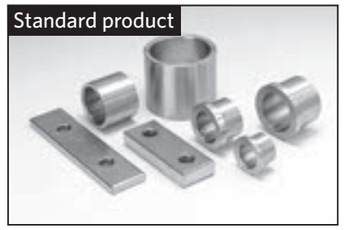
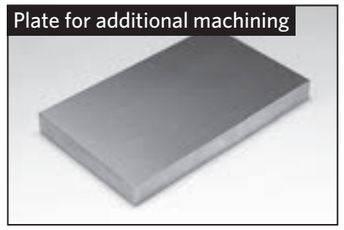
Oiles 2000

Sintered oil-impregnated multi-layer bearings with dispersed solid lubricant





Feature

- Dispersed solid lubricant allows motions in any direction and offers superior performance for minute movements.
- Serviceable without the need for lubrication.
- Features superior load resistance, speed characteristics, and wear resistance.
- Standard products and plates for additional machining are available in various sizes.

RoHS2 ELV

Service range

Lubrication condition	Dry	periodic lubrication
Service temperature range ℃	−40～+120	
Allowable max. pressure P N/mm² {kgf/cm²}	24.5 (73.5) {250 (750)}	49 (73.5) {500 (750)}
Allowable max. velocity V m/s {m/min}	0.50 {30}	1.00 {60}
Allowable max. PV value N/mm² · m/s {kgf/cm² · m/min}	1.63 {1,000}	2.45 {1,500}

The values in parentheses are static bearing pressures, which are the bearing pressures in applications with no motion or very small motion (≦0.0017m/s[0.1m/min]).

Mechanical properties

Density	——	g/cm³	6.3
Hardness	JIS Z 2245	HRM	60～95
Oil impregnation rate	——	vol%	12

※The value shown above are for sintered layer.
※The values shown above are typical values, not the standard values.

Oil Impregnation Method

If the Oiles 2000 material (plate for additional machining) is purchased and used by finishing it, it should be oil-impregnated after machining and then assembled in the housing. When the bearing is stored for long or washed, it should be oil-impregnated again and then assembled in the housing.
For the method, see the description about the oil impregnation method shown on page 246.
Dip the machined bearing in lubricating oil for 24 hours or more before using it, if oil impregnation (by heating) is disabled.

Lathe turning

		carbide tool (JIS)
Cutting tool	Relief angle	5～10°
	Rake angle	2～5°
	Nose radius (mm)	0.40～0.80
Condition	Speed (m/min)	150～300
	Cut depth (mm)	0.10～0.20
	Feed (mm/rev)	0.05～0.15

Machining conditions here indicate conditions for machining back metal or length. Do not machine sliding surface.
※Contact us for grinding and milling information.

Machining accuracy (bushing)

I.D.	O.D.	Length
class 7 to 8	class 6 to 7	class 8 to 9

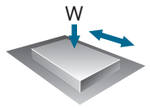
Classes here are in JIS standard.

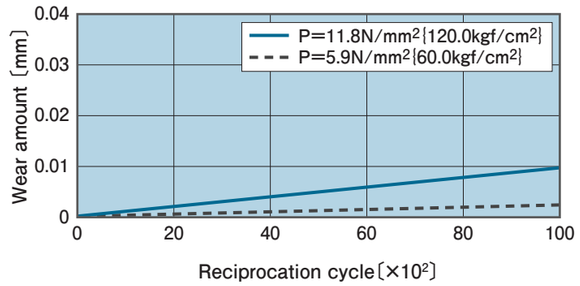
This product demonstrates satisfactory performance at the slide surface roughness of Rz6.3 to 12.5μm.

Test data

Horizontal reciprocation test

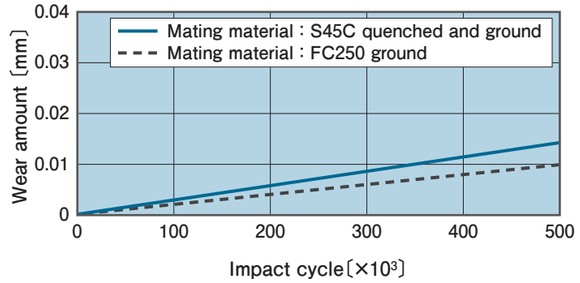
<Testing conditions>
Bearing dimension : □40×□40×t20
Mating material : FC250 ground
Pressure : 5.9、11.8N/mm² {60.0、120.0kgf/cm²}
Velocity : 0.12m/s {7.0m/min}
Reciprocation cycle : 44cpm
Stroke : 80mm
Test cycle : 100,000cycle
Lubrication : initial greasing at installation





Cam impact test

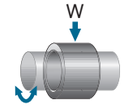
<Testing conditions>
Bearing dimension : □63×□95×t15
Mating material : FC250 ground、
S45C quenched and ground
Pressure : 19.6N/mm² {200.0kgf/cm²}
Velocity : 0.16m/s {9.6m/min}
Impact frequency : 60cpm
Stroke : 80mm
Test cycle : 500,000cycle
Lubrication : initial greasing at installation

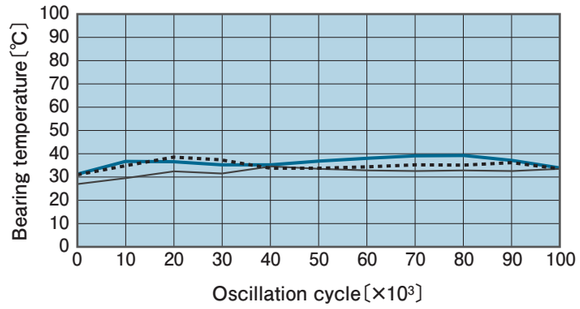


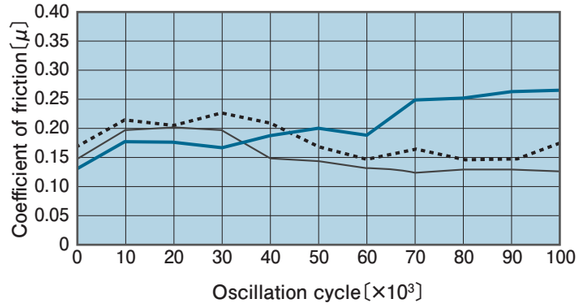
Journal oscillation test

<Testing conditions>
Mating material : S35cw/gas nitriding SUS403
S35C/hard-chrme plating
Pressure : 24.5N/mm² {250.0kgf/cm²}
Velocity : 0.002m/s {0.105m/min}
Oscillating cycle : 10cpm
Oscillaing angle : ±5°
Test cycle (time) : 100,000cycle (166.7h)
Lubrication : initial greasing at installation

