

SHINKOKI

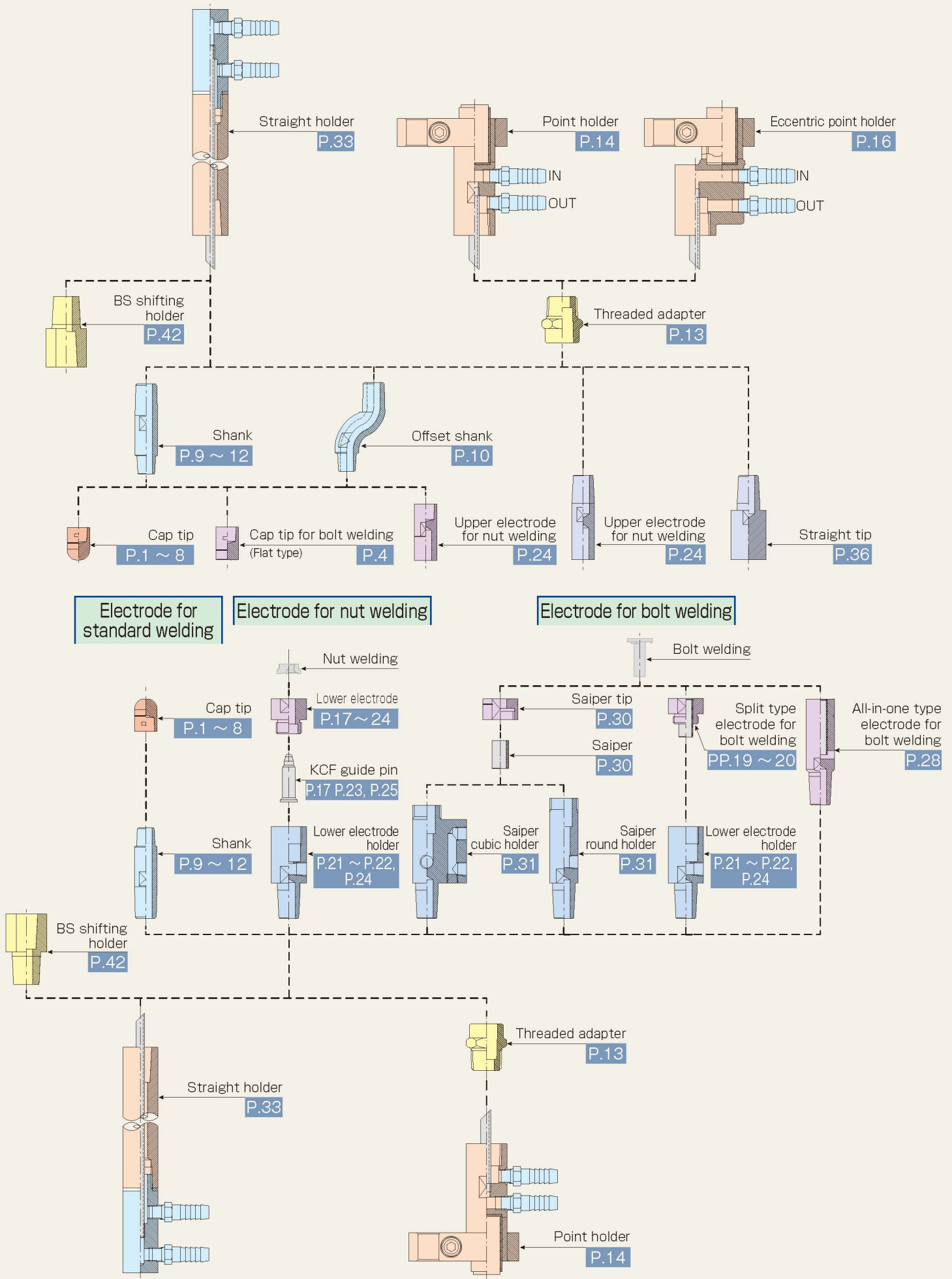


**General catalogue
on welding electrode**



SHINKOKIKI Co., Ltd.

Products name and their setting



CAP TIP 1~8

- Standard shape
- Original shape
- Cap tip remover

SHANK 9~10

- Straight shank
- Offset shank

ORIGINAL SHANK 11~12

- Stepped shank
- Straight shank

THREADED ADAPTER 13

POINT HOLDER/ECCENTRIC POINT HOLDER 14~16

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LOWER ELECTRODE FOR NUT WELDING (ORIGINAL) 17~22

- KCF guide pin
- Lower electrode
- Lower electrode holder

LOWER ELECTRODE FOR NUT WELDING (TOYOTA) 23~24

- KCF guide pin
- Lower electrode
- Lower electrode holder

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DEVICES FOR GOOD WELDING 32

- Water cooling jacket

STRAIGHT HOLDER / L-SHAPED HOLDER 33~34

- Straight holder / L-shaped holder

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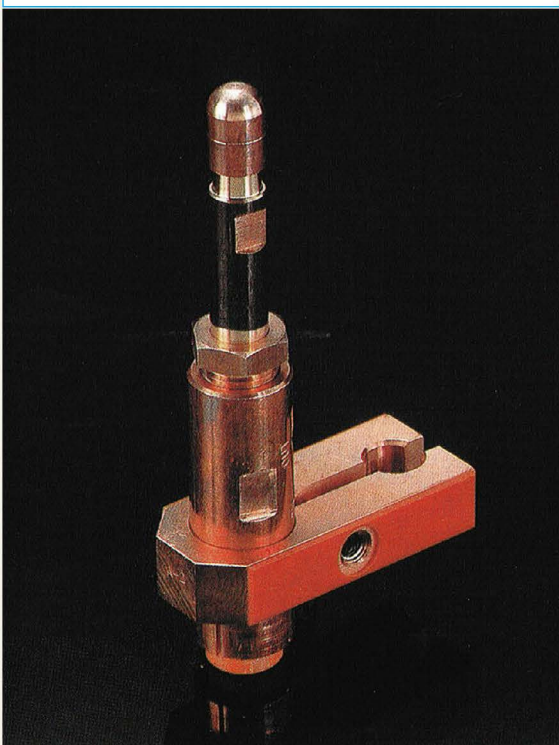
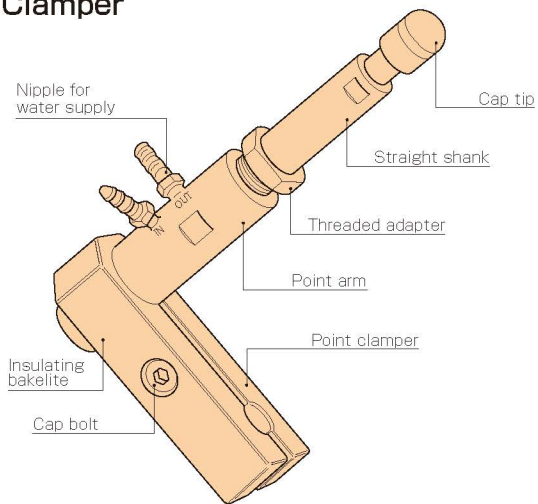
- Insert electrode / Base tip

SPOT TIP 36~43

- Straight tip
- Offset tip
- Swivel tip
- CuBe insert tip holder
- Insert tip
- CuBe insert holder cap nut type
- BS insert holder
- Gun shank
- Gun tip
- Triangular holder
- BS horn
- BS shifting holder
- CuCr shifting holder
- Shifting holder

CABLE / TRANSFORMER ADAPTER 44

Clamper



Cap tip

Electrode contacting with work (object to be welded)

Application

- ▶ This will be used mainly as replacing electrode as attaching and replacing electrode tip for Shank or Gun-arm (Holder) etc.

Features

- ① Selection of material are Copper chrome alloy (a/C), Copper chrome zirconium alloy (Z), Dispersion strengthen copper alumina alloy (D) and Eco alloy (e) to meet welding condition, welding object and etc.
- ② By usage of cap tip, cooling water can go through to tip of electrode that reduce lowering in heat conductivity and protect from softening of the tip of electrode.

Material **16 × 6** **Tip shape**

Outer diameter

Tip diameter

A, R, E, P, F

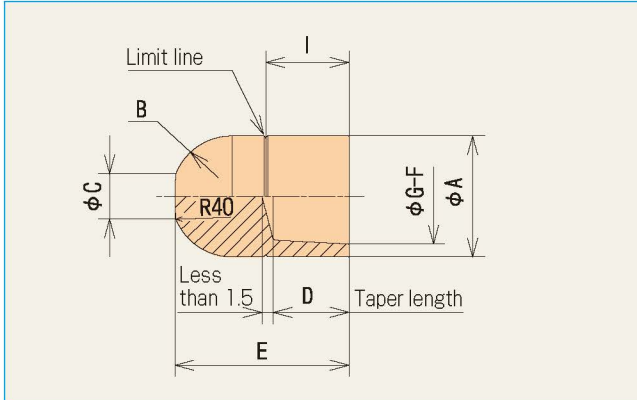
| | |
|--------|--------------------------------------------|
| CZ, ZP | CuCrZr |
| C | CuCr |
| CD | Dispersion strengthen copper alumina alloy |
| e | Eco alloy |



Standard shape

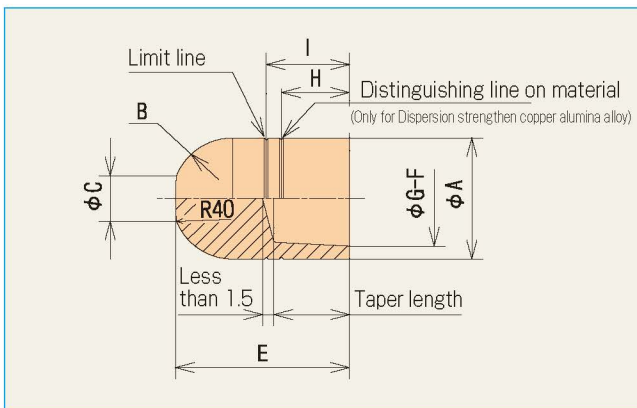
Type A

Order code
 Material $\text{A} \times \text{C} \text{A}$ (\varnothing) (\varnothing) (Tip shape)



Unit : mm

| Model | Size | | | | | | | | |
|---------------------------------|------|-------|----|----|----|-------|------|---|------|
| | A | (R) B | C | D | E | F | G | H | I |
| Material : CZ (CuCrZr) | | | | | | | | | |
| ZP16X6A | 16 | 8 | 6 | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| CZ16X8A | 16 | 8 | 8 | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| CZ16X12A | 16 | 2 | 12 | 10 | 23 | 1/9.6 | 12.6 | - | 15 |
| CZ13X6A | 13 | 8 | 6 | 9 | 20 | 1/9.6 | 10.0 | - | 11 |
| Material : C (CuCr) | | | | | | | | | |
| C19X8A | 19 | 8 | 8 | 15 | 25 | 1/10 | 14 | - | 11.5 |
| Material : e (Eco alloy) | | | | | | | | | |
| e16X6A | 16 | 8 | 6 | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| e13X6A | 13 | 8 | 6 | 9 | 20 | 1/9.6 | 10.0 | - | 11 |

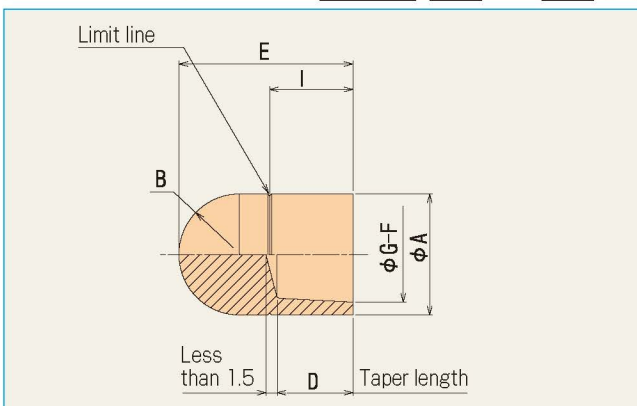


Unit : mm

| Model | Size | | | | | | | | |
|-------------------------------------------------------------------|------|-------|---|------|----|-------|------|---|----|
| | A | (R) B | C | D | E | F | G | H | I |
| Material : CD (Dispersion strengthen copper alumina alloy) | | | | | | | | | |
| CD16X6A | 16 | 8 | 6 | 10.0 | 23 | 1/9.6 | 12.6 | 9 | 11 |
| CD13X6A | 13 | 8 | 6 | 9.5 | 20 | 1/9.6 | 10.0 | 9 | 11 |

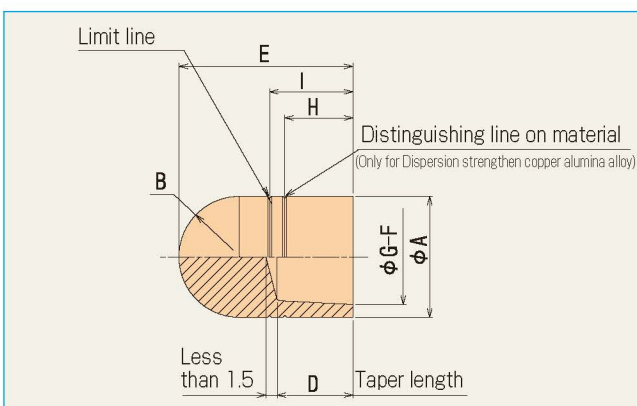
Type R

Order code
 Material $\text{A} \times \text{B} \text{R}$ (\varnothing) (R) (Tip shape)



Unit : mm

| Model | Size | | | | | | | | |
|---------------------------------|------|-------|---|----|----|-------|------|---|----|
| | A | (R) B | C | D | E | F | G | H | I |
| Material : CZ (CuCrZr) | | | | | | | | | |
| CZ16X8R | 16 | 8 | - | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| CZ13X6.5R | 13 | 6.5 | - | 9 | 20 | 1/9.6 | 10.0 | - | 11 |
| Material : e (Eco alloy) | | | | | | | | | |
| e16X8R | 16 | 8 | - | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| e13X6.5R | 13 | 6.5 | - | 9 | 20 | 1/9.6 | 10.0 | - | 11 |



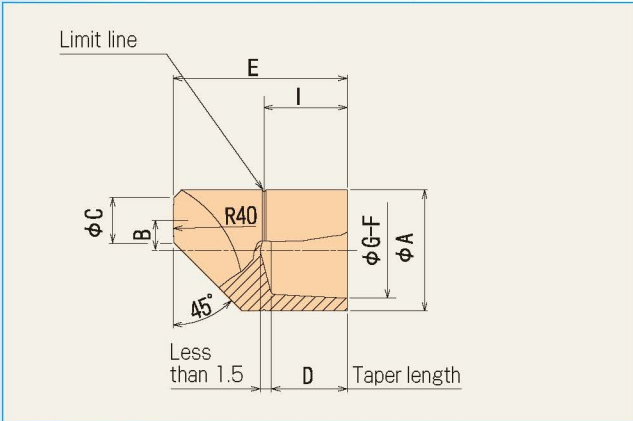
Unit : mm

| Model | Size | | | | | | | | |
|-------------------------------------------------------------------|------|-------|---|----|----|-------|------|---|----|
| | A | (R) B | C | D | E | F | G | H | I |
| Material : CD (Dispersion strengthen copper alumina alloy) | | | | | | | | | |
| CD16X8R | 16 | 8 | - | 10 | 23 | 1/9.6 | 12.6 | 9 | 11 |
| CD13X6.5R | 13 | 6.5 | - | 9 | 20 | 1/9.6 | 10.0 | 9 | 11 |

Order code

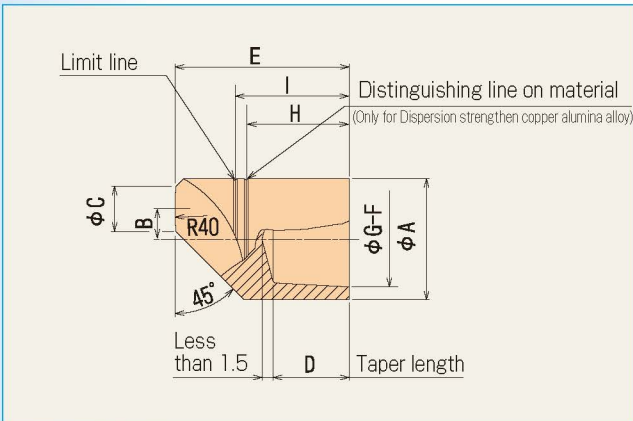
Material \emptyset **A** X \emptyset (Tip shape) **C** **E**

Type E



Unit : mm

| Model | Size | | | | | | | | |
|------------------------|------|---|---|----|----|-------|------|---|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CZ (CuCrZr) | | | | | | | | | |
| CZ16X6E | 16 | 4 | 6 | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| CZ13X6E | 13 | 3 | 6 | 9 | 20 | 1/9.6 | 10.0 | - | 11 |



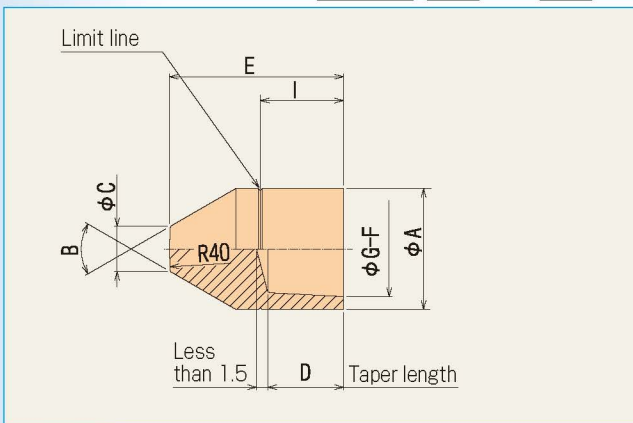
Unit : mm

| Model | Size | | | | | | | | |
|------------------------------------------------------------|------|---|---|----|----|-------|------|----|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CD (Dispersion strengthen copper alumina alloy) | | | | | | | | | |
| CD16X6E | 16 | 4 | 6 | 10 | 23 | 1/9.6 | 12.6 | 14 | 16 |
| CD13X6E | 13 | 3 | 6 | 9 | 20 | 1/9.6 | 10 | 12 | 14 |

Order code

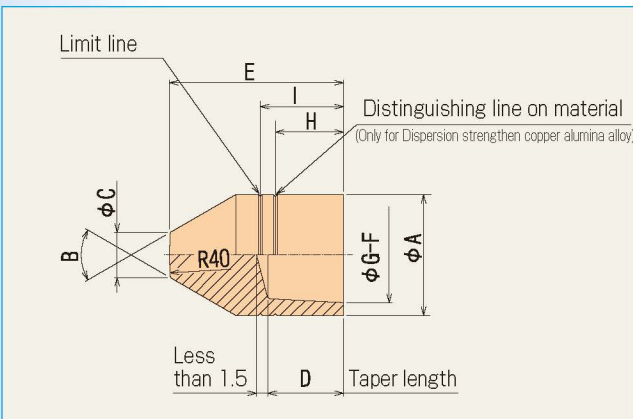
Material \emptyset **A** X \emptyset (Tip shape) **C** **P**

Type P



Unit : mm

| Model | Size | | | | | | | | |
|------------------------|------|-----|---|----|----|-------|------|---|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CZ (CuCrZr) | | | | | | | | | |
| CZ16X6P | 16 | 60° | 6 | 10 | 23 | 1/9.6 | 12.6 | - | 11 |
| CZ13X6P | 13 | 60° | 6 | 9 | 20 | 1/9.6 | 10.0 | - | 11 |



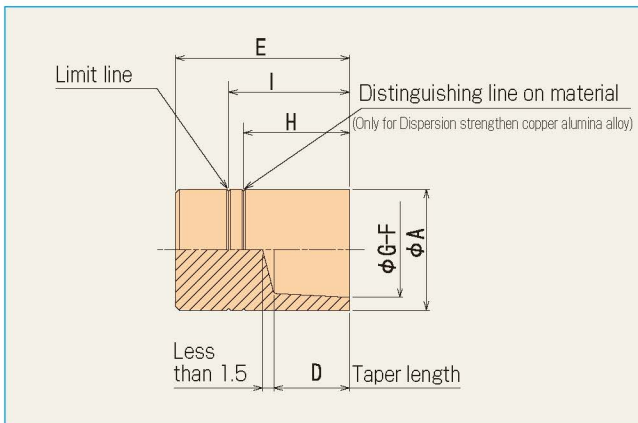
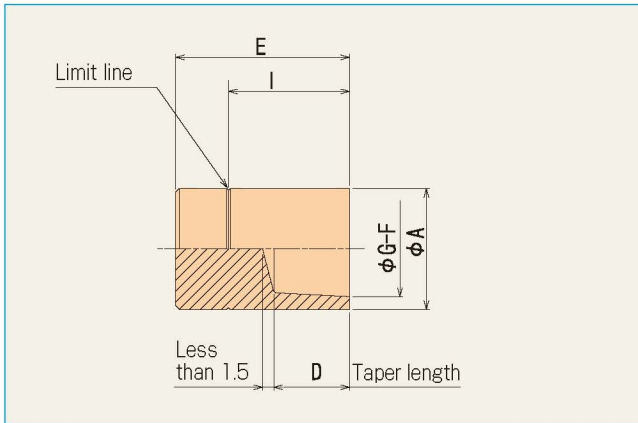
Unit : mm

| Model | Size | | | | | | | | |
|------------------------------------------------------------|------|-----|---|----|----|-------|------|---|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CD (Dispersion strengthen copper alumina alloy) | | | | | | | | | |
| CD16X6P | 16 | 60° | 6 | 10 | 23 | 1/9.6 | 12.6 | 9 | 11 |
| CD13X6P | 13 | 60° | 6 | 9 | 20 | 1/9.6 | 10 | 9 | 11 |

Order code

Material **A** \emptyset **XF** (Tip shape)

Type F



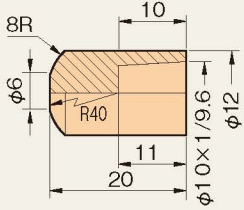
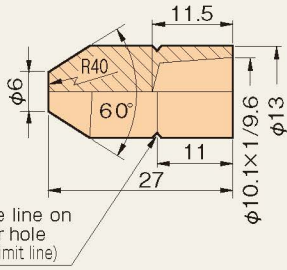
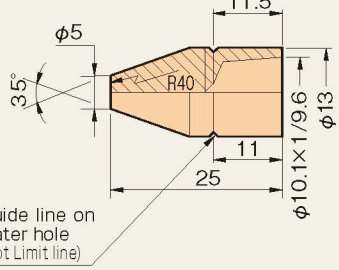
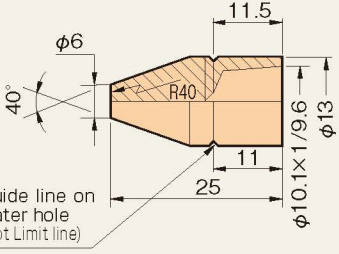
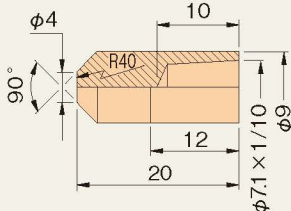
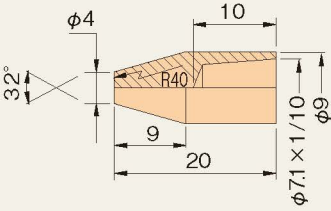
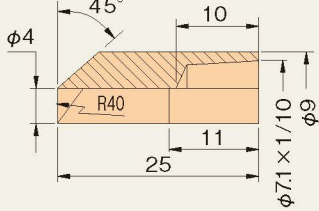
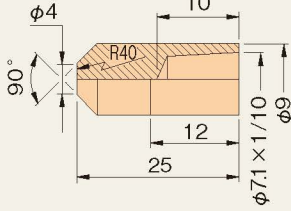
Unit : mm

| Model | Size | | | | | | | | |
|---------------------------------|------|---|---|----|----|-------|------|---|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CZ (CuCrZr) | | | | | | | | | |
| CZ16XF | 16 | - | - | 10 | 23 | 1/9.6 | 12.6 | - | 16 |
| CZ13XF | 13 | - | - | 9 | 20 | 1/9.6 | 10.1 | - | 14 |
| Material : e (Eco alloy) | | | | | | | | | |
| e16XF | 16 | - | - | 10 | 23 | 1/9.6 | 12.6 | - | 16 |
| e13XF | 13 | - | - | 9 | 20 | 1/9.6 | 10.0 | - | 14 |
| Material : C (CuCr) | | | | | | | | | |
| C-19XF | 19 | - | - | 15 | 25 | 1/10 | 14 | - | 22 |

Unit : mm

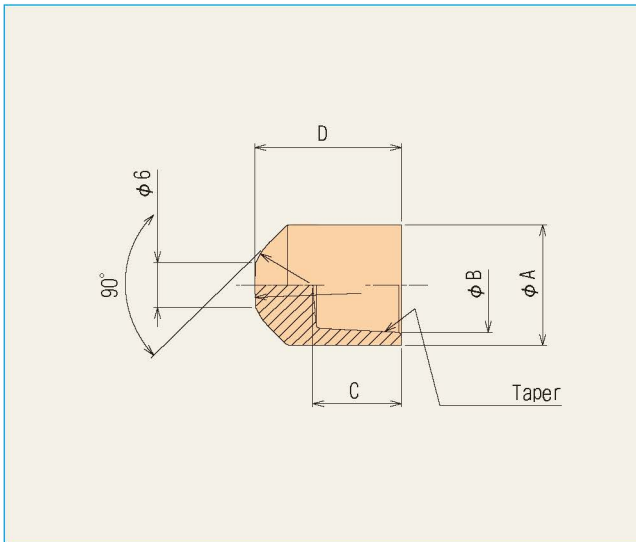
| Model | Size | | | | | | | | |
|---------------------------------------------------------------------|------|---|---|----|----|-------|------|----|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CD (Dispersion strengthened copper alumina alloy) | | | | | | | | | |
| CD16XF | 16 | - | - | 10 | 23 | 1/9.6 | 12.6 | 14 | 16 |
| CD13XF | 13 | - | - | 9 | 20 | 1/9.6 | 10 | 12 | 14 |

Original shape Material : CuCrZr

| Type A | Type P60 | Type P35,P40 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| Model M-12 × 6A | Model C-1327 | Model 5A-1325 |
| | |  |
| | | Model 6A-1325 |
| Type P90 | Type P32 | Type E |
|  |  |  |
| Model C-0920 | Model P-0920 | Model E-0925 |
|  | | |
| Model C-0925 | | |

Original shape Material : CuCrZr

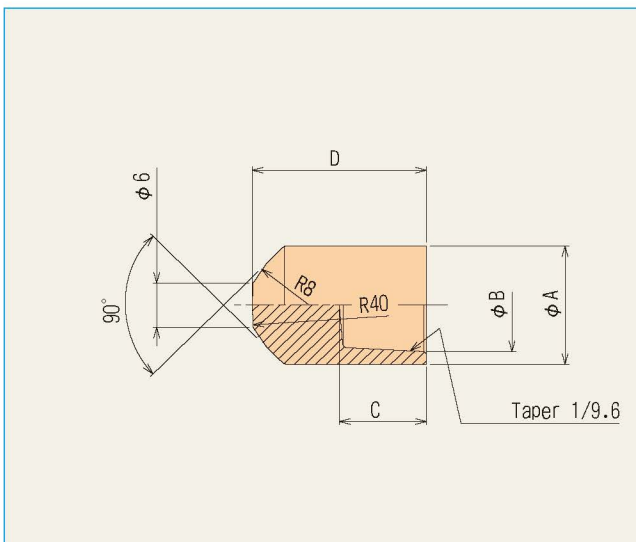
● mark and blue letter means ordered product.



