



SHAFTS -ONE SIDE MALE SCREW WITH WRENCH FLATS TYPE / WITH DRILLED HOLE TYPE

Technical drawing showing a cross-section of a precision assembly. The drawing includes:

- Dimensions:** Total length is 100 mm, indicated by a dimension line with arrows at the top.
- Tolerances:**
 - Vertical height is labeled as 30 ± 0.03.
 - A horizontal dimension is labeled as 20 ± 0.02.
 - A vertical dimension is labeled as 10 ± 0.01.
- Material:** Material 1 is specified for the main body.
- Surface Finish:** Surface finish is indicated as P.241.
- Notes:** A note specifies "精密型 0.03" (Precision Type 0.03) with a leader line pointing to the vertical height dimension.
- Material:** Material 2 is specified for the top cap.

**大訂單
對應**
BIG ORDER

◎型錄規格外的產品請參照 P.131
◎ CAD資料夾名稱：01_Shfts

■軸端部直角度精密度較高(± 0.03),精密導桿請參照P.241。■無扳手槽・無鑽孔型請參照P.19。

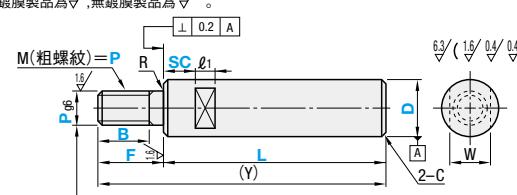


RoHS1

- ⑨扳手槽、鑽孔加工部、軸端加工部(螺牙效長度+約10mm)可能會因加工時的退火處理而導致硬度降低。 **P.142**
- ⑩鑽孔加工部附近會因退火處理造成外徑公差有出現誤差的可能性。
- ⑪L尺寸公差、真圓度、直直度、直角度、軸度、硬度變化 **P.141**
- ⑫鍍低溫黑色鉻的特長請參照 **P.15**

| Type | | | | M材質 | H硬度 | S表面處 |
|-------|--------|--------|-------|---------|--------------------------|---------------------------|
| 附扳手槽 | D公差g6 | 附鑽孔 | D公差f8 | | | |
| SEAS | SFUS | SFH | — | SUJ2 | 高周波淬火 相當於SUJS440C | — |
| SSFS | SSFUS | SSFH | — | SUJ2 | 有效硬化層深度 相等P.142 | 銀鍍金 銀鍍膜硬度HV750 |
| PSFS | PSFUS | PSFH | — | SUJ2 | 58HRC 相當於SUJS440C | 銀鍍腳厚/厚度5μ以上 銀-溫度650°C |
| PSSFS | PSSFUS | PSSFH | — | SUJ2 | 58HRC 相當於SUAS40C56HRC | 銀鍍腳厚/厚度5μ以上 銀-溫度650°C |
| RSFAS | — | RSFH | — | SUJ2 | — | 銀鍍腳厚/厚度5μ以上 銀-溫度650°C |
| — | — | PGSFS | PSGHN | 相當於S45C | — | 銀鍍腳厚/厚度5μ以上 銀-溫度650°C |
| — | — | PSSFGS | — | SU304 | — | 銀鍍腳厚/厚度10μ以上 銀-溫度650°C |

②D部位表面粗糙度的镀膜制只为 $0.4\text{ }\mu\text{m}$ ，无镀膜制只为 $0.4\text{ }\mu\text{m}$



- ①扳手槽、鑽孔加工部、軸端加工部(螺牙效長度+約10mm)可能會因加工時的退火處理而導致硬度降低。**P.142**
- ②鑽孔加工部附近會因退火處理造成外徑公差有出現誤差的可能性。
- ③L尺寸公差、圓度、直直度、直角度、軸度、硬度變化**P.141**
- ④鍍低溫黑色鉻的特長請參照**P.15**