S35C gas nitriding
SUS403
S35C hard-chrome plating

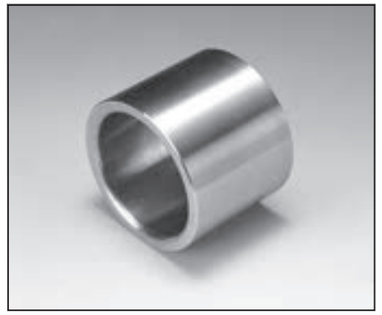






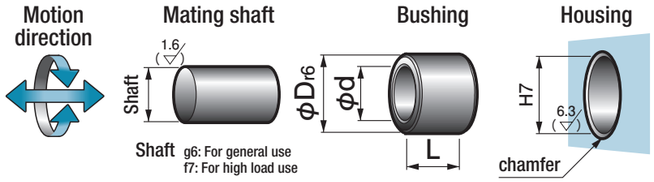
CBB Oiles 2000 Bushings

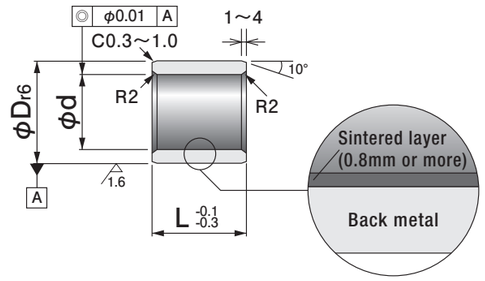
RoHS2 ELV



Specify Part No. by required I.D., O.D. and Length.
(e.g.) I.D. is 35mm, O.D. is 44mm, and length is 50mm.

CBB - 354450
Part No.





- Press fitting is possible.
- Retainer or detent is not required.

I.D.		O.D.		Length L Tolerance −0.1 −0.3									I.D. tolerance after press fitting (reference)
φd	Tolerance	φD	Tolerance	8	10	12	15	16	19	20	25	30	
12	+0.049 +0.038	18	+0.034 +0.023	121808	121810	121812	121815	121816	121819	121820	121825	121830	+0.034 +0.023
13	+0.053 +0.042	19	+0.041 +0.028		131910	131912	131915			131920	131925	131930	+0.034 +0.023
14	+0.053 +0.042	20	+0.041 +0.028		142010	142012	142015			142020	142025	142030	+0.034 +0.023
15	+0.053 +0.042	21	+0.041 +0.028		152110	152112	152115	152116		152120	152125	152130	+0.034 +0.023
16	+0.053 +0.042	22	+0.041 +0.028		162210	162212	162215	162216	162219	162220	162225	162230	+0.034 +0.023
18	+0.053 +0.042	24	+0.041 +0.028		182410	182412	182415	182416		182420	182425	182430	+0.033 +0.022
20	+0.060 +0.047	28	+0.041 +0.028		202810	202812	202815	202816	202819	202820	202825	202830	+0.042 +0.029
20	+0.060 +0.047	30	+0.041 +0.028				203015	203016		203020	203025	203030	+0.042 +0.029
25	+0.065 +0.052	33	+0.050 +0.034			253312	253315	253316		253320	253325	253330	+0.042 +0.029
25	+0.065 +0.052	35	+0.050 +0.034				253515	253516		253520	253525	253530	+0.042 +0.029
28	+0.065 +0.052	38	+0.050 +0.034							283820	283825	283830	+0.042 +0.029
30	+0.065 +0.052	38	+0.050 +0.034			303812	303815			303820	303825	303830	+0.042 +0.029
30	+0.065 +0.052	40	+0.050 +0.034				304015			304020	304025	304030	+0.042 +0.029
35	+0.076 +0.060	44	+0.050 +0.034							354420	354425	354430	+0.053 +0.037
35	+0.076 +0.060	45	+0.050 +0.034							354520	354525	354530	+0.053 +0.037
40	+0.076 +0.060	50	+0.050 +0.034				405015			405020	405025	405030	+0.053 +0.037
45	+0.081 +0.065	55	+0.060 +0.041									455530	+0.053 +0.037
45	+0.081 +0.065	60	+0.060 +0.041									456030	+0.056 +0.040
50	+0.081 +0.065	60	+0.060 +0.041							506020		506030	+0.053 +0.037
50	+0.081 +0.065	62	+0.060 +0.041									506230	+0.055 +0.039
50	+0.081 +0.065	65	+0.060 +0.041									506530	+0.057 +0.041
55	+0.091 +0.072	70	+0.062 +0.043									557030	+0.064 +0.045
60	+0.091 +0.072	74	+0.062 +0.043									607430	+0.064 +0.045
60	+0.091 +0.072	75	+0.062 +0.043									607530	+0.064 +0.045
65	+0.091 +0.072	80	+0.062 +0.043										+0.064 +0.045
70	+0.096 +0.077	85	+0.073 +0.051									708530	+0.064 +0.045
70	+0.096 +0.077	90	+0.073 +0.051										+0.067 +0.048
75	+0.096 +0.077	90	+0.073 +0.051										+0.064 +0.045
75	+0.096 +0.077	95	+0.073 +0.051										+0.067 +0.048
80	+0.096 +0.077	96	+0.073 +0.051										+0.065 +0.046
80	+0.096 +0.077	100	+0.073 +0.051										+0.067 +0.048
90	+0.107 +0.085	110	+0.076 +0.054										+0.076 +0.054
100	+0.107 +0.085	120	+0.076 +0.054										+0.076 +0.054

