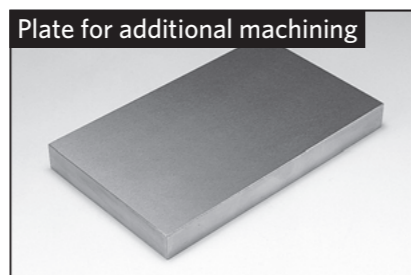
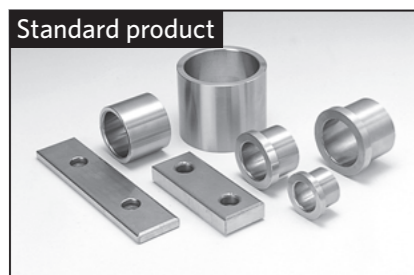


Oiles 2000 Sintered multi-layer bearings with dispersed solid lubricant



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.



Service range

| Lubrication condition | Dry | periodic lubrication |
|---|-------------------------|-----------------------|
| Service temperature range °C | -40~+120 | |
| Allowable max. pressure P N/mm ² {kgf/cm ² } | 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/mm ² · m/s {kgf/cm ² · 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 (≤ 0.0017 m/s [0.1 m/min]).

Mechanical properties

| | | | |
|-----------------------|--------------|-------------------|-------|
| Density | — | g/cm ³ | 6.3 |
| Hardness | JIS K 7202-2 | 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 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 250.

Dip the machined bearing in lubricating oil for 24 hours or more before using it, if oil impregnation (by heating) is disabled.

Lathe turning

| Cutting tool | | carbide tool (JIS) |
|--------------|------------------|--------------------|
| Condition | 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 12.5 μ m.

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}

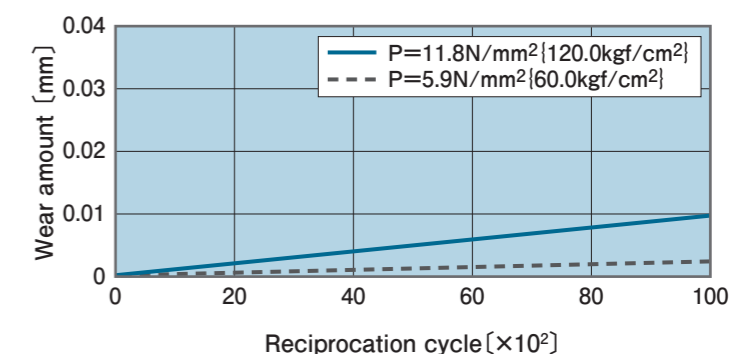
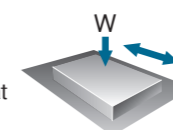
Velocity : 0.12m/s {7.0m/min}

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}

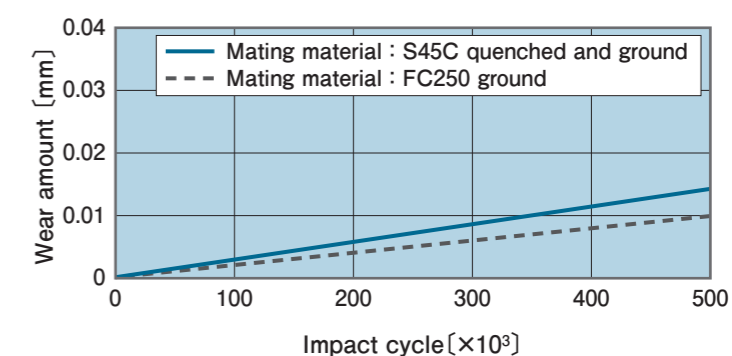
Velocity : 0.16m/s {9.6m/min}

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-chrome plating

Pressure : 24.5N/mm² {250.0kgf/cm²}

Velocity : 0.002m/s {0.105m/min}

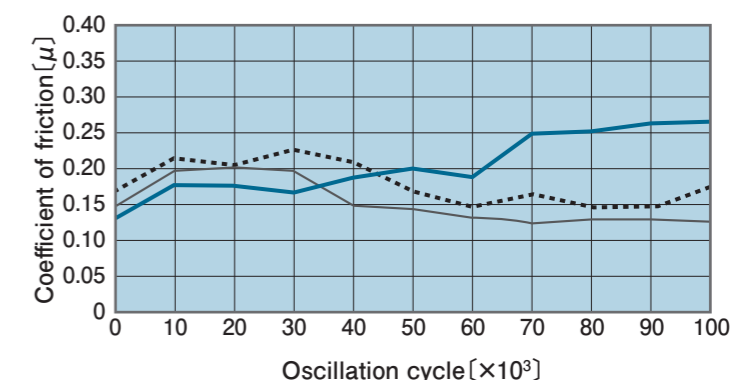
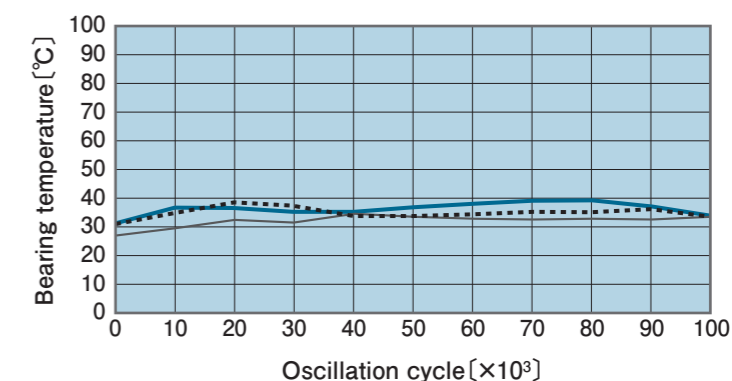
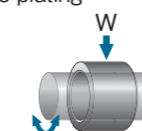
Oscillating cycle : 10cpm

