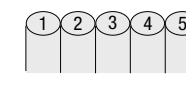


SEQUENTIAL NUMBERING DESIGNATION STRAIGHT CORE PINS WITH ENGRAVING

— CONCAVE CHARACTER TYPE —



In case of bulk order with the same size, the sequential numbering engraving is automatically performed.



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

Type	M	HRC	T	
			D or P	L
CPH1MR	SKH51 equivalent	58~60	0	+0.02
CPHB1MR			-0.005	0
CPX1MR			-0.01	0
CPXB1MR			-0.02	0

CPH□M (Shaft diameter (D) selection type) CPX□M (Shaft diameter (D) selection type)

CPHB□M (Shaft diameter (P) designation type) CPXB□M (Shaft diameter (P) designation type)

To decide the shape processing position, process a key flat cutting on the standard 0°.

1MR (1 character)

D or P	Q	W
0.60~0.79	0.4	0.2
0.80~0.99	0.6	0.3
1.00~1.29	0.8	0.4
1.30~1.49	1.0	0.5
1.50~1.99	1.2	0.6
2.00~2.49	1.5	0.8
2.50~3.49	2.0	1.0
3.50~4.49	3.0	1.5
4.50~5.49	3.5	2.0
5.50~10	4.5	2.5

Core Pins	Finished products
Reversed reading (Concave character)	Normal character (Convex embossed character)

Engraving Details drawing

Groove width(a)	(0.1×Q)±0.05
Drafts for pulling(b)	30° ±2°
Groove depth(e)	0.05±0.02

Shaft diameter (D) selection type

H	Part Number Type	D	L 0.01mm increments	Characters for engraving (Round Gothic type)	U/Price 1~4
3	CPH1MR CPX1MR	0.6	10.00~100.00	0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	Quotation
		0.7			
		0.8			
		0.9			
		1			
		1.1			
		1.2			
		1.3			
		1.4			
		1.5			
4	CPH1MR CPX1MR	1.6	10.00~120.00	Z	Quotation
		1.7			
		1.8			
		1.9			
		2			
		2.5			
		3			
		3.5			
		4			
		4.5			
5	CPH1MR only	5	10.00~150.00	Z	Quotation
		5.5			
		6			
		6.5			
		7			
		7			
		8			
		8			
		10			
		15			

Refer to the following notes (on Shaft Diameter P Designation Type).

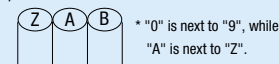
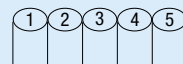
Shaft diameter (P) designation 0.01mm increments type

H	Part Number Type	No.	L 0.01mm increments	P 0.01mm increments	Characters for engraving (Round Gothic type)	U/Price 1~4
3	CPHB1MR CPXB1MR	0.8	10.00~100.00	0.60~0.79	0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	Quotation
		1				
		1.5				
		2				
		2.5				
		2.5				
		3				
		3.5				
		3.5				
		4				
4	CPHB1MR only	4.5	10.00~120.00	3.00~3.49	Z	Quotation
		4				
		4.5				
		4.5				
		5				
		5.5				
		5.5				
		6				
		6.5				
		6.5				
5	CPHB1MR only	7	10.00~150.00	6.00~6.49	Z	Quotation
		7				
		7				
		8				
		8				
		10				
		10				
		10				
		10				
		15				

In the case of bulk order of core pins with the same size, the sequential numbering engraving is automatically performed.
"0" is next to "9", while "A" is next to "Z".

When placing the order for 5 pieces of CPHB1MR2—90.00—P1.60—1

When placing the order for 3 pieces of CPH1MR4—100.00—Z



Order

Part Number	L	P	Characters for engraving (0~9, A~Z)
CPH1MR6	— 35.00	—	1
CPHB1MR8	— 30.00	— P7.30	A



Days to Ship

Quotation



Price

Quotation



Alterations

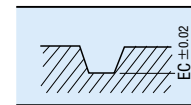
Part Number	L	P	Characters for engraving (0~9, A~Z)	(AKC · AWC...etc.)
CPHB1MR8	— 30.00	— P7.30	A	AWC60

Alteration details P.395

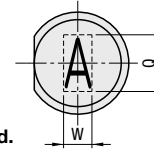
Alterations	Code	Spec.	1Code
	AKC	Head angle alteration AKC=1° increments 0<AKC<360	Quotation
	AWC	Head angle alteration (2 planes) AWC=1° increments 0≤AWC<360	
	HC	Head diameter change HC=0.1mm increments (D or P)≤HC<H In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	HCC	Head diameter change (precision) HCC=0.1mm increments (D or P)+0.5≤HCC<H-0.3	
	TC	Head thickness change TC=0.1mm increments 1.5≤TC<4 (Dimension L remains unchanged.) 4-TC≤Lmax.-L	

Alterations	Code	Spec.	1Code
	TRN	Relief under the head (Makes plate chamfering unnecessary)	
	NHC	Numbering on the head How to order P.396 Available when H≥2	Quotation
	NHN	Automatic sequential numbering on the head How to order P.396 Available when H≥2	
	GVC	Gas vent machining GS · GB=1mm increments 2≤GS≤10 GS+2≤GB≤30 L-GB≥10 Available when D or P≥2.00 How to order P.396	
	EC	Engraving depth alteration ECO.1 Engraving depth is changed from 0.05 → 0.1 ECO.2 Engraving depth is changed from 0.05 → 0.2 Refer to the following table for shaft diameter selection range and character size (Q×P).	