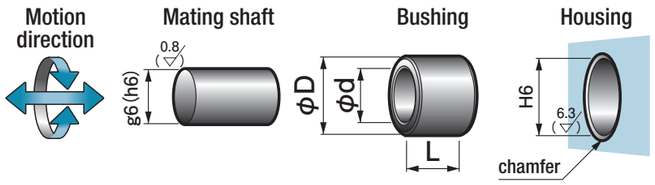
Length L Tolerance −0.1 −0.3									I.D. tolerance after press fitting (reference)
35	40	50	60	70	80	90	100	120	
									+0.034 +0.023
									+0.034 +0.023
									+0.034 +0.023
									+0.034 +0.023
162235	162240								+0.034 +0.023
	182440								+0.033 +0.022
202835	202840	202850							+0.042 +0.029
203035	203040	203050							+0.042 +0.029
253335	253340	253350	253360						+0.042 +0.029
253535	253540	253550	253560						+0.042 +0.029
	283840								+0.042 +0.029
303835	303840	303850	303860						+0.042 +0.029
304035	304040	304050	304060						+0.042 +0.029
354435	354440	354450	354460						+0.053 +0.037
354535	354540	354550	354560						+0.053 +0.037
405035	405040	405050	405060	405070	405080				+0.053 +0.037
455535	455540	455550	455560						+0.053 +0.037
	456040	456050	456060	456070	456080				+0.056 +0.040
506035	506040	506050	506060	506070	506080				+0.053 +0.037
	506240	506250	506260	506270					+0.055 +0.039
	506540	506550	506560	506570	506580		5065100		+0.057 +0.041
	557040	557050	557060	557070					+0.064 +0.045
607435	607440	607450	607460	607470	607480				+0.064 +0.045
607535	607540	607550	607560	607570	607580		6075100		+0.064 +0.045
	658040	658050	658060	658070	658080				+0.064 +0.045
708535	708540	708550	708560	708570	708580		7085100		+0.064 +0.045
		709050	709060	709070	709080				+0.067 +0.048
		759050	759060	759070	759080		7590100		+0.064 +0.045
					759580		7595100		+0.067 +0.048
	809640	809650	809660	809670	809680		8096100	8096120	+0.065 +0.046
	8010040	8010050	8010060	8010070	8010080		80100100	80100120	+0.067 +0.048
		9011050	9011060		9011080	9011090	90110100	90110120	+0.076 +0.054
		10012050	10012060	10012070	10012080	10012090	100120100	100120120	+0.076 +0.054

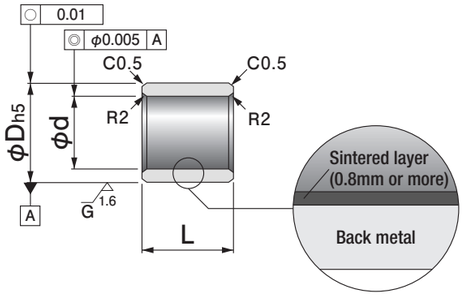
CLB Oiles 2000 Bushings (High Precision type)

RoHS2 ELV

Specify Part No. by required I.D., O.D. and Length.
(e.g.) I.D. is 35mm, O.D. is 44mm, and length is 50mm.

CLB - 354450
Part No.



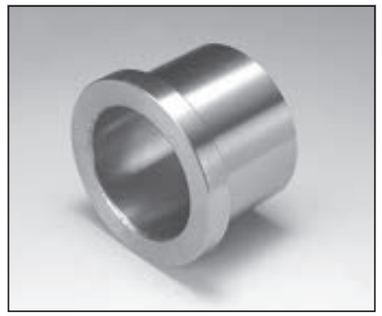


I.D.		O.D.		Length L Tolerance $^{0}_{-0.3}$									
φd	Tolerance	φD	Tolerance	16	20	25	30	40	50	60	80	100	120
12	$^{+0.011}_{+0.003}$	18	$^{0}_{-0.008}$	121816		121825							
16	$^{+0.011}_{+0.003}$	22	$^{0}_{-0.009}$	162216	162220		162230						
20	$^{+0.013}_{+0.004}$	28	$^{0}_{-0.009}$		202820		202830	202840					
25	$^{+0.013}_{+0.004}$	33	$^{0}_{-0.011}$			253325	253330	253340	253350				
30	$^{+0.013}_{+0.004}$	38	$^{0}_{-0.011}$				303830	303840	303850	303860			
35	$^{+0.016}_{+0.005}$	44	$^{0}_{-0.011}$					354440	354450	354460			
40	$^{+0.016}_{+0.005}$	50	$^{0}_{-0.011}$					405040	405050	405060			
50	$^{+0.016}_{+0.005}$	62	$^{0}_{-0.013}$						506250		506280		
60	$^{+0.019}_{+0.006}$	74	$^{0}_{-0.013}$						607450	607460	607480		
70	$^{+0.019}_{+0.006}$	85	$^{0}_{-0.015}$						708550			7085100	
80	$^{+0.019}_{+0.006}$	96	$^{0}_{-0.015}$						809650		809680		8096120
100	$^{+0.022}_{+0.007}$	120	$^{0}_{-0.015}$						10012050			100120100	100120120

⚠ By the combination of the highly precise article, clearance of a mating shaft and the bearings become smaller than normal combination. When use under the foreign matter environment ,or operating frequency are high, please contact us.

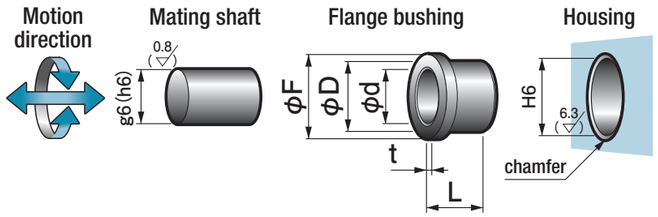
CLF Oiles 2000 Flange Bushings (High Precision type)

RoHS2 ELV

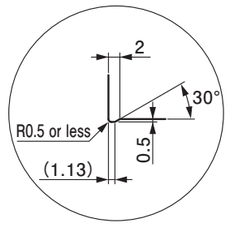


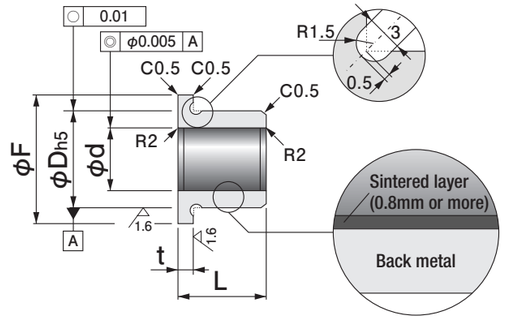
Specify Part No. by required I.D. and Length.
(e.g.) I.D. is 30mm and length is 60mm.

CLF - 3060
Part No.



● As for the flange root undercut shape, the shape shown below is also available in addition to that shown in the dimensional drawing on the right.