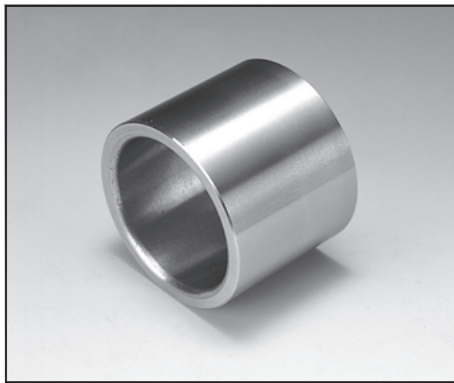
Oscillaing angle : $\pm 5^\circ$

Test cycle (time) : 100,000cycle (166.7hrs.)

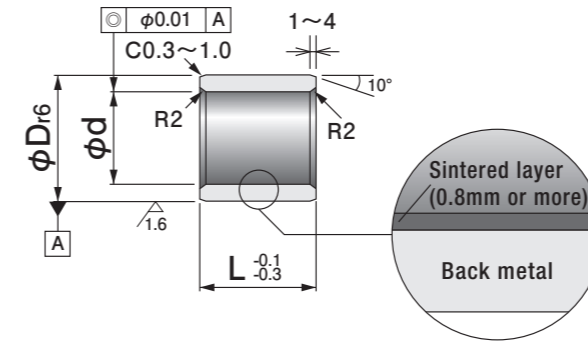
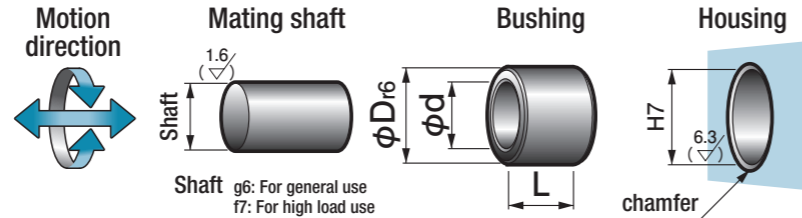
Lubrication : initial greasing at installation

- S35C gas nitriding
- SUS403
- - - S35C hard-chrome plating





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.
- Falling out or dislocation prevention is not required.