Order code ^(∅)
SP **A** × **6** - **D** - **Taper**

Unit : mm

| Model | Size | | | | |
|--------|------|------|------|----|-------------|
| | A | B | C | D | Taper |
| ● SP13 | 13 | 10 | 10.5 | 17 | 1/9.6, 1/10 |
| SP16 | 16 | 12.6 | 11.5 | 19 | 1/9.6 |
| ● SP16 | 16 | 12.7 | 11.5 | 19 | 1/10 |

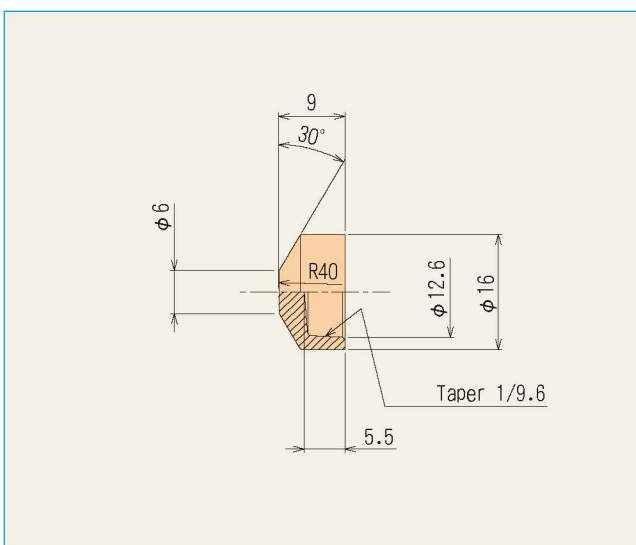


Order code ^(∅)
TP **A** × **6**

Unit : mm

| Model | Size | | | |
|--------|------|------|------|----|
| | A | B | C | D |
| ● TP13 | 13 | 10 | 10.5 | 20 |
| ● TP16 | 16 | 12.6 | 11.5 | 23 |

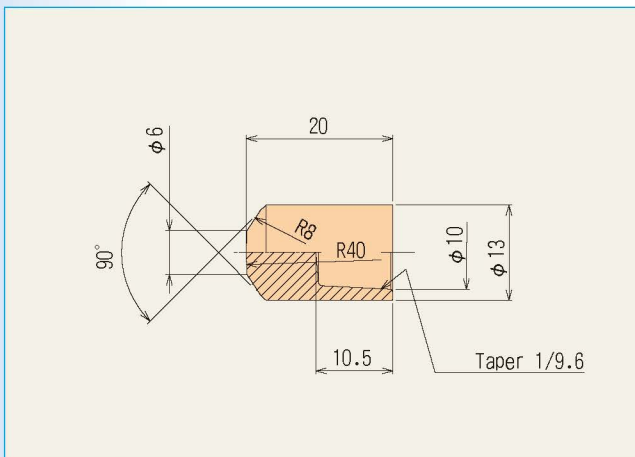
※ Tip shape is different with ZP16X6A (page 2)



Order code
BP16 × **6** - **9**

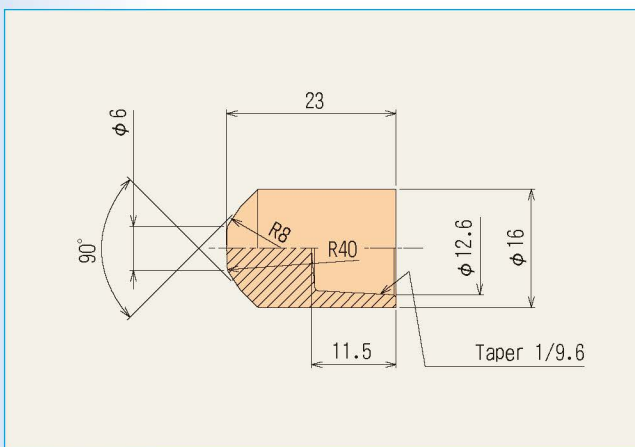
Original shape Material : Eco

● mark and blue letter means ordered product.



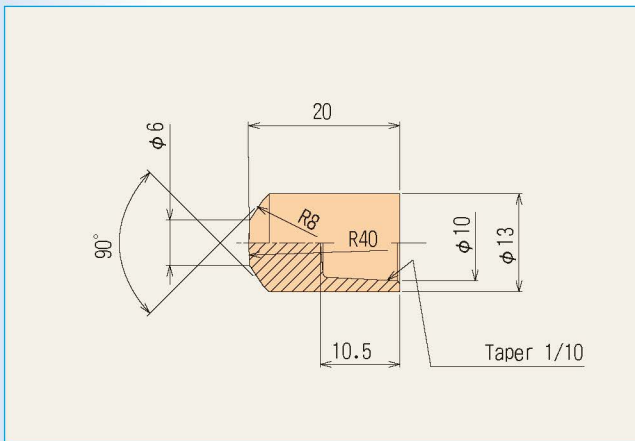
Order code

eP13×6●



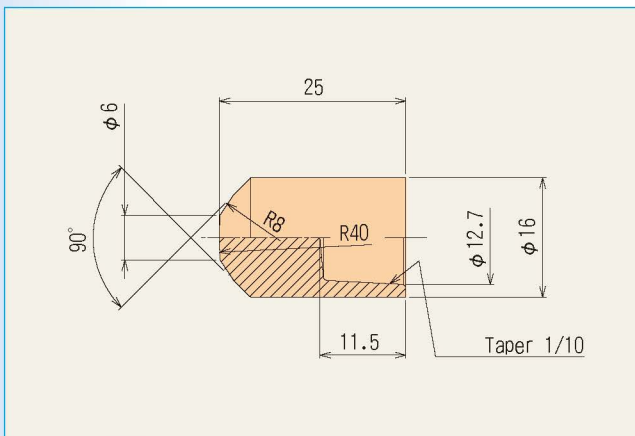
Order code

eP16×6●



Order code

eP13×6^{-1/10}●



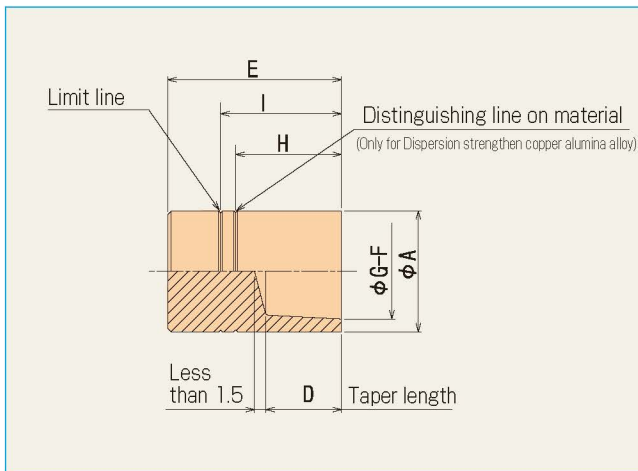
Order code

eP16×6-25^{-1/10}●

Original shape Material : CuCrZr, Dispersion strengthen copper alumina alloy, Beryllium content copper alloy

Unit : mm

Type F



Order code

(Outside dia.)(Whole length) (Material)

Tip shape - **A** **E** **Material**

Example F - 13 25 No code : CuCrZr

D : Dispersion strengthen copper alumina alloy

B : Beryllium content copper alloy

| Model | Size | | | | | | | | |
|------------------------|------|---|---|----|----|-------|------|---|----|
| | A | B | C | D | E | F | G | H | I |
| Material : CZ (CuCrZr) | | | | | | | | | |
| F-0920 | 9 | - | - | 9 | 20 | 1/10 | 7.1 | - | 14 |
| F-1325 | 13 | - | - | 10 | 25 | 1/9.6 | 10.0 | - | 16 |
| F-1330 | 13 | - | - | 10 | 30 | 1/9.6 | 10.0 | - | 16 |
| F-1340 | 13 | - | - | 10 | 40 | 1/9.6 | 10.0 | - | 16 |
| F-1630 | 16 | - | - | 11 | 30 | 1/9.6 | 12.6 | - | 17 |
| F-1825 | 18 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |
| F-2025 | 20 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |
| F-2030 | 20 | - | - | 11 | 30 | 1/9.6 | 12.6 | - | 17 |
| F-2225 | 22 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |
| F-2525 | 25 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |
| F-3025 | 30 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |

Material : D (Dispersion strengthen copper alumina alloy)

| | | | | | | | | | |
|-----------|----|---|---|----|----|-------|------|----|----|
| ● F-1325D | 13 | - | - | 10 | 25 | 1/9.6 | 10.0 | 14 | 16 |
| ● F-1330D | 13 | - | - | 10 | 30 | 1/9.6 | 10.0 | 14 | 16 |
| ● F-1630D | 16 | - | - | 11 | 30 | 1/9.6 | 12.6 | 15 | 17 |
| ● F-2025D | 20 | - | - | 11 | 25 | 1/9.6 | 12.6 | 15 | 17 |
| ● F-2030D | 20 | - | - | 11 | 30 | 1/9.6 | 12.6 | 15 | 17 |
| ● F-2525D | 25 | - | - | 11 | 25 | 1/9.6 | 12.6 | 15 | 17 |

Material : B (Beryllium content copper alloy)

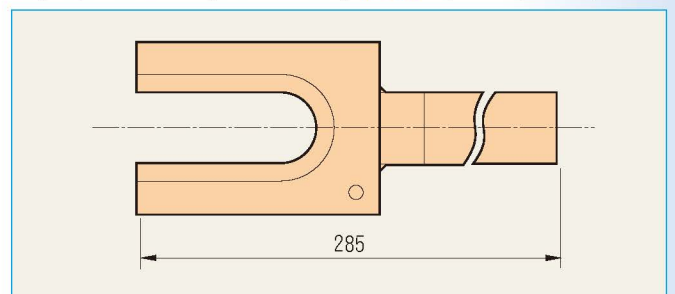
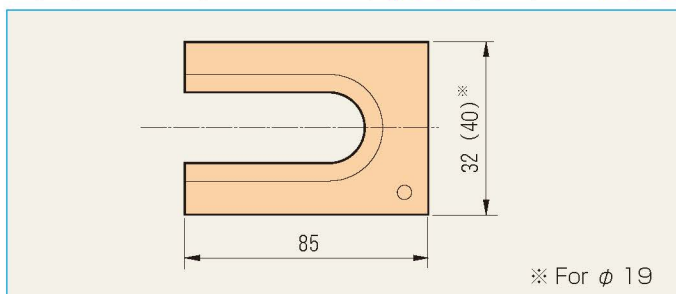
| | | | | | | | | | |
|-----------|----|---|---|----|----|-------|------|---|----|
| ● F-1325B | 13 | - | - | 10 | 25 | 1/9.6 | 10.0 | - | 16 |
| ● F-1330B | 13 | - | - | 10 | 30 | 1/9.6 | 10.0 | - | 16 |
| ● F-1630B | 16 | - | - | 11 | 30 | 1/9.6 | 12.6 | - | 17 |
| ● F-2025B | 20 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |
| ● F-2030B | 20 | - | - | 11 | 30 | 1/9.6 | 12.6 | - | 17 |
| ● F-2525B | 25 | - | - | 11 | 25 | 1/9.6 | 12.6 | - | 17 |

Cap tip remover

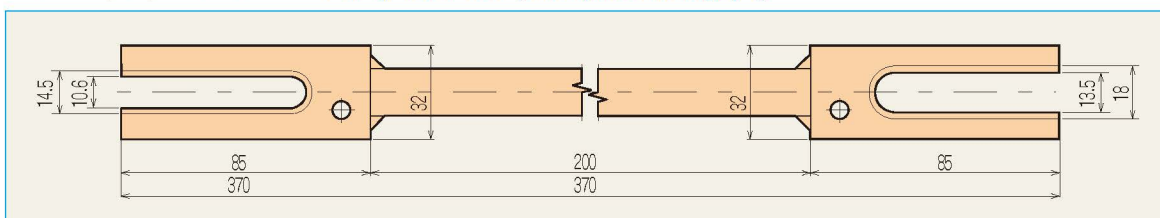
● mark and blue letter means ordered product.

Cap tip remover (without handle) ● $\phi 9$, ● $\phi 13$ ● $\phi 16$, ● $\phi 19$

Cap tip remover (with handle) ● $\phi 9$, ● $\phi 13$, ● $\phi 16$, ● $\phi 19$



Twin cap tip remover For $\phi 13$ / For $\phi 16$ (Dual usage) ●



SHANK

Made of CuBe25

Straight Shank



▶ Use to join Cap tip and Holder.



- ▶ ① Made of high beryllium content copper alloy (CuBe25) having high hardness and tensile strength, fatigue endurance and abrasion resistance.
- ▶ ② This shank has long life as this has lower abrasion, bruise and deformation on taper than it made of other material when Cap tip is put on and off.

※ Shank made of CuCrZr in size ϕ 16 is in stock.

※ Main Taper

1/10, 1/5, 1/9.6, MT1(1/20.047), MT2(1/20.020)

Order code

ϕ (Effective length)
W-SH- Diameter \times **A** - **Taper**

ϕ 13 : Taper MT1

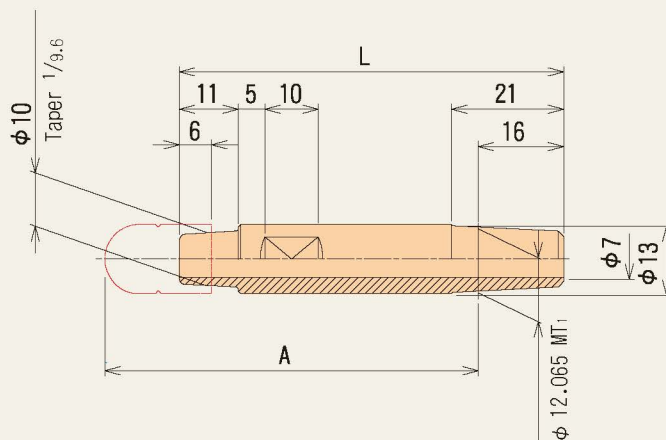
Unit : mm

| Diameter | Size | |
|----------|------|-----|
| | A | L |
| 13 | 25 | 25 |
| 13 | 30 | 30 |
| 13 | 35 | 35 |
| 13 | 40 | 42 |
| 13 | 50 | 52 |
| 13 | 60 | 62 |
| 13 | 70 | 72 |
| 13 | 80 | 82 |
| 13 | 90 | 92 |
| 13 | 100 | 102 |

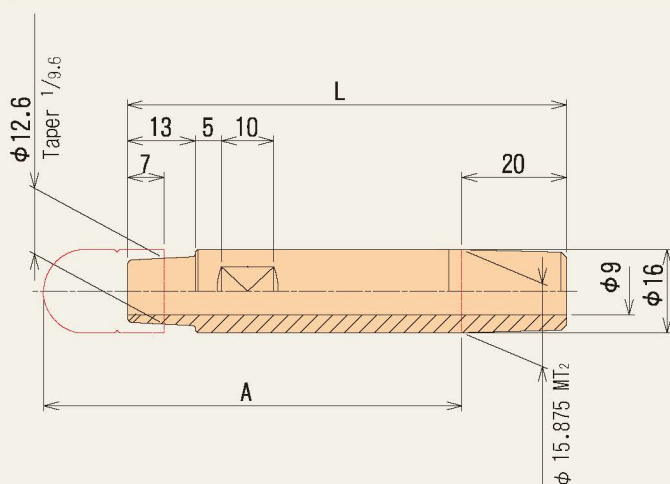
ϕ 16 : Taper MT2

Unit : mm

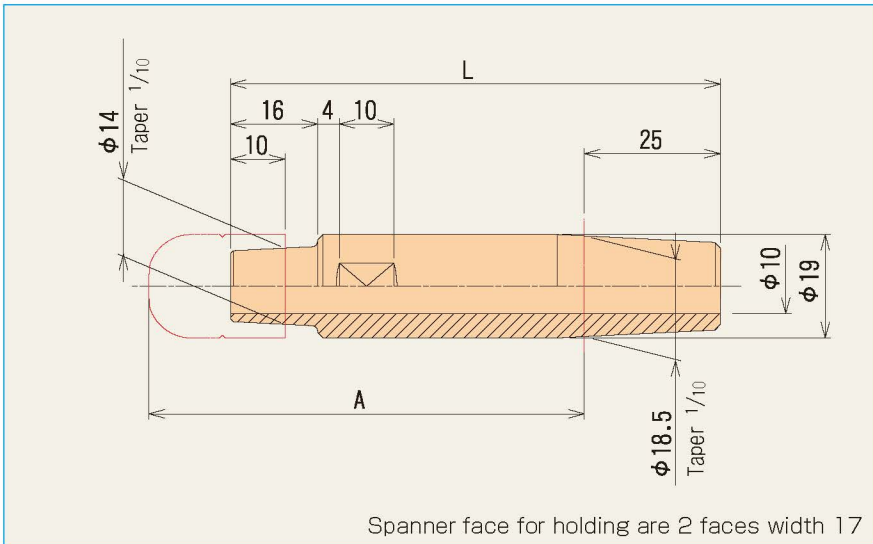
| Diameter | Size | |
|----------|------|-----|
| | A | L |
| 16 | 40 | 44 |
| 16 | 50 | 54 |
| 16 | 60 | 64 |
| 16 | 70 | 74 |
| 16 | 80 | 84 |
| 16 | 90 | 94 |
| 16 | 100 | 104 |
| 16 | 110 | 114 |
| 16 | 120 | 124 |
| 16 | 130 | 134 |
| 16 | 140 | 144 |
| 16 | 150 | 154 |



Spanner face for holding are 2 faces width 10



Spanner face for holding are 2 faces width 13



Order code (∅) (Effective length)
W-SH-Diameter × **A** - **Taper**

∅19 : Taper 18.5¹/₁₀

Unit : mm

| Diameter | Size | |
|----------|------|-----|
| | A | L |
| 19 | 40 | 50 |
| 19 | 50 | 60 |
| 19 | 60 | 70 |
| 19 | 70 | 80 |
| 19 | 80 | 90 |
| 19 | 90 | 100 |
| 19 | 100 | 110 |

Offset shank

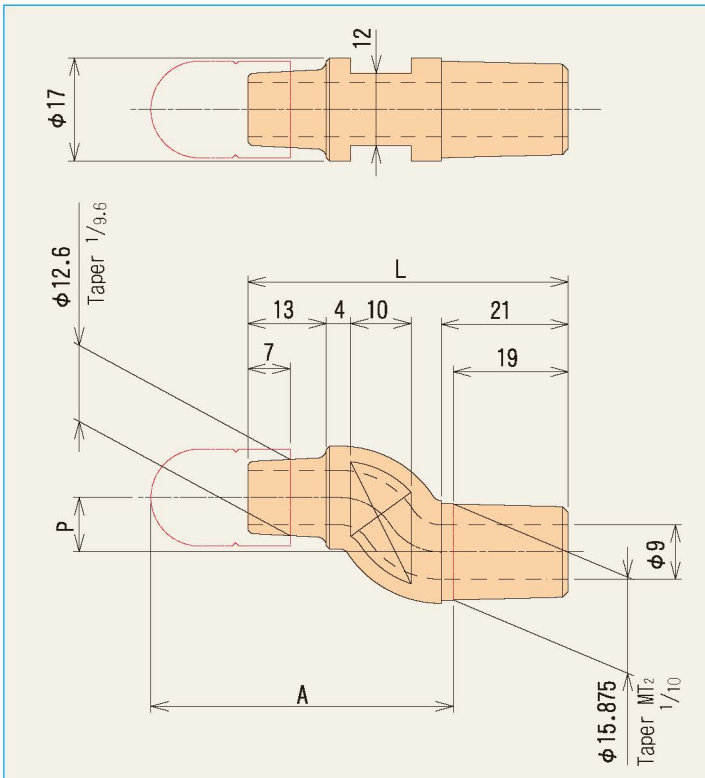
● mark and blue letter means ordered product.



▶ Offset shank is used when the work (welding point) is locating unsuitable location for straight shank.



- ▶ ① Made of high beryllium content copper alloy (CuBe25) having high hardness and tensile strength, fatigue endurance and abrasion resistance.
- ▶ ② This shank has long life as this has lower abrasion, bruise and deformation on taper than it made of other material when Cap tip is put on and off.



Order code (∅) (Effective length) (Eccentric length)
W-SH-16 × **A** - **P** **H** - **Taper**

∅16 : Taper MT2, 16¹/₁₀

Unit : mm

| L | Size | |
|-----|------|----|
| | A | P |
| 53 | 50 | 3 |
| 53 | 50 | 6 |
| 53 | 50 | 9 |
| 53 | 50 | 13 |
| 63 | 60 | 3 |
| 63 | 60 | 6 |
| 63 | 60 | 9 |
| 63 | 60 | 13 |
| 63 | 60 | 15 |
| 63 | 60 | 19 |
| 83 | 80 | 6 |
| 83 | 80 | 9 |
| 83 | 80 | 13 |
| 83 | 80 | 15 |
| 83 | 80 | 19 |
| 83 | 80 | 25 |
| 103 | 100 | 19 |

Original shank



► Use to join Cap tip and Holder.

