# Plaques configurables - cuivre / laiton

## Plaques en cuivre contenant de l'oxygène / cuivre exempt d'oxygène / cuivre chromé / laiton

Fraisage de 4 surfaces (laminé)

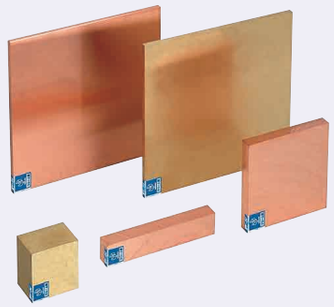
Fraisage de 6 surfaces

**■Caractéristiques des cuivres contenant de l'oxygène**
C'est le cuivre le plus couramment utilisé, avec d'excellentes qualités de conductivité électrique et thermique.

**■Caractéristiques du cuivre exempt d'oxygène**
Cuivre de la plus grande pureté disponible dans le commerce. Sa nature exempte d'oxygène évite sa fragilisation par l'hydrogène.

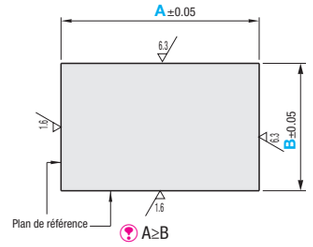
**■Caractéristiques du cuivre chromé**
Excellentes résistance mécanique et à l'abrasion à température élevée.

**■Caractéristiques des plaques en laiton**
Excellentes solidité et ductilité.



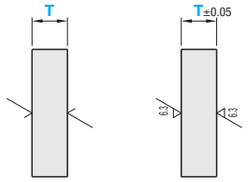
RoHS10

| Référence pièce | Ⓜ Matériau |
|---|---|
| CTAP□ | Cuivre contenant de l'oxygène JIS H3100 C1100P-1/4 |
| CJAP□ | Cuivre exempt d'oxygène JIS H3100 C1020P-1/2 |
| CCSP□ | Cuivre chromé JIS Z3234 classe 2 |
| C28P□ | Plaque en laiton JIS H3100 C2801P-1/4 |




(Laminé) C □□ PL

(Fraisé) C□□PF




| Référence pièce | | Incrément de 0,1 mm | | T |
|---|---|---|---|---|
| Type | Finition des surfaces supérieure et inférieure | A | B | Sélectionnable/configurable |
| | | A≥B | | |
| CTAP (cuivre contenant de l'oxygène)<br>CJAP (cuivre exempt d'oxygène)<br>CCSP (cuivre chromé)<br>C28P (plaque en laiton) | *L (laminé) | 6~300 | 6~300 | 5, 6, 8, 10, 12, 15, 20, 25, 30 |
| | F (fraisé) | 16~300 | 6~300 | 3~30 (incrément de 0.1mm) |

* Quand CCSP (cuivre chromé) et L (laminé) sont sélectionnés, les tailles T15 ou supérieures sont des produits moulés et corroyés.

### ■Qualités de précision

(valeur max.)

| Elément | Finition des surfaces supérieure et inférieure | |
|---|---|---|
| | L (laminé) | F (fraisé) |
| Parallélisme (par 100mm) | - | 0.02 ou inf. |
| Planéité (par 100mm) | 2mm (par 1000 mm) | 0.02 ou inf. |
| Perpendicularité (par 100mm) | 0.02 ou inf. | |
| Chanfreinage de la circonférence | C0.1 Chanfreinage fin | |

### ■Tolérance de l'épaisseur de la plaque

| Finition des surfaces supérieure et inférieure | T | | | | | |
|---|---|---|---|---|---|---|
| L (laminé) | 5 | 6, 8 | 10, 12 | 15, 20 | 25 | 30 |
| | ±0.18 | ±0.23 | ±0.28 | ±0.35 | ±0.55 | ±0.66 |
| F (fraisé) | ±0.05 | | | | | |

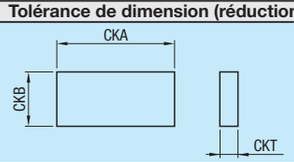
**Ordering Example**

| Référence pièce | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Type | Finition des surfaces supérieure et inférieure | - | A | - | B | - | T |
| C28P | F | - | 255.3 | - | 221.1 | - | 18.9 |

