120	1250	-195	-98	-98	-28	-28	0	0	0	0	0	0	±23	±33	±52.5	
1250	1400	-261	-144	-164	-74	-94	-46	-66	-105	-165	-260	-420				
1400	1600	-220	-110	-110	-30	-30	0	0	0	0	0	0	±27	±39	±62.5	
1600		-298	-164	-188	-84	-108	-54	-78	-125	-195	-310	-500				

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Appendix Tables

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Unit: $\mu\text{m}=0.001\text{mm}$

	j		k			m		n		p		Dimension classification (mm)	
	j5	j6	k5	k6	k7	m5	m6	n5	n6	p5	p6	Above	Or less
	+3 -2	+6 -2	+6 +1	+9 +1	+13 +1	+9 +4	+12 +4	+13 +8	+16 +8	+17 +12	+20 +12	3	6
	+4 -2	+7 -2	+7 +1	+10 +1	+16 +1	+12 +6	+15 +6	+16 +10	+19 +10	+21 +15	+24 +15	6	10
	+5 -3	+8 -3	+9 +1	+12 +1	+19 +1	+15 +7	+18 +7	+20 +12	+23 +12	+26 +18	+29 +18	10 14	14 18
	+5 -4	+9 -4	+11 +2	+15 +2	+23 +2	+17 +8	+21 +8	+24 +15	+28 +15	+31 +22	+35 +22	18 24	24 30
	+6 -5	+11 -5	+13 +2	+18 +2	+27 +2	+20 +9	+25 +9	+28 +17	+33 +17	+37 +26	+42 +26	30 40	40 50
	+6 -7	+12 -7	+15 +2	+21 +2	+32 +2	+24 +11	+30 +11	+33 +20	+39 +20	+45 +32	+51 +32	50 65	65 80
	+6 -9	+13 -9	+18 +3	+25 +3	+38 +3	+28 +13	+35 +13	+38 +23	+45 +23	+52 +37	+59 +37	80 100	100 120
	+7 -11	+14 -11	+21 +3	+28 +3	+43 +3	+33 +15	+40 +15	+45 +27	+52 +27	+61 +43	+68 +43	120 140 160	140 160 180
	+7 -13	+16 -13	+24 +4	+33 +4	+50 +4	+37 +17	+46 +17	+51 +31	+60 +31	+70 +50	+79 +50	180 200 225	200 225 250
	+7 -16	+16 -16	+27 +4	+36 +4	+56 +4	+43 +20	+52 +20	+57 +34	+66 +34	+79 +56	+88 +56	250 280	280 315
	+7 -18	+18 -18	+29 +4	+40 +4	+61 +4	+46 +21	+57 +21	+62 +37	+73 +37	+87 +62	+98 +62	315 355	355 400
	+7 -20	+20 -20	+32 +5	+45 +5	+68 +5	+50 +23	+63 +23	+67 +40	+80 +40	+95 +68	+108 +68	400 450	450 500
	—	—	+30 0	+44 0	+70 0	+56 +26	+70 +26	+74 +44	+88 +44	+108 +78	+122 +78	500 560	560 630
	—	—	+35 0	+50 0	+80 0	+65 +30	+80 +30	+85 +50	+100 +50	+123 +88	+138 +88	630 710	710 800
	—	—	+40 0	+56 0	+90 0	+74 +34	+90 +34	+96 +56	+112 +56	+140 +100	+156 +100	800 900	900 1000
	—	—	+46 0	+66 0	+105 0	+86 +40	+106 +40	+112 +66	+132 +66	+166 +120	+186 +120	1000 1120	1120 1250
	—	—	+54 0	+78 0	+125 0	+102 +48	+126 +48	+132 +78	+156 +78	+194 +140	+218 +140	1250 1400	1400 1600