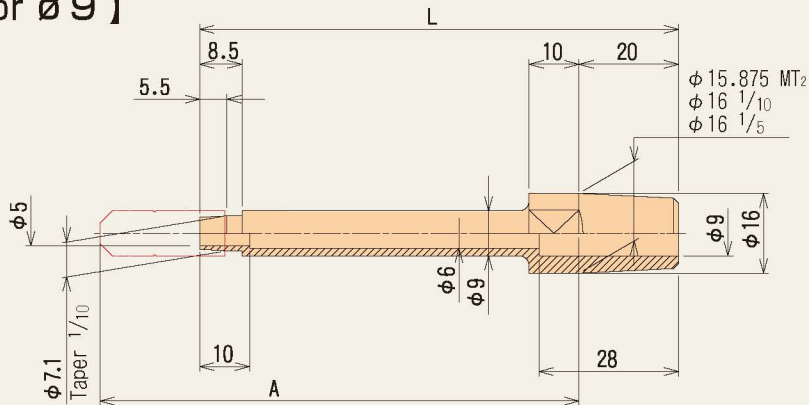


- ① Made of high beryllium content copper alloy (CuBe25) having high hardness and tensile strength, fatigue endurance and abrasion resistance as same as Straight shank and Offset shank.
- ② Original material is by ϕ 16 rod and made suitable for Cap tip ϕ 9 and ϕ 13. On connecting portion with main machine is available in tape MT2, 16-1/10, 16-1/5.
- ※ ϕ 9 only should be used at low pressure condition.

Stepped shank Our original model

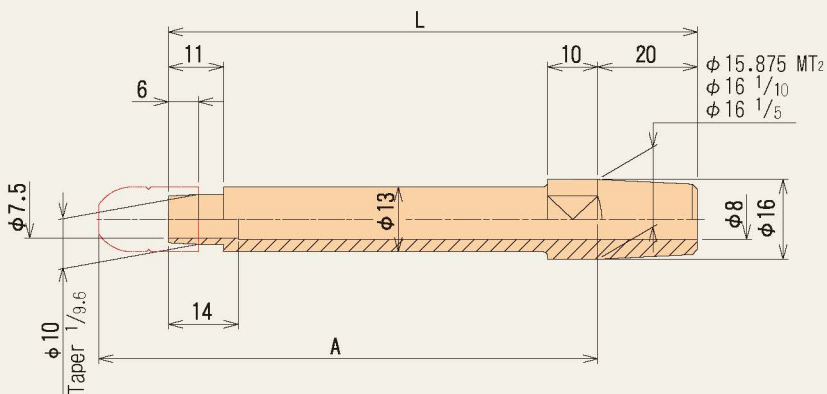
● mark and blue letter means ordered product.

【For ϕ 9】



Spanner face for holding are 2 faces width 13

【For ϕ 13】



Spanner face for holding are 2 faces width 13

Order code
(ϕ)

B Diameter - **A** - **Taper**

ϕ 9 : Taper MT2 or 16¹/₁₀, 16¹/₅ ●

Unit : mm

| Diameter | Size | |
|----------|------|----|
| | A | L |
| 9 | 38 | 38 |
| 9 | 56 | 56 |
| 9 | 76 | 76 |
| 9 | 96 | 96 |

ϕ 9 only: please use at lower pressure condition.

ϕ 13 : Taper MT2 or 16¹/₁₀, 16¹/₅ ●

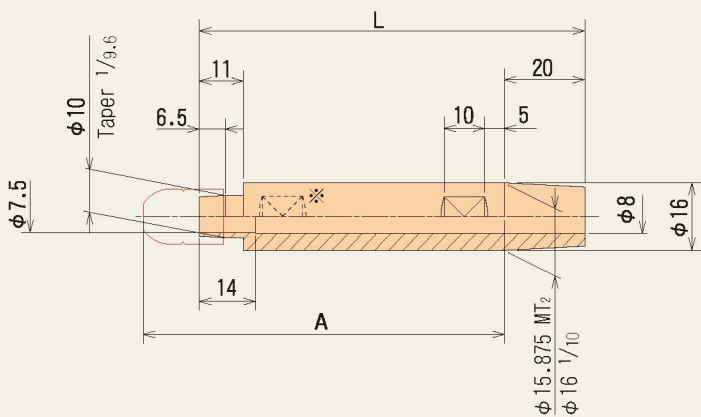
Unit : mm

| Diameter | Size | |
|----------|------|-----|
| | A | L |
| 13 | 30 | 36 |
| 13 | 40 | 46 |
| 13 | 50 | 56 |
| 13 | 60 | 66 |
| 13 | 70 | 76 |
| 13 | 80 | 86 |
| 13 | 90 | 96 |
| 13 | 100 | 106 |
| 13 | 110 | 116 |
| 13 | 120 | 126 |
| 13 | 130 | 136 |
| 13 | 140 | 146 |
| 13 | 150 | 156 |

Straight shank Our original model

● mark and blue letter means ordered product.

【For $\phi 13$ 】



Spanner face for holding are 2 faces width 13

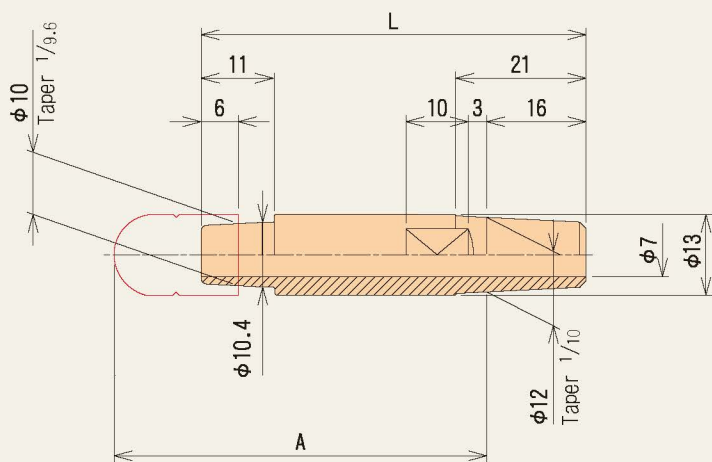
Order code (\emptyset)
SKK-13X A - Taper

$\phi 13$: Taper MT2, 16¹/₁₀

Unit : mm

| Size | | |
|----------|-----|-----|
| Diameter | A | L |
| 13 | 40 | 46 |
| 13 | 50 | 56 |
| 13 | 60 | 66 |
| 13 | 70 | 76 |
| 13 | 80 | 86 |
| 13 | 90 | 96 |
| 13 | 100 | 106 |
| 13 | 110 | 116 |
| 13 | 120 | 126 |

【For $\phi 13$ 】



Spanner face for holding are 2 faces width 10

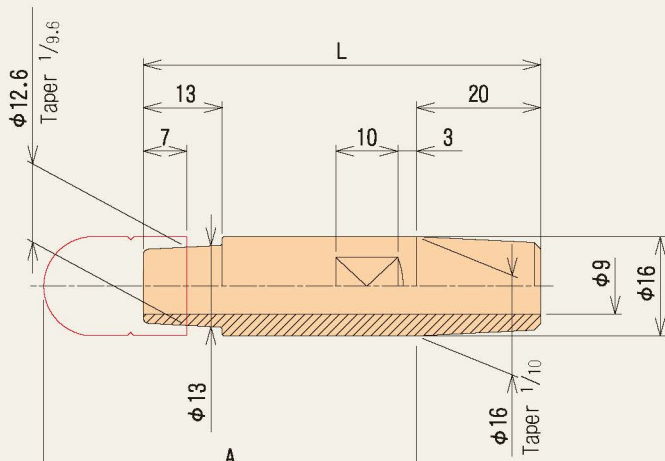
Order code (\emptyset)
W-SK-13X A - Taper

$\phi 13$: Taper 12¹/₁₀

Unit : mm

| Size | | |
|----------|-----|-----|
| Diameter | A | L |
| 13 | 25 | 25 |
| 13 | 30 | 30 |
| 13 | 35 | 35 |
| 13 | 40 | 42 |
| 13 | 50 | 52 |
| 13 | 60 | 62 |
| 13 | 70 | 72 |
| 13 | 80 | 82 |
| 13 | 90 | 92 |
| 13 | 100 | 102 |

【For $\phi 16$ 】



Spanner face for holding are 2 faces width 13

Order code (\emptyset)
W-SK-16X A - Taper

$\phi 16$: Taper 16¹/₁₀, 16¹/₅●

Unit : mm

| Size | | |
|----------|-----|-----|
| Diameter | A | L |
| 16 | 40 | 44 |
| 16 | 50 | 54 |
| 16 | 60 | 64 |
| 16 | 70 | 74 |
| 16 | 80 | 84 |
| 16 | 90 | 94 |
| 16 | 100 | 104 |
| 16 | 110 | 114 |
| 16 | 120 | 124 |
| 16 | 130 | 134 |
| 16 | 140 | 144 |
| 16 | 150 | 154 |

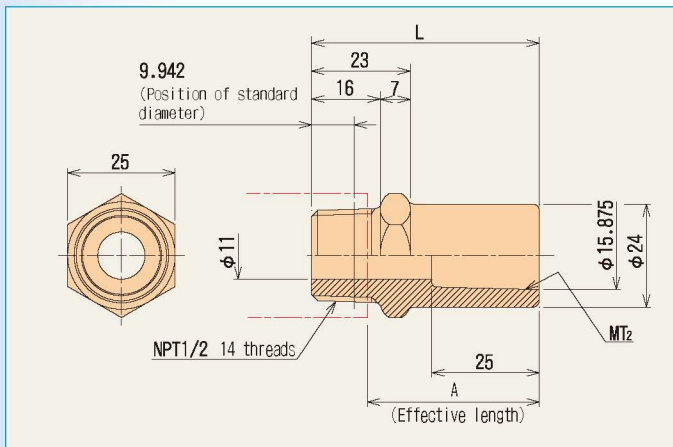
Threaded adapter Connecting electrodes



▶ Mainly used for stud gun. This also can be used as Taper parts of Holder, Gun holder and Tip base.



- ▶ ① Use to joint Holder (Gun holder, Tip base) and Shank. This is suitable for partial replacement and length adjustment.
 - ▶ ② By application of CuBe50, it reduces taper damage and obtained durability.
- ※ When you set, please put shank on threaded adapter firstly.



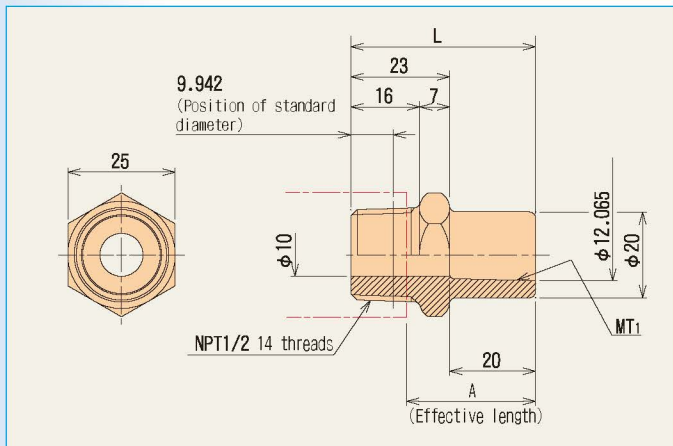
Order code

(Effective length)

W-AD-A-A-Taper

Unit : mm

| Size | | | |
|------|----|-----------|------------------|
| A | L | Taper | Applicable shank |
| 10 | 23 | MT2, 1/10 | Ø16 |
| 15 | 28 | MT2 | Ø16 |
| 20 | 33 | MT2 | Ø16 |
| 30 | 43 | MT2 | Ø16 |
| 40 | 53 | MT2 | Ø16 |
| 50 | 63 | MT2 | Ø16 |
| 60 | 73 | MT2 | Ø16 |



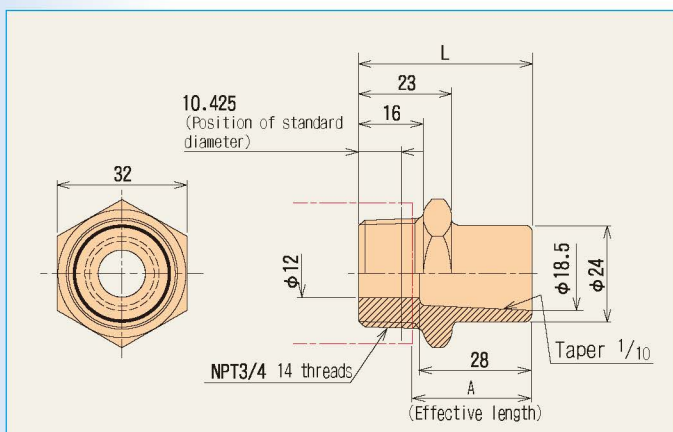
Order code

(Effective length)

W-AD-B-A-Taper

Unit : mm

| Size | | | |
|------|----|-----------|------------------|
| A | L | Taper | Applicable shank |
| 10 | 23 | MT1, 1/10 | Ø13 |
| 15 | 28 | MT1 | Ø13 |
| 20 | 33 | MT1 | Ø13 |
| 30 | 43 | MT1 | Ø13 |
| 40 | 53 | MT1 | Ø13 |
| 50 | 63 | MT1 | Ø13 |
| 60 | 73 | MT1 | Ø13 |



Order code

(Effective length)

W-AD-D-A 1/10

Unit : mm

| Size | | | |
|------|----|-------|------------------|
| A | L | Taper | Applicable shank |
| 10 | 23 | 1/10 | Ø19 |
| 15 | 28 | 1/10 | Ø19 |
| 20 | 33 | 1/10 | Ø19 |
| 30 | 43 | 1/10 | Ø19 |
| 40 | 53 | 1/10 | Ø19 |
| 50 | 63 | 1/10 | Ø19 |
| 60 | 73 | 1/10 | Ø19 |

● mark and blue letter means ordered product.

Point holder/Eccentric point holder

(Arm + Clamper)



- ▶ Holder mainly used for stud gun.
- ▶ Connecting (Interrupting) side of holder arm should be fixed with Stud cylinder rod side (Clamper setting side). Threaded side (NTP side) of point holder (Inside of holder there are threads) will be fixed with threaded adapter.

▶ Specification varies according to clamper.

| | |
|--------|---------------------|
| Type A | A1 : Pitch (A+B) 41 |
| | A2 : Pitch (A+B) 54 |
| Type B | B : Pitch 21 |



- ▶ This is multiple parts having necessary functions such as insulator with stud cylinder and cooling water circuit.

Applicable pressure (Data by Toyota)

| | |
|---------------|------------------------------------------------------------------|
| W-PH-A1 · A2 | Apply for lower than 3.9KN (400kgf) |
| W-PH-B | Apply for more than 3.9KN (400kgf) but lower than 6.9KN (700kgf) |
| S-PH-C2X13·19 | Apply lower than 2.9KN (300kgf) |

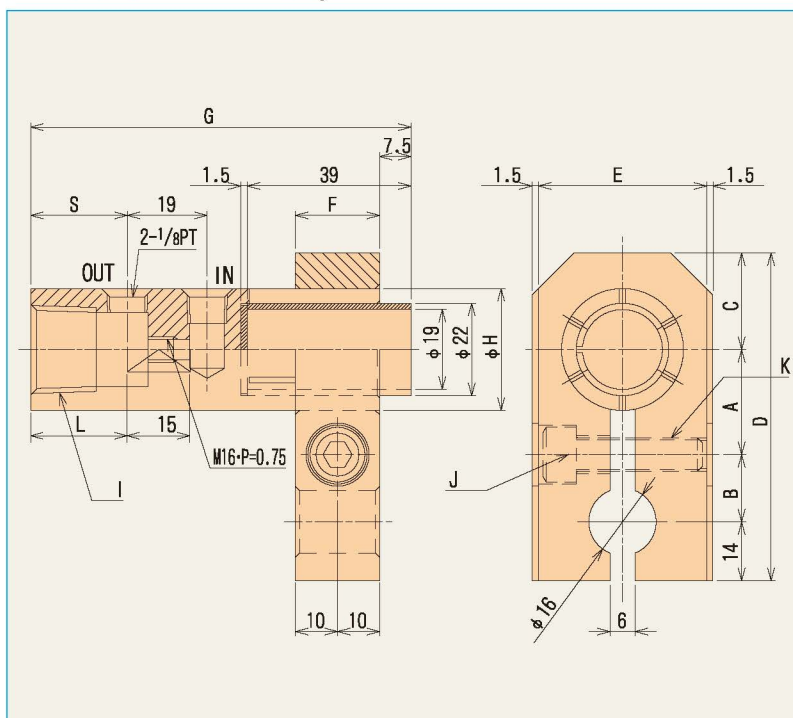
Difference between Toyota and Nissan

| | Thread | Cooling thread position | Pipe thread size |
|--------|--------|-------------------------|------------------|
| Toyota | NPT | 20° | M6 P = 0.75 |
| Nissan | PT | 0° | M6 P = 0.75 |

Point holder

● mark and blue letter means ordered product.

Point holder + Clamper



Order code

(Clamper symbol)

W-PH-□□

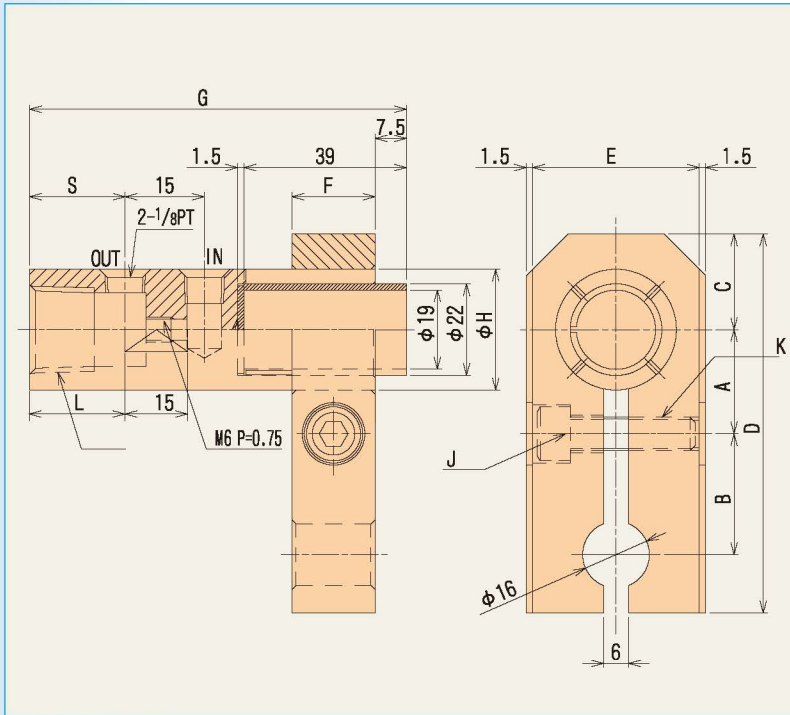
[Attaching clamper symbol]

A1→A₁ A2→A₂ B→B

| Clamper symbol | 寸 法 | | | | | | | | | | | | | |
|----------------|-----|----|----|----|----|----|------|----|-------------------------------|----------|---------------------------|----|---------------|----|
| | A | B | C | D | E | F | G | H | I | J | K | L | Spanner width | S |
| ● A1 | 25 | 16 | 23 | 78 | 40 | 20 | 90.5 | 29 | NPT _{1/2} 14 threads | M 8 × 28 | M 8 P=1.25 helical insert | 23 | 27 | 23 |
| A2 | 29 | 25 | 23 | 91 | 40 | 20 | 90.5 | 29 | NPT _{1/2} 14 threads | M 8 × 28 | M 8 P=1.25 helical insert | 23 | 27 | 23 |

● mark and blue letter means ordered product.

Point holder + Clamper



Order code

(Clamper symbol)

W-PH-

[Attaching clamper symbol]

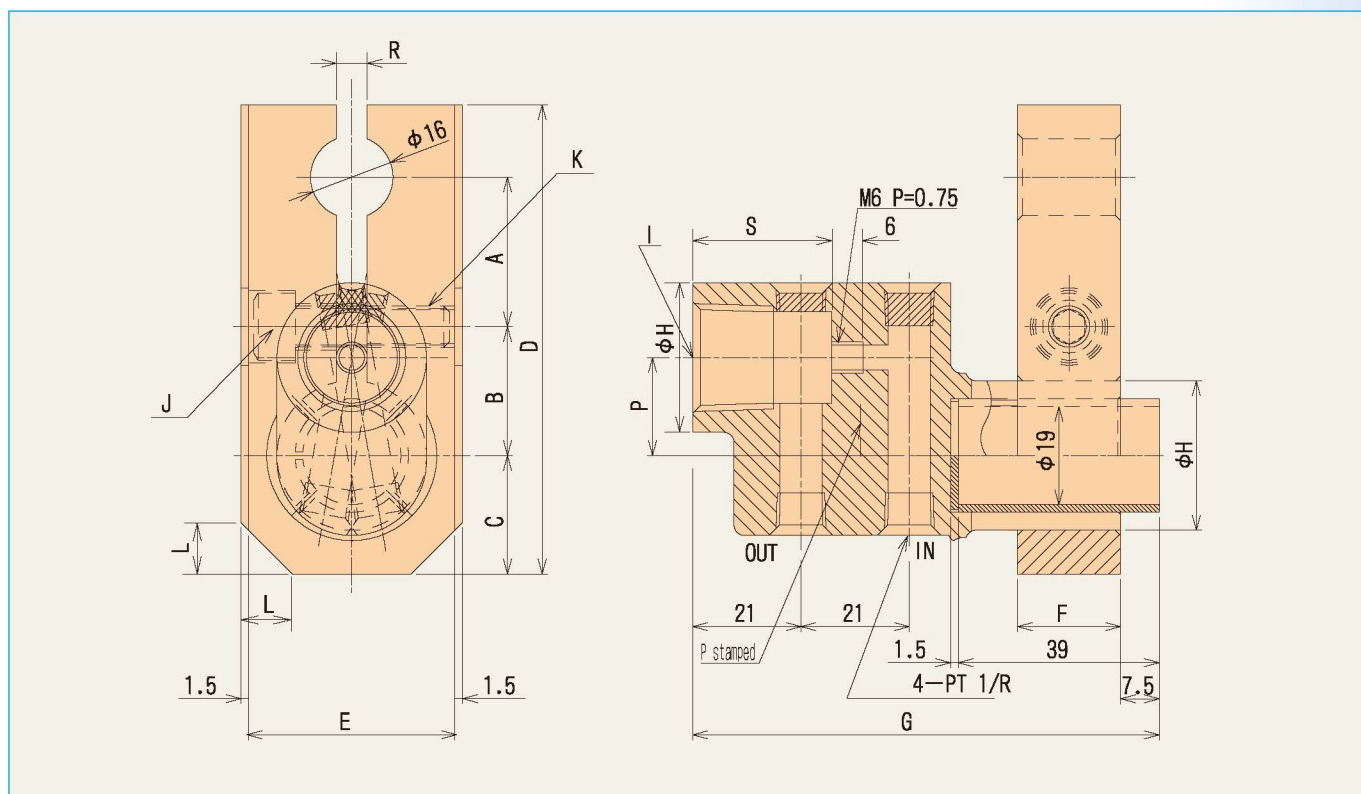
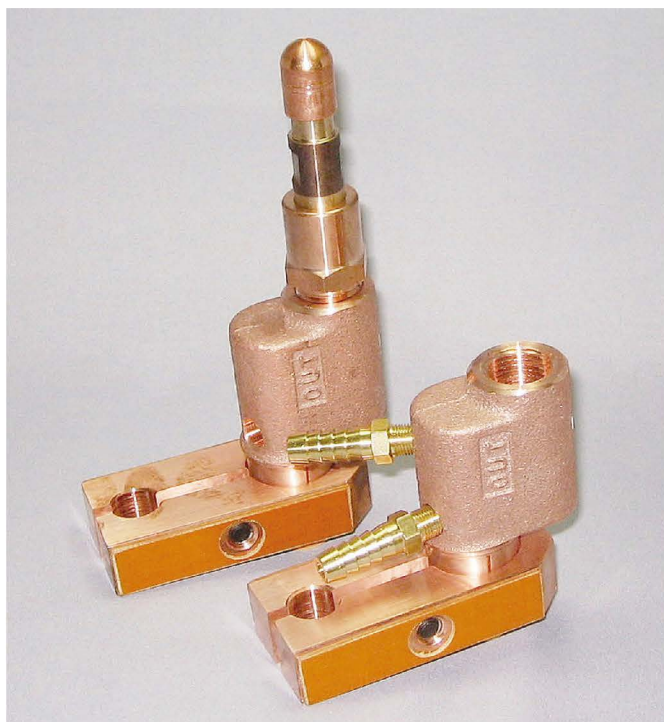
A1→**A**₁ A2→**A**₂ B→**B**

| Clamper symbol | 寸 法 | | | | | | | | | | | L | Spanner width | S |
|----------------|-----|----|----|----|----|----|------|----|-------------------------------|----------|---------------------------|----|---------------|----|
| | A | B | C | D | E | F | G | H | I | J | K | | | |
| ● B | 33 | 21 | 27 | 95 | 45 | 25 | 96.5 | 35 | NPT ^{3/4} 14 threads | M10 x 32 | M10 P= 1.5 helical insert | 29 | 32 | 25 |

Note: Length of helical insert thread is more than 1.5d.