**Alterations**

| Référence pièce | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | - | A | - | B | - | T | -(CKA, CKB···etc.) |
| C28PF | - | 255.3 | - | 221.1 | - | 18.9 | - CKT |

| | |
|---|---|
| Modifications | Tolérance de dimension (réduction) |
| Code | CKA, CKB, CKT |
| Spéc. | Améliore la tolérance de dimension.<br>±0.05→±0.025<br>Code de commande<br>CKA pour la dimension A<br>CKB pour la dimension B<br>CKT pour la dimension T<br>Convient uniquement au fraisage. |




| | Code |
|---|---|
| A (longueur) | CKA |
| B (largeur) | CKB |
| T (épaisseur de plaque) | CKT |

(Ex.) Pour CTAPL-220.3-100-10

Dimension A x Prix unitaire de la surface = Prix

### ■CTAPL (cuivre contenant de l'oxygène, fraisage et laminage de 4 surfaces)

| A \ B \ T | 5 | 6 | 8 | 10 | 12 | 15 | 20 | 25 | 30 |
|---|---|---|---|---|---|---|---|---|---|
| 6 ~ 50 | 6~10 | | | | | - | - | - | - |
| 50.1~ 100 | | | | | | - | - | - | - |
| 100.1~ 150 | | | | | | - | - | - | - |
| 150.1~ 200 | | | | | | - | - | - | - |
| 200.1~ 250 | | | | | | - | - | - | - |
| 250.1~ 300 | | | | | | - | - | - | - |
| 10.1~ 50 | 10.1~15 | | | | | | | - | - |
| 50.1~ 100 | | | | | | | | - | - |
| 100.1~ 150 | | | | | | | | - | - |
| 150.1~ 200 | | | | | | | | - | - |
| 200.1~ 250 | | | | | | | | - | - |
| 250.1~ 300 | | | | | | | | - | - |
| 15.1~ 50 | 15.1~20 | | | | | | | | |
| 50.1~ 100 | | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 20.1~ 100 | 20.1~30 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 30.1~ 100 | 30.1~40 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 40.1~ 100 | 40.1~60 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 60.1~ 100 | 60.1~80 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 80.1~ 150 | 80.1~100 | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 100.1~ 150 | 100.1~146 | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 146.1~ 250 | 146.1~200 | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 200.1~ 300 | 200.1~250 | | | | | | | | |
| 250.1~ 300 | 250.1~300 | | | | | | | | |

### ■CJAPL (cuivre exempt d'oxygène, fraisage et laminage de 4 surfaces)

| A \ B \ T | 5 | 6 | 8 | 10 | 12 | 15 | 20 | 25 | 30 |
|---|---|---|---|---|---|---|---|---|---|
| 6 ~ 50 | 6~10 | | | | | - | - | - | - |
| 50.1~ 100 | | | | | | - | - | - | - |
| 100.1~ 150 | | | | | | - | - | - | - |
| 150.1~ 200 | | | | | | - | - | - | - |
| 200.1~ 250 | | | | | | - | - | - | - |
| 250.1~ 300 | | | | | | - | - | - | - |
| 10.1~ 50 | 10.1~15 | | | | | | | - | - |
| 50.1~ 100 | | | | | | | | - | - |
| 100.1~ 150 | | | | | | | | - | - |
| 150.1~ 200 | | | | | | | | - | - |
| 200.1~ 250 | | | | | | | | - | - |
| 250.1~ 300 | | | | | | | | - | - |
| 15.1~ 50 | 15.1~20 | | | | | | | | |
| 50.1~ 100 | | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 20.1~ 100 | 20.1~30 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 30.1~ 100 | 30.1~40 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 40.1~ 100 | 40.1~60 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 60.1~ 100 | 60.1~80 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 80.1~ 150 | 80.1~100 | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 100.1~ 150 | 100.1~146 | | | | | | | | |
| 150.1~ 200 | | | | | | | | | |
| 200.1~ 250 | | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 146.1~ 250 | 146.1~200 | | | | | | | | |
| 250.1~ 300 | | | | | | | | | |
| 200.1~ 300 | 200.1~250 | | | | | | | | |
| 250.1~ 300 | 250.1~300 | | | | | | | | |