| I.D. | | O.D. | | Length L | | | | | | | | Tolerance $\begin{smallmatrix} -0.1 \\ -0.3 \end{smallmatrix}$ | | |
|----------|------------------|----------|------------------|----------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| 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 | | |
| 13 | +0.053 +0.042 | 19 | +0.041 +0.028 | | 131910 | 131912 | 131915 | | | 131920 | 131925 | 131930 | | |
| 14 | +0.053 +0.042 | 20 | +0.041 +0.028 | | 142010 | 142012 | 142015 | | | 142020 | 142025 | 142030 | | |
| 15 | +0.053 +0.042 | 21 | +0.041 +0.028 | | 152110 | 152112 | 152115 | 152116 | | 152120 | 152125 | 152130 | | |
| 16 | +0.053 +0.042 | 22 | +0.041 +0.028 | | 162210 | 162212 | 162215 | 162216 | 162219 | 162220 | 162225 | 162230 | | |
| 18 | +0.053 +0.042 | 24 | +0.041 +0.028 | | 182410 | 182412 | 182415 | 182416 | | 182420 | 182425 | 182430 | | |
| 20 | +0.060 +0.047 | 28 | +0.041 +0.028 | | 202810 | 202812 | 202815 | 202816 | 202819 | 202820 | 202825 | 202830 | | |
| 20 | +0.060 +0.047 | 30 | +0.041 +0.028 | | | | 203015 | 203016 | | 203020 | 203025 | 203030 | | |
| 25 | +0.065 +0.052 | 33 | +0.050 +0.034 | | | 253312 | 253315 | 253316 | | 253320 | 253325 | 253330 | | |
| 25 | +0.065 +0.052 | 35 | +0.050 +0.034 | | | | 253515 | 253516 | | 253520 | 253525 | 253530 | | |
| 28 | +0.065 +0.052 | 38 | +0.050 +0.034 | | | | | | | 283820 | 283825 | 283830 | | |
| 30 | +0.065 +0.052 | 38 | +0.050 +0.034 | | | 303812 | 303815 | | | 303820 | 303825 | 303830 | | |
| 30 | +0.065 +0.052 | 40 | +0.050 +0.034 | | | | 304015 | | | 304020 | 304025 | 304030 | | |
| 35 | +0.076 +0.060 | 44 | +0.050 +0.034 | | | | | | | 354420 | 354425 | 354430 | | |
| 35 | +0.076 +0.060 | 45 | +0.050 +0.034 | | | | | | | 354520 | 354525 | 354530 | | |
| 40 | +0.076 +0.060 | 50 | +0.050 +0.034 | | | | 405015 | | | 405020 | 405025 | 405030 | | |
| 45 | +0.081 +0.065 | 55 | +0.060 +0.041 | | | | | | | | | 455530 | | |
| 45 | +0.081 +0.065 | 60 | +0.060 +0.041 | | | | | | | | | 456030 | | |
| 50 | +0.081 +0.065 | 60 | +0.060 +0.041 | | | | | | | 506020 | | 506030 | | |
| 50 | +0.081 +0.065 | 62 | +0.060 +0.041 | | | | | | | | | 506230 | | |
| 50 | +0.081 +0.065 | 65 | +0.060 +0.041 | | | | | | | | | 506530 | | |
| 55 | +0.091 +0.072 | 70 | +0.062 +0.043 | | | | | | | | | 557030 | | |
| 60 | +0.091 +0.072 | 74 | +0.062 +0.043 | | | | | | | | | 607430 | | |
| 60 | +0.091 +0.072 | 75 | +0.062 +0.043 | | | | | | | | | 607530 | | |
| 65 | +0.091 +0.072 | 80 | +0.062 +0.043 | | | | | | | | | | | |
| 70 | +0.096 +0.077 | 85 | +0.073 +0.051 | | | | | | | | | 708530 | | |
| 70 | +0.096 +0.077 | 90 | +0.073 +0.051 | | | | | | | | | | | |
| 75 | +0.096 +0.077 | 90 | +0.073 +0.051 | | | | | | | | | | | |
| 75 | +0.096 +0.077 | 95 | +0.073 +0.051 | | | | | | | | | | | |
| 80 | +0.096 +0.077 | 96 | +0.073 +0.051 | | | | | | | | | | | |
| 80 | +0.096 +0.077 | 100 | +0.073 +0.051 | | | | | | | | | | | |
| 90 | +0.107 +0.085 | 110 | +0.076 +0.054 | | | | | | | | | | | |
| 100 | +0.107 +0.085 | 120 | +0.076 +0.054 | | | | | | | | | | | |

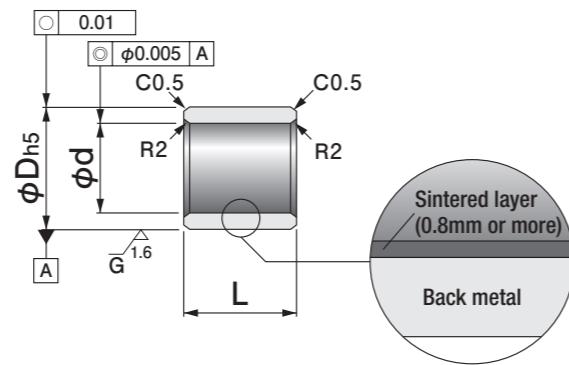
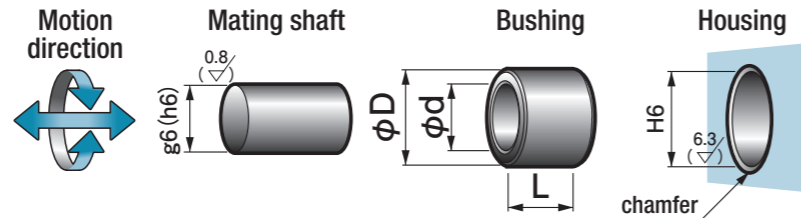
| Length L | | | | | | | | | Tolerance $\begin{smallmatrix} -0.1 \\ -0.3 \end{smallmatrix}$ | | I.D. tolerance after press fitting (reference) | |
|----------|---------|----------|----------|----------|----------|----------|-----------|-----------|--|--|--|------------------|
| 35 | 40 | 50 | 60 | 70 | 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 |

▲ The dimensional tolerances are the values measured at +25°C.



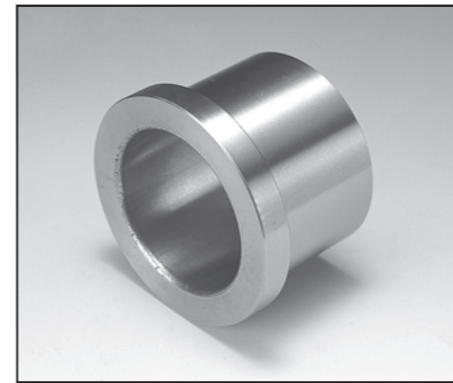
Specify Part No. by required I.D., O.D. and Length.
(e.g.) I.D. is 35mm, O.D. is 44mm, and length is 50mm.

CLB - 354450
Part No.