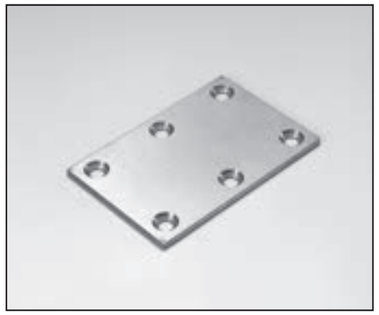


I.D.		O.D.		Flange				Length L Tolerance $^{0}_{-0.3}$						
φd	Tolerance	φD	Tolerance	φF	Tolerance	t	Tolerance	30	40	50	60	80	100	120
20	$^{+0.013}_{+0.004}$	28	$^{0}_{-0.009}$	38	$^{-0.2}_{-0.3}$	7	$^{+0.05}_{0}$	2030	2040					
25	$^{+0.013}_{+0.004}$	33	$^{0}_{-0.011}$	43	$^{-0.2}_{-0.3}$	7	$^{+0.05}_{0}$	2530		2550				
30	$^{+0.013}_{+0.004}$	38	$^{0}_{-0.011}$	48	$^{-0.2}_{-0.3}$	7	$^{+0.05}_{0}$	3030			3060			
35	$^{+0.016}_{+0.005}$	44	$^{0}_{-0.011}$	54	$^{-0.2}_{-0.3}$	10	$^{+0.05}_{0}$		3540			3580		
40	$^{+0.016}_{+0.005}$	50	$^{0}_{-0.011}$	60	$^{-0.2}_{-0.3}$	10	$^{+0.05}_{0}$		4040			4080		
50	$^{+0.016}_{+0.005}$	62	$^{0}_{-0.013}$	72	$^{-0.2}_{-0.3}$	10	$^{+0.05}_{0}$			5050			50100	
60	$^{+0.019}_{+0.006}$	74	$^{0}_{-0.013}$	84	$^{-0.2}_{-0.3}$	10	$^{+0.05}_{0}$				6060			60120

⚠ By the combination of the highly precise article, clearance of a mating shaft and the bearings become smaller than normal combination. When use under the foreign matter environment ,or operating frequency are high, please contact us.

CWT Oiles 2000 Wear Plates 5mm Thickness

RoHS2 ELV

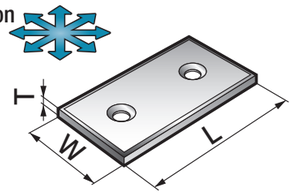


● Dedicated hexagon socket flat head bolts are attached.

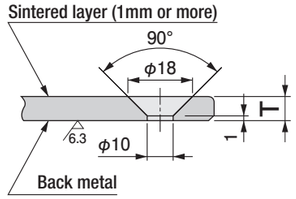
Specify Part No. by required width and length.
(e.g.) Width is 38mm and length is 150mm.

CWT - 38150
Part No.

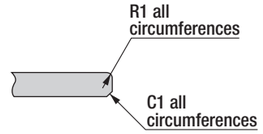
Motion direction



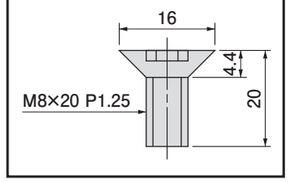
Cross-section

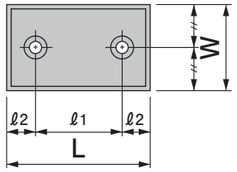


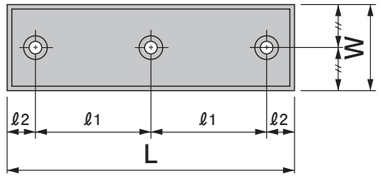
Chamfering

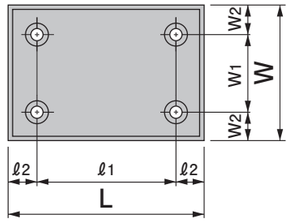


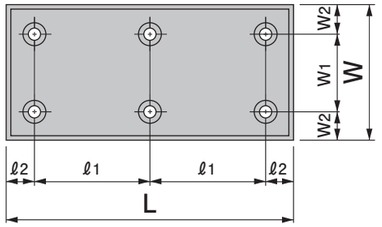
● Mounting bolts







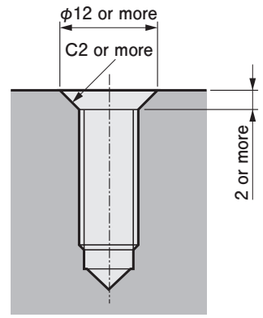




Part No.	Width		Length		Thickness		Mounting hole intervals				No. of holes
	W	Tolerance	L	Tolerance	T	Tolerance	ℓ_1	Tolerance	ℓ_2		
CWT-2250	22	−0.1 −0.3	50	−0.1 −0.3	5	±0.015	20	±0.2	15		2
CWT-2275	22	−0.1 −0.3	75	−0.1 −0.3	5	±0.015	45	±0.2	15		2
CWT-22100	22	−0.1 −0.3	100	−0.1 −0.3	5	±0.015	70	±0.2	15		2
CWT-22150	22	−0.1 −0.3	150	−0.1 −0.3	5	±0.015	60	±0.2	15		3
CWT-2850	28	−0.1 −0.3	50	−0.1 −0.3	5	±0.015	20	±0.2	15		2
CWT-2875	28	−0.1 −0.3	75	−0.1 −0.3	5	±0.015	45	±0.2	15		2
CWT-28100	28	−0.1 −0.3	100	−0.1 −0.3	5	±0.015	70	±0.2	15		2
CWT-28150	28	−0.1 −0.3	150	−0.1 −0.3	5	±0.015	60	±0.2	15		3
CWT-3850	38	−0.1 −0.3	50	−0.1 −0.3	5	±0.015	20	±0.2	15		2
CWT-3875	38	−0.1 −0.3	75	−0.1 −0.3	5	±0.015	45	±0.2	15		2
CWT-38100	38	−0.1 −0.3	100	−0.1 −0.3	5	±0.015	70	±0.2	15		2
CWT-38150	38	−0.1 −0.3	150	−0.1 −0.3	5	±0.015	60	±0.2	15		3
CWT-4850	48	−0.1 −0.3	50	−0.1 −0.3	5	±0.015	20	±0.2	15		2
CWT-4875	48	−0.1 −0.3	75	−0.1 −0.3	5	±0.015	45	±0.2	15		2
CWT-48100	48	−0.1 −0.3	100	−0.1 −0.3	5	±0.015	70	±0.2	15		2
CWT-48150	48	−0.1 −0.3	150	−0.1 −0.3	5	±0.015	60	±0.2	15		3

