

Locating Pins - Hardened Stainless Steel Large Flat Head

Press Fit / Tapped / Threaded

Locating Pins - Hardened Stainless Steel Small Head, Tapered / Straight, Tapered, Sphere

Press Fit / Tapped

■ **Features:** Large Flat Head with each dimension configurable. We reduced the price drastically compared to the conventional products.

Material Hardened Stainless Steel | **Hardness** 35HRC~

| Material | Hardness | Press Fit | | | Tapped | | Threaded | | |
|--------------------------|----------|-----------|-------|-------|--------|-------|----------|-------|-------|
| | | m6 | p6 | g6 | g6 | h7 | g6 | h7 | |
| Hardened Stainless Steel | 35HRC~ | AFPDC | AFPDC | AFDGC | AFDHC | AFDTC | AFDHTC | AFPNA | AFPNA |

Ⓢ When the dia. exceeds Ø10, the center hardness may become 30HR or more.

• **Press Fit**
* Insertion Guide D^{-0.01}/_{-0.03}

• **Threaded**

• **Tapped**

Ⓢ When B>20mm, the P dim. tolerance is 0-0.02.
* For D Tolerance g6, h7, no Insertion Guide is provided. (L1)

| D or P | m6 | p6 | g6 | h7 |
|------------|------------------|------------------|------------------|-------------|
| 1-3 | +0.008 +0.002 | +0.012 +0.006 | -0.002 -0.008 | 0 -0.010 |
| 3.01-6 | +0.012 +0.004 | +0.020 +0.012 | -0.004 -0.012 | 0 -0.012 |
| 6.01-10 | +0.015 +0.006 | +0.024 +0.015 | -0.005 -0.014 | 0 -0.015 |
| 10.01-18 | +0.018 +0.007 | +0.029 +0.018 | -0.006 -0.017 | 0 -0.018 |
| 18.01-25.5 | +0.021 +0.008 | +0.035 +0.022 | -0.007 -0.020 | 0 -0.021 |

■ **Press Fit**

| Part Number Type | D | P | | | L | B | C | E | M | L2 | (W) |
|--|----|------------------|---------------|-----------------|---|-----|---|---|---|----|-----|
| | | 0.01mm Increment | 1mm Increment | 0.1mm Increment | | | | | | | |
| AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7) | 2 | 2.50-8.00 | 3-16 | 2.0-20.0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 1 |
| | 3 | 3.50-8.00 | | | | | | | | | |
| | 4 | 4.50-8.00 | | | | | | | | | |
| | 5 | 5.50-8.00 | | | | | | | | | |
| | 6 | 6.50-16.00 | | | | | | | | | |
| | 7 | 7.50-16.00 | | | | | | | | | |
| | 8 | 8.50-16.00 | | | | | | | | | |
| | 9 | 9.50-16.00 | | | | | | | | | |
| | 10 | 10.50-16.00 | | | | | | | | | |
| | 11 | 11.50-16.00 | | | | | | | | | |
| | 12 | 12.50-17.50 | | | | | | | | | |
| | 13 | 14.00-20.00 | | | | | | | | | |
| AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7) | 15 | 16.00-22.50 | 5-25 | 2.0-30.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 16 | 17.00-25.50 | | | | | | | | | |
| | 18 | 19.00-25.50 | | | | | | | | | |
| | 19 | 19.00-25.50 | | | | | | | | | |
| | 20 | 22.00-25.50 | | | | | | | | | |
| | 21 | 22.00-25.50 | | | | | | | | | |
| | 22 | 22.00-25.50 | | | | | | | | | |

Ⓢ When L=3, C=0.5, L1=1.