Eccentric point holder

● mark and blue letter means ordered product.



Order code

(Eccentric size)

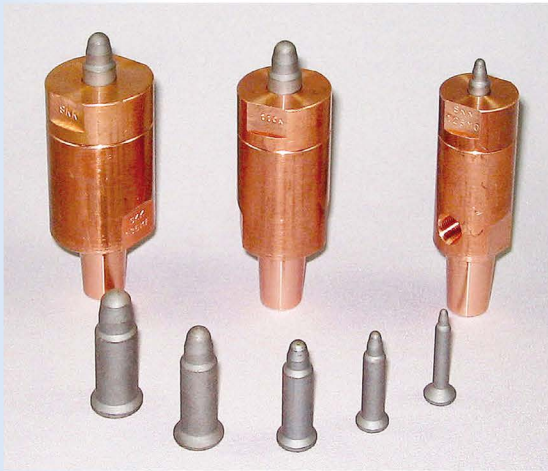
W-PH- Clamper symbol **X** **P**

Unit : mm

| Clamper symbol | Size | | | | | | | | | | | | | | |
|----------------|------|----|----|----|----|----|------|----|------------------------------|--------------|--------------------------|----|----|---|----|
| | A | B | C | D | E | F | G | H | I | J | K | L | P | R | S |
| ● C1 | 16 | 25 | 23 | 78 | 40 | 20 | 90.5 | 29 | NPT $\frac{1}{2}$ 14 threads | M8 x 28 bolt | M8 P=1.25 helical insert | 10 | 13 | 8 | 27 |
| C2 | 29 | 25 | 23 | 91 | 40 | 20 | 90.5 | 29 | NPT $\frac{1}{2}$ 14 threads | M8 x 28 bolt | M8 P=1.25 helical insert | 10 | 13 | 8 | 27 |
| ● C1 | 16 | 25 | 23 | 78 | 40 | 20 | 90.5 | 29 | NPT $\frac{1}{2}$ 14 threads | M8 x 28 bolt | M8 P=1.25 helical insert | 10 | 19 | 8 | 27 |
| C2 | 29 | 25 | 23 | 91 | 40 | 20 | 90.5 | 29 | NPT $\frac{1}{2}$ 14 threads | M8 x 28 bolt | M8 P=1.25 helical insert | 10 | 19 | 8 | 27 |

Lower electrode for nut welding (Original)

Our special designed lower electrode for Weld nut (Anti center core dislocation design)



Application

- ▶ KCF guide pin
 - ▶ Lower electrode
 - ▶ Lower electrode holder
- Lower electrode for weld nuts is combination of these 3 kinds
- ▶ Please use by set of KCF guide pin, Lower electrode and Lower electrode holder.
 - ※ Guide pin will be lifted stably by either Air flow or Spring.

Features

▶ Guide pin

- ① Guide pin has fitting point matching with nut diameter.
- ② Guide pin is available in pitch of 0.2mm in pin diameter.

▶ Lower electrode

There are two kinds, one is made of Chrome Zirconium Copper (CuCrZr) and another is made of CuBe50.

Especially CuBe50 is suitable for projection welding and have long life.

▶ Lower electrode holder

There are wide selections in taper degree and 3 choices in lower electrode holder length that enable efficient cooling effect. By application of water cooling jacket, you can get adjustment on location that make you easy to escape from the trouble on location of the welding object.

KCF guide pin Our original model

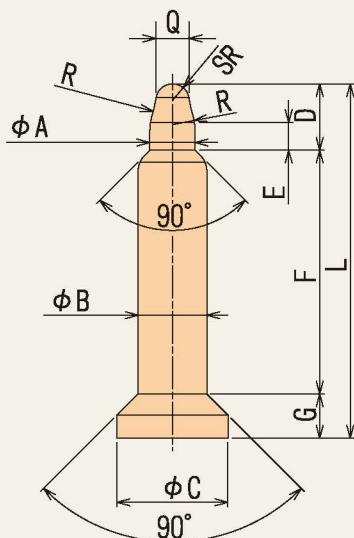
- mark and blue letter means ordered product.

Order code

(ϕ) **KCF-** Nut size - Pin diameter

Ex. In case M6 nut with press hole 7.0
(Order code) **KCF-M6-6.8**

Unit : mm



| Nut size | Size | | | | | | | | | |
|----------|------|-------|----|----|-----|----|---|----|-----|------|
| | A | B | C | D | E | F | G | L | Q | R |
| M4 | 3.2 | 4~7 | 10 | 5 | 2.0 | 22 | 4 | 31 | 2.5 | 9.0 |
| M5 | 4.1 | 5~8 | 10 | 6 | 2.5 | 22 | 4 | 32 | 3.0 | 13.3 |
| M6 | 4.9 | 6~10 | 10 | 7 | 2.5 | 22 | 3 | 32 | 3.5 | 15.5 |
| M8 | 6.6 | 8~11 | 12 | 8 | 3.0 | 23 | 3 | 34 | 5.0 | 17.5 |
| M10 | 8.5 | 10~13 | 15 | 10 | 3.5 | 24 | 3 | 37 | 7.0 | 30.5 |
| UNIFY | 9.7 | 11~14 | 16 | 12 | 4.0 | 24 | 3 | 39 | 8.0 | 37.5 |
| M12 | 10.4 | 12~15 | 16 | 12 | 4.0 | 24 | 3 | 39 | 9.0 | 41.0 |

◆ ϕ B (pin diameter) is available every 0.2mm.

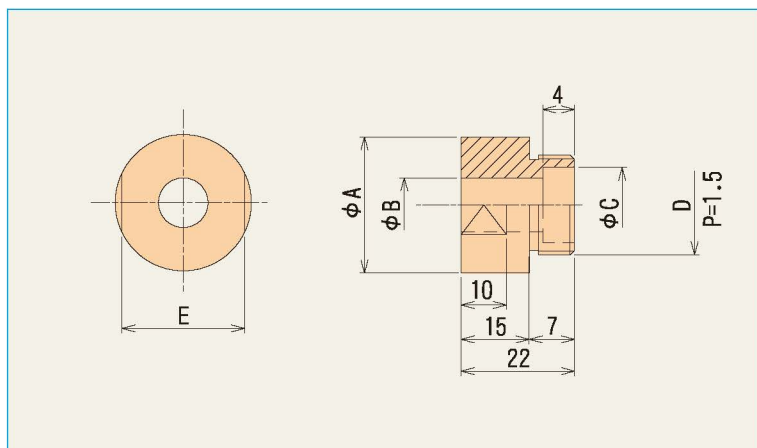
※ Ordered product

Unit : mm

| Nut size | Size |
|----------|------------------------------------------------|
| | B |
| ● M4 | 4.0, 4.2, 4.4, 5.4, 5.6, 6.0, 6.2, 6.4 |
| ● M5 | 7.2, 7.4, 7.6, 7.8 |
| ● M6 | 8.4, 9.2, 9.4, 9.6, 9.8, 10.0 |
| ● M8 | 10.2, 11.0 |
| ● M10 | 10.2 |
| ● UNIFY | 11.0, 11.2, 11.6, 12.2, 13.2, 13.4, 13.6, 14.0 |
| ● M12 | 12.0, 12.2, 12.4, 13.2, 13.6, 14.2, 14.4, 14.6 |

Lower electrode Our original model

● mark and blue letter means ordered product.



725MO·730MO·735MO·725BO·730BO·735BO

Order code

(ϕ)

ϕB

MO: CuCrZr
BO: CuBe50

Product name - Pin diameter

Ex. In case 125MO and Pin B diameter is 6.8
(Order code) **125MO-6.8**

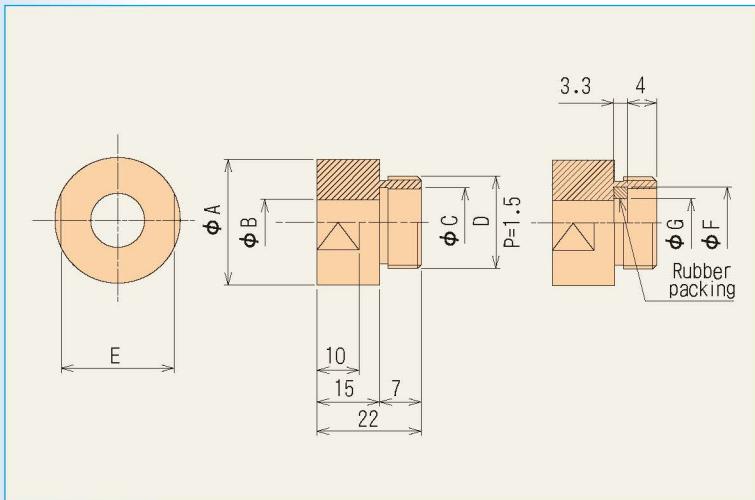
Unit : mm

| Product name | Size | | | | |
|--------------|------|---|------|-----|----|
| | A | B | C | D | E |
| 725MO | 25 | * | 12.5 | M18 | 22 |
| 730MO | 30 | * | 16.5 | M22 | 27 |
| 735MO | 35 | * | 16.5 | M22 | 32 |
| 725BO | 25 | * | 12.5 | M18 | 22 |
| 730BO | 30 | * | 16.5 | M22 | 27 |
| 735BO | 35 | * | 16.5 | M22 | 32 |

Pin diameter list (ϕB)

Unit : mm

| 725MO | 730MO | 735MO |
|----------|----------|--------|
| 3.9 | ● 5.1 | ● 10.9 |
| 4.1 | 7.1 | 11.1 |
| 4.6 | 9.1 | 11.9 |
| 4.9 | 10.1 | 12.1 |
| 5.1 | 10.9 | 12.9 |
| 5.6 | 11.1 | 13.1 |
| 5.9 | 11.9 | |
| 6.1 | 12.1 | |
| 6.6 | 12.9 | |
| 6.9 | 13.1 | |
| 7.1 | non hole | |
| 7.6 | | |
| 7.9 | | |
| 8.1 | | |
| 8.6 | | |
| 8.9 | | |
| 9.1 | | |
| 9.6 | | |
| 9.9 | | |
| 10.1 | | |
| non hole | | |
| 725BO | 730BO | 735BO |
| 4.1 | 11.1 | 11.1 |
| ● 5.1 | 12.1 | ● 12.1 |
| 6.1 | 13.1 | 13.1 |
| 6.9 | non hole | |
| 7.1 | | |
| 8.9 | | |
| 9.1 | | |
| non hole | | |



825B0 · 830B0

Non leakage product

Order code

(∅)

∅B

B0 : CuBe50

Product name - Pin diameter

Unit : mm

| Product name | Size | | | | | | |
|--------------|------|---|------|-----|----|------|---|
| | A | B | C | D | E | F | G |
| 825B0 | 25 | * | 12.5 | M18 | 22 | 13.2 | * |
| 830B0 | 30 | * | 16.5 | M22 | 27 | 17.2 | * |

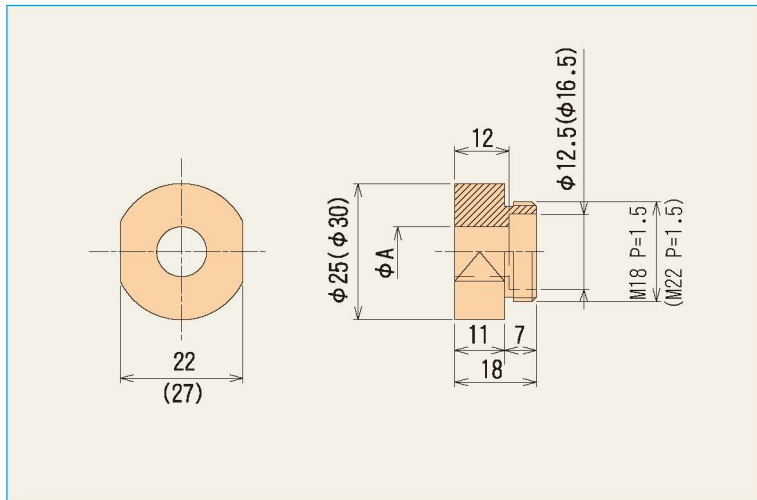
* φ G is hole diameter of rubber packing

Hole diameter (B size) and applicable rubber packing

Unit : mm

| 825B0 | |
|-------|------------------------------|
| φ B | φ G |
| 4.8 | Rubber packing 13 × 5.6 × 3 |
| 5.0 | Rubber packing 13 × 5.6 × 3 |
| 5.8 | Rubber packing 13 × 6.6 × 3 |
| 6.0 | Rubber packing 13 × 6.6 × 3 |
| 6.5 | Rubber packing 13 × 7.1 × 3 |
| 6.8 | Rubber packing 13 × 7.6 × 3 |
| 7.0 | Rubber packing 13 × 7.6 × 3 |
| 8.0 | Rubber packing 13 × 8.6 × 3 |
| 8.8 | Rubber packing 13 × 9.6 × 3 |
| 9.0 | Rubber packing 13 × 9.6 × 3 |
| 10.0 | Rubber packing 13 × 10.6 × 3 |

| 830B0 | |
|-------|------------------------------|
| φ B | φ G |
| 10.8 | Rubber packing 17 × 11.6 × 3 |
| 11.0 | Rubber packing 17 × 11.6 × 3 |
| 11.8 | Rubber packing 17 × 12.6 × 3 |
| 12.0 | Rubber packing 17 × 12.6 × 3 |
| 12.8 | Rubber packing 17 × 13.6 × 3 |
| 13.0 | Rubber packing 17 × 13.6 × 3 |

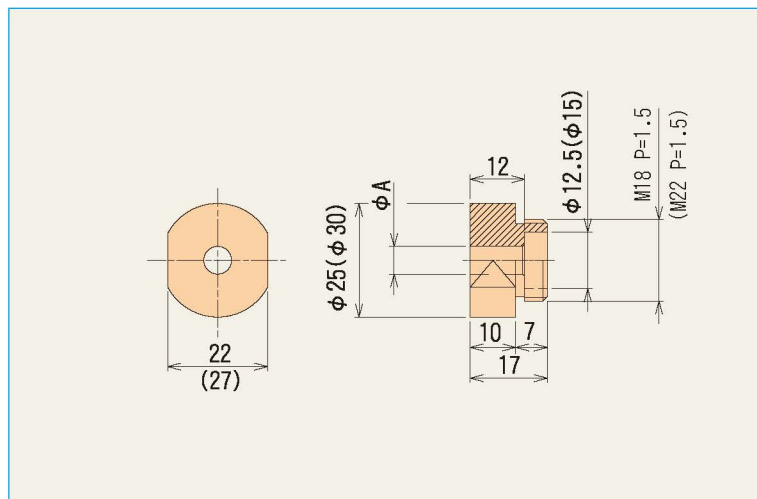


225MO · 230MO

Order code (∅) ∅B Patented product

MO: CuCrZr
 Product name - Pin diameter
 Unit : mm

| Product name | Hole Diameter |
|--------------|---------------|
| | A |
| 225MO | 5.0 |
| 225MO | 6.0 |
| 225MO | 7.0 |
| 225MO | 7.2 |
| 225MO | 9.1 |
| 225MO | non hole |
| 230MO | 6.0 |
| 230MO | 11.0 |
| 230MO | 12.0 |
| 230MO | 13.0 |
| 230MO | non hole |



625 · 630

Order code (∅) ∅B Be50

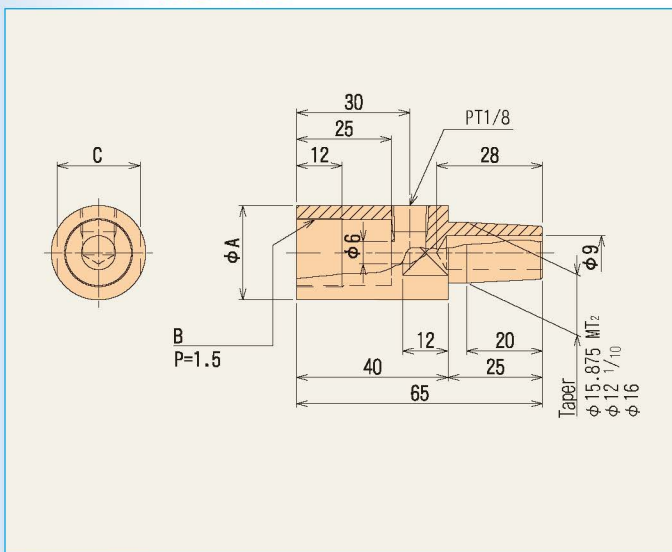
Product name - Pin diameter
 Unit : mm

| Product name | Hole Diameter |
|--------------|---------------|
| | A |
| ● 625 | 5.1 |
| ● 625 | 6.1 |
| ● 625 | 7.1 |
| ● 625 | 9.1 |
| ● 625 | 11.1 |
| ● 630 | 11.1 |
| ● 630 | 13.1 |

● mark and blue letter means ordered product.

Lower electrode holder Our original model

● mark and blue letter means ordered product.



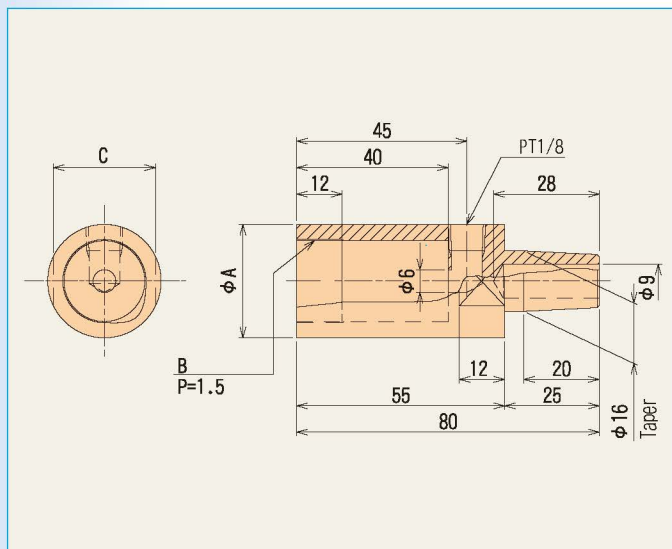
125MF · 130MF · 135MF

Order code

Product name - Taper

Unit : mm

| Product name | Size | | | Taper |
|--------------|------|-----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | A | B | C | |
| 125MF | 25 | M18 | 22 | 12 ¹ / ₁₀ ●, 16 ¹ / ₁₀ , 16 ¹ / ₅ , MT2, 20 ¹ / ₁₀ ●, 20 ¹ / ₅ ● |
| 130MF | 30 | M22 | 27 | 16 ¹ / ₁₀ , 16 ¹ / ₅ , MT2, 20 ¹ / ₁₀ ●, 20 ¹ / ₅ ● |
| 135MF | 35 | M22 | 32 | 16 ¹ / ₁₀ , 16 ¹ / ₅ , MT2, 20 ¹ / ₁₀ ●, 20 ¹ / ₅ ● |



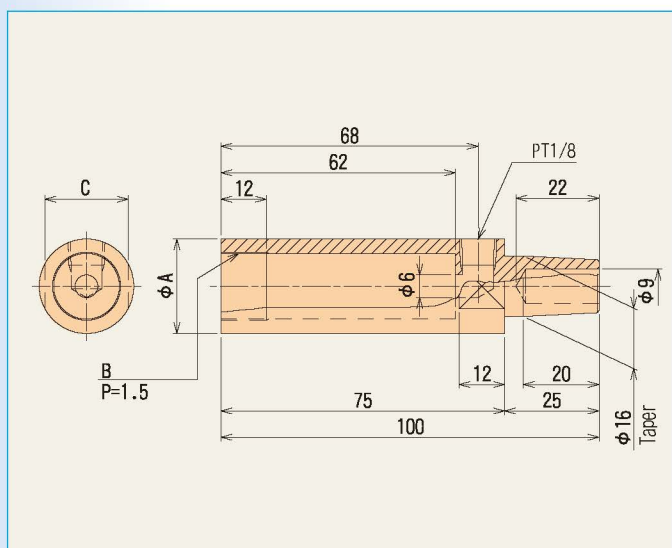
125MF · 130MF Semi long holder

Order code

Product name - Semi long - Taper

Unit : mm

| Product name | Size | | | Taper |
|--------------|------|-----|----|--------------------------------------------------------------------|
| | A | B | C | |
| 125MF | 25 | M18 | 22 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 130MF | 30 | M22 | 27 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |



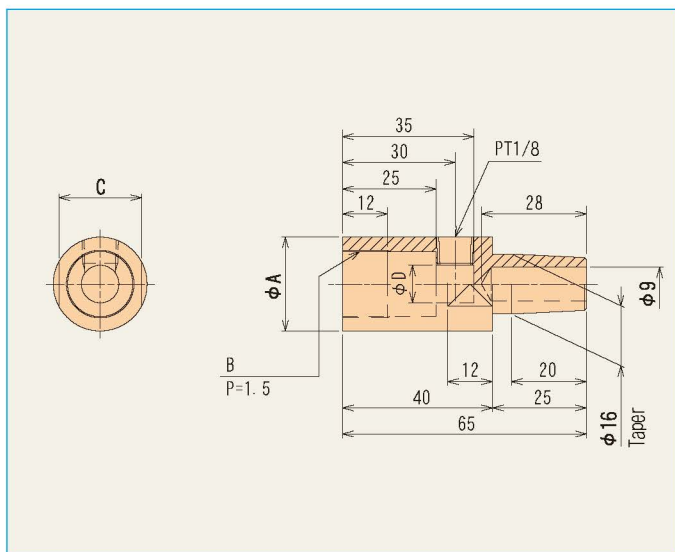
125MF · 130MF Long holder

Order code

Product name - Long - Taper

Unit : mm

| Product name | Size | | | Taper |
|--------------|------|-----|----|--------------------------------------------------------------------|
| | A | B | C | |
| 125MF | 25 | M18 | 22 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 130MF | 30 | M22 | 27 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |



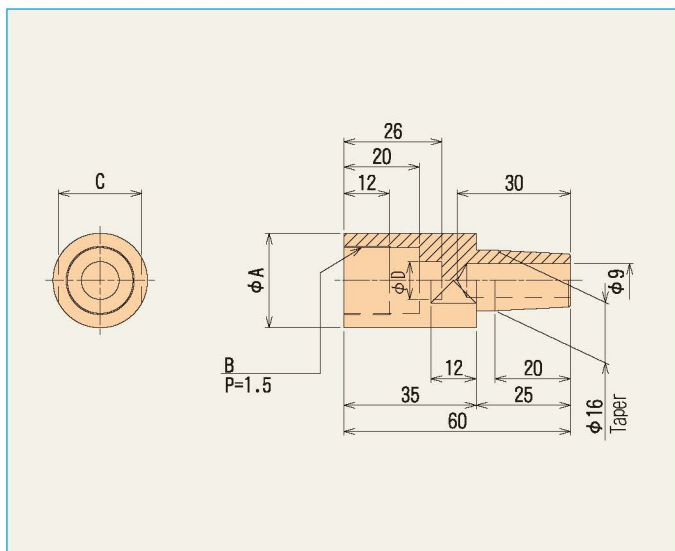
525MF · 530MF

Order code

Product name - Type

Unit : mm

| Product name | Size | | | | |
|--------------|------|-----|----|----|----------------------------------------|
| | A | B | C | D | Taper |
| 525MF | 25 | M18 | 22 | 10 | 16' ₁₀ , 16' ₅ ● |
| 530MF | 30 | M22 | 27 | 13 | 16' ₁₀ , 16' ₅ ● |



625MF · 630MF

Order code

Product name - Type

Unit : mm

| Product name | Size | | | | |
|--------------|------|-----|----|----|----------------------------------------|
| | A | B | C | D | Taper |
| 625MF | 25 | M18 | 22 | 10 | 16' ₁₀ , 16' ₅ ● |
| 630MF | 30 | M22 | 27 | 13 | 16' ₁₀ , 16' ₅ ● |

Lower electrode for nut welding (Toyota)

Welding electrode for projection nut



- ▶ KCF guide pin
 - ▶ Lower electrode
 - ▶ Lower electrode holder
- } Lower electrode for weld nuts is combination of these 3 kinds
- ▶ Please use by set of KCF guide pin, Lower electrode and Lower electrode holder
 - ※ Guide pin will be lifted stably by Air flow.



- ▶ Shape of Guide pin tip is tapered convexed. R shaped taper enable stable nut insert and holding.