### ■CTAPF (cuivre contenant de l'oxygène, fraisage 6 surfaces)

| A \ B \ T | 3~3.9 | 4~4.9 | 5~5.9 | 6~7.9 | 8~9.9 | 10~14.9 | 15~19.9 | 20~24.9 | 25~30 |
|---|---|---|---|---|---|---|---|---|---|
| 16 ~ 50 | 6~10 | | | | | - | - | - | - |
| 50.1~ 100 | | | | | | - | - | - | - |
| 100.1~ 150 | | | | | | - | - | - | - |
| 16 ~ 50 | 10.1~15 | | | | | | - | - | - |
| 50.1~ 100 | | | | | | | - | - | - |
| 100.1~ 150 | | | | | | | - | - | - |
| 150.1~ 200 | - | - | - | | | | - | - | - |
| 200.1~ 250 | - | - | - | | | | - | - | - |
| 250.1~ 300 | - | - | - | | | | - | - | - |
| 16 ~ 50 | 15.1~20 | | | | | | | - | - |
| 50.1~ 100 | | | | | | | | - | - |
| 100.1~ 150 | | | | | | | | - | - |
| 150.1~ 200 | - | - | - | | | | | - | - |
| 200.1~ 250 | - | - | - | | | | | - | - |
| 250.1~ 300 | - | - | - | | | | | - | - |
| 20.1~ 100 | 20.1~25 | | | | | | | | - |
| 100.1~ 150 | | | | | | | | | - |
| 150.1~ 200 | - | - | - | | | | | | - |
| 200.1~ 250 | - | - | - | | | | | | - |
| 250.1~ 300 | - | - | - | | | | | | - |
| 25.1~ 100 | 25.1~40 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 40.1~ 100 | 40.1~60 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 60.1~ 100 | 60.1~80 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 80.1~ 150 | 80.1~100 | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 100.1~ 150 | 100.1~146 | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 146.1~ 250 | 146.1~200 | - | - | - | - | | | | |
| 250.1~ 300 | | - | - | - | - | | | | |
| 200.1~ 300 | 200.1~250 | - | - | - | - | | | | |
| 250.1~ 300 | 250.1~300 | - | - | - | - | | | | |

### ■CJAPF (cuivre exempt d'oxygène, fraisage 6 surfaces)

| A \ B \ T | 3~3.9 | 4~4.9 | 5~5.9 | 6~7.9 | 8~9.9 | 10~14.9 | 15~19.9 | 20~24.9 | 25~30 |
|---|---|---|---|---|---|---|---|---|---|
| 16 ~ 50 | 6~10 | | | | | - | - | - | - |
| 50.1~ 100 | | | | | | - | - | - | - |
| 100.1~ 150 | | | | | | - | - | - | - |
| 16 ~ 50 | 10.1~15 | | | | | | - | - | - |
| 50.1~ 100 | | | | | | | - | - | - |
| 100.1~ 150 | | | | | | | - | - | - |
| 150.1~ 200 | - | - | - | | | | - | - | - |
| 200.1~ 250 | - | - | - | | | | - | - | - |
| 250.1~ 300 | - | - | - | | | | - | - | - |
| 16 ~ 50 | 15.1~20 | | | | | | | - | - |
| 50.1~ 100 | | | | | | | | - | - |
| 100.1~ 150 | | | | | | | | - | - |
| 150.1~ 200 | - | - | - | | | | | - | - |
| 200.1~ 250 | - | - | - | | | | | - | - |
| 250.1~ 300 | - | - | - | | | | | - | - |
| 20.1~ 100 | 20.1~25 | | | | | | | | - |
| 100.1~ 150 | | | | | | | | | - |
| 150.1~ 200 | - | - | - | | | | | | - |
| 200.1~ 250 | - | - | - | | | | | | - |
| 250.1~ 300 | - | - | - | | | | | | - |
| 25.1~ 100 | 25.1~40 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 40.1~ 100 | 40.1~60 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 60.1~ 100 | 60.1~80 | | | | | | | | |
| 100.1~ 150 | | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 80.1~ 150 | 80.1~100 | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 100.1~ 150 | 100.1~146 | | | | | | | | |
| 150.1~ 200 | - | - | - | | | | | | |
| 200.1~ 250 | - | - | - | | | | | | |
| 250.1~ 300 | - | - | - | | | | | | |
| 146.1~ 250 | 146.1~200 | - | - | - | - | | | | |
| 250.1~ 300 | - | - | - | - | | | | | |
| 200.1~ 300 | 200.1~250 | - | - | - | - | | | | |
| 250.1~ 300 | 250.1~300 | - | - | - | - | | | | |

Pour la liste des prix des plaques en cuivre chromé et en laiton, se reporter à la page suivante.