Appendix

Dimensional Tolerances of Housing Holes

Dimension classification (mm)		E		F			G		H					
Above	Or less	E6	E7	F6	F7	F8	G6	G7	H5	H6	H7	H8	H9	H10
3	6	+28 +20	+32 +20	+18 +10	+22 +10	+28 +10	+12 +4	+16 +4	+5 0	+8 0	+12 0	+18 0	+30 0	+48 0
6	10	+34 +25	+40 +25	+22 +13	+28 +13	+35 +13	+14 +5	+20 +5	+6 0	+9 0	+15 0	+22 0	+36 0	+58 0
10	14	+43 +32	+50 +32	+27 +16	+34 +16	+48 +16	+17 +6	+24 +6	+8 0	+11 0	+18 0	+27 0	+43 0	+70 0
14	18													
18	24	+53 +40	+61 +40	+33 +20	+41 +20	+53 +20	+20 +7	+28 +7	+9 0	+13 0	+21 0	+33 0	+52 0	+84 0
24	30													
30	40	+66 +50	+75 +50	+41 +25	+50 +25	+64 +25	+25 +9	+34 +9	+11 0	+16 0	+25 0	+39 0	+62 0	+100 0
40	50													
50	65	+79 +60	+90 +60	+49 +30	+60 +30	+76 +30	+29 +10	+40 +10	+13 0	+19 0	+30 0	+46 0	+74 0	+120 0
65	80													
80	100	+94 +72	+107 +72	+58 +36	+71 +36	+90 +36	+34 +12	+47 +12	+15 0	+22 0	+35 0	+54 0	+87 0	+140 0
100	120													
120	140	+110 +85	+125 +85	+68 +43	+83 +43	+106 +43	+39 +14	+54 +14	+18 0	+25 0	+40 0	+63 0	+100 0	+160 0
140	160													
160	180													
180	200	+129 +100	+146 +100	+79 +50	+96 +50	+122 +50	+44 +15	+61 +15	+20 0	+29 0	+46 0	+72 0	+115 0	+185 0
200	225													
225	250													
250	280	+142 +110	+162 +110	+88 +56	+108 +56	+137 +56	+49 +17	+69 +17	+23 0	+32 0	+52 0	+81 0	+130 0	+210 0
280	315													
315	355	+161 +125	+182 +125	+98 +62	+119 +62	+151 +62	+54 +18	+75 +18	+25 0	+36 0	+57 0	+89 0	+140 0	+230 0
355	400													
400	450	+175 +135	+198 +135	+108 +68	+131 +68	+165 +68	+60 +20	+83 +20	+27 0	+40 0	+63 0	+97 0	+155 0	+250 0
450	500													
500	560	+189 +145	+215 +145	+120 +76	+146 +76	+186 +76	+66 +22	+92 +22	+30 0	+44 0	+70 0	+110 0	+175 0	+280 0
560	630													
630	710	+210 +160	+240 +160	+130 +80	+160 +80	+205 +80	+74 +24	+104 +24	+35 0	+50 0	+80 0	+125 0	+200 0	+320 0
710	800													
800	900	+226 +170	+260 +170	+142 +86	+176 +86	+226 +86	+82 +26	+116 +26	+40 0	+56 0	+90 0	+140 0	+230 0	+360 0
900	1000													
1000	1120	+261 +195	+300 +195	+164 +98	+203 +98	+263 +98	+94 +28	+133 +28	+46 0	+66 0	+105 0	+165 0	+260 0	+420 0
1120	1250													
1250	1400	+298 +220	+345 +220	+188 +110	+235 +110	+305 +110	+108 +30	+155 +30	+54 0	+78 0	+125 0	+195 0	+310 0	+500 0
1400	1600													

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Appendix Tables

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Unit: $\mu\text{m}=0.001\text{mm}$

	Js		J		K		M		N		P		Dimension classification (mm)	
	Js6	Js7	J6	J7	K6	K7	M6	M7	N6	N7	P6	P7	Above	Or less
	±4	±6	+5 -3	+6 -6	+2 -6	+3 -9	-1 -9	0 -12	-5 -13	-4 -16	-9 -17	-8 -20	3	6
	±4.5	±7.5	+5 -4	+8 -7	+2 -7	+5 -10	-3 -12	0 -15	-7 -16	-4 -19	-12 -21	-9 -24	6	10
	±5.5	±9	+6 -5	+10 -8	+2 -9	+6 -12	-4 -15	0 -18	-9 -20	-5 -23	-15 -26	-11 -29	10	14
													14	18
	±6.5	±10.5	+8 -5	+12 -9	+2 -11	+6 -15	-4 -17	0 -21	-11 -24	-7 -28	-18 -31	-14 -35	18	24
													24	30
	±8	±12.5	+10 -6	+14 -11	+3 -13	+7 -18	-4 -20	0 -25	-12 -28	-8 -33	-21 -37	-17 -42	30	40
													40	50
	±9.5	±15	+13 -6	+18 -12	+4 -15	+9 -21	-5 -24	0 -30	-14 -33	-9 -39	-26 -45	-21 -51	50	65
													65	80
	±11	±17.5	+16 -6	+22 -13	+4 -18	+10 -25	-6 -28	0 -35	-16 -38	-10 -45	-30 -52	-24 -59	80	100
													100	120
	±12.5	±20	+18 -7	+26 -14	+4 -21	+12 -28	-8 -33	0 -40	-20 -45	-12 -52	-36 -61	-28 -68	120	140
													140	160
													160	180
	±14.5	±23	+22 -7	+30 -16	+5 -24	+13 -33	-8 -37	0 -46	-22 -51	-14 -60	-41 -70	-33 -79	180	200
													200	225
													225	250
	±16	±26	+25 -7	+36 -16	+5 -27	+16 -36	-9 -41	0 -52	-25 -57	-14 -66	-47 -79	-36 -88	250	280
													280	315
	±18	±28.5	+29 -7	+39 -18	+7 -29	+17 -40	-10 -46	0 -57	-26 -62	-16 -73	-51 -87	-41 -98	315	355
													355	400
	±20	±31.5	+33 -7	+43 -20	+8 -32	+18 -45	-10 -50	0 -63	-27 -67	-17 -80	-55 -95	-45 -108	400	450
													450	500
	±22	±35	—	—	—	—	-26 -70	-26 -96	-44 -88	-44 -114	-78 -122	-78 -148	500	560
													560	630
	±25	±40	—	—	—	—	-30 -80	-30 -110	-50 -100	-50 -130	-88 -138	-88 -168	630	710
													710	800
	±28	±45	—	—	—	—	-34 -90	-34 -124	-56 -112	-56 -146	-100 -156	-100 -190	800	900
													900	1000
	±33	±52.5	—	—	—	—	-40 -106	-40 -145	-66 -132	-66 -171	-120 -186	-120 -225	1000	1120
													1120	1250
	±39	±62.5	—	—	—	—	-48 -126	-48 -173	-78 -156	-78 -203	-140 -218	-140 -265	1250	1400
													1400	1600