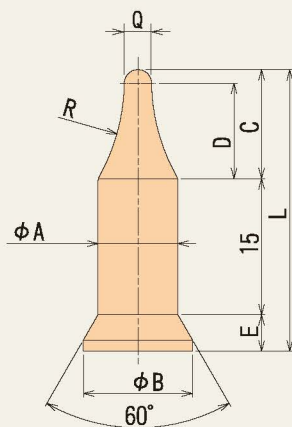
KCF guide pin Welding electrode for projection nut

Order code

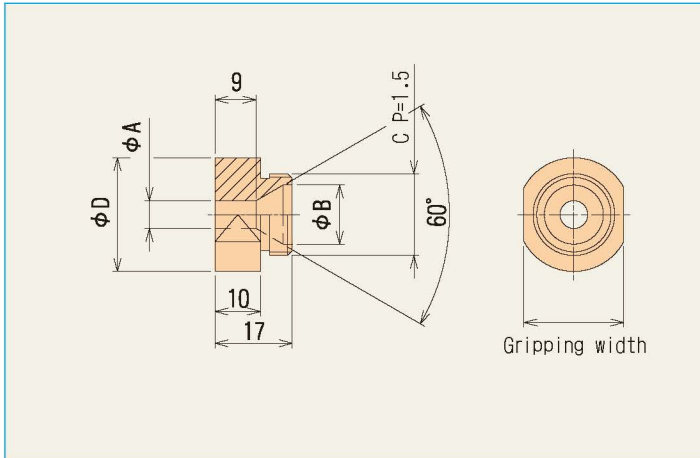
W-PN-Code

Unit : mm

| Nut | Code | Size | | | | | | | |
|-----|------|------|------|------|------|------|-----|---|------|
| | | A | B | L | C | D | E | Q | R |
| M4 | 4P | 4.8 | 12.0 | 29.0 | 6.5 | 5.5 | 7.5 | 2 | 11.0 |
| M5 | 5P | 5.8 | 12.0 | 30.0 | 8.5 | 7.5 | 6.5 | 2 | 15.0 |
| M6 | 6P | 6.8 | 12.0 | 31.5 | 11.0 | 9.5 | 5.5 | 3 | 23.6 |
| M8 | 8P | 8.8 | 12.0 | 31.0 | 12.0 | 10.5 | 4.0 | 3 | 21.7 |
| M10 | 10P | 10.8 | 16.0 | 34.5 | 14.0 | 12.0 | 5.5 | 4 | 22.3 |
| M12 | 12P | 12.8 | 16.0 | 36.0 | 17.0 | 15.0 | 4.0 | 4 | 27.0 |



Lower electrode Welding electrode for projection nut



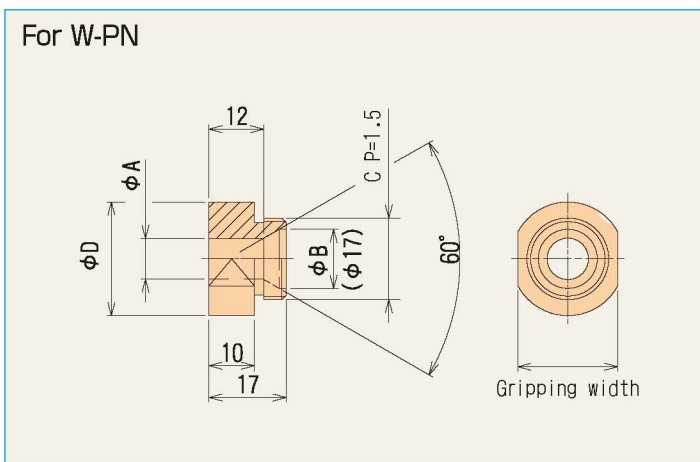
Order code

W-PN-C Code

Unit : mm

| Nut | Code | Size | | | | Gripping width |
|-----|------|------|----|-----|----|----------------|
| | | A | B | C | D | |
| M4 | 4 | 5.1 | 13 | M18 | 25 | 22 |
| M5 | 5 | 6.1 | 13 | M18 | 25 | 22 |
| M6 | 6 | 7.1 | 13 | M18 | 25 | 22 |
| M8 | 8 | 9.1 | 13 | M18 | 25 | 22 |
| M10 | 10 | 11.1 | 17 | M22 | 30 | 27 |
| M12 | 12 | 13.1 | 17 | M22 | 30 | 27 |

For W-PN



Order code

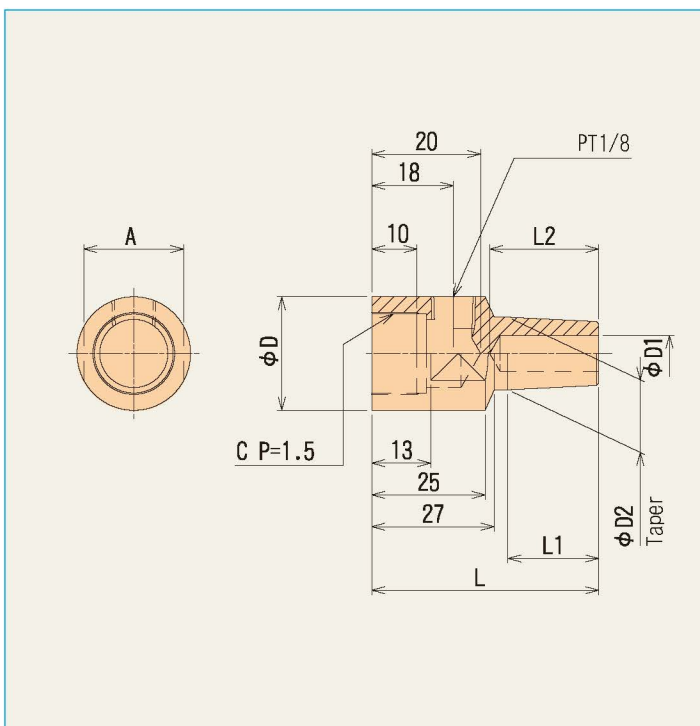
TMS-C Code

Unit : mm

| Nut | Code | Size | | | | Gripping width |
|-----|------|------|----|-----|----|----------------|
| | | A | B | C | D | |
| M4 | 4 | 5 | — | M18 | 25 | 22 |
| M5 | 5 | 6 | — | M18 | 25 | 22 |
| M6 | 6 | 7 | — | M18 | 25 | 22 |
| M8 | 8 | 9 | 13 | M18 | 25 | 22 |
| M10 | 10 | 11 | — | M22 | 30 | 27 |
| M12 | 12 | 13 | 17 | M22 | 30 | 27 |

Lower electrode holder Welding electrode for projection nut

● mark and blue letter means ordered product.



Order code

W-PN-B Code - Taper

Unit : mm

| Code | Size | | | | | | L | L ₁ | L ₂ |
|------|------|-----|----|----------------|----------------|-------------------------------------------|----|----------------|----------------|
| | A | C | D | D ₁ | D ₂ | Taper | | | |
| 1 | 22 | M18 | 25 | 8 | 12.065 | MT1 ● | 45 | 16 | 18 |
| 2 | 27 | M22 | 30 | 8 | 15.875 | MT2,16' ₁₀ ,16' ₅ ● | 50 | 20 | 24 |
| 3 | 22 | M18 | 25 | 8 | 15.875 | MT2,16' ₁₀ ,16' ₅ ● | 50 | 20 | 24 |

Ceramic guide pin (Si_3N_4)

Ceramic guide pin

Material : Silicon nitride

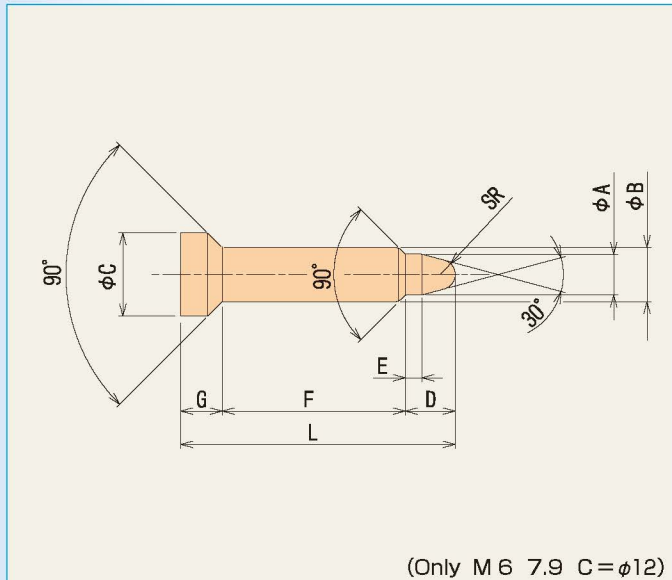
● mark and blue letter means ordered product.



▶ Guide pin for weld nut welding.



- ▶ ① This is excellent durability in attrition, so it is not necessary to do maintenance in attrition.
- ▶ ② The material is insulator so operation of work putting on/off is very smooth.
- ▶ ③ This ceramic is one of Fine ceramic and having high durability in attrition, heat and impact. Further this is given HIP (Hot Isostatic Pressing) treatment that increase durability in impact.

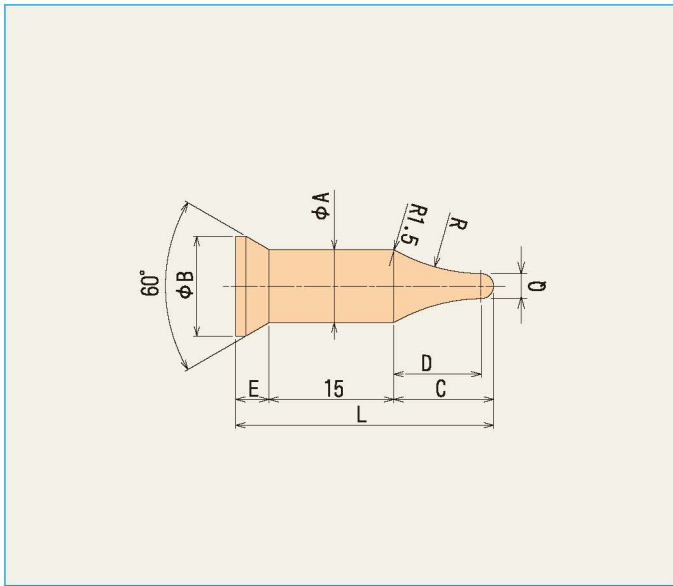


Order code

SAIMINASU-Code - B

Unit : mm

| Nut | Code | Size | | | | | | | | |
|-----|-------------|------|------------------------|----|----|-----|----|---|----|--|
| | | A | B | C | D | E | F | G | L | |
| M 4 | M 4 | 3.2 | 4.8, 5.0, 5.9 ● | 11 | 5 | 2.0 | 21 | 5 | 31 | |
| M 5 | M 5 | 4.2 | 5.8, 6.0, 6.9 ● | 11 | 6 | 2.0 | 21 | 5 | 32 | |
| M 6 | M 6 | 4.9 | 6.8, 7.0 | 10 | 6 | 2.0 | 22 | 5 | 33 | |
| M 8 | M 8 | 6.7 | 8.8, 9.0, 9.9 ● | 12 | 7 | 2.5 | 22 | 5 | 34 | |
| M10 | M10 | 8.5 | 10.8, 11.0, 11.9 ● | 14 | 10 | 3.0 | 23 | 5 | 38 | |
| | UNIFY | 9.8 | 11.8, 12.0, 12.8, 13.0 | 16 | 10 | 3.0 | 23 | 5 | 38 | |
| M12 | M12 | 10.5 | 12.8, 13.0, 13.9 ● | 16 | 10 | 3.0 | 23 | 5 | 38 | |
| | 6/8 Two-way | | 8.8, 9.0 | 12 | 6 | 2.0 | 22 | 5 | 37 | |

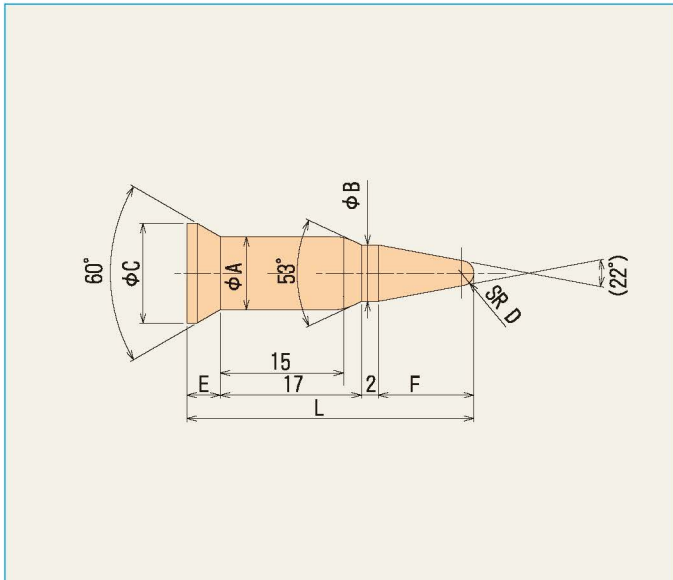


Order code

S-WPN-Code

Unit : mm

| Nut | Code | Size | | | | | | | |
|-----|------|------|----|------|------|-----|---|------|------|
| | | A | B | C | D | E | Q | R | L |
| M 4 | 4P | 4.8 | 12 | 6.5 | 5.5 | 7.5 | 2 | 11.0 | 29.0 |
| M 5 | 5P | 5.8 | 12 | 8.5 | 7.5 | 6.5 | 2 | 15.5 | 30.0 |
| M 6 | 6P | 6.8 | 12 | 11.0 | 9.5 | 5.5 | 3 | 22.5 | 31.5 |
| M 8 | 8P | 8.8 | 12 | 12.0 | 10.5 | 4.0 | 3 | 45.0 | 31.0 |
| M10 | 10P | 10.8 | 16 | 14.0 | 12.0 | 5.5 | 4 | 23.0 | 34.5 |
| M12 | 12P | 12.8 | 16 | 17.0 | 15.0 | 4.0 | 4 | 27.6 | 36.0 |



Order code

S-WPN-Code

Unit : mm

| Nut | Code | Size | | | | | | |
|--------|--------|------|-----|----|-----|---|------|------|
| | | A | B | C | D | E | F | L |
| M6/M8 | 6/8 P | 8.8 | 6.8 | 12 | 1.4 | 4 | 11.5 | 34.5 |
| M8/M10 | 8/10 P | 10.8 | 8.8 | 16 | 1.5 | 6 | 12.0 | 37.0 |

Upper electrode for nut welding

Upper holder for weld nut



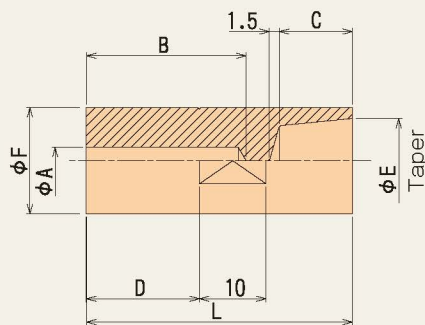
Application

▶ Upper electrode for weld nut welding.

Features

- ▶ ① We have 2 kinds of upper electrode One is Cap type and another is all-in-one type.
- ▶ ② Material for cap system is CuBe50 that is suitable for projection welding. Further this enable cooling to tip toe and realize long life.

Material : CuBe50



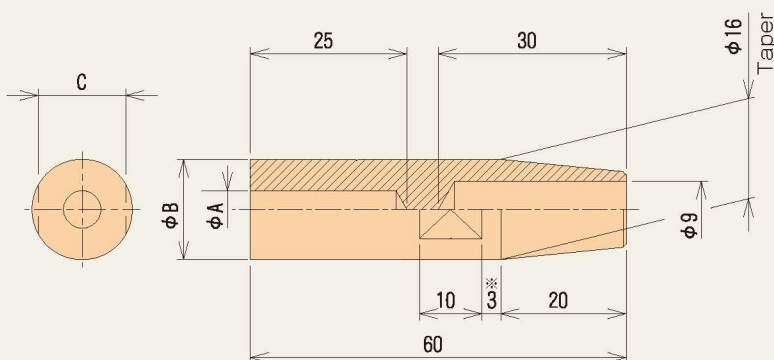
Order code

(∅) (∅) (Overall length)
MA-NFL

Unit : mm

| Nut | Size | | | | | | | Gripping width |
|-----|------|----|----|----|------|----|----|----------------|
| | A | B | C | D | E | F | L | |
| M 4 | 4 | 25 | 10 | 19 | 10.0 | 13 | 40 | 11 |
| M 5 | 5 | 25 | 10 | 19 | 10.0 | 13 | 40 | 11 |
| M 6 | 6 | 25 | 10 | 19 | 10.0 | 13 | 40 | 11 |
| M 4 | 4 | 24 | 11 | 17 | 12.6 | 16 | 40 | 14 |
| M 5 | 5 | 24 | 11 | 17 | 12.6 | 16 | 40 | 14 |
| M 6 | 6 | 24 | 11 | 17 | 12.6 | 16 | 40 | 14 |
| M 8 | 8 | 24 | 11 | 17 | 12.6 | 16 | 40 | 14 |
| M 8 | 8 | 33 | 11 | 23 | 12.6 | 20 | 48 | 17 |
| M10 | 10 | 33 | 11 | 23 | 12.6 | 20 | 48 | 17 |
| M12 | 12 | 33 | 11 | 23 | 12.6 | 25 | 48 | 22 |

Material : CuCr



※ M4 ~ M8 are 3mm. M10, M12 are 5mm.

Order code

(∅) (∅)
MA/B×60-Taper

Taper : 16¹/₁₀, 16¹/₅

Unit : mm

| Nut | Size | | |
|-----|------|----|----|
| | A | B | C |
| M 4 | 4 | 16 | 14 |
| M 5 | 5 | 16 | 14 |
| M 6 | 6 | 16 | 14 |
| M 8 | 8 | 16 | 14 |
| M10 | 10 | 22 | 20 |
| M12 | 12 | 25 | 22 |

Electrode for bolt welding



▶ By application of insulating materials (KCF, Ceramics) inside of electrode, it prevents screw from breakage and damage due to electric split flow.

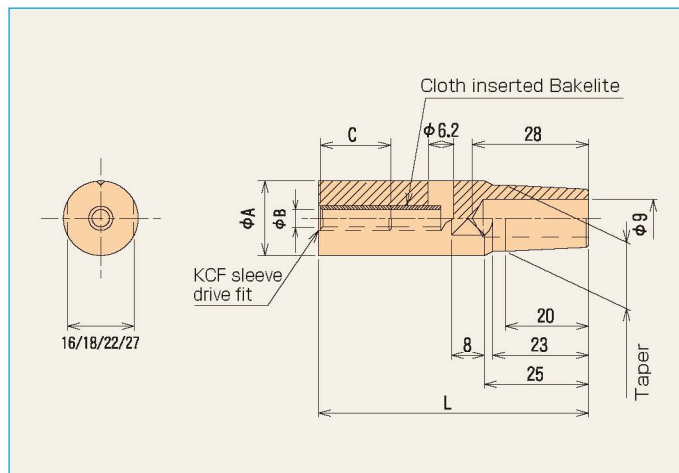


▶ We have all-in-one type and split type.

- ① All-in-one type
By making electrode diameter thinner, it can work on welding at narrow position.
- ② Split type
Only lower electrode can be replaced. There are 2 kinds by difference of insulating materials. This works only combination with * lower electrode holder.
* This lower electrode holder is same with lower electrode holder for weld nut.
- **Integrated type with electrode for bolt**
Lower electrode using KCF as insulator. KCF is metal with insulating coating and superior in electrical insulation and durability in impulse.
- **Saiper tip (Si_3N_4)**
Lower electrode using Saiper tip (Si_3N_4) as insulation.

All-in-one type electrode for bolt welding

● mark and blue letter means ordered product.



Order code

A **B** Code **B** - **L** - Taper

All-in-one type

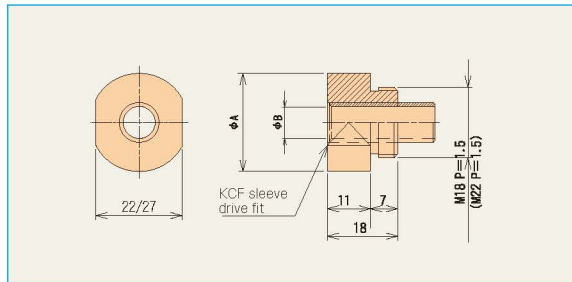
Unit : mm

| Nut | Size | | | | | |
|-----|------|------|------|----|----|---------------------------------------------------------------------|
| | A | Code | B | C | L | Taper |
| M 4 | 18 | 4 | 4.2 | 17 | 65 | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |
| M 5 | 18 | 5 | 5.2 | 17 | 65 | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |
| M 6 | 18 | 6 | 6.2 | 22 | 70 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| M 8 | 20 | 8 | 8.2 | 27 | 75 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| M10 | 25 | 10 | 10.2 | 32 | 85 | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| M12 | 30 | 12 | 12.2 | 32 | 85 | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |

Cloth inserted Bakelite.
KCF sleeve drive fit

Split type electrode for bolt welding

● mark and blue letter means ordered product.



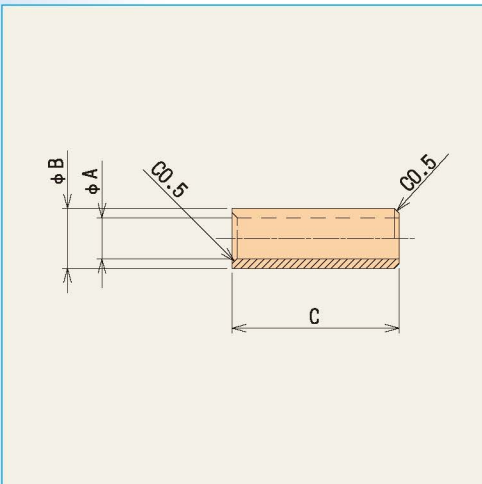
Order code

A **M** **B** **Code** **B**

| All-in-one type | | Unit : mm | |
|-----------------|------|-----------|--------|
| Nut | Code | Size | |
| | | A | B |
| M 4 | 4 | 25 | 4.2 |
| M 5 | 5 | 25 | 5.2 |
| M 6 | 6 | 25 | 6.2 |
| M 8 | 8 | 25 | 8.2 |
| M10 | 10 | 30 | 10.2 |
| M10 | 10 | 35 | 10.2 ● |
| M12 | 12 | 30 | 12.2 |
| M12 | 12 | 35 | 12.2 |

KCF sleeve drive fit

KCF sleeve



Order code

(Sleeve inside diameter) (φ)

KCF-A **Code** **A**

Unit : mm

| Code | Size | | |
|------|------|------|----|
| | A | B | C |
| 4 | 4 | 5.1 | 17 |
| 5 | 5 | 6.1 | 17 |
| 6 | 6 | 7.1 | 22 |
| 7 | 7 | 8.1 | 22 |
| 8 | 8 | 9.1 | 27 |
| 9 | 9 | 10.1 | 27 |
| 10 | 10 | 11.1 | 32 |
| 11 | 11 | 12.1 | 32 |
| 12 | 12 | 13.1 | 32 |

All items ordered products

Order code

(Sleeve inside diameter) (φ)

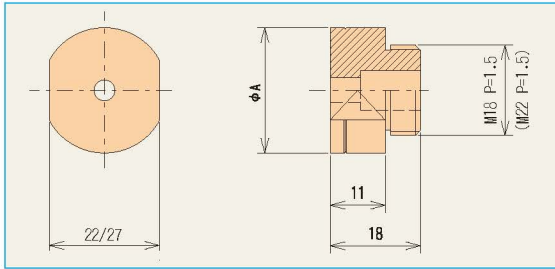
KCF-B **Code** **A**

Unit : mm

| Code | Size | | | | | | |
|------|------|------|------|------|------|------|----|
| | A | | | B | C | | |
| 4 | 4.0 | 4.2 | 4.4 | 4.6 | 4.8 | 6.1 | 17 |
| 5 | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 | 7.1 | 17 |
| 6 | 6.0 | 6.2 | 6.4 | 6.6 | 6.8 | 8.1 | 22 |
| 7 | 7.0 | 7.2 | 7.4 | 7.6 | 7.8 | 9.1 | 22 |
| 8 | 8.0 | 8.2 | 8.4 | 8.6 | 8.8 | 10.1 | 27 |
| 9 | 9.0 | 9.2 | 9.4 | 9.6 | 9.8 | 11.1 | 27 |
| 10 | 10.0 | 10.2 | 10.4 | 10.6 | 10.8 | 12.1 | 32 |
| 11 | 11.0 | 11.2 | 11.4 | 11.6 | 11.8 | 13.1 | 32 |
| 12 | 12.0 | 12.2 | 12.4 | 12.6 | 12.8 | 14.1 | 32 |
| 13 | - | 13.2 | - | - | - | 15.1 | 32 |
| 14 | - | 14.2 | - | - | - | 16.1 | 32 |
| 15 | - | 15.2 | - | - | - | 17.1 | 32 |

Saiper tip

● mark and blue letter means ordered product.



