


STRAIGHT CORE SLEEVES

—S DIMENSION DESIGNATION TYPE—

Ⓜ Non JIS material definition is listed on P.1351 - 1352

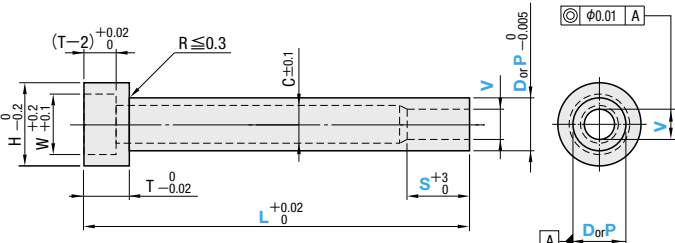


RoHS

| M | HRC | Group | T | | Type | | | |
|------------------|-------|-----------|--------|-------------|-----------------------------------|----------|-------------------------------------|----------|
| | | | D or P | L | Shaft diameter (D) selection type | | Shaft diameter (P) designation type | |
| | | | | | 4mm head | 6mm head | 4mm head | 6mm head |
| SKH51 equivalent | 58~60 | Standard | 0 | +0.02 0 | CSHK4T | CSHK | CSHKB4T | CSHKB |
| NAK80 | 37~43 | | | | CSGK4T | CSGK | CSGKB4T | CSGKB |
| SKH51 equivalent | 58~60 | Precision | -0.005 | +0.005 0 | CSHKV4T | CSHKV | CSHKBV4T | CSHKBV |
| NAK80 | 37~43 | | | | CSGKV4T | CSGKV | CSGKBV4T | CSGKBV |

■ Counterbore Hole Diameters
Ⓜ W dimension is determined depending on V dimension.

| W | V |
|----|-----------|
| 3 | 0.80~1.50 |
| 4 | 1.51~2.00 |
| 5 | 2.01~2.50 |
| 6 | 2.51~3.00 |
| 7 | 3.01~4.00 |
| 8 | 4.01~5.00 |
| 9 | 5.01~6.00 |
| 10 | 6.01~7.00 |
| 11 | 7.01~7.50 |



■ Shaft Diameter (D) Selection Type

| H | C | Part Number | | D | 0.01mm increments | | S 0.5mm increments | Smax. |
|----|---------------|-----------------------|-----------------------|--------------|-------------------|--------------|-----------------------|----------------------|
| | | 4mm head | 6mm head | | L | V | | |
| 8 | C=V+(0.2~0.4) | Standard Type | Standard Type | 4 | 15.00~60.00 | 0.80~2.50 | 0.60~2.90 | 30 and L-(T-2) |
| 9 | | | | | | CSHK4T | CSHK | |
| 10 | | CSGK4T | CSGK | 15.00~100.00 | 1.00~4.50 | 0.60~4.90 | | |
| 11 | | Precision Type(4≤D≤6) | Precision Type(4≤D≤6) | | 7 | 20.00~100.00 | 1.00~5.50 | |
| 12 | | | | CSHKV4T | CSHKV | 8 | 2.00~6.50 | |
| 14 | | CSGKV4T | CSGKV | 9 | 30.00~100.00 | 2.00~7.50 | | |

■ Shaft Diameter (P) Designation (0.01mm increments) Type

| H | C | Part Number | | No. | L | 0.01mm increments | | P | S 0.5mm increments | Smax. |
|----|---------------|-------------------------|-------------------------|--------------|--------------|-------------------|-----------|-----------|-----------------------|-----------|
| | | 4mm head | 6mm head | | | V | | | | |
| 8 | C=V+(0.2~0.4) | Standard Type | Standard Type | 4 | 15.00~60.00 | 0.80~2.49 | 0.60~2.89 | 3.00~3.99 | 30 and L-(T-2) | |
| 9 | | | | | | CSHKB4T | CSHKB | 1.00~3.49 | | 0.60~3.89 |
| 10 | | CSGKB4T | CSGKB | 15.00~100.00 | 1.00~4.49 | 0.60~4.89 | 5.00~5.99 | | | |
| 11 | | Precision Type(4≤No.≤6) | Precision Type(4≤No.≤6) | | 7 | 20.00~100.00 | 1.00~5.49 | 6.00~6.99 | | |
| 12 | | | | CSHKBV4T | CSHKBV | 8 | 2.00~6.49 | 7.00~7.99 | | |
| 14 | | CSGKBV4T | CSGKBV | 9 | 30.00~100.00 | 2.00~7.49 | 8.00~8.99 | | | |

