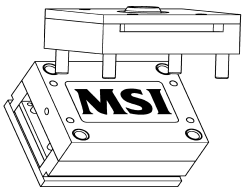


Standard Core Pins

HARDENED AND PRECISION GROUND

MSI Standard Core Pins are made from chromium die steel and are available in two hardness ranges. They are finish ground to standard sizes with a tolerance of plus .001-minus .000 but may be relieved or reground. The heads are solid forged and annealed to permit easier machining and stamping, heads are marked (H or S) for easier identification. Surface finish is maintained to the same high standards as Ejector Pins and Sleeves. Core Pin Reamers .001 oversize for correct sizing of holes are available for all sizes.

HIGH HARDNESS	CPH pins	50-55 Rc
STANDARD HARDNESS	CPS pins	30-35 Rc

RECOMMENDED HEAT TREATMENT

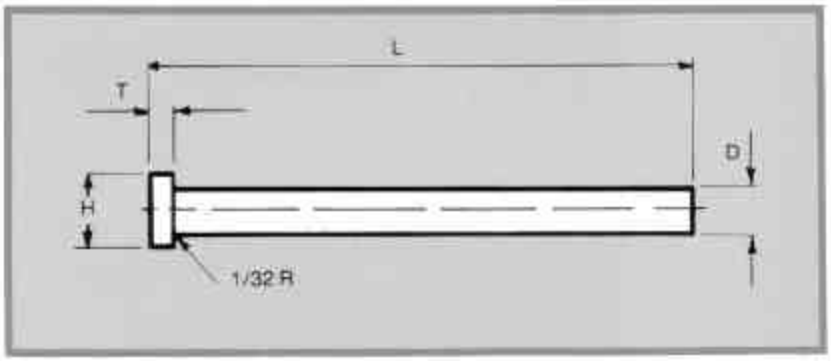
C P S Pins may be heat treated to raise the hardness by air hardening.

For cooling in air:

Heat to 1800 farenheit and cool.

Tempering:

Heat to 900-1100 farenheit.



TOLERANCES	
PIN DIAMETER (D)	+ .001 − .000
HEAD DIAMETER (H)	+ .000 − .010
HEAD THICKNESS (T)	+ .000 − .002
LENGTH (L)	+ .030 − .000
PLEASE SPECIFY CATALOG NUMBER WHEN ORDERING	

STANDARD HARDNESS					
D	H	T	L-3"	L-6"	L-10"
PIN DIA.	HEAD DIA.	HEAD THICK	CATALOG NUMBER		
3/32	1/4	1/8	CPS09L03	CPS09L06	CPS09L10
7/64	1/4	1/8	CPS10L03	CPS10L06	CPS10L10
1/8	1/4	1/8	CPS12L03	CPS12L06	CPS12L10
9/64	1/4	1/8	CPS14L03	CPS14L06	CPS14L10
5/32	9/32	5/32	CPS15L03	CPS15L06	CPS15L10
11/64	11/32	3/16	CPS17L03	CPS17L06	CPS17L10
3/16	3/8	3/16	CPS18L03	CPS18L06	CPS18L10
13/64	3/8	3/16	CPS20L03	CPS20L06	CPS20L10
7/32	13/32	3/16	CPS21L03	CPS21L06	CPS21L10
1/4	7/16	3/16	CPS25L03	CPS25L06	CPS25L10
9/32	7/16	1/4	CPS28L03	CPS28L06	CPS28L10
5/16	1/2	1/4	CPS31L03	CPS31L06	CPS31L10
11/32	9/16	1/4	CPS34L03	CPS34L06	CPS34L10
3/8	5/8	1/4	CPS37L03	CPS37L06	CPS37L10
13/32	11/16	1/4	CPS40L03	CPS40L06	CPS40L10
7/16	11/16	1/4	CPS43L03	CPS43L06	CPS43L10
15/32	3/4	1/4	CPS46L03	CPS46L06	CPS46L10
1/2	3/4	1/4	CPS50L03	CPS50L06	CPS50L10
9/16	13/16	1/4	--	CPS56L06	CPS56L10
5/8	7/8	1/4	--	CPS62L06	CPS62L10
3/4	1	1/4	--	CPS75L06	CPS75L10

HIGH HARDNESS					
D	H	T	L-3"	L-6"	L-10"
PIN DIA.	HEAD DIA.	HEAD THICK	CATALOG NUMBER		
3/32	1/4	1/8	CPH09L03	CPH09L06	CPH09L10
7/64	1/4	1/8	CPH10L03	CPH10L06	CPH10L10
1/8	1/4	1/8	CPH12L03	CPH12L06	CPH12L10
9/64	1/4	1/8	CPH14L03	CPH14L06	CPH14L10
5/32	9/32	5/32	CPH15L03	CPH15L06	CPH15L10
11/64	11/32	3/16	CPH17L03	CPH17L06	CPH17L10
3/16	3/8	3/16	CPH18L03	CPH18L06	CPH18L10
13/64	3/8	3/16	CPH20L03	CPH20L06	CPH20L10
7/32	13/32	3/16	CPH21L03	CPH21L06	CPH21L10
1/4	7/16	3/16	CPH25L03	CPH25L06	CPH25L10
9/32	7/16	1/4	CPH28L03	CPH28L06	CPH28L10
5/16	1/2	1/4	CPH31L03	CPH31L06	CPH31L10
11/32	9/16	1/4	CPH34L03	CPH34L06	CPH34L10
3/8	5/8	1/4	CPH37L03	CPH37L06	CPH37L10
13/32	11/16	1/4	CPH40L03	CPH40L06	CPH40L10
7/16	11/16	1/4	CPH43L03	CPH43L06	CPH43L10
15/32	3/4	1/4	CPH46L03	CPH46L06	CPH46L10
1/2	3/4	1/4	CPH50L03	CPH50L06	CPH50L10
9/16	13/16	1/4	--	CPH56L06	CPH56L10
5/8	7/8	1/4	--	CPH62L06	CPH62L10
3/4	1	1/4	--	CPH75L06	CPH75L10