■ **Tapped**

| Part Number Type | D | P | | | L | B | C | E | M | L2 | (W) |
|--|----|------------------|---------------|-----------------|----------|-----|---|---|----|-----|-----|
| | | 0.01mm Increment | 1mm Increment | 0.1mm Increment | | | | | | | |
| AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7) | 6 | 6.50-16.00 | 6-16 | 8-16 | 2.0-30.0 | 0.5 | 0 | 0 | M3 | 147 | 5 |
| | 8 | 8.50-16.00 | | | | | | | | | |
| | 10 | 10.50-16.00 | | | | | | | | | |
| | 12 | 12.50-17.50 | | | | | | | | | |
| | 13 | 14.00-20.00 | | | | | | | | | |
| | 16 | 17.00-25.00 | | | | | | | | | |
| AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7) | 20 | 22.00-25.50 | 10-20 | 2.0-30.0 | 1 | 1 | 1 | 1 | M4 | 333 | 6 |
| | 22 | 22.00-25.50 | | | | | | | | | |
| | 24 | 22.00-25.50 | | | | | | | | | |
| | 25 | 22.00-25.50 | | | | | | | | | |

Ⓢ Note the strength of under-head part. Ⓢ P.1566 Ⓢ Please confirm pilot hole depth on Ⓢ P.1566. Holes may go through.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data Ⓢ P.2297 (10.9). Not applicable when using locking materials or lock washers.

■ **Threaded**

| Part Number Type | D | P | | | L | B | C | E | M | L2 | (W) | | | | | | | | | | |
|--|--|------------------|---------------|-----------------|-----|---|---|---|----|-----|-----|-------------|------|----------|---|---|---|---|----|-----|---|
| | | 0.01mm Increment | 1mm Increment | 0.1mm Increment | | | | | | | | | | | | | | | | | |
| AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7) | 3 | 3.50-8.00 | 0-10 | 2.0-20.0 | 0.5 | 0 | 0 | 0 | M3 | 147 | 5 | | | | | | | | | | |
| | 4 | 4.50-9.00 | | | | | | | | | | | | | | | | | | | |
| | 5 | 5.50-10.00 | | | | | | | | | | | | | | | | | | | |
| | 6 | 6.50-12.00 | | | | | | | | | | | | | | | | | | | |
| | 8 | 8.50-15.00 | | | | | | | | | | | | | | | | | | | |
| | 10 | 10.50-16.00 | | | | | | | | | | | | | | | | | | | |
| | 12 | 12.50-17.50 | | | | | | | | | | | | | | | | | | | |
| | 16 | 17.00-25.00 | | | | | | | | | | | | | | | | | | | |
| | 20 | 22.00-25.50 | | | | | | | | | | | | | | | | | | | |
| | AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7) | 22 | | | | | | | | | | 22.00-25.50 | 0-20 | 2.0-30.0 | 1 | 1 | 1 | 1 | M4 | 333 | 6 |
| | | 24 | | | | | | | | | | 22.00-25.50 | | | | | | | | | |
| | | 25 | | | | | | | | | | 22.00-25.50 | | | | | | | | | |
| 26 | | 22.00-25.50 | | | | | | | | | | | | | | | | | | | |
| 27 | | 22.00-25.50 | | | | | | | | | | | | | | | | | | | |
| 28 | | 22.00-25.50 | | | | | | | | | | | | | | | | | | | |

Ⓢ When L=3, C=0.5, L1=1.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data Ⓢ P.2297 (10.9). Not applicable when using locking materials or lock washers. Ⓢ For full thread, specify L = 0 and alteration NNC.

