
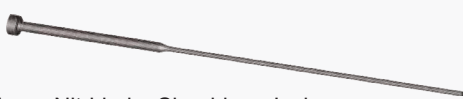






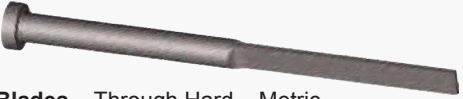









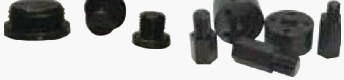
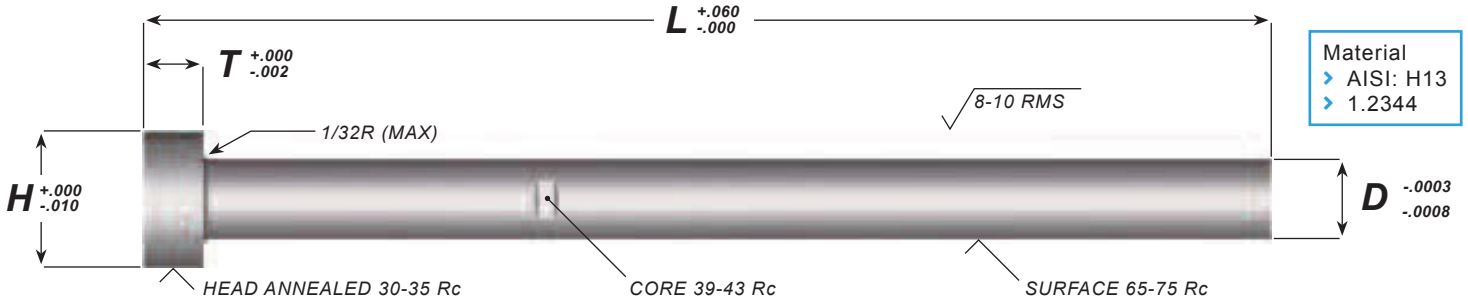


<p>B1 Ejector Pins – Nitrided – Parallel – Inch</p> 	<p>B2 Ejector Pins – Nitrided – Shoulder – Inch</p> 
<p>B3 Ejector Pins – Through Hard – Nitrided – Parallel – Inch</p> 	<p>B4 Ejector Pins – Through Hard – Nitrided – Shoulder – Inch</p> 
<p>B5 / B6 Core Pins – Standard Hardness (Soft) – Inch Core Pins – High Hardness (Hard) – Inch</p> <p>NEW DIAMETERS & LENGTHS</p> 	<p>B7 Core Pins – Copper Alloy – Inch</p> 
<p>B8 Ejector Sleeves – Nitrided – Parallel – Inch</p> <p>NEW DIAMETERS & LENGTHS</p> 	<p>B9 Return Pins – Nitrided – Inch</p> 
<p>B10 Ejector Blades – Through Hard – Metric</p> 	<p>B11 Ejector Pins – Nitrided – Parallel – Metric</p> 
<p>B12 Ejector Pins – Nitrided – Shoulder – Metric</p> 	<p>B13 Ejector Pins – Through Hard – Parallel – Metric</p> 
<p>B14 Ejector Pins – Through Hard – Shoulder – Metric</p> 	<p>B15 Ejector Sleeves – Nitrided – Parallel – Metric</p> 
<p>B16 Ejector Sleeves – Through Hard – Parallel – Metric</p> 	<p>B17 Ejector Sleeves – Nitrided – Parallel – Metric</p> 
<p>B18 D-Head Ejector Pins – Metric</p> 	<p>B19 Oversize Ejector Sleeves</p> 
<p>B20 / 21 Core Pin Retainers/Knockout Rod Extensions</p> 	



EJECTOR PINS

NITRIDED — PARALLEL — INCH