Order code

Ceramic

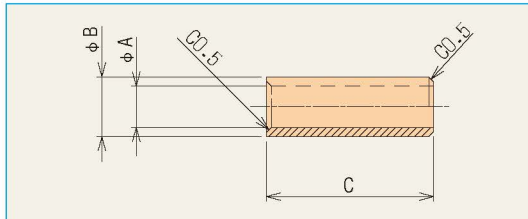
A MB-Saiper Inside diameter × Outer diameter - Length

Dual use as holder for welding nuts

Unit : mm

| Size | Saiper size | | |
|------|-----------------|----------------|--------|
| A | Inside diameter | Outer diameter | Length |
| 25 | 4.2 | 8 | 20 ● |
| 25 | 5.2 | 9 | 20 ● |
| 25 | 6.2 | 10 | 20 |
| 25 | 8.2 | 12 | 20 |
| 30 | 10.2 | 14 | 25 ● |
| 30 | 12.2 | 16 | 25 ● |

Saiper holder Ø15 × 10', Ø19 × 5' Bakelite

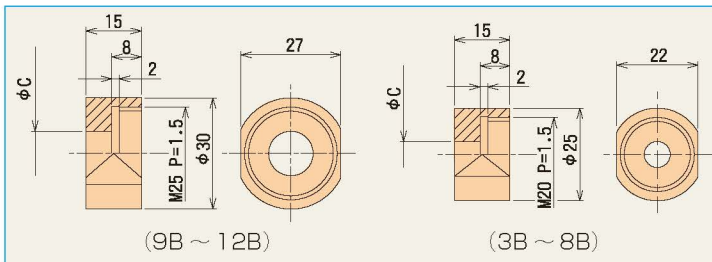


Order code

Saiper M Code

Unit : mm

| Code | Size | | |
|------|------|----|----|
| | A | B | C |
| 3 | 3.0 | 7 | 20 |
| 4 | 4.0 | 8 | 20 |
| 5 | 5.0 | 9 | 20 |
| 6 | 6.0 | 10 | 20 |
| 7 | 7.0 | 11 | 20 |
| 8 | 8.0 | 12 | 20 |
| 9 | 9.0 | 13 | 25 |
| 10 | 10.0 | 14 | 25 |
| 11 | 11.0 | 15 | 25 |
| 12 | 12.0 | 16 | 25 |



Order code

Saiper tip M Code

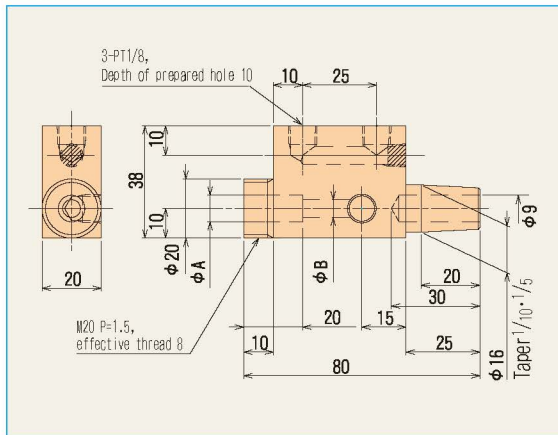
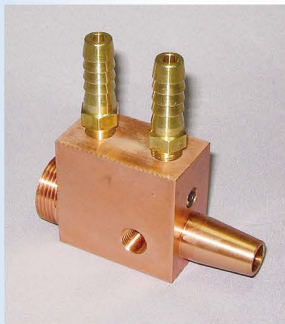
Unit : mm

| Code | Size |
|------|------|
| | C |
| 3B | 4 |
| 4B | 5 |
| 5B | 6 |
| 6B | 7 |
| 7B | 8 |
| 8B | 9 |
| 9B | 10 |
| 10B | 11 |
| 11B | 12 |
| 12B | 13 |

All items ordered products

Saiper cubic holder

● mark and blue letter means ordered product.



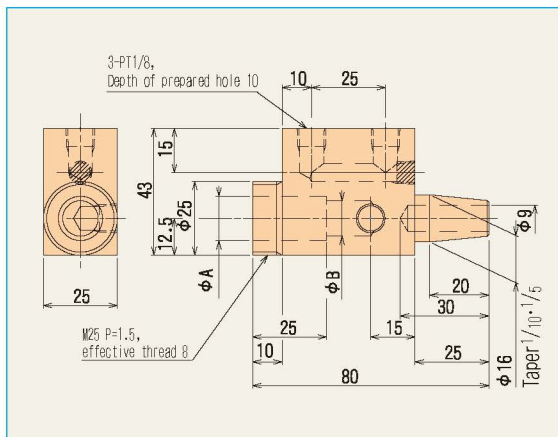
Order code

Saiper cubic holder 20cubic X Bolt diameter - Taper

Unit : mm

| Size | | | |
|---------------|------------------------------------------------------------------|----|-----|
| Bolt diameter | Taper | A | B |
| M 4 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 8 | 5 ● |
| M 5 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 9 | 6 ● |
| M 6 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 10 | 7 ● |
| M 8 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 12 | 9 ● |

All items ordered products



Order code

Saiper cubic holder 25cubic X Bolt diameter - Taper

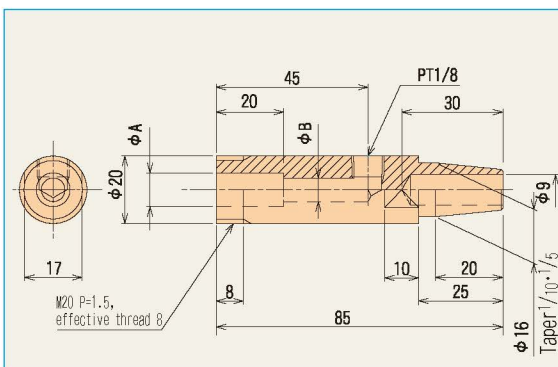
Unit : mm

| Size | | | |
|---------------|------------------------------------------------------------------|----|------|
| Bolt diameter | Taper | A | B |
| M10 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 14 | 11 ● |
| M12 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 16 | 13 ● |

All items ordered products

Saiper round holder

● mark and blue letter means ordered product.



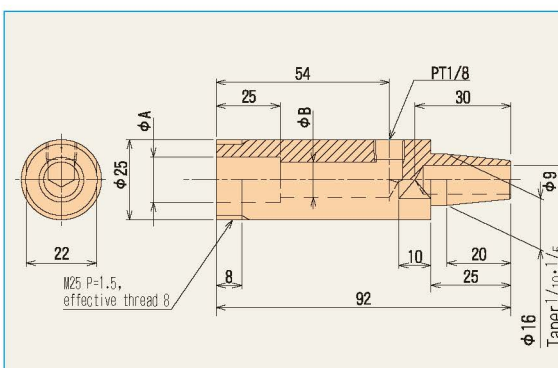
Order code

Saiper round holder 20round X Bolt diameter - Taper

Unit : mm

| Size | | | |
|---------------|------------------------------------------------------------------|----|-----|
| Bolt diameter | Taper | A | B |
| M 4 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 8 | 5 ● |
| M 5 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 9 | 6 ● |
| M 6 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 10 | 7 ● |
| M 8 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 12 | 9 ● |

All items ordered products



Order code

Saiper round holder 25round X Bolt diameter - Taper

Unit : mm

| Size | | | |
|---------------|------------------------------------------------------------------|----|------|
| Bolt diameter | Taper | A | B |
| M10 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 14 | 11 ● |
| M12 | 16 ¹ / ₁₀ , 16 ¹ / ₅ | 16 | 13 ● |

All items ordered products

Electrode for bolt welding

Water cooling jacket

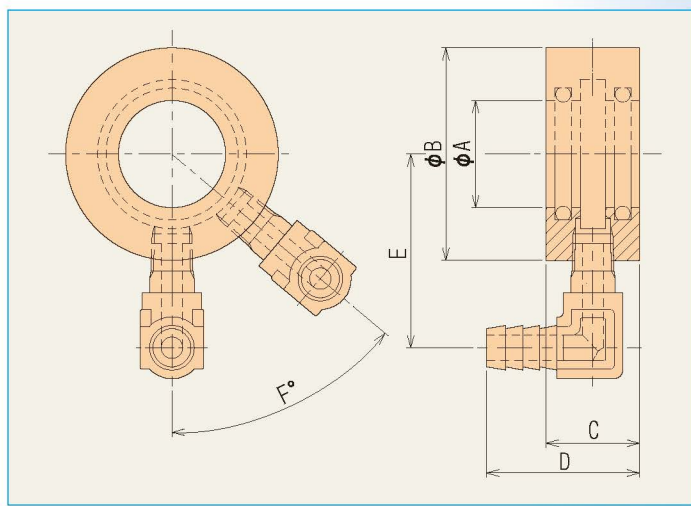
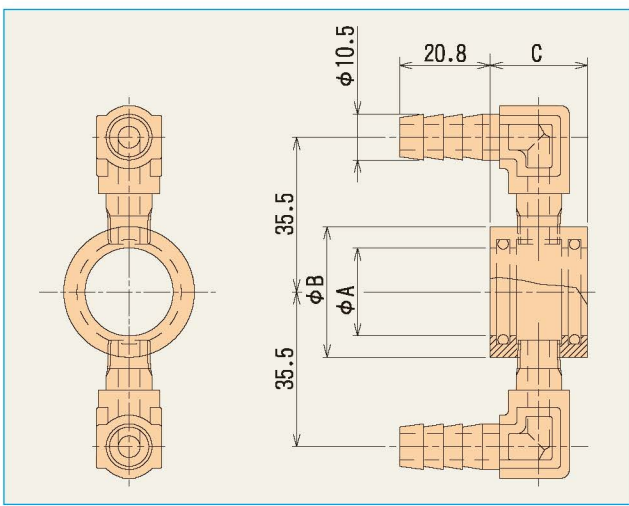
● mark and blue letter means ordered product.



► By cooling effect, this gives longer life of electrode and prevention from lowering conductivity by heat ascension.



► This matches with various kinds of holders.



Order code

Water cooling jacket Code I model / II model

| Code | A | B | | C | | O ring |
|------|-----------|-------------------------|-----------------------|---------|----------|--------|
| | | I model (Without screw) | II model (With screw) | I model | II model | |
| 18 | ● I model | 18.2 | 30 | 22.4 | 26.5 | P18 |
| | II model | 18.2 | 30 | 22.4 | 26.5 | P18 |
| 20 | I model | 20.2 | 30 | 22.4 | 26.5 | P20 |
| | II model | 20.2 | 30 | 22.4 | 26.5 | P20 |
| 30 | I model | 30.2 | 55 | 22.0 | 32.0 | P30 |
| | II model | 30.2 | 55 | 22.0 | 32.0 | P30 |

| Code | A | B | | C | | D | E | F | O ring |
|------|----------|-------------------------|-----------------------|---------|----------|----|------|----|--------|
| | | I model (Without screw) | II model (With screw) | I model | II model | | | | |
| 25 | I model | 25.2 | 50 | 22 | 32 | 36 | 45.5 | 50 | P25 |
| | II model | 25.2 | 50 | 22 | 32 | 36 | 45.5 | 50 | P25 |
| 32 | I model | 32.2 | 55 | 22 | 32 | 36 | 48 | 50 | P32 |
| | II model | 32.2 | 55 | 22 | 32 | 36 | 48 | 50 | P32 |



► Prevent from spatter adhesion on product (Thread at nut, thread at bolt and also for longer life of electrode.).

■ Recommendable set = Saiper + Water cooling jacket (with electrode)

Saiper

+

Water cooling jacket

Straight holder/L-shaped holder

Jointing electrode

Straight holder

● mark and blue letter means ordered product.



▶ This is mainly used for attaching holder with BS horn of stationery spot welding machine.

▶ We have wide range selections in diameter, length and taper.

Material : Cu

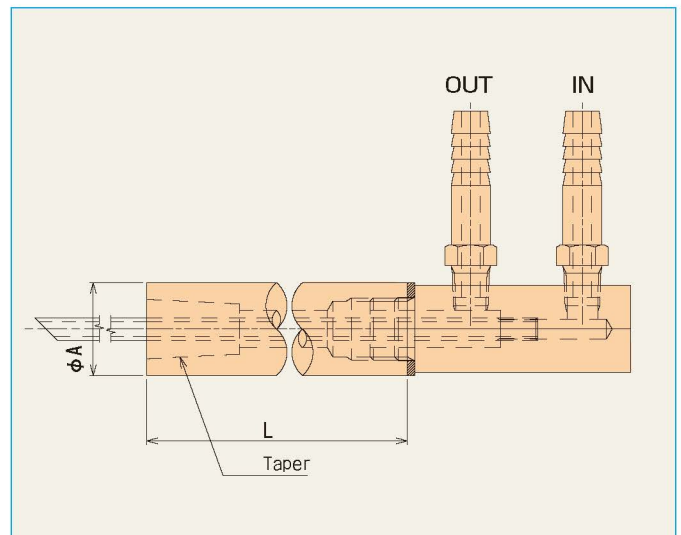


Type : Outer diameter ϕ 25 length 150 ~ 300. Taper various.

Outer diameter ϕ 32 length 200 ~ 250. Taper various.



Photo is assembly set of straight holder, cooling water joint and copper pipe.



Order code

A × **L** - Taper

Unit : mm

| A | L | Size |
|----|-----|-----------------------------------------------------------------------------------------------------------|
| | | Taper |
| 25 | 150 | 16 ¹ / ₁₀ , 16 ¹ / ₅ |
| 25 | 200 | 16 ¹ / ₁₀ , 16 ¹ / ₅ |
| 25 | 250 | 12 ¹ / ₁₀ ●, 16 ¹ / ₁₀ , 16 ¹ / ₅ , MT2 |
| 25 | 300 | 16 ¹ / ₁₀ , 16 ¹ / ₅ |
| 32 | 200 | 16 ¹ / ₁₀ , 16 ¹ / ₅ |
| 32 | 250 | 16 ¹ / ₁₀ , 16 ¹ / ₅ , 20 ¹ / ₅ ● |

L-shaped holder

● mark and blue letter means ordered product.

Application

▶ Principally the usage of this is the same with straight holder but this is used when the shape of the work prevent good connect between electrode and the work (welding object)

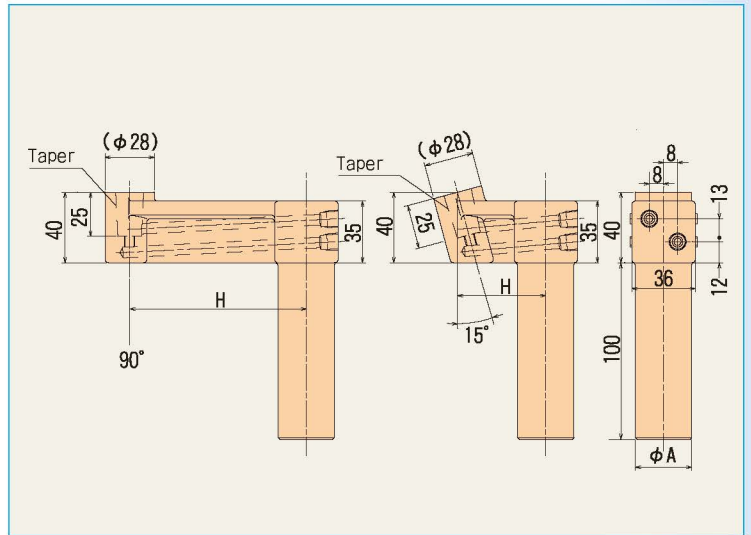
▶ Our varieties are 3 kinds in eccentric length, 2 kinds in degree and 2 kinds in attaching diameter to match with condition.

Features

▶ Tip taper degree are 2 kinds of 90° & 15° .

▶ Grip parts are 2 kinds of $\phi 25$ & $\phi 32$.

※ Because this is eccentric product, please use at lower than 2.45KN (250 kgf) on welding pressure



Order code

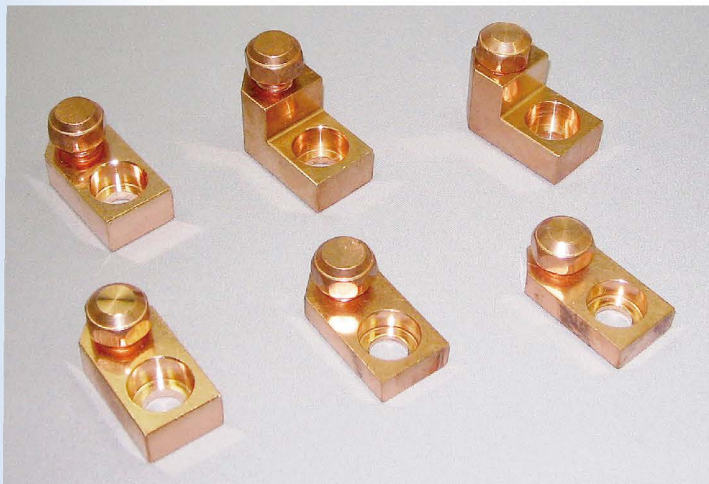
A × **H** × **Fixing degree** - **Taper**

Unit : mm

| Size | | | |
|------|-----|---------------|---------------------------------------------------------------------|
| A | H | Fixing degree | Taper |
| 25 | 50 | 90° | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 25 | 70 | 90° | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 25 | 100 | 90° | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 25 | 50 | 15° | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |
| 25 | 70 | 15° | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |
| 25 | 100 | 15° | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |

| Size | | | |
|------|-----|---------------|---------------------------------------------------------------------|
| A | H | Fixing degree | Taper |
| 32 | 50 | 90° | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 32 | 70 | 90° | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 32 | 100 | 90° | 16 ¹ / ₁₀ , 16 ¹ / ₅ ● |
| 32 | 50 | 15° | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |
| 32 | 70 | 15° | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |
| 32 | 100 | 15° | 16 ¹ / ₁₀ ●, 16 ¹ / ₅ ● |

Insert electrode/Base tip



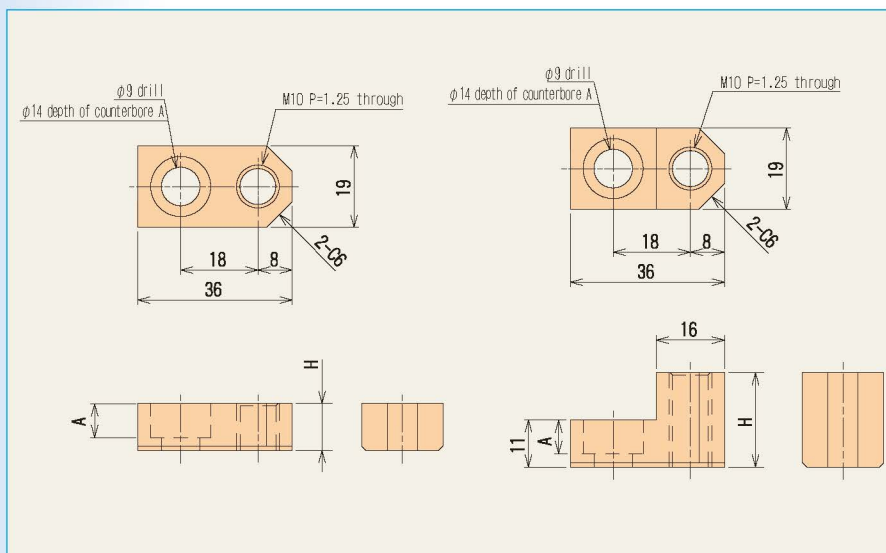
Application ▶ Mainly this is used on multi welding machine etc. By replacing base tip (electrode) only that locating at stationery side, it reduce maintenance cost.



- Features ▶
- ① W-IN type is made of CuCr. W-IN S type is CuBe50.
 - ② W-IN type is economical as it is replacing way.
 - ③ W-IN S type is also economical as this is partial replacement of base tip.

Insert electrode

Tip replacement system



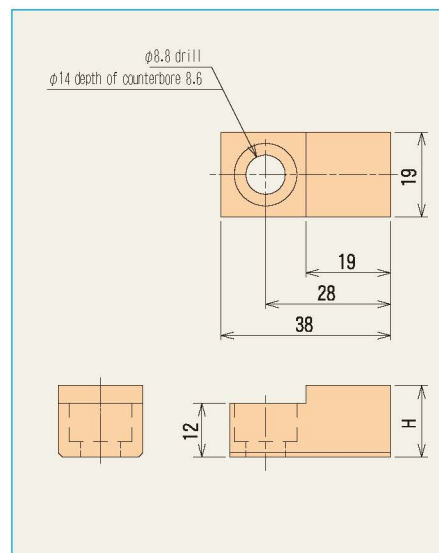
Order code

W-IN-Code-S

Material: CuBe50

| Code | Size | |
|------|------|----|
| | A | H |
| 16 | 6 | 8 |
| 19 | 8 | 11 |
| 30 | 8 | 22 |

Unit : mm



Order code

W-IN-Code

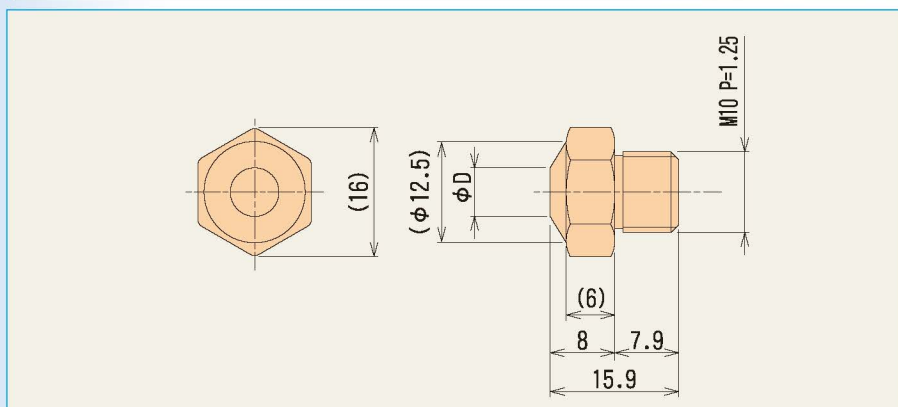
Material: CuCr

| Code | Size |
|------|------|
| | H |
| 16 | 16 |
| 19 | 19 |

Unit : mm

Base tip

Tip replacement system



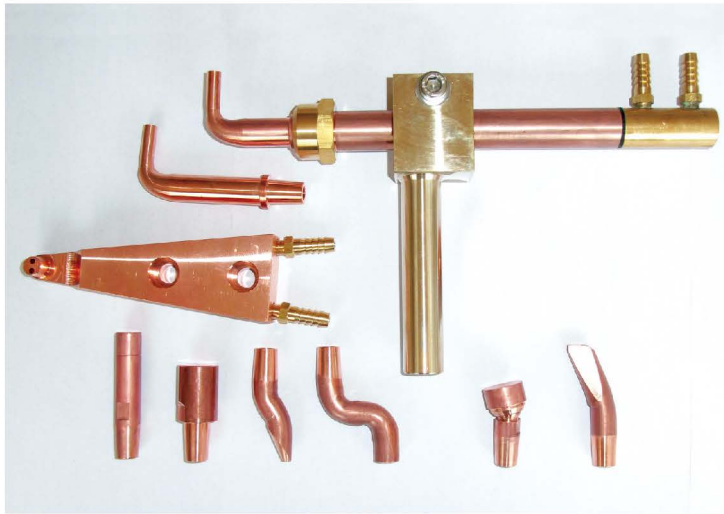
Order code

W-BT-S-Code

| Code | Size |
|------|------|
| | D |
| 1 | 6 |
| 2 | 8 |
| 3 | 14 |

Unit : mm

Spot Tip

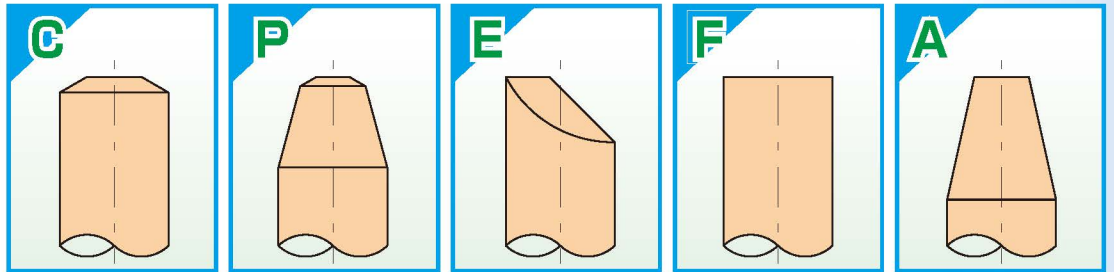


▶ One body electrode and there are various kind shapes which prevent from hazardous works (welding object).



▶ Various shapes electrode makes wide ranges welding.