Ordering Example: Part Number D - P - L - B - (CN, RAC, LAC) Days to Ship Configure Online Price Configure Online

Alterations: AFPDC6 - P8.00 - L9 - B5.0 - CN

| Alterations | C Chamfered Size | Hex Socket Machining | Wrench Hole | Relief | P Dimension Tolerance |
|-------------|---|--|--|---|---|
| Code | CN | RAC | LAC | NNC | PM/PP/PG/PH |
| Spec. | Changes C Chamfering at P dimension part to 0.5 or less. Ⓢ Not applicable to D dimension part. | Machines hex sockets. Ordering Code: RAC Ⓢ S+3≤P-2 Ⓢ Applicable when D≥6 Values in () are applicable to Tapped Type. Ⓢ Combination with LAC is not available. | Machines wrench holes. Ordering Code: LAC Ⓢ Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head. Ⓢ Applicable when D≥6 Ⓢ Combination with RAC is not available. | Adds a relief at the thread end. Ordering Code: NNC Ⓢ Applicable when L=0. | Changes the P dim. tolerance. Ordering Code: PM Ⓢ Not applicable when B>20. Ⓢ 3 Days Ⓢ Volume discount rate is applicable. |

■ **Features:** Small Head Tapered / Various Straight types can be delivered within 7 days for up to 500 pcs. Straight Type now has an insertion guide.

Material Hardened Stainless Steel | **Hardness** 35HRC~

| Material | Hardness | Pin Shape | Press Fit | | | Tapped | |
|--------------------------|----------|-----------|-----------|--------|--------|--------|-------|
| | | | m6 | p6 | g6 | g6 | h7 |
| Hardened Stainless Steel | 35HRC~ | Round | AFPSA | AFPSA | AFPSGA | AFPSHA | AFPSA |
| | | Diamond | AFPSD | AFPSPD | AFPSGD | AFPSHD | AFPSD |

Ⓢ When B+E>20mm, the P dim. tolerance is 0-0.02.
Ⓢ P-2tanA=0.73 (Tip dia. 0.073 or more)
Reference: tan15°=0.267 tan30°=0.577
tan45°=1 tan60°=1.732
* For D Tolerance g6, h7, no Insertion Guide is provided. (L1)

• **Press Fit**
* Insertion Guide D^{-0.03}/_{-0.05}

• **Tapped**
No Edge

Ⓢ Diamond Shape end has a relief.

| D or P | m6 | p6 | g6 | h7 |
|------------|------------------|------------------|------------------|-------------|
| 1-3 | +0.008 +0.002 | +0.012 +0.006 | -0.002 -0.008 | 0 -0.010 |
| 3.01-6 | +0.012 +0.004 | +0.020 +0.012 | -0.004 -0.012 | 0 -0.012 |
| 6.01-10 | +0.015 +0.006 | +0.024 +0.015 | -0.005 -0.014 | 0 -0.015 |
| 10.01-18 | +0.018 +0.007 | +0.029 +0.018 | -0.006 -0.017 | 0 -0.018 |
| 18.01-25.5 | +0.021 +0.008 | +0.035 +0.022 | -0.007 -0.020 | 0 -0.021 |

■ **Press Fit**

| Part Number Type | D | P | | | L | B | C | E | M | L2 | (W) |
|---|----|------------------|---------------|-----------------|----------|---|----------|---|----|-----|-----|
| | | 0.01mm Increment | 1mm Increment | 0.1mm Increment | | | | | | | |
| <Round> AFPSA(m6) AFPSA(p6) AFPSGA(g6) AFPSHA(h7) | 3 | 1.00(2.00)-3.00 | 3(4)-10 | 2.0-10.0 | 2.0-15.0 | 1 | 0.5 | 0 | M3 | 147 | 1 |
| | 4 | 2.00-4.00 | | | | | | | | | |
| | 5 | 2.00-5.00 | | | | | | | | | |
| | 6 | 2.00-6.00 | | | | | | | | | |
| | 7 | 2.00-7.00 | | | | | | | | | |
| | 8 | 2.00(3.00)-8.00 | | | | | | | | | |
| | 9 | 2.00(3.00)-9.00 | | | | | | | | | |
| | 10 | 6.00-10.00 | | | | | | | | | |
| | 11 | 6.00-11.00 | | | | | | | | | |
| | 12 | 6.00-12.00 | | | | | | | | | |
| <Diamond> AFPSD(m6) AFPSD(p6) AFPSGD(g6) AFPSHD(h7) | 13 | 6.00-13.00 | 4(5)-16 | 2.0-30.0 | 2.0-30.0 | 2 | 0.5-10.0 | 0 | M4 | 333 | 2 |
| | 14 | 6.00-15.00 | | | | | | | | | |
| | 15 | 6.00-16.00 | | | | | | | | | |
| | 16 | 6.00-16.00 | | | | | | | | | |
| | 18 | 8.00-18.00 | | | | | | | | | |
| | 20 | 13.00-20.00 | | | | | | | | | |
| | 22 | 13.00-22.00 | | | | | | | | | |
| | 24 | 13.00-24.00 | | | | | | | | | |
| | 25 | 13.00-25.00 | | | | | | | | | |