Straight Core Pins With Engraving — Concave Character Type — Alterations EC



Engraving depth alteration
ECO.1 Engraving depth is changed from 0.05 → 0.1
ECO.2 Engraving depth is changed from 0.05 → 0.2
Refer to the following table for shaft diameter selection range and character size (Q×P)



Character size Possible range of designation

Alteration EC enables the engraving depth of concave character to be changed.
shaft diameter selection range and character size (Q×W) will be changed.

Character size (Q×W) : ECO.1→When changing engraving depth to 0.1mm

Part Number	Character size(Q×W)					
Type	D or P	1M · 1MR	2M	3M	4M	5M
CPH□	0.60~0.69	—	—	—	—	—
CPH□	0.70~0.79	—	—	—	—	—
CPH□	0.80~0.89	0.55×0.4	—	—	—	—
CPH□	0.90~0.99	0.6×0.4	—	—	—	—
CPH□	1.00~1.09	0.7×0.45	—	—	—	—
CPH□	1.10~1.19	0.8×0.5	—	—	—	—
CPH□	1.20~1.29	0.8×0.5	0.55×0.9	—	—	—
CPH□	1.30~1.39	0.9×0.6	0.6×0.9	—	—	—
CPH□	1.40~1.49	0.9×0.6	0.6×0.9	—	—	—
CPH□	1.50~1.59	1.0×0.7	0.7×1.0	—	—	—
CPH□	1.60~1.69	1.0×0.7	0.8×1.1	—	—	—
CPH□	1.70~1.79	1.2×0.8	0.8×1.1	—	—	—
CPH□	1.80~1.89	1.2×0.8	0.8×1.2	0.55×1.4	—	—
CPX□	1.90~1.99	1.2×0.8	0.8×1.2	0.6×1.4	—	—
CPHB□	2.00~2.49	1.4×0.9	0.9×1.3	0.7×1.6	—	—
CPXB□	2.50~2.99	1.7×1.1	1.2×1.7	0.8×1.8	0.55×1.9	—
CPH□	3.00~3.49	2.0×1.3	1.4×2.0	1.0×2.2	0.8×2.3	0.6×2.4
CPH□	3.50~3.99	2.4×1.65	1.7×2.4	1.2×2.6	1.0×2.7	0.8×2.9
CPH□	4.00~4.49	2.8×1.8	1.8×2.4	1.4×2.8	1.2×3.0	0.9×3.4
CPH□	4.50~4.99	3.2×2.0	2.0×3.2	1.6×3.2	1.4×3.4	1.0×3.6
CPH□	5.00~5.49	3.6×2.2	2.2×3.4	1.8×3.6	1.6×3.7	1.2×4.0
CPH□	5.50~5.99	4.0×2.4	2.4×3.8	2.0×4.0	1.8×4.0	1.4×4.4
CPH□	6.00~6.49	4.2×2.6	2.6×4.0	2.2×4.4	2.0×4.4	1.6×4.8
CPH□	6.50~6.99	4.5×2.8	2.8×4.2	2.4×4.8	2.2×4.8	1.8×5.2
CPH□	7.00~7.99	4.8×3.0	3.0×4.6	2.6×5.2	2.4×5.2	2.0×5.6
CPH□	8.00~9.99	5.4×3.4	3.5×5.2	3.0×6.0	2.8×6.0	2.2×6.4
CPH□	10.00	6.6×4.2	4.4×6.5	3.6×7.5	3.6×7.5	2.6×8.0

Character size (Q×W) : ECO.2→When changing engraving depth to 0.2mm

Part Number	Character size(Q×W)					
Type	D or P	1M · 1MR	2M	3M	4M	5M
CPH□	0.60~0.69	—	—	—	—	—
CPH□	0.70~0.79	—	—	—	—	—
CPH□	0.80~0.89	—	—	—	—	—
CPH□	0.90~0.99	—	—	—	—	—
CPH□	1.00~1.09	—	—	—	—	—
CPH□	1.10~1.19	—	—	—	—	—
CPH□	1.20~1.29	—	—	—	—	—
CPH□	1.30~1.39	—	—	—	—	—
CPH□	1.40~1.49	—	—	—	—	—
CPH□	1.50~1.59	—	—	—	—	—
CPH□	1.60~1.69	—	—	—	—	—
CPH□	1.70~1.79	—	—	—	—	—
CPH□	1.80~1.89	—	—	—	—	—
CPX□	1.90~1.99	—	—	—	—	—
CPHB□	2.00~2.49	1.4×1.0	—	—	—	—
CPXB□	2.50~2.99	1.8×1.2	—	—	—	—
CPH□	3.00~3.49	2.0×1.4	1.4×2.2	—	—	—
CPH□	3.50~3.99	2.4×1.6	1.8×2.4	—	—	—
CPH□	4.00~4.49	2.8×1.8	2.0×2.8	1.4×3.4	—	—
CPH□	4.50~4.99	3.0×2.0	2.2×3.0	1.6×3.6	—	—
CPH□	5.00~5.49	3.4×2.3	2.4×3.4	1.8×4.0	—	—
CPH□	5.50~5.99	3.6×2.5	2.6×3.6	2.0×4.2	1.4×4.6	—
CPH□	6.00~6.49	4.0×2.8	2.8×4.0	2.2×4.6	1.6×5.0	—
CPH□	6.50~6.99	4.4×3.0	3.0×4.4	2.4×5.0	1.8×5.4	1.4×5.8
CPH□	7.00~7.99	4.8×3.2	3.2×4.8	2.6×5.4	2.0×5.8	1.6×6.2
CPH□	8.00~9.99	5.5×3.6	3.6×5.6	3.0×6.2	2.2×6.6	1.8×7.0
CPH□	10.00	6.8×4.5	4.5×7.0	3.6×7.6	2.8×8.2	2.2×8.6