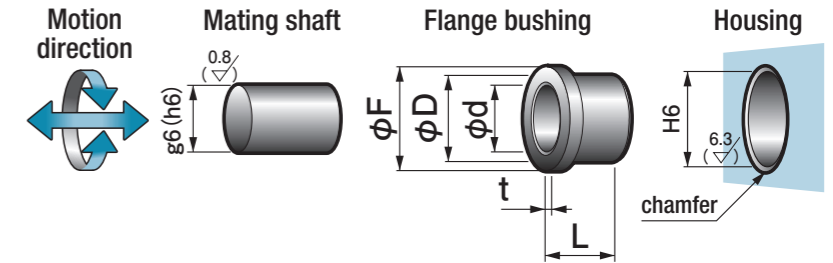
| I.D. | | O.D. | | Length L Tolerance $^{0}_{-0.3}$ | | | | | | | | | |
|----------|----------------------|----------|-----------------|----------------------------------|--------|--------|--------|--------|----------|--------|--------|-----------|-----------|
| ϕd | Tolerance | ϕD | Tolerance | 16 | 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.
- ▲ The dimensional tolerances are the values measured at +25°C.

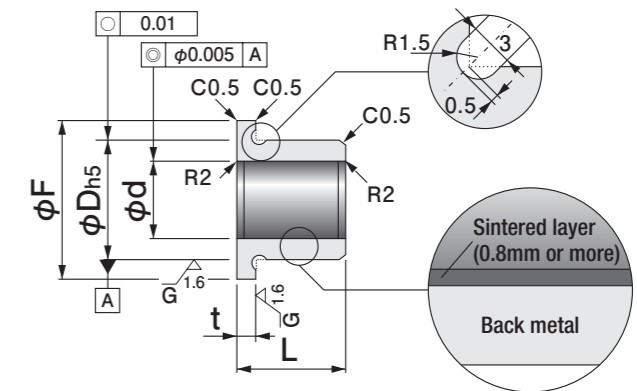
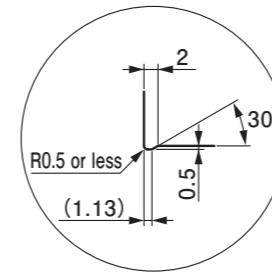


Specify Part No. by required I.D. and Length.
(e.g.) I.D. is 30mm and length is 60mm.

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 |

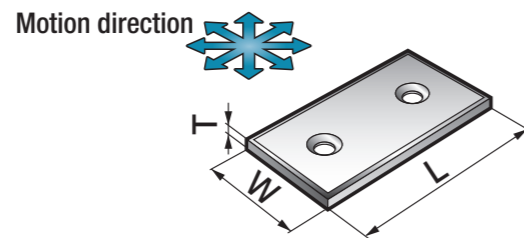
- ▲ By the combination of the highly precise article, clearance of a mating shaft and the bearings become smaller than normal combination. When use under the foreign matter environment, or operating frequency are high, please contact us.
- ▲ The dimensional tolerances are the values measured at +25°C.

CWT Oiles 2000 Wear Plates 5mm Thickness

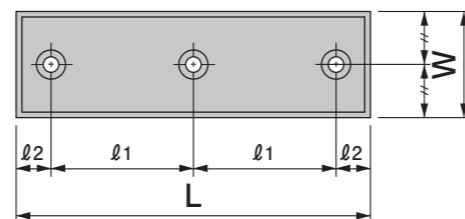
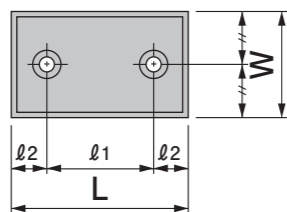


Specify Part No. by required width and length.
(e.g.) Width is 38mm and length is 150mm.

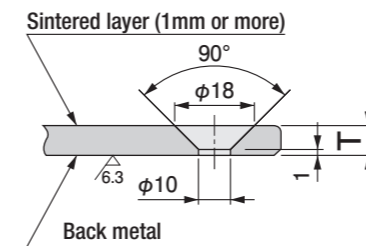
CWT - 38150
Part No.



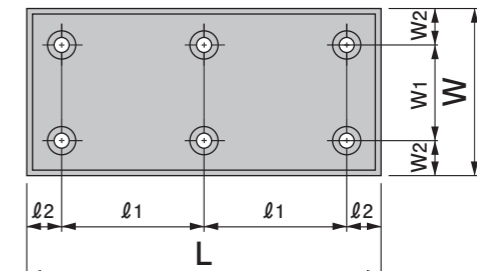
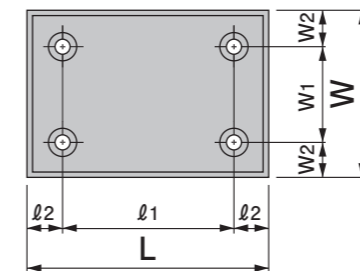
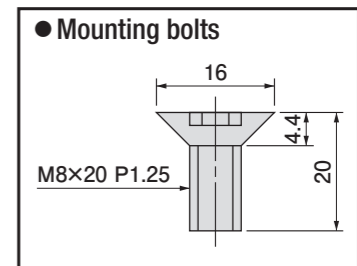
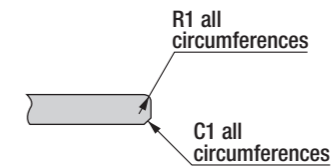
● Dedicated hexagon socket flat head bolts are attached.