Ⓢ P and L dimensions in () are applicable to Diamond Shape.
Ⓢ When L=3, C=0.5 and L1=1.

■ **Tapped**

| Part Number Type | D | P | | | L | B | C | E | M | L2 | (W) |
|---------------------------------------|----|------------------|---------------|-----------------|---|----------|---|---|----|-----|-----|
| | | 0.01mm Increment | 1mm Increment | 0.1mm Increment | | | | | | | |
| <Round> AFPSTA(g6) AFPSTA(h7) | 6 | 4.00-6.00 | 8(9)-12 | 2.0-15.0 | 2 | 0.5-10.0 | 0 | 0 | M3 | 147 | 5 |
| | 8 | 6.00-8.00 | | | | | | | | | |
| | 10 | 7.00-10.00 | | | | | | | | | |
| | 12 | 7.00-12.00 | | | | | | | | | |
| | 13 | 8.00-13.00 | | | | | | | | | |
| | 16 | 8.00-16.00 | | | | | | | | | |
| <Diamond> AFPSTD(g6) AFPSTD(h7) | 20 | 13.00-20.00 | 17(18)-30 | 5.0-30.0 | 4 | 0.5-10.0 | 0 | 0 | M4 | 333 | 6 |
| | 22 | 13.00-22.00 | | | | | | | | | |
| | 24 | 13.00-24.00 | | | | | | | | | |
| | 25 | 13.00-25.00 | | | | | | | | | |

Ⓢ L dimension in () is applicable to Diamond Shape. Ⓢ Note the strength of under-head part. Ⓢ P.1566 Ⓢ Please confirm pilot hole depth on Ⓢ P.1566. Holes may go through.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data Ⓢ P.2297 (10.9). Not applicable when using locking materials or lock washers.

Ordering Example: Part Number D - P - L - B - (AC, RAC, LAC... etc) Days to Ship Configure Online Price Configure Online

Alterations: AFPSA6 - P4.20 - L6 - B5.3 - (AC, RAC, LAC... etc) A30

| Alterations | Air Vent | Hex Socket Machining | Wrench Hole | P Dimension Tolerance | Taper Angle |
|-------------|---|---|--|---|--|
| Code | AC | RAC | LAC | PM/PP/PG/PH | A |
| Spec. | Adds an air vent. Ordering Code: AC Ⓢ When D=3P, a relief groove is provided on B dim. part. | Machines hex sockets. Ordering Code: RAC Ⓢ S+3≤P-2 x E x tanA° Ⓢ Round Shape is applicable to D≥8, and Diamond Shape is applicable to D≥10. | Machines wrench holes. Ordering Code: LAC Ⓢ Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head. Ⓢ Applicable when D≥8. Ⓢ Applicable to Tapped Type only. | Changes the P dim. tolerance. Ordering Code: PM Ⓢ Not applicable when B+E>20. Ⓢ 3 Days Ⓢ Volume discount rate is applicable. | Changes the taper angle. Ordering Code: A60 Ⓢ 3 Days Ⓢ Volume discount rate is applicable. |