Appendix

SI Unit Conversion Table

[Conversion to SI Units]

Amount	Name of unit	Symbol	Factor of conversion to SI	Name of SI unit	Symbol
Angle	Degree	°	$\pi/180$	Radian	rad
	Minute	'	$\pi/10800$		
	Second	''	$\pi/648000$		
Length	Meter	m	1	Meter	m
	Angstrom	Å	10^{-10}		
	X-ray unit		$\approx 1.00208 \times 10^{-13}$		
	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	$\approx 1.66057 \times 10^{-27}$		
Time	Second	s	1	Second	S
	Minute	min	60		
	Hour	h	3600		
	Day	d	86400		
Speed	Meter per second	m/s	1	Meter per second	m/s
	Knot	kn	1852/3600		
Frequency	cycle	s ⁻¹	1	Hertz	Hz
Rotational speed	Revolution per minute	rpm	1	Per minute	min ⁻¹
Angular velocity	Radian per minute	rad/s	1	Radian per minute	rad/s
Acceleration	Meter per second per second	m/s ²	1	Meter per second per second	m/s ²
	G	G	9.80665		
Force	Weight kilogram	kgf	9.80665	Newton	N
	Weight ton	tf	9806.65		
	Dyne	dyn	10 ⁻⁵		
Moment of force	Weight kilogram meter	kgf-m	9.80665	Newton meter	N-m
Stress and pressure	Weight kilogram per square meter	kgf/m ²	9.80665	Pascal	Pa
	Weight kilogram per square centimeter	kgf/cm ²	9.80665×10^4		
	Weight kilogram per square millimeter	kgf/mm ²	9.80665×10^6		
Pressure	Water column meter	mH ₂ O	9806.65	Pascal	Pa
	Mercury column meter	mmHg	101325/760		
	Torr	Torr	101325/760		
	Atmosphere	atm	101325		
	Bar	bar	10 ⁵		
Energy	Erg	erg	10 ⁻⁷	Joule	J
	IT calorie	cal _{IT}	4.1868		
	Weight kilogram meter	kgf-m	9.80665		
	Kilowatt hour	kW·h	3.600×10^6		
	Metric Horsepower hour	PS·h	$\approx 2.64779 \times 10^6$		
	Electron volt	eV	$\approx 1.60219 \times 10^{-19}$		
Power	Watt	W	1	Watt	W
	Metric Horsepower	PS	≈ 735.5		
	Kilogram force-meter	kgf-m/s	9.80665		

Appendix Tables

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Amount	Name of unit	Symbol	Factor of conversion to SI	Name of SI unit	Symbol
Viscosity	Poise	P	10^{-1}	Pascal second	Pa-s
	Centipoise	cP	10^{-3}		
	Kilogram force-second per square meter	kgf-s/m ²	9.80665		
Kinematic viscosity	Stokes	St	10^{-1}	Square meter per second	m ² /s
	Centistokes	cSt	10^{-6}		
Temperature	Degree	°C	+273.15	Kelvin	K
Radioactivity Dose Absorbed dose Equivalent dose	Curie	Ci	3.7×10^{10}	Becquerel	Bq
	Roentgen	R	2.58×10^{-4}	Coulomb per kilogram	C/kg
	Rad	rad	10^{-2}	Gray	Gy
	Rem	rem	10^{-2}	Sievert	Sv
Magnetic flux	Maxwell	Mx	10^{-8}	Weber	Wb
Magnetic 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
Quantity of electricity	Coulomb	C	1	Coulomb	C
Voltage potential difference	volt	V	1	volt	V
Electrostatic capacity	Farad	F	1	Farad	F
(Electric) resistance	Ohm	Ω	1	Ohm	Ω
(Electric) conductance	Siemens	S	1	Siemens	S
Inductance	Henry	H	1	Henry	H
Current	Ampere	A	1	Ampere	A