Cross-section



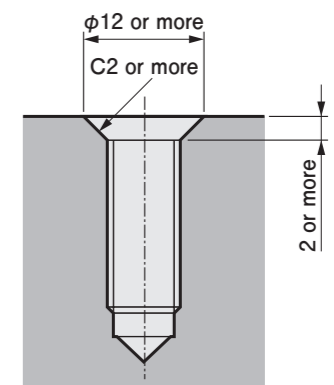
Chamfering



| 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 |

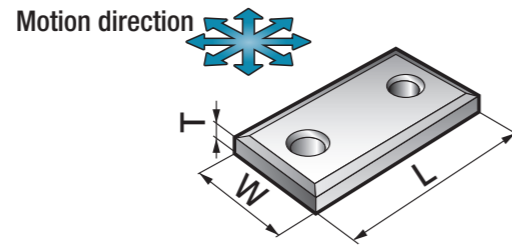
Provide the mating part with C2 or larger chamfering if it is tapped for mounting.



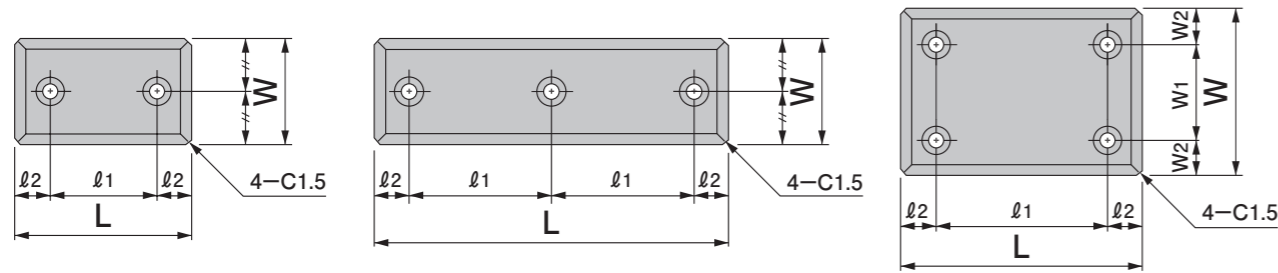


Specify Part No. by required width and length.
(e.g.) Width is 75mm and length is 125mm.

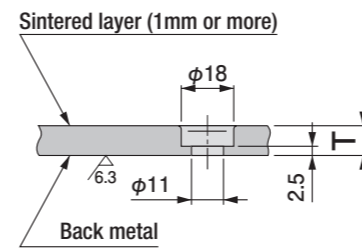
CWX - 75125
Part No.



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

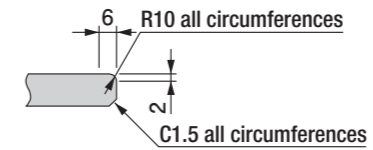


Cross-section

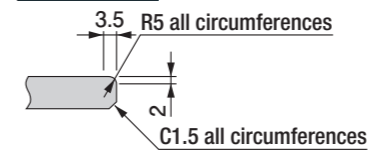


Chamfering

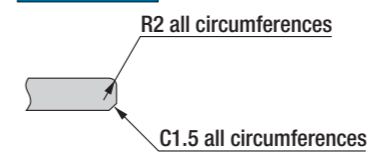
Type A



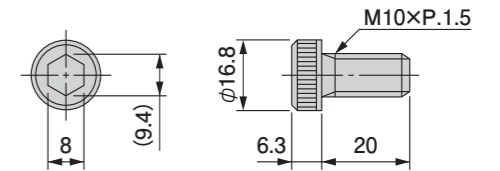
Type B



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 torque 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 | l ₁ | Tolerance | l ₂ | | |
| 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 |

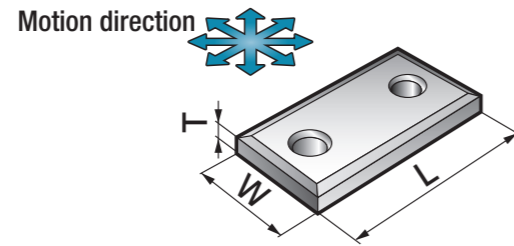
| Part No. | Width | | Length | | Thickness | | Mounting hole intervals | | | | | No. of holes | Chamfering | |
|------------|-------|-----------|--------|-----------|-----------|-----------|-------------------------|-----------|----------------|----------------|-----------|--------------|------------|----------------|
| | W | Tolerance | L | Tolerance | T | Tolerance | W ₁ | Tolerance | W ₂ | l ₁ | Tolerance | | | l ₂ |
| 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)

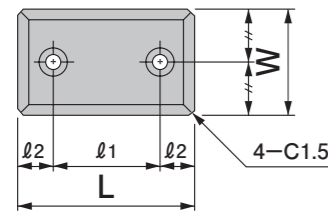


Specify Part No. by required width and length.
(e.g.) Width is 100mm and length is 200mm.