Part No.	Width		Length		Thickness		Mounting hole intervals						No. of holes
	W	Tolerance	L	Tolerance	T	Tolerance	W_1	Tolerance	W_2	ℓ_1	Tolerance	ℓ_2	
CWT-7575	75	−0.1 −0.3	75	−0.1 −0.3	5	±0.015	45	±0.2	15	45	±0.2	15	4
CWT-75100	75	−0.1 −0.3	100	−0.1 −0.3	5	±0.015	45	±0.2	15	70	±0.2	15	4
CWT-75125	75	−0.1 −0.3	125	−0.1 −0.3	5	±0.015	45	±0.2	15	95	±0.2	15	4
CWT-75150	75	−0.1 −0.3	150	−0.1 −0.3	5	±0.015	45	±0.2	15	60	±0.2	15	6
CWT-100100	100	−0.1 −0.3	100	−0.1 −0.3	5	±0.015	70	±0.2	15	70	±0.2	15	4
CWT-100125	100	−0.1 −0.3	125	−0.1 −0.3	5	±0.015	70	±0.2	15	95	±0.2	15	4
CWT-100150	100	−0.1 −0.3	150	−0.1 −0.3	5	±0.015	70	±0.2	15	60	±0.2	15	6

Provide the mating part with C2 or larger chamfering if it is tapped for mounting.



CWX Oiles 2000 Wear Plates 10mm Thickness

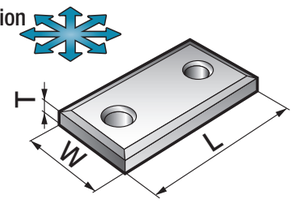
RoHS2 ELV

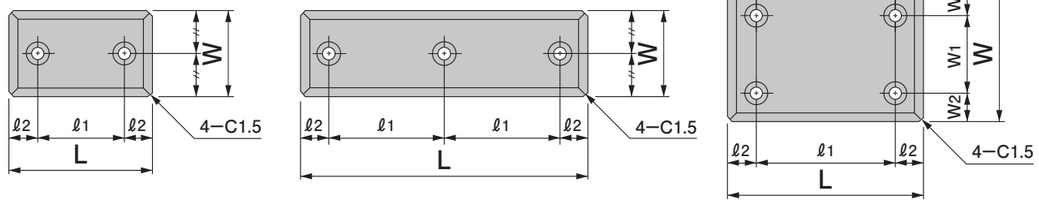
● Use the exclusive low-head bolt for mounting.
(LHS-M1020 is attached to CWX series)

Specify Part No. by required width and length.
(e.g.) Width is 75mm and length is 125mm.

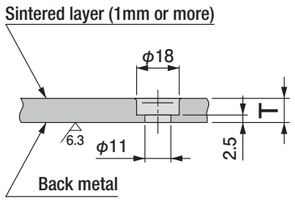
CWX - 75125
Part No.

Motion direction



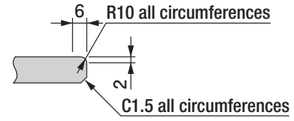


Cross-section

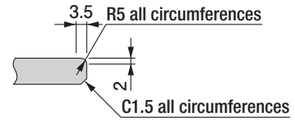


Chamfering

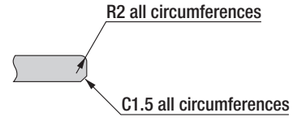
Type A



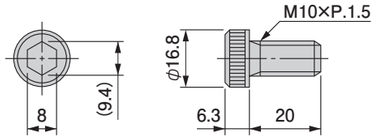
Type B



Type C



● LHS Exclusive Bolt for CWX
〔Part No. : **LHS-M1020**〕



● Exclusive bolt LHS-M1020 is attached to CWX plate.
● The Exclusive bolt has approximate breaking toque of JIS standard M10 socket head cap screw.

N・m {kgf・m}

Part No.	LHS-M1020
Recommended tightening torque	67.3 {6.86}
Breaking torque	118 {12.0}

※Bolt itself is on sale.

Part No.	Width		Length		Thickness		Mounting hole intervals			No. of holes	Chamfering
	W	Tolerance	L	Tolerance	T	Tolerance	ℓ1	Tolerance	ℓ2		
CWX-2875	28	−0.1 −0.3	75	−0.1 −0.3	10	±0.01	45	±0.2	15	2	C
CWX-28100	28	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2	C
CWX-28125	28	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2	C
CWX-28150	28	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2	C
CWX-3875	38	−0.1 −0.3	75	−0.1 −0.3	10	±0.01	45	±0.2	15	2	B
CWX-38100	38	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2	B
CWX-38125	38	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2	B
CWX-38150	38	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2	B
CWX-4875	48	−0.1 −0.3	75	−0.1 −0.3	10	±0.01	45	±0.2	15	2	B
CWX-48100	48	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2	B
CWX-48125	48	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2	B
CWX-48150	48	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2	B
CWX-48200	48	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	100	±0.2	50	2	B
CWX-48250	48	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	100	±0.2	25	3	B
CWX-5875	58	−0.1 −0.3	75	−0.1 −0.3	10	±0.01	45	±0.2	15	2	B
CWX-58100	58	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2	B
CWX-58150	58	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2	B
CWX-7575	75	−0.1 −0.3	75	−0.1 −0.3	10	±0.01	25	±0.2	25	2	A
CWX-75100	75	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2	A
CWX-75125	75	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2	A