Tip shape

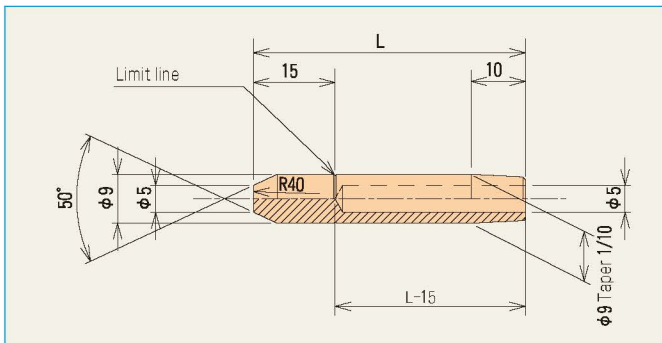


Straight Tip

Order code

SP-42B-L

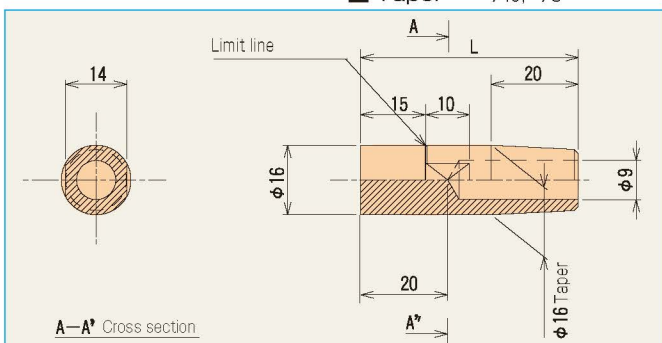
■ L size 30, 40, 50



Order code
(Tip shape)
(Outer diameter)

F16 x L-Taper

■ L size 50, 60, 70, 80
■ Taper 1/10, 1/5

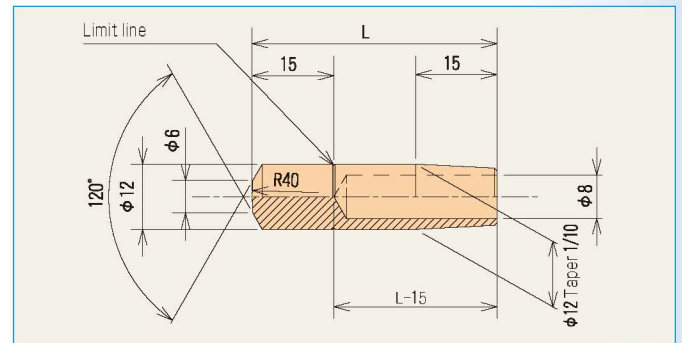


A-A' Cross section

Order code
(Tip shape)
(Outer diameter)

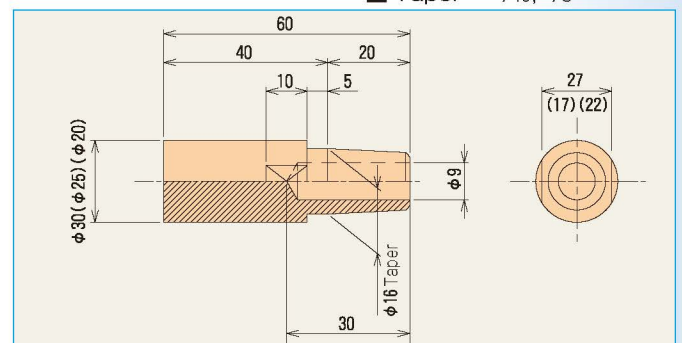
C12 x L

■ L size 40, 45, 50, 60, 70, 80



Order code
(Tip shape)

F Outer diameter x 60-Taper ■ Outer diameter 20, 25, 30
■ Taper 1/10, 1/5

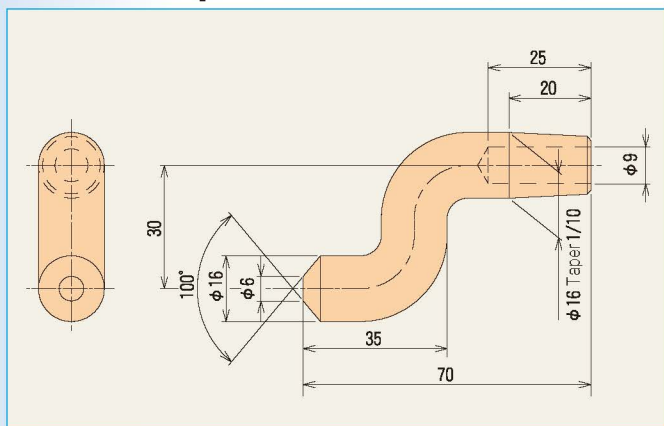


Off set tip

● mark and blue letter means ordered product.

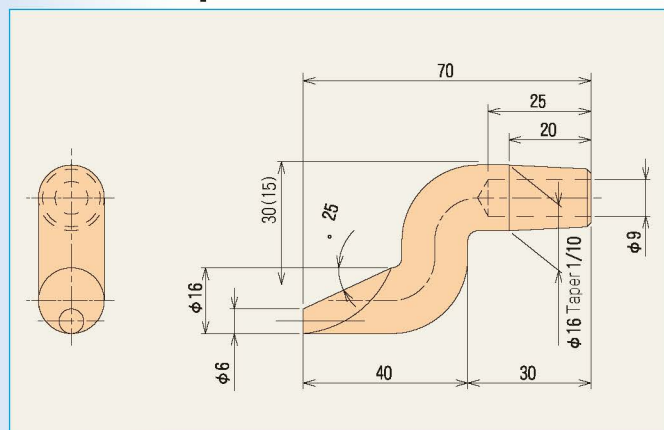
Order code

Curved tip C16 × 30H-16^{1/10}



Order code

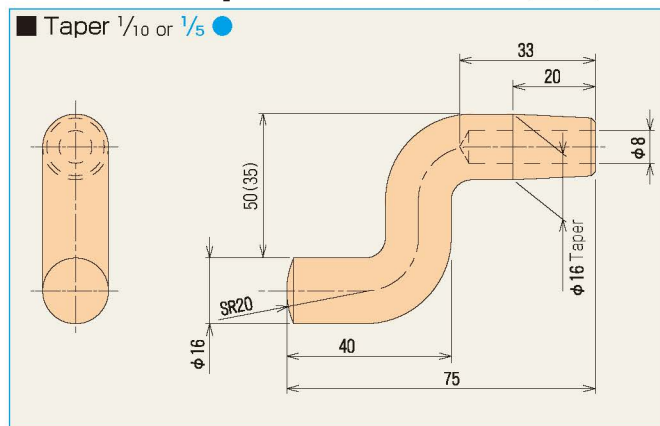
Curved tip E16 × 15H-16^{1/10} Curved tip E16 × 30H-16^{1/10}



Order code

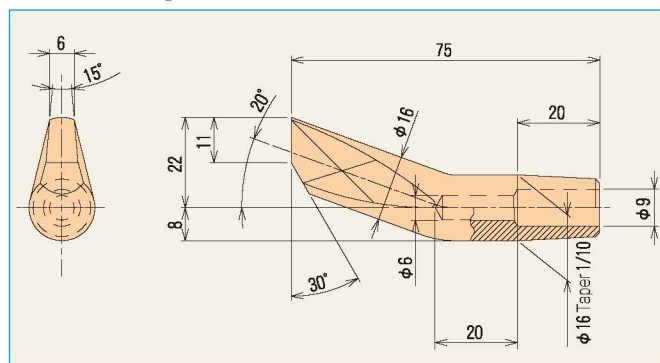
Curved tip R16 × 35H- Taper Curved tip R16 × 50H- Taper

■ Taper 1/10 or 1/5 ●

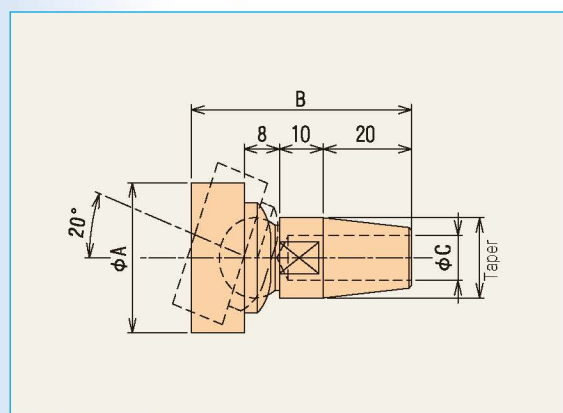


Order code

Bent tip 16^{1/10}●



Swivel tip



Order code

Swivel tip Ø A × B - Taper

Unit : mm

| Size | | | |
|------|----|---|----------------------------------------|
| A | B | C | Taper |
| 25 | 45 | 7 | 12 ^{1/10} |
| 25 | 50 | 9 | 16 ^{1/10} , 16 ^{1/5} |
| 30 | 50 | 9 | 16 ^{1/10} , 16 ^{1/5} |

CuBe insert tip holder Insert tip

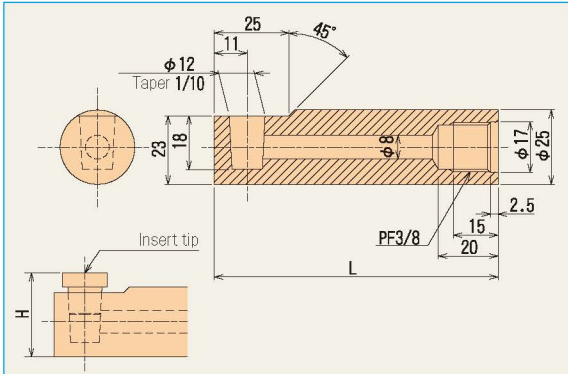
● mark and blue letter means ordered product.



▶ This is the same application with beryllium copper insert tip cap nut type.

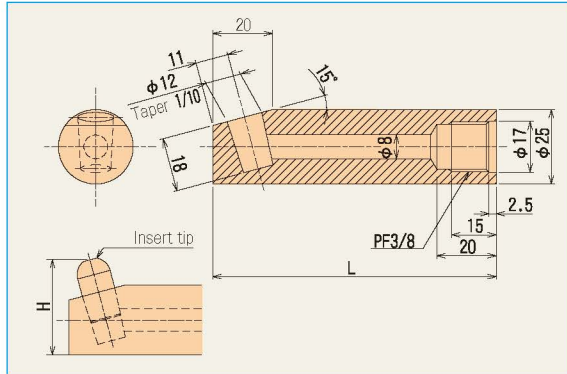


▶ This match with small (narrow) work (object) welding as this has few joints that do not interfere to contact with work (welding object).



Order code **25X** Code **-90°** Unit : mm

| Code | Size L |
|------|--------|
| 100 | 95 |
| 150 | 145 |
| 200 | 195 |



Order code **25X** Code **-15°** Unit : mm

All items ordered products

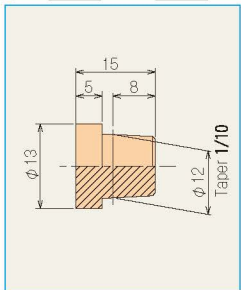
| Code | Size L |
|------|--------|
| 100 | 95 |
| 150 | 145 |
| 200 | 195 |

Unit : mm

| Insert tip | Size H |
|------------|--------|
| F13X15 | 32 |
| F16X15 | 32 |
| F16X24 | 37 |
| F20X20 | 34 |
| F20X24 | 37 |
| C16X24 | 37 |
| 5Ax22 | 34 |
| 5Ax27 | 39 |
| 5Ax32 | 44 |
| 5Ax37 | 49 |

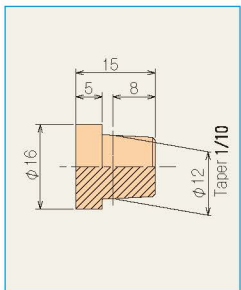
Insert tip

● mark and blue letter means ordered product.



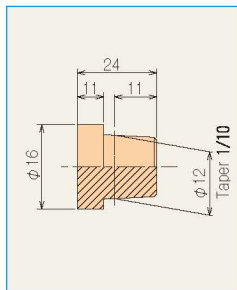
Unit : mm

| Size | | |
|------|---|----|
| A | B | C |
| 13 | 5 | 15 |



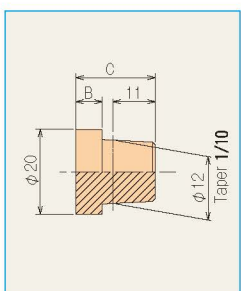
Unit : mm

| Size | | |
|------|---|----|
| A | B | C |
| 16 | 5 | 15 |



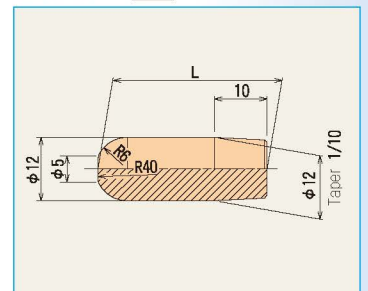
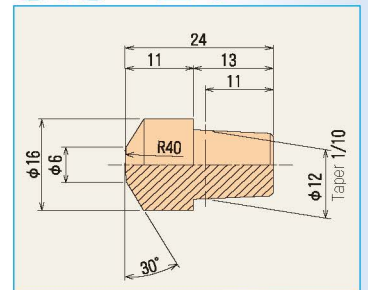
Unit : mm

| Size | | |
|------|----|----|
| A | B | C |
| 16 | 11 | 24 |



Unit : mm

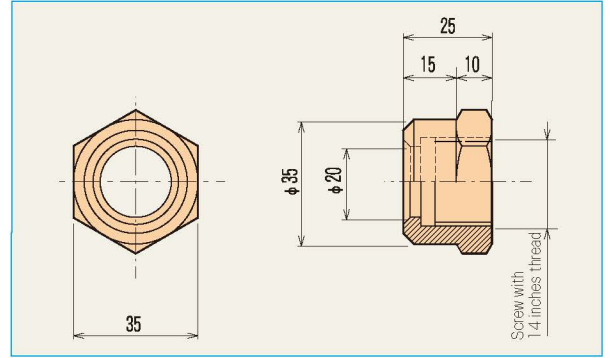
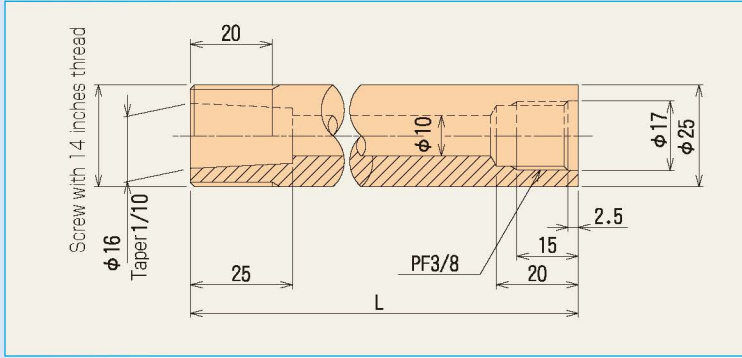
| Size | | |
|------|----|----|
| A | B | C |
| 20 | 7 | 20 |
| 20 | 11 | 24 |



Unit : mm

| Size |
|------|
| L |
| 22 |
| 27 |
| 32 |
| 37 |

CuBe insert holder cap nut type



Order code

CuBe insert holder cap nut type Code

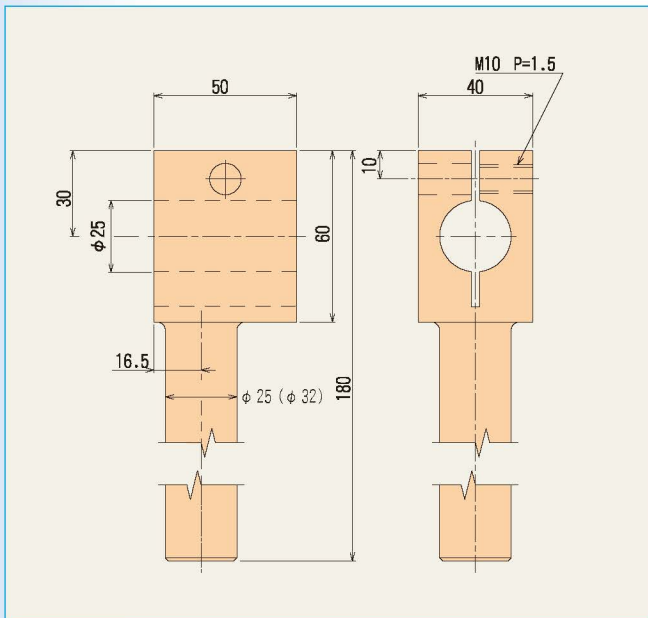
Unit : mm

| Code | Size |
|---------|------|
| | L |
| Ø25×100 | 95 |
| Ø25×150 | 145 |
| Ø25×200 | 195 |

BS insert holder

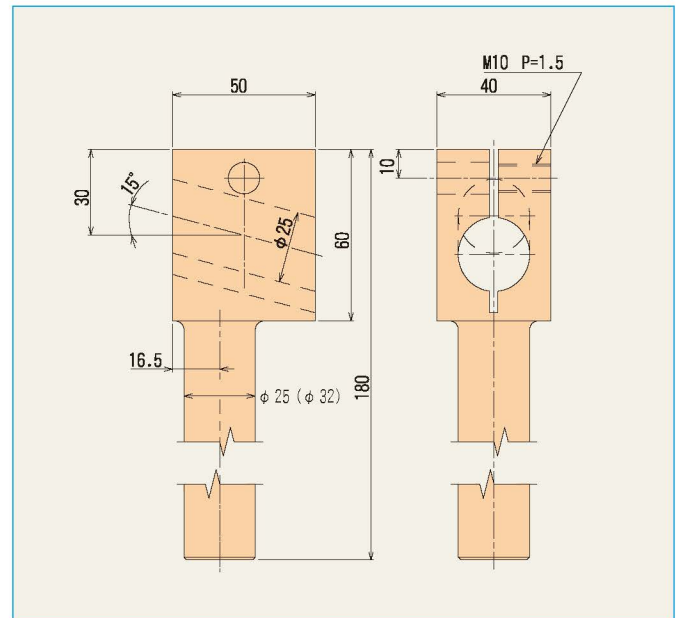
Order code

BS insert holder $\phi 25 \times 90^\circ$
BS insert holder $\phi 32 \times 90^\circ$



Order code

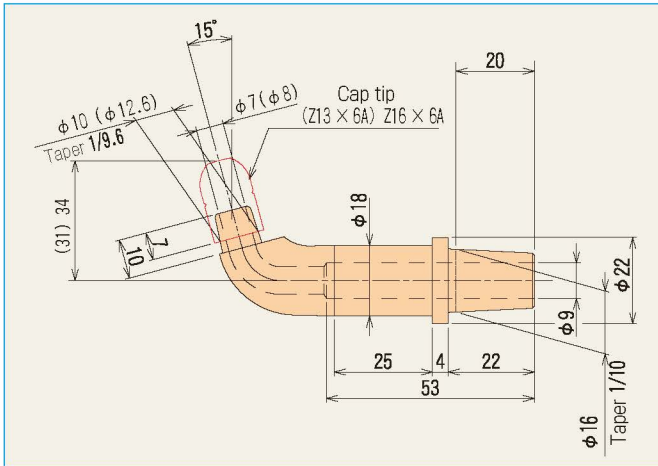
BS insert holder $\phi 25 \times 15^\circ$
BS insert holder $\phi 32 \times 15^\circ$



Gun shank

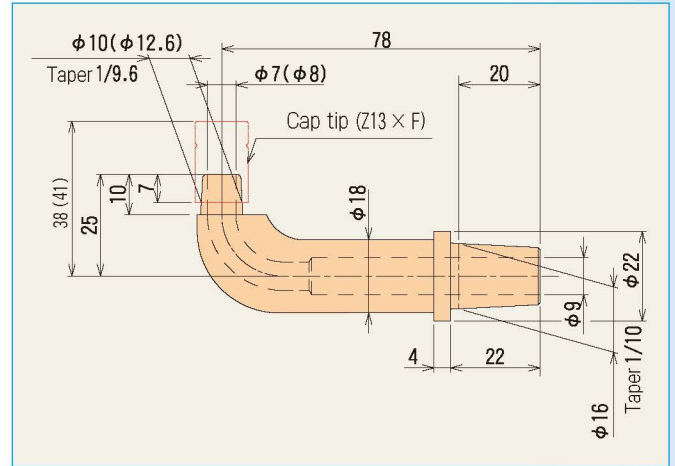
Order code

Gun shank $\varnothing 13 \times 15^\circ$
 Gun shank $\varnothing 16 \times 15^\circ$



Order code

Gun shank $\varnothing 13 \times 90^\circ$
 Gun shank $\varnothing 16 \times 90^\circ$



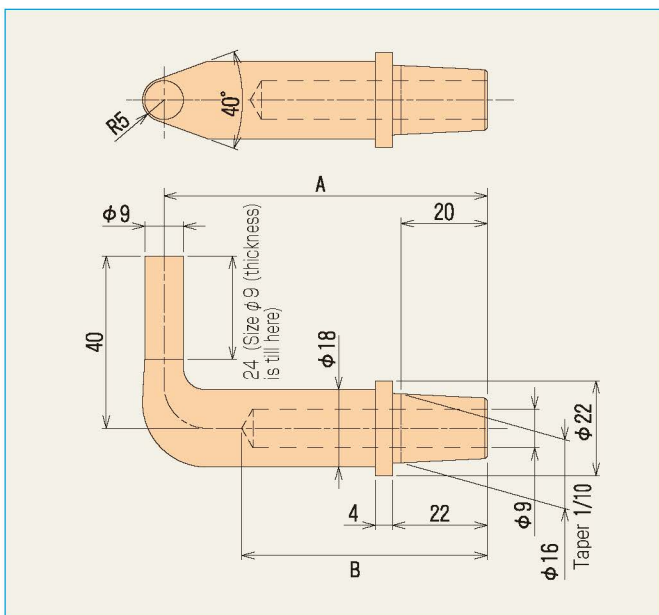
Gun tip

Application

► Gun tip (Gun shank) is inserted into the taper and is fixed with cap nut. Holder is inserted into the $\varnothing 25$ part of BS insert holder and is fixed tightly with M10 bolt. This Gun tip is used for welding on Box shaped and C shaped products and also at the place Flanges (Walls) is locating.

Features

- This is applicable to the product that cannot be welded directly.
- Gun shank allow to use Cap tip that is economical.
- This is stronger than L shaped holder and further have flexibility in adjustment on eccentricity that give application to wide range works (welding objects).

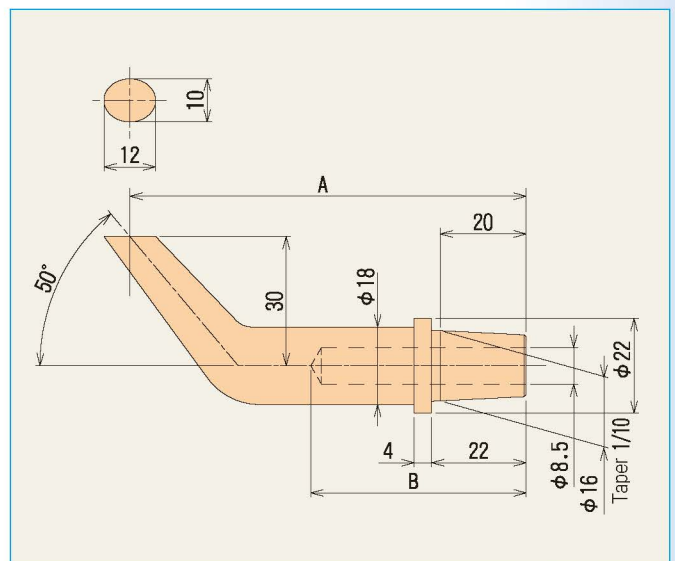


Order code

Gun tip **Code**

Unit : mm

| Code | Size | |
|------------|------|----|
| | A | B |
| X-25 Large | 105 | 85 |
| X-25 Small | 75 | 57 |



Order code

Gun tip **Code**

Unit : mm

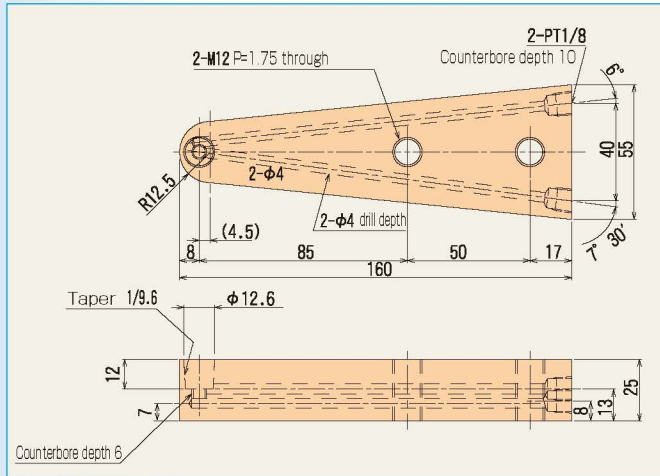
| Code | Size | |
|-------------|------|----|
| | A | B |
| X-27 Large | 132 | 90 |
| X-27 Medium | 112 | 70 |
| X-27 Small | 92 | 50 |

Triangular holder

● mark and blue letter means ordered product.

