


STRAIGHT CORE SLEEVES

—S DIMENSION DESIGNATION TYPE—

Ⓜ Non JIS material definition is listed on P.1359 - 1360



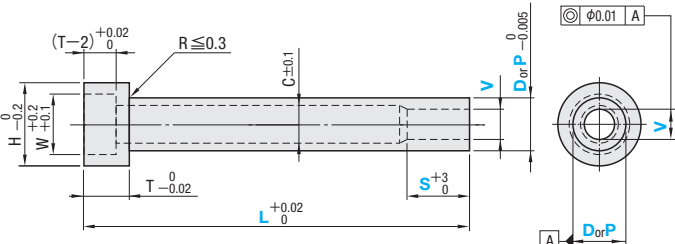
RoHS

M	HRC	Group	T		Type				
			D or P	L	Shaft diameter (D) selection type		Shaft diameter (P) designation type		
SKH51 equivalent	58~60	Standard	0	+0.02 0	+0.01 0	4mm head	6mm head	4mm head	6mm head
NAK80	37~43					CSHK4T	CSHK	CSHKB4T	CSHKB
SKH51 equivalent	58~60	Precision	-0.005	0	+0.005 0	4mm head	6mm head	4mm head	6mm head
NAK80	37~43					CSHKV4T	CSHKV	CSHKBV4T	CSHKBV
						CSGK4T	CSGK	CSGKB4T	CSGKB
						CSGK4T	CSGK	CSGKB4T	CSGKB
						CSGKV4T	CSGKV	CSGKBV4T	CSGKBV
						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	L	0.01mm increments		S 0.5mm increments	Smax.	
		4mm head	6mm head			Standard	Precision			
8	C=V+(0.2~0.4)	Standard Type	Standard Type	4	15.00~60.00	0.80~2.50	0.60~2.90	In the case of Standard Type 1.0 ≤ S ≤ (V × 10)	30 and L-(T-2)	
9		CSHK4T	CSHK	5		1.00~3.50	0.60~3.90			
10		CSGK4T	CSGK	6		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	—			In the case of Precision Type 1.0 ≤ S ≤ (V × 3)
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			Standard	Precision				
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	In the case of Standard Type 1.0 ≤ S ≤ (V × 10)	30 and L-(T-2)	
9		CSHKB4T	CSHKB	5		1.00~3.49	0.60~3.89	4.00~4.99			
10		CSGKB4T	CSGKB	6		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			In the case of Precision Type 1.0 ≤ S ≤ (V × 3)
12		CSHKBV4T	CSHKBV	8		2.00~6.49	—	7.00~7.99			
14		CSGKBV4T	CSGKBV	9		30.00~100.00	2.00~7.49	—			

Ⓜ 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

3 Days

Ⓜ Delivery days depend on subsidiary. Ⓜ P.45

P Price

Quantity discount rate Ⓜ P.45

Quantity	1~4	5~12	13~19	20~50
Rate	—	5%	10%	15%

Ⓜ To be quoted on price & lead time above Max. Q'ty.

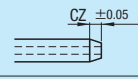
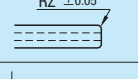
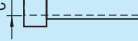
Alterations

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

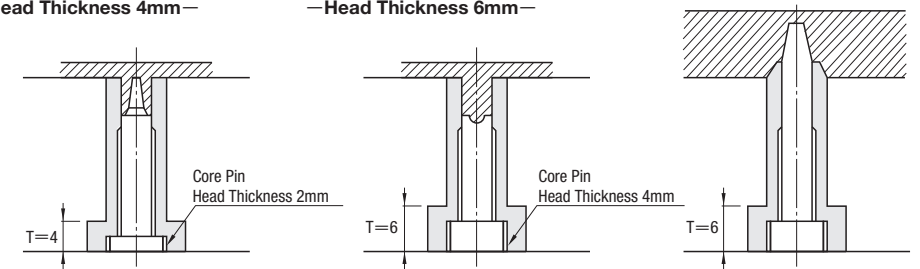
CSHKB 6 — 60.00 — V3.50 — P5.49 — S15.0 — RZ0.5

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

ex Example

—Head Thickness 4mm—

—Head Thickness 6mm—



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