| 型式 Type | | 指定單位1mm P 選擇 | | | 扳手槽尺寸 SC | | | 鑽孔尺寸 (Y) Max. | | | 粗螺牙尺寸 M Pitch | |
|------------------|---------|--------------------|---------|--------|--------------|----|----|---------------------|---|------|---------------------|-------|
| D | L | F | B | | W | l1 | H | d | R | C | M | Pitch |
| (附扳手槽) | (附鑽孔) | 6 | 25~798 | | 345 | | 5 | — | — | 600 | 3 | 0.5 |
| | | 8 | 25~998 | | 3456 | | 7 | 8 | | 800 | 4 | 0.7 |
| | | 10 | 25~998 | (P≤6時) | 4568 | | 8 | | | 800 | 3 | 0.8 |
| (D公差g6) | (D公差h5) | 12 | 25~1198 | B≤F-2 | 56810 | 10 | | | | 1000 | 5 | 0.8 |
| SFAS | SFUS | SFH | | | 5681012 | 11 | | | | 1000 | 6 | 1.0 |
| SSFAS | SSFUS | SSFH | | | 5681012 | 13 | | | | 1000 | 8 | 1.25 |
| PSFAS | PSFUS | PSFH | | | 5681012 | 14 | 10 | | | 1200 | 10 | 1.5 |
| PSSFAS | PSSFUS | PSSFH | | | 5681012 | 16 | | | | 1200 | 12 | 1.75 |
| RSFAS | | RSFH | | | 5681012 | 17 | | | | 1200 | 16 | 2.0 |
| (D≤30,L≤500) | | | | | 68101216 | 17 | | | | 1200 | 20 | 2.5 |
| (D公差f8) | (D公差f8) | 25 | 25~1198 | (無螺牙時) | 81012162024 | 22 | | | | 1500 | 24 | 3.0 |
| PSFGS | | | | B=0 | 81012162024 | 27 | | | | 1500 | 30 | 3.5 |
| PSSFGS | | | | | 81012162024 | 30 | 15 | | | 1500 | — | |
| 附鑽孔8≤D≤30,L≤500。 | | | | | 101216202430 | 36 | 20 | | | 1500 | — | |
| | | | | | 1216202430 | 41 | | | | 1500 | — | |
| | | | | | 16202430 | | | | | 1500 | — | |

 Order
訂購範例 型式 - L - F - B - P - SC - H
SFAS12 - 200 - F20 - B15 - P8 - SC5

Alteration
 SFAS30 - L - F - B - P (PMC・PMS) - SC - H - (LKC···)
 250 - F40 - B30 - P10 - SC10 - LKC

WEI WO

| Alterations | Code | Spec. |
|---|------------|--|
|  | RC | <p>追加1處90度平面 指定方法 RC10 適用條件 適用於D=10~30 ◎不可與WRC併用</p> |
|  | WRC | <p>追加2處90度平面 指定方法 WRC10-Y10 適用條件 適用於D=10~30 ◎不可與RC併用 ◎無法在同一平面上加工</p> |
|  | PMC PMS | <p>外螺牙變更為細螺紋 指定方法 PMC14(P變更為PMC) PMS14(P變更為PMS)</p> |
| | | <p>追加1處鍵槽</p> <p>詳細請參照 追加工概要 P.143</p> |

②追加工詳情請參照追加工概要的介紹。 **E.P.143**

③選擇多種追加工時，加工部的位置間隔必須 $2mm$ 以上。

④選擇追加工時，扳手槽・鑽孔部位的位置間隔必須 $2mm$ 以上。



| 型式 | | NTS基準単価 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---|---|---|
| Type | D | 最短L 50 | L51 100 | L101 150 | L151 200 | L201 250 | L251 300 | L301 350 | L351 400 | L401 450 | L451 500 | L501 550 | L551 600 | L601 650 | L651 700 | L701 750 | L751 800 | L801 850 | L851 900 | L901 950 | L951 1000 | L1001 1100 | L1101 1200 | L1201 1300 | L1301 1400 | L1401 1490 | | | |
| SFAS | 6 | | | | | | | | | | | | | | | | | — | — | — | — | — | — | — | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | — | — | — | — | — | — | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | — | — | — | — | — | — | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — | | | | |
| | 13 | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — | | | |
| | 15 | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — | | |
| | 16 | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — | |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| SSFAS | 6 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| PSFAS | 6 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| PSSFAS | 6 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 10 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 13 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 15 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 16 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 18 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 20 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 30 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 35 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 40 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |
| | 50 | | | | | | | | | | | | | | | | | | | | | | | — | — | — | — | — | — |

| 型式 | | NTS基準單價 | | | | | | |
|-------|----|-----------|------------|-------------|-------------|-------------|-------------|-------------|
| Type | D | 最短L 50 | L51 100 | L101 150 | L151 200 | L201 300 | L301 400 | L401 500 |
| RSFAS | 6 | | | | | | | |
| RSFAS | 8 | | | | | | | |
| RSFAS | 10 | | | | | | | |
| RSFAS | 12 | | | | | | | |
| RSFHN | 13 | | | | | | | |
| RSFHN | 15 | | | | | | | |
| RSFHN | 16 | | | | | | | |
| RSFHN | 18 | | | | | | | |
| RSFHN | 20 | | | | | | | |
| RSFHN | 25 | | | | | | | |