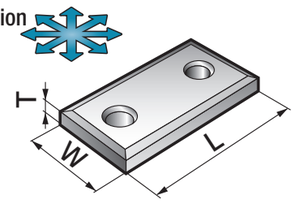
Part No.	Width		Length		Thickness		Mounting hole intervals						No. of holes	Chamfering
	W	Tolerance	L	Tolerance	T	Tolerance	W1	Tolerance	W2	ℓ1	Tolerance	ℓ2		
CWX-75150	75	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	—	—	—	100	±0.2	25	2	A
CWX-75200	75	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	—	—	—	150	±0.2	25	2	A
CWX-75250	75	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	—	—	—	100	±0.2	25	3	A
CWX-75300	75	−0.1 −0.3	300	−0.1 −0.3	10	±0.01	—	—	—	100	±0.2	50	3	A
CWX-100100	100	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	50	±0.2	25	4	A
CWX-100125	100	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	50	±0.2	25	75	±0.2	25	4	A
CWX-100150	100	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	50	±0.2	25	100	±0.2	25	4	A
CWX-100200	100	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	50	±0.2	25	150	±0.2	25	4	A
CWX-100250	100	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	50	±0.2	25	200	±0.2	25	4	A
CWX-100300	100	−0.1 −0.3	300	−0.1 −0.3	10	±0.01	50	±0.2	25	200	±0.2	50	4	A
CWX-125125	125	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	75	±0.2	25	4	A
CWX-125150	125	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	50	±0.2	37.5	100	±0.2	25	4	A
CWX-125200	125	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	50	±0.2	37.5	150	±0.2	25	4	A
CWX-125250	125	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	50	±0.2	37.5	200	±0.2	25	4	A
CWX-125300	125	−0.1 −0.3	300	−0.1 −0.3	10	±0.01	50	±0.2	37.5	200	±0.2	50	4	A
CWX-150150	150	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	100	±0.2	25	4	A
CWX-150200	150	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	100	±0.2	25	150	±0.2	25	4	A
CWX-150250	150	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	100	±0.2	25	200	±0.2	25	4	A

CWXT Oiles 2000 Wear Plates 10mm Thickness (2 hole type) RoHS2 ELV

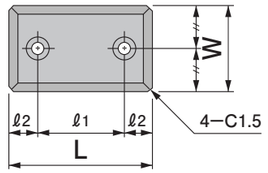
Specify Part No. by required width and length.
(e.g.) Width is 100mm and length is 200mm.

CWXT - 100200
Part No.

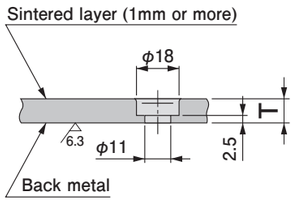
Motion direction



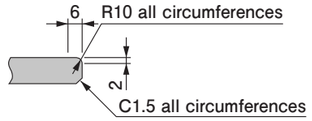
● Use the exclusive low-head bolt for mounting.
(LHS-M1020 is attached to CWXT series)



Cross-section

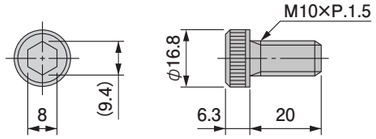


Chamfering



Part No.	Width		Length		Thickness		Mounting hole intervals			No. of holes
	W	Tolerance	L	Tolerance	T	Tolerance	ℓ1	Tolerance	ℓ2	
CWXT-100100	100	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2
CWXT-100125	100	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2
CWXT-100150	100	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2
CWXT-100200	100	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	150	±0.2	25	2
CWXT-100250	100	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	200	±0.2	25	2
CWXT-100300	100	−0.1 −0.3	300	−0.1 −0.3	10	±0.01	200	±0.2	50	2
CWXT-125125	125	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2
CWXT-125150	125	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2
CWXT-125200	125	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	150	±0.2	25	2
CWXT-125250	125	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	200	±0.2	25	2
CWXT-125300	125	−0.1 −0.3	300	−0.1 −0.3	10	±0.01	200	±0.2	50	2
CWXT-150150	150	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2
CWXT-150200	150	−0.1 −0.3	200	−0.1 −0.3	10	±0.01	150	±0.2	25	2
CWXT-150250	150	−0.1 −0.3	250	−0.1 −0.3	10	±0.01	200	±0.2	25	2

● LHS Exclusive Bolt for CWXT
〔Part No. : **LHS-M1020**〕



● Exclusive bolt LHS-M1020 is attached to CWXT plate.
● The Exclusive bolt has approximate breaking toque of JIS standard M10 socket head cap screw.

N・m {kgf・m}

Part No.	LHS-M1020
Recommended tightening torque	67.3 {6.86}
Breaking torque	118 {12.0}

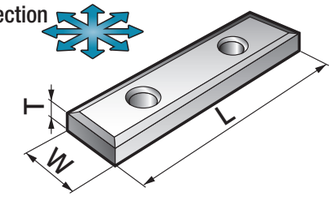
※Bolt itself is on sale.

CWA Oiles 2000 Wear Plates 10mm Thickness RoHS2 ELV

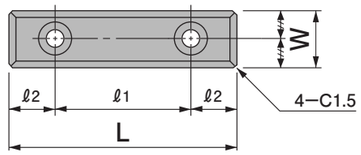
Specify Part No. by required width and length.
(e.g.) Width is 18mm and length is 100mm.

CWA - 18100 N
Part No.

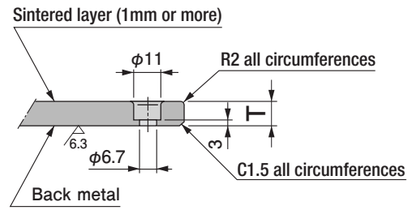
Motion direction



● Use M6×20 hexagon socket head bolt for mounting.



Cross-section



Part No.	Width		Length		Thickness		Mounting hole intervals			No. of holes
	W	Toleramce	L	Toleramce	T	Toleramce	ℓ1	Tolerance	ℓ2	
CWA-1875N	18	−0.1 −0.3	75	−0.1 −0.3	10	±0.01	45	±0.2	15	2
CWA-18100N	18	−0.1 −0.3	100	−0.1 −0.3	10	±0.01	50	±0.2	25	2
CWA-18125N	18	−0.1 −0.3	125	−0.1 −0.3	10	±0.01	75	±0.2	25	2
CWA-18150N	18	−0.1 −0.3	150	−0.1 −0.3	10	±0.01	100	±0.2	25	2

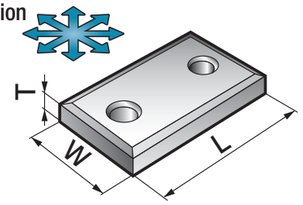
CWP Oiles 2000 Wear Plates (general purpose)

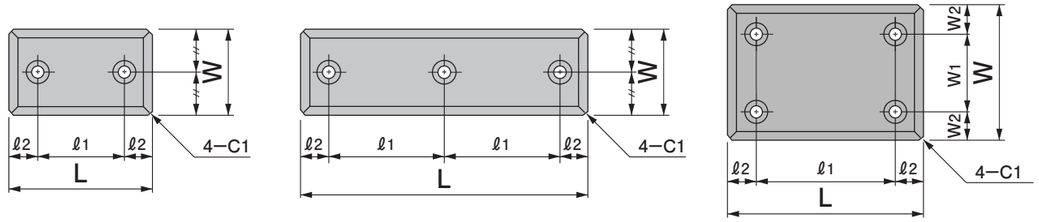
RoHS2 ELV

Specify Part No. by required width and length.
(e.g.) Width is 58mm and length is 150mm.