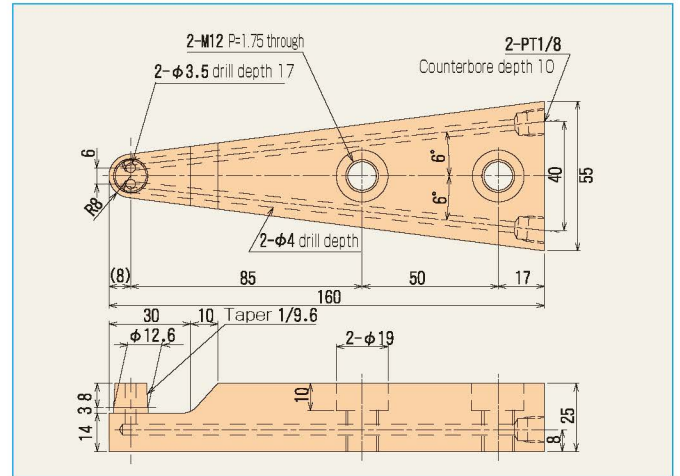
Order code

Triangular holder 002 model-I ●



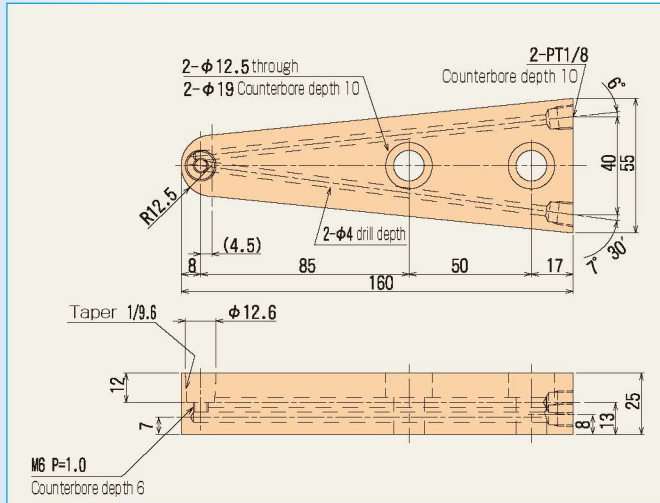
Order code

Triangular holder 012 model-I ●



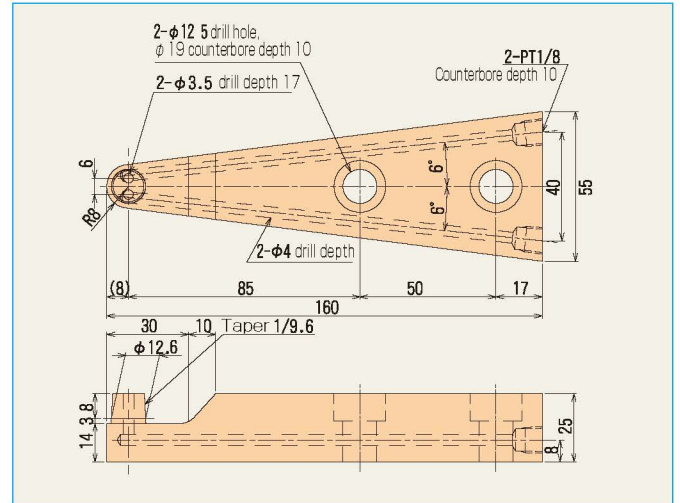
Order code

Triangular holder 002 model-II



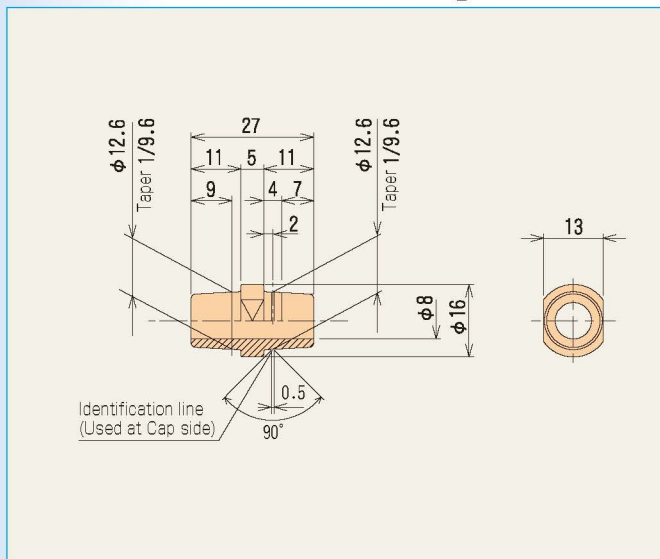
Order code

Triangular holder 012 model-II



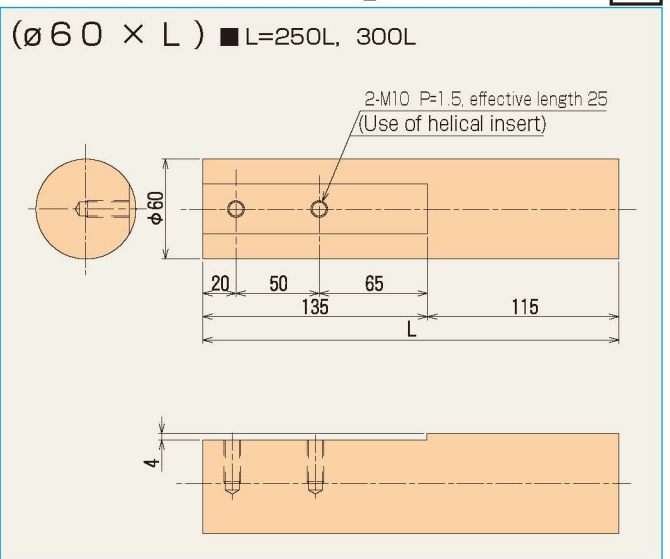
Order code

Shank model 011 for Triangular holder



Order code

BS Horn for Triangular holder L



BS horn

Order code **BS horn** Code

Regular stock

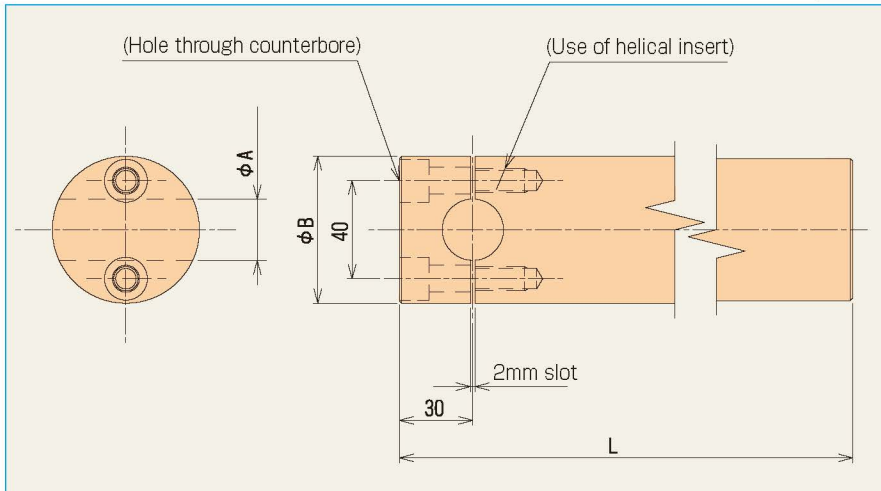
Unit : mm

| Code | Size | |
|-----------|------|-----|
| | B | L |
| Ø60 × 200 | 60 | 200 |
| Ø60 × 250 | 60 | 250 |
| Ø60 × 300 | 60 | 300 |
| Ø60 × 350 | 60 | 350 |
| Ø60 × 400 | 60 | 400 |

Product by order

Unit : mm

| Size and terms | |
|----------------|----------------------------|
| A | Ø25 Ø32 |
| L | Option |
| B | Ø55—M8 two screws fixing |
| B | Ø70—M10 two screws fixing |
| B | Ø80—M12 two screws fixing |
| B | Ø80—M10 four screws fixing |



BS shifting holder

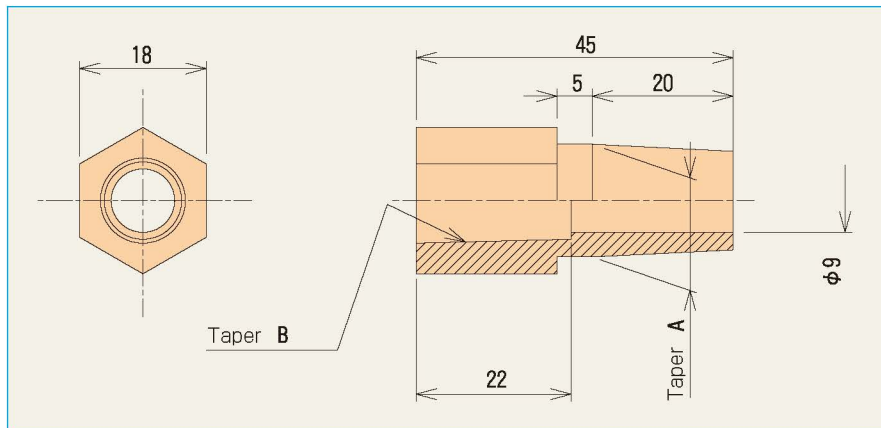
Order code

BS shifting holder Code

BS hexagonal material

Unit : mm

| Code | Size | |
|-------------------------------------------------------------------|---------------------------------|---------------------------------|
| | A | B |
| 16 ¹ / ₁₀ → 12 ¹ / ₁₀ | 16 ¹ / ₁₀ | 12 ¹ / ₁₀ |
| 16 ¹ / ₅ → 12 ¹ / ₁₀ | 16 ¹ / ₅ | 12 ¹ / ₁₀ |
| 16 ¹ / ₁₀ → 12MT1 | 16 ¹ / ₁₀ | 12MT1 |
| 16 ¹ / ₅ → 12MT1 | 16 ¹ / ₅ | 12MT1 |



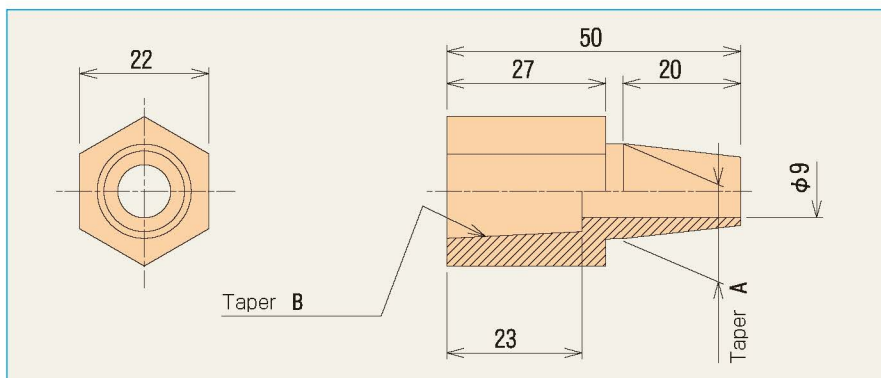
Order code

BS shifting holder Code

BS

Unit : mm

| Code | Size | |
|------------------------------------------------------------------|---------------------------------|---------------------------------|
| | A | B |
| 16 ¹ / ₅ → 16 ¹ / ₁₀ | 16 ¹ / ₅ | 16 ¹ / ₁₀ |
| 16 ¹ / ₁₀ → 16 ¹ / ₅ | 16 ¹ / ₁₀ | 16 ¹ / ₅ |
| 16 ¹ / ₁₀ → 16MT2 | 16 ¹ / ₁₀ | 16MT2 |
| 16MT2 → 16 ¹ / ₁₀ | 16MT2 | 16 ¹ / ₁₀ |



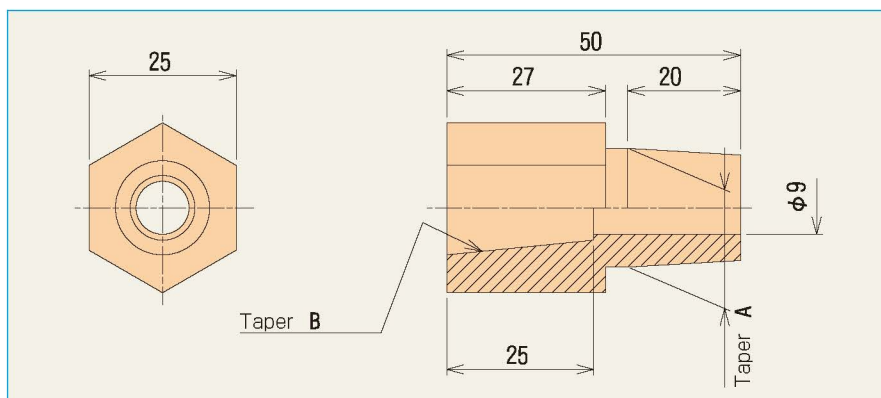
Order code

BS shifting holder Code

BS

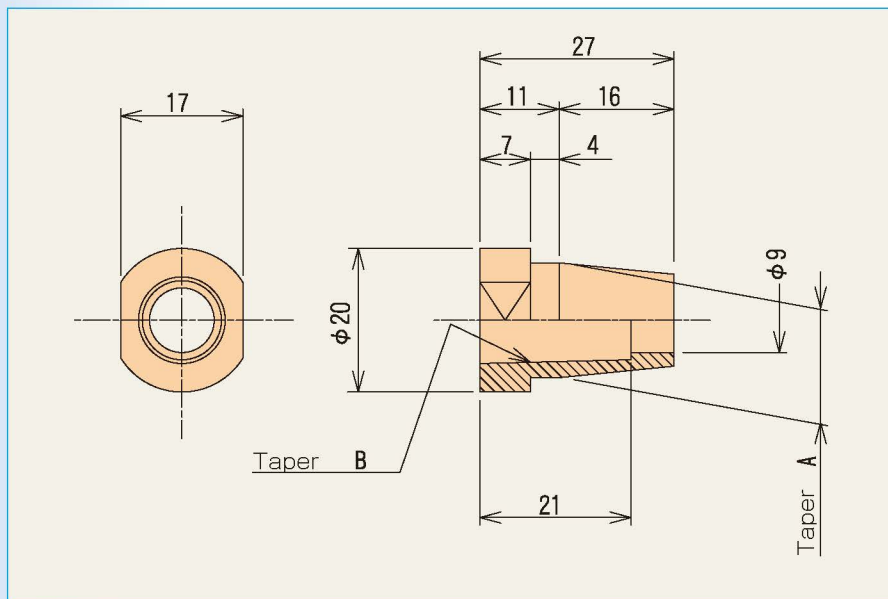
Unit : mm

| Code | Size | |
|-------------------------------------------------------------------|---------------------------------|---------------------------------|
| | A | B |
| 20 ¹ / ₁₀ → 16 ¹ / ₅ | 20 ¹ / ₁₀ | 16 ¹ / ₅ |
| 20 ¹ / ₁₀ → 16 ¹ / ₁₀ | 20 ¹ / ₁₀ | 16 ¹ / ₁₀ |
| 20 ¹ / ₅ → 16 ¹ / ₁₀ | 20 ¹ / ₅ | 16 ¹ / ₁₀ |
| 20 ¹ / ₅ → 16 ¹ / ₅ | 20 ¹ / ₅ | 16 ¹ / ₅ |
| 20 ¹ / ₁₀ → 16MT2 | 20 ¹ / ₁₀ | 16MT2 |



CuCr shifting holder

● mark and blue letter means ordered product.



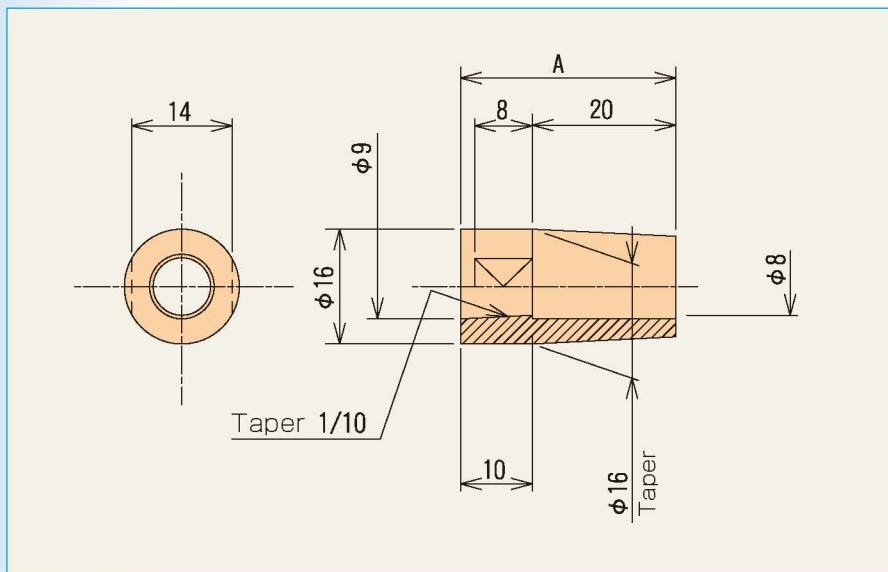
Order code

CuCr shifting holder Code

Unit : mm

| Code | Size | |
|-----------------------------------------|--------------------|---------------------|
| | A | B |
| 16 ^{1/10} → 12 ^{1/10} | 16 ^{1/10} | 12 ^{1/10} |
| 16 ^{1/5} → 12 ^{1/10} | 16 ^{1/5} | 12 ^{1/10} |
| 16MT2 → 12 ^{1/10} | 16MT2 | 12 ^{1/10} |
| 16 ^{1/10} → 12MT1 | 16 ^{1/10} | 12MT1 |
| 16 ^{1/5} → 12MT1 | 16 ^{1/5} | 12MT1 |
| 16MT2 → 12MT1 | 16MT2 | 12MT1 |
| 20 ^{1/5} → 16 ^{1/5} | 20 ^{1/5} | 16 ^{1/5} |
| 20 ^{1/5} → 16 ^{1/10} | 20 ^{1/5} | 16 ^{1/10} |
| 20 ^{1/10} → 16 ^{1/5} | 20 ^{1/10} | 16 ^{1/5} ● |
| 20 ^{1/10} → 16 ^{1/10} | 20 ^{1/10} | 16 ^{1/10} |

Shifting holder



Order code

SP-42A - Code - Taper

Unit : mm

| Code | Taper | Size |
|------|----------------------------------------|------|
| | | A |
| 30 | 16 ^{1/10} , 16 ^{1/5} | 30 |
| 40 | 16 ^{1/10} , 16 ^{1/5} | 40 |
| 50 | 16 ^{1/10} , 16 ^{1/5} | 50 |

All items ordered products

Cable adapter/Transformer adapter



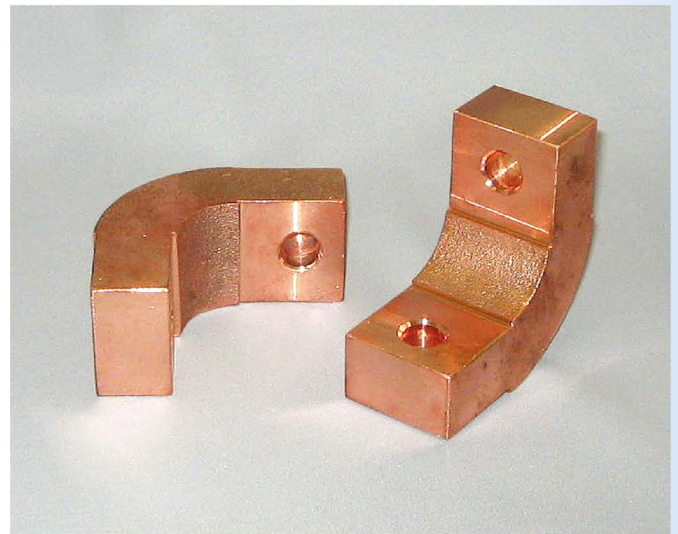
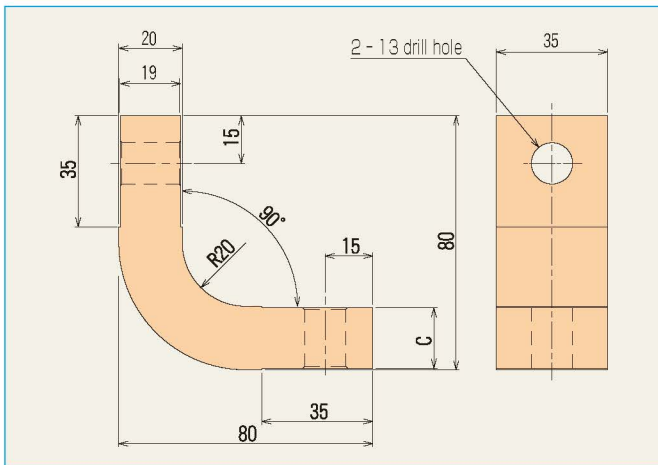
► **Cable adapter**

This is adapter for air-cooling cable and water-cooling cable.

► **Transformer adapter**

This is connecting adapter between transformer terminal and cables etc.

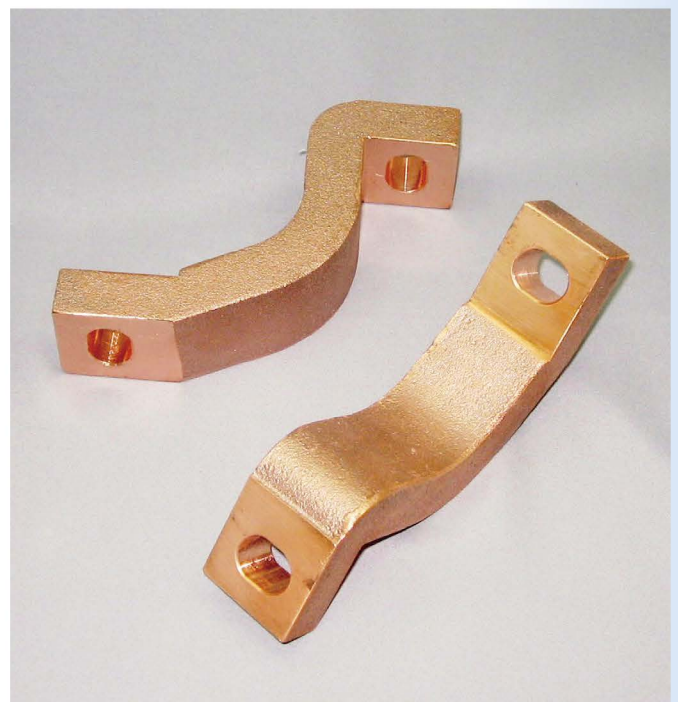
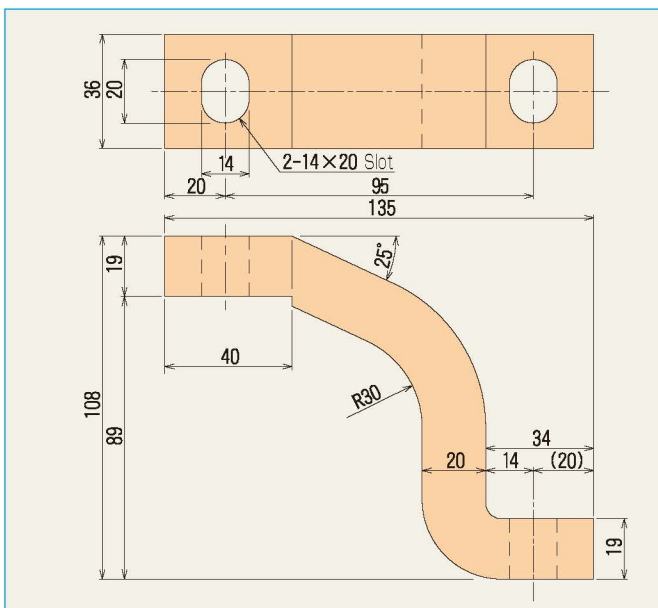
Cable adapter



Order code

W-CA-A

Transformer adapter



Order code

W-JCU-S-100

Pioneer and innovator in welding electrode

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We may change the specification of our products without any notice for improvement of the quality. Please ask our local office if necessary.