[Comparative Table of SI, CGS System and Gravitational System Units]

Amount	Length	Mass	Time	Acceleration	Force	Stress	Pressure	Energy
Unit system	L	M	T					
SI	m	kg	s	m/s ²	N	Pa	Pa	J
CGS system	cm	g	s	Gal	dyn	dyn/cm ²	dyn/cm ²	erg
Gravitational system	m	kgf-s ² /m	s	m/s ²	kgf	kgf/m ²	kgf/m ²	kgf-cm

Amount	Power	Temperature	Viscosity	Kinematic viscosity	Magnetic flux	Magnetic flux density	Magnetic-field intensity
Unit system							
SI	W	K	Pa-s	m ² /s	Wb	T	A/m
CGS system	erg/s	°C	P	St	Mx	Gs	Oe
Gravitational system	kgf-m/s	°C	kgf-s/m ²	m ² /s	—	—	—

[Integer Multipliers of 10 of SI Units]

Number of digits multiplied to unit	Prefix		Number of digits multiplied to unit	Prefix	
	Name	Symbol		Name	Symbol
10 ¹⁸	Exa	E	10 ⁻¹	Deci	d
10 ¹⁵	Peta	P	10 ⁻²	Centi	c
10 ¹²	Tera	T	10 ⁻³	Milli	m
10 ⁹	Giga	G	10 ⁻⁶	Micro	μ
10 ⁶	Mega	M	10 ⁻⁹	Nano	n
10 ³	Kilo	k	10 ⁻¹²	Pico	p
10 ²	Hecto	h	10 ⁻¹⁵	Femto	f
10	Deca	da	10 ⁻¹⁸	Atto	a

[Hardness Conversion Table]

Rockwell	Vickers hardness	Brinell hardness HB		Rockwell hardness		Shore hardness
C-scale hardness HRC (load: 1471 N)	Hardness HV	Standard ball	Tungsten carbide ball	HRA A scale Load: 588.4N Brale indenter	HRB B scale Load: 980.7N Ball with diam of 1/16 in.	Hardness HS
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

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Rockwell	Vickers hardness	Brinell hardness HB		Rockwell hardness		Shore hardness
C-scale hardness HRC (load: 1471 N)	Hardness HV	Standard ball	Tungsten carbide ball	HRA A scale Load: 588.4N Brale indenter	HRB B scale Load: 980.7N Ball with diam of 1/16 in.	Hardness HS
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
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

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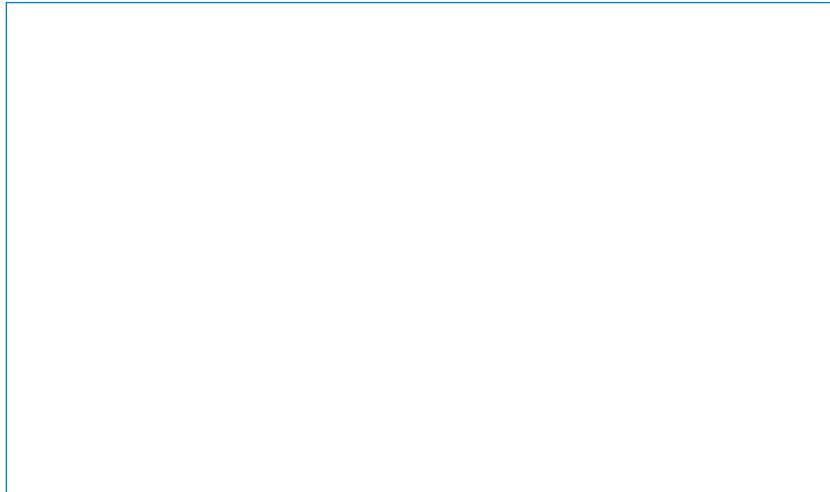
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Line Up
General Description
LM Guide
LM Guide Actuator
LM Actuator
Ball Spline
Spline Nut
Linear Bushing
LM Stroke
Precision Linear Pack
Cross Roller Guide/Ball Guide
Cross Roller Table
Linear Ball Slide
LM Roller
Flat Roller
Slide Pack
Slide Rail
Ball Screw
Lead Screw Nut
Change Nut
Cross-Roller Ring
Cam Follower
Roller Follower
Spherical Plain Bearing
Link Ball
Rod End
Accessories for Lubrication
Appendix

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For inquiries, please contact :



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