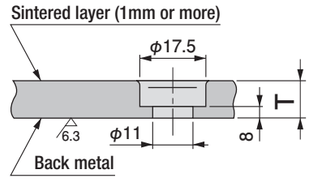
CWP - 58150
Part No.

Motion direction

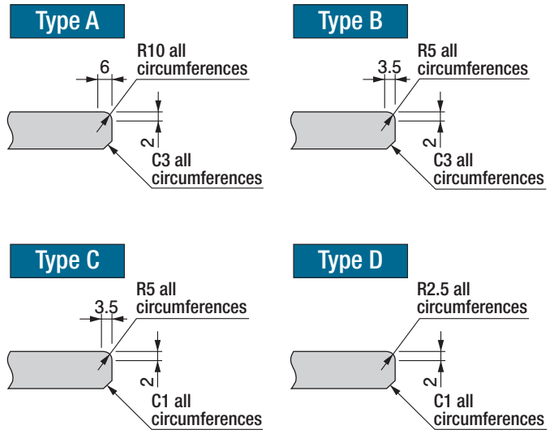




Cross-section



Chamfering



Part No.	Width		Length		Thickness		Mounting hole intervals			Attach bolts		Chamfering
	W	Tolerance	L	Tolerance	T	Tolerance	ℓ1	Tolerance	ℓ2	Type	Qty	
CWP-2875	28	−0.1 −0.3	75	−0.1 −0.3	20	±0.01	45	±0.2	15	M10 Hexagon socket head	2	D
CWP-28100	28	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	50	±0.2	25	M10 Hexagon socket head	2	D
CWP-28150	28	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2	D
CWP-3875	38	−0.1 −0.3	75	−0.1 −0.3	20	±0.01	45	±0.2	15	M10 Hexagon socket head	2	C
CWP-38100	38	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	50	±0.2	25	M10 Hexagon socket head	2	C
CWP-38150	38	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2	C
CWP-4875	48	−0.1 −0.3	75	−0.1 −0.3	20	±0.01	45	±0.2	15	M10 Hexagon socket head	2	B
CWP-48100	48	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	50	±0.2	25	M10 Hexagon socket head	2	B
CWP-48125	48	−0.1 −0.3	125	−0.1 −0.3	20	±0.01	75	±0.2	25	M10 Hexagon socket head	2	B
CWP-48150	48	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2	B
CWP-48200	48	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	100	±0.2	50	M10 Hexagon socket head	2	B
CWP-48250	48	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	3	B
CWP-5875	58	−0.1 −0.3	75	−0.1 −0.3	20	±0.01	45	±0.2	15	M10 Hexagon socket head	2	B
CWP-58100	58	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	50	±0.2	25	M10 Hexagon socket head	2	B
CWP-58150	58	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2	B

Part No.	Width		Length		Thickness		Mounting hole intervals						Attach bolts		Chamfering
	W	Tolerance	L	Tolerance	T	Tolerance	W1	Tolerance	W2	ℓ1	Tolerance	ℓ2	Type	Qty	
CWP-7575B	75	−0.1 −0.3	75	−0.1 −0.3	20	±0.01	—	—	—	25	±0.2	25	M10 Hexagon socket head	2	A
CWP-75100B	75	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	—	—	—	50	±0.2	25	M10 Hexagon socket head	2	A
CWP-75125	75	−0.1 −0.3	125	−0.1 −0.3	20	±0.01	—	—	—	75	±0.2	25	M10 Hexagon socket head	2	A
CWP-75150	75	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	—	—	—	100	±0.2	25	M10 Hexagon socket head	2	A
CWP-75200	75	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	—	—	—	150	±0.2	25	M10 Hexagon socket head	2	A
CWP-75250	75	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	—	—	—	100	±0.2	25	M10 Hexagon socket head	3	A
CWP-75300	75	−0.1 −0.3	300	−0.1 −0.3	20	±0.01	—	—	—	100	±0.2	50	M10 Hexagon socket head	3	A
CWP-100100	100	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	50	±0.2	25	50	±0.2	25	M10 Hexagon socket head	4	A
CWP-100125	100	−0.1 −0.3	125	−0.1 −0.3	20	±0.01	50	±0.2	25	75	±0.2	25	M10 Hexagon socket head	4	A
CWP-100150	100	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	50	±0.2	25	100	±0.2	25	M10 Hexagon socket head	4	A
CWP-100200	100	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	50	±0.2	25	150	±0.2	25	M10 Hexagon socket head	4	A
CWP-100250	100	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	50	±0.2	25	200	±0.2	25	M10 Hexagon socket head	4	A
CWP-100300	100	−0.1 −0.3	300	−0.1 −0.3	20	±0.01	50	±0.2	25	200	±0.2	50	M10 Hexagon socket head	4	A
CWP-125125	125	−0.1 −0.3	125	−0.1 −0.3	20	±0.01	50	±0.2	37.5	75	±0.2	25	M10 Hexagon socket head	4	A
CWP-125150	125	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	50	±0.2	37.5	100	±0.2	25	M10 Hexagon socket head	4	A
CWP-125200	125	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	50	±0.2	37.5	150	±0.2	25	M10 Hexagon socket head	4	A
CWP-125250	125	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	50	±0.2	37.5	200	±0.2	25	M10 Hexagon socket head	4	A
CWP-125300	125	−0.1 −0.3	300	−0.1 −0.3	20	±0.01	50	±0.2	37.5	200	±0.2	50	M10 Hexagon socket head	4	A
CWP-150150	150	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	100	±0.2	25	M10 Hexagon socket head	4	A
CWP-150200	150	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	100	±0.2	25	150	±0.2	25	M10 Hexagon socket head	4	A
CWP-150250	150	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	100	±0.2	25	200	±0.2	25	M10 Hexagon socket head	4	A

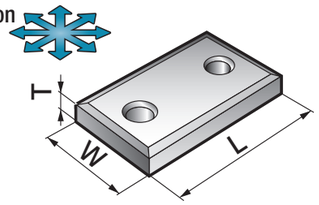
CWPT Oiles 2000 Wear Plates 20mm Thickness (2 hole type)

RoHS2 ELV

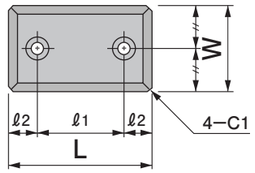
Specify Part No. by required width and length.
(e.g.) Width is 125mm and length is 150mm.