Ⓜ Precision Type → V≤P-1.1 Ⓜ Standard Type → V≤P-1.5

Order

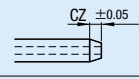
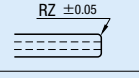
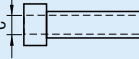
| Part Number | L | V | P | S |
|-------------|-------|-------|-------|-------|
| CSGK 5 | 60.00 | V1.50 | | S10.5 |
| CSHK 6 | 60.00 | V2.00 | | S20.0 |
| CSHKB 6 | 60.00 | V3.50 | P5.49 | S15.0 |

Days to Ship Quotation

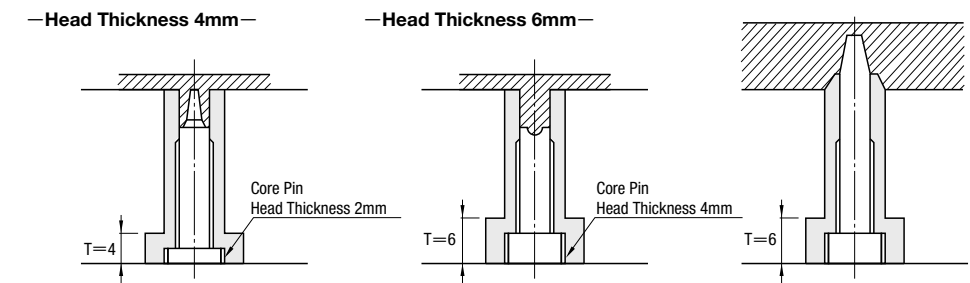
Price Quotation

Alterations

| Part Number | L | V | P | S | (CZ · RZ · WN) |
|-------------|-------|-------|-------|-------|----------------|
| CSGK 5 | 60.00 | V1.50 | | S10.5 | WN |
| CSHK 6 | 60.00 | V2.00 | | S20.0 | CZ0.3 |
| CSHKB 6 | 60.00 | V3.50 | P5.49 | S15.0 | RZ0.5 |

| Alterations | Code | Spec. | 1Code |
|---|------|---|-----------|
|  | CZ | Performs C chamfering on the tip. CZ=0.1mm increments $0.1 \leq CZ \leq \frac{(DorP)-V}{2}$ ❌ Combination with RZ not available. | Quotation |
|  | RZ | Performs R chamfering on the tip. RZ=0.1mm increments $0.2 \leq RZ \leq \frac{(DorP)-V}{2}$ ❌ Combination with CZ not available. | |
|  | WN | No counterbore on the head | |

Example



■ Characteristics

Standard Type

- The fitting sections (S) can be long up to V×10.
- Precision wire cutting is used to make the S dimension longer.
- A softened layer in the bore made by wire cutting is removed by polishing.
(Tolerance of the dimension V is the value after polishing.)

Precision

In order to obtain the V dimension accuracy, inside surface grinding is applied.

Head Thickness 4 mm

A straight core sleeve 4-mm thick head type is a standard type that matches a core pin standard counterbore dimension of 4 mm.

It is possible to unify the counterbore of the head thickness to 4 mm.

For the core pin that is used set inside the core sleeves, either use alteration "Head thickness change (TC2)", or use a head thickness of 2 mm.

Shaped Inlay
Core Pins
for Boss

Standard

Precision