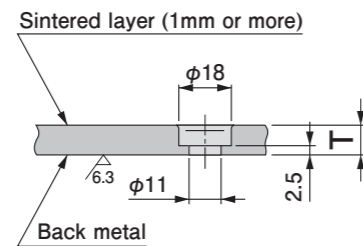
CWXT - 100200
Part No.



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

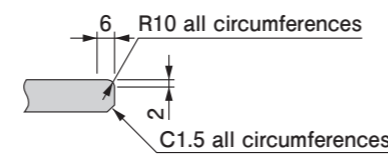


Cross-section



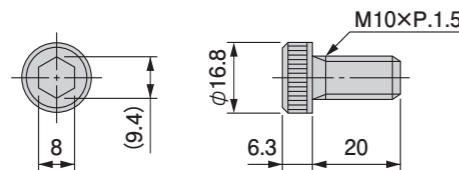
Chamfering

Type A



| Part No. | Width | | Length | | Thickness | | Mounting hole intervals | | | No. of holes | Chamfering |
|-------------|-------|-----------|--------|-----------|-----------|-----------|-------------------------|-----------|----------------|--------------|------------|
| | W | Tolerance | L | Tolerance | T | Tolerance | l ₁ | Tolerance | l ₂ | | |
| CWXT-100100 | 100 | -0.1/-0.3 | 100 | -0.1/-0.3 | 10 | ±0.01 | 50 | ±0.2 | 25 | 2 | A |
| CWXT-100125 | 100 | -0.1/-0.3 | 125 | -0.1/-0.3 | 10 | ±0.01 | 75 | ±0.2 | 25 | 2 | A |
| CWXT-100150 | 100 | -0.1/-0.3 | 150 | -0.1/-0.3 | 10 | ±0.01 | 100 | ±0.2 | 25 | 2 | A |
| CWXT-100200 | 100 | -0.1/-0.3 | 200 | -0.1/-0.3 | 10 | ±0.01 | 150 | ±0.2 | 25 | 2 | A |
| CWXT-100250 | 100 | -0.1/-0.3 | 250 | -0.1/-0.3 | 10 | ±0.01 | 200 | ±0.2 | 25 | 2 | A |
| CWXT-100300 | 100 | -0.1/-0.3 | 300 | -0.1/-0.3 | 10 | ±0.01 | 200 | ±0.2 | 50 | 2 | A |
| CWXT-125125 | 125 | -0.1/-0.3 | 125 | -0.1/-0.3 | 10 | ±0.01 | 75 | ±0.2 | 25 | 2 | A |
| CWXT-125150 | 125 | -0.1/-0.3 | 150 | -0.1/-0.3 | 10 | ±0.01 | 100 | ±0.2 | 25 | 2 | A |
| CWXT-125200 | 125 | -0.1/-0.3 | 200 | -0.1/-0.3 | 10 | ±0.01 | 150 | ±0.2 | 25 | 2 | A |
| CWXT-125250 | 125 | -0.1/-0.3 | 250 | -0.1/-0.3 | 10 | ±0.01 | 200 | ±0.2 | 25 | 2 | A |
| CWXT-125300 | 125 | -0.1/-0.3 | 300 | -0.1/-0.3 | 10 | ±0.01 | 200 | ±0.2 | 50 | 2 | A |
| CWXT-150150 | 150 | -0.1/-0.3 | 150 | -0.1/-0.3 | 10 | ±0.01 | 100 | ±0.2 | 25 | 2 | A |
| CWXT-150200 | 150 | -0.1/-0.3 | 200 | -0.1/-0.3 | 10 | ±0.01 | 150 | ±0.2 | 25 | 2 | A |
| CWXT-150250 | 150 | -0.1/-0.3 | 250 | -0.1/-0.3 | 10 | ±0.01 | 200 | ±0.2 | 25 | 2 | A |

- LHS Exclusive Bolt for CWXT
(Part No. : LHS-M1020)



- Exclusive bolt LHS-M1020 is attached to CWXT plate.
- The Exclusive bolt has approximate breaking torque 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] |

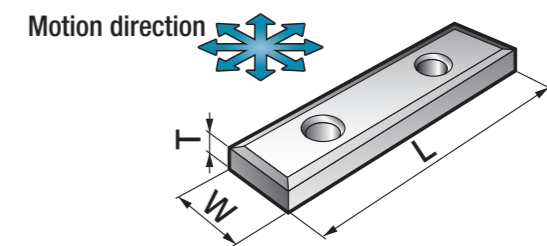
※ Bolt itself is on sale.

CWA Oiles 2000 Wear Plates 10mm Thickness

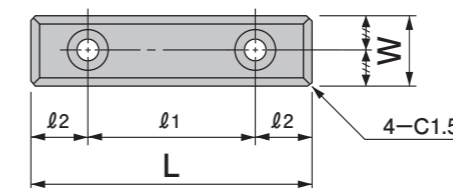


Specify Part No. by required width and length.
(e.g.) Width is 18mm and length is 100mm.

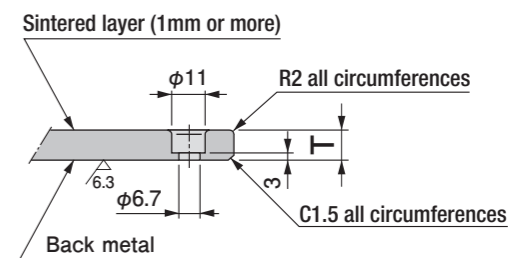
CWA - 18100 N
Part No.



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



Cross-section

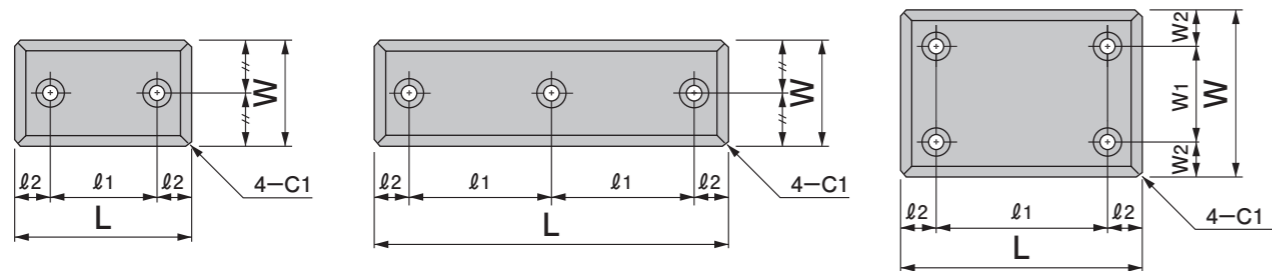
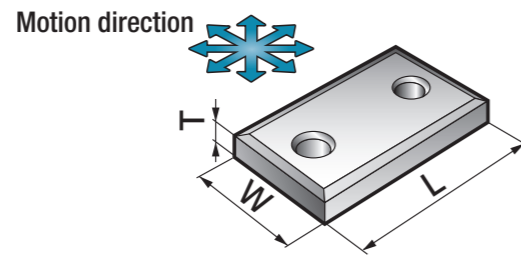


| Part No. | Width | | Length | | Thickness | | Mounting hole intervals | | | No. of holes |
|------------|-------|-----------|--------|-----------|-----------|-----------|-------------------------|-----------|----------------|--------------|
| | W | Tolerance | L | Tolerance | T | Tolerance | l ₁ | Tolerance | l ₂ | |
| 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 |

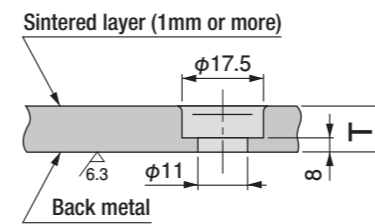


Specify Part No. by required width and length.
(e.g.) Width is 58mm and length is 150mm.

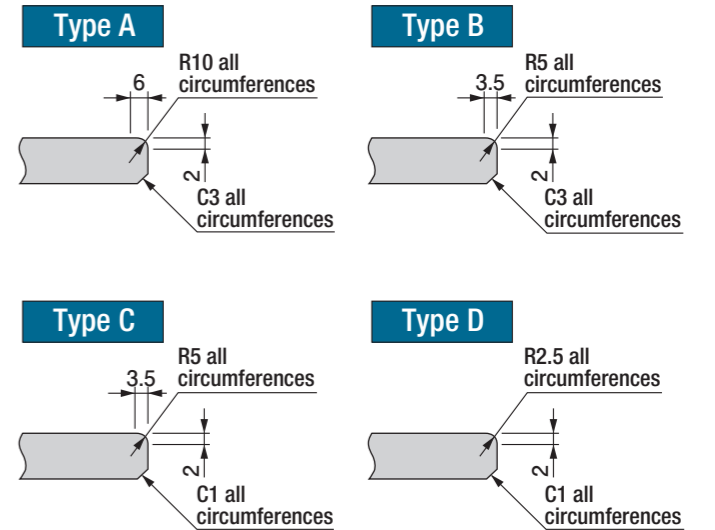
CWP - 58150
Part No.



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 |

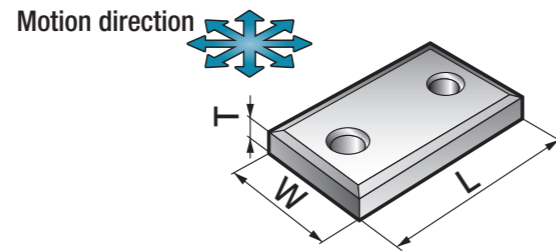
| Part No. | Width | | Length | | Thickness | | Mounting hole intervals | | | | | Attach bolts | | Chamfering | |
|-------------------|-------|-----------|--------|-----------|-----------|-----------|-------------------------|-----------|------|-----|-----------|--------------|-------------------------|------------|-----|
| | 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)

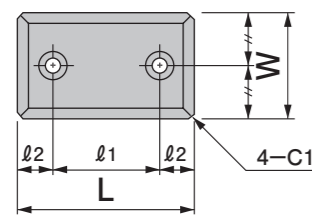


Specify Part No. by required width and length.
(e.g.) Width is 125mm and length is 150mm.

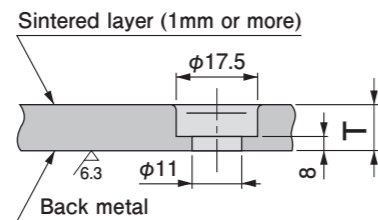
CWPT - 125150
Part No.



● CTP series were renamed CWPT series.

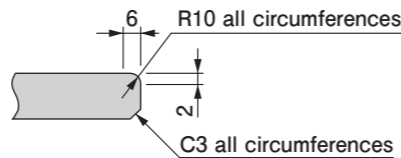


Cross-section



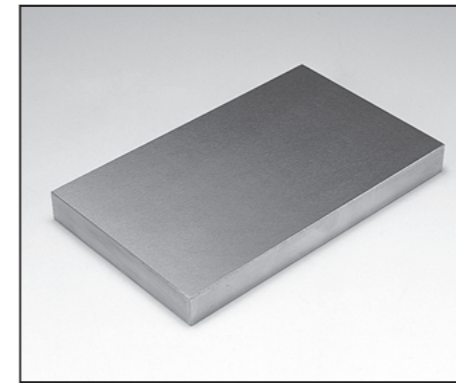
Chamfering

Type A



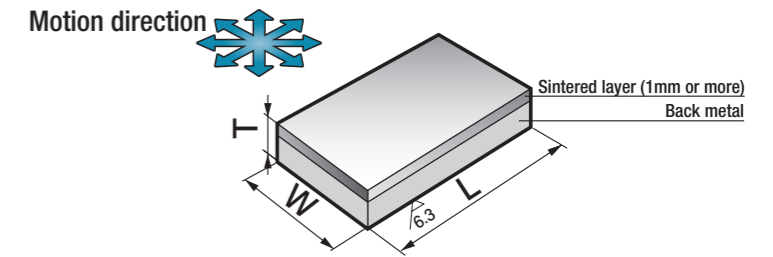
| Part No. | Width | | Length | | Thickness | | Mounting hole intervals | | | Attach bolts | | Chamfering |
|--------------------|-------|-----------|--------|-----------|-----------|-----------|-------------------------|-----------|----|-------------------------|-----|------------|
| | W | Tolerance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

CWI Oiles 2000 Plates for Additional Machining



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

CWI - 10020015
Part No.



- 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 250 when you machined the plate.

| Part No. | Width | | Length | | Thickness | |
|---------------------|-------|-----------|--------|-----------|-----------|-----------|
| | W | Tolerance | L | Tolerance | T | Tolerance |
| CWI-504806 | 50 | ±0.02 | 480 | ±0.02 | 6 | ±0.02 |
| CWI-504808 | 50 | ±0.02 | 480 | ±0.02 | 8 | ±0.02 |
| CWI-10020010 | 100 | ±0.02 | 200 | ±0.02 | 10 | ±0.02 |
| CWI-4048010 | 40 | ±0.02 | 480 | ±0.02 | 10 | ±0.02 |
| CWI-15048010 | 150 | ±0.02 | 480 | ±0.02 | 10 | ±0.02 |
| CWI-10020012 | 100 | ±0.02 | 200 | ±0.02 | 12 | ±0.02 |
| CWI-15048012 | 150 | ±0.02 | 480 | ±0.02 | 12 | ±0.02 |
| CWI-10020015 | 100 | ±0.02 | 200 | ±0.02 | 15 | ±0.02 |
| CWI-15048015 | 150 | ±0.02 | 480 | ±0.02 | 15 | ±0.02 |
| CWI-12020020 | 120 | ±0.02 | 200 | ±0.02 | 20 | ±0.02 |
| CWI-15025020 | 150 | ±0.02 | 250 | ±0.02 | 20 | ±0.02 |
| CWI-15042020 | 150 | ±0.02 | 420 | ±0.02 | 20 | ±0.02 |
| CWI-10015025 | 100 | ±0.02 | 150 | ±0.02 | 25 | ±0.02 |
| CWI-15025025 | 150 | ±0.02 | 250 | ±0.02 | 25 | ±0.02 |
| CWI-15025030 | 150 | ±0.02 | 250 | ±0.02 | 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 | — | — | — | — | — |
| Flat filler head screw | M | M5 | M6 | M8 | — | — | — | — | — |
| | A | 0.7 | 1.6 | 1.8 | — | — | — | — | — |
| | d | 5.5 | 6.6 | 9 | — | — | — | — | — |
| | d1 | 10 | 12 | 16 | — | — | — | — | — |
| 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.