CWPT - 125150
Part No.

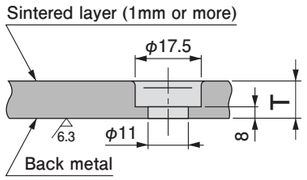
Motion direction



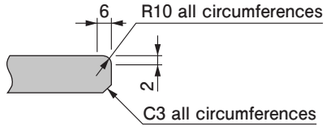
● CTP series were renamed CWPT series.



Cross-section



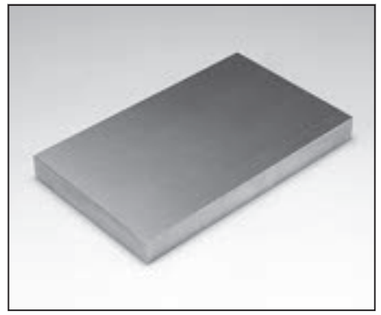
Chamfering



Part No.	Width		Length		Thickness		Mounting hole intervals			Attach bolts	
	W	Tolerance	L	Tolerance	T	Tolerance	ℓ1	Tolerance	ℓ2	Type	Qty
CWPT-100100	100	−0.1 −0.3	100	−0.1 −0.3	20	±0.01	50	±0.2	25	M10 Hexagon socket head	2
CWPT-100125	100	−0.1 −0.3	125	−0.1 −0.3	20	±0.01	75	±0.2	25	M10 Hexagon socket head	2
CWPT-100150	100	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2
CWPT-100200	100	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	150	±0.2	25	M10 Hexagon socket head	2
CWPT-100250	100	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	200	±0.2	25	M10 Hexagon socket head	2
CWPT-100300	100	−0.1 −0.3	300	−0.1 −0.3	20	±0.01	200	±0.2	50	M10 Hexagon socket head	2
CWPT-125125	125	−0.1 −0.3	125	−0.1 −0.3	20	±0.01	75	±0.2	25	M10 Hexagon socket head	2
CWPT-125150	125	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2
CWPT-125200	125	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	150	±0.2	25	M10 Hexagon socket head	2
CWPT-125250	125	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	200	±0.2	25	M10 Hexagon socket head	2
CWPT-125300	125	−0.1 −0.3	300	−0.1 −0.3	20	±0.01	200	±0.2	50	M10 Hexagon socket head	2
CWPT-150150	150	−0.1 −0.3	150	−0.1 −0.3	20	±0.01	100	±0.2	25	M10 Hexagon socket head	2
CWPT-150200	150	−0.1 −0.3	200	−0.1 −0.3	20	±0.01	150	±0.2	25	M10 Hexagon socket head	2
CWPT-150250	150	−0.1 −0.3	250	−0.1 −0.3	20	±0.01	200	±0.2	25	M10 Hexagon socket head	2

CWI Oiles 2000 Plates for Additional Machining

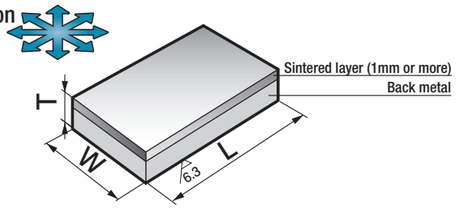
RoHS2 ELV



Specify Part No. by required width, length, and thickness.
(e.g.) With is 100mm, length is 200mm, and thickness is 15mm.

CWI - 10020015
Part No.

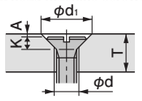
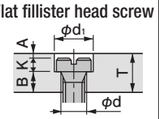
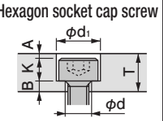
Motion direction



● For additional machining, cutting or drilling to your required dimension.
● Machine the back metal side to adjust the thickness.
● Oil impregnation is necessary by referring to the oil impregnation method, page 246 when you machined the plate.

Part No.	Width	Length	Thickness	
	W	L	T	Tolerance
CWI-504806	50	480	6	±0.02
CWI-504808	50	480	8	±0.02
CWI-10020010	100	200	10	±0.02
CWI-4048010	40	480	10	±0.02
CWI-15048010	150	480	10	±0.02
CWI-10020012	100	200	12	±0.02
CWI-15048012	150	480	12	±0.02
CWI-10020015	100	200	15	±0.02
CWI-15048015	150	480	15	±0.02
CWI-12020020	120	200	20	±0.02
CWI-15025020	150	250	20	±0.02
CWI-15042020	150	420	20	±0.02
CWI-10015025	100	150	25	±0.02
CWI-15025025	150	250	25	±0.02
CWI-15025030	150	250	30	±0.02

● Following table indicates mating dimensions used for application of general screws and bolts.

Type		Plate thickness T							
		6	8	10	12	15	20	25	30
Flat head machine screws 	M	M8	M10	M10	—	—	—	—	—
	A	1	1	1.5	—	—	—	—	—
	d	10	12	12	—	—	—	—	—
	d1	19.3	22	23	—	—	—	—	—
	K	4.65	5.0	5.0	—	—	—	—	—
Flat fillister head screw 	M	M5	M6	M8	—	—	—	—	—
	A	0.7	1.6	1.8	—	—	—	—	—
	d	5.5	6.6	9	—	—	—	—	—
	d1	10	12	16	—	—	—	—	—
	B	2	2.5	3	—	—	—	—	—
Hexagon socket cap screw 	M	—	M5	M6(10)	M8(10)	M10	M12	M16	M20
	A	—	1	1.5(1.2)	1(2.7)	1.5	1.5	1.5	1.5
	d	—	5.5	6.7(11)	9(11)	11	14	18	22
	d1	—	9.5	11 (18)	15(18)	17.5	20	26	32
	B	—	2	2.5(2.5)	3(3)	3.5	6.5	7.5	8.5

※The values in parentheses are applicable when exclusive low-head bolt LHS-M1020 are used.
※The sink dimension (A) does not conform to JIS Standard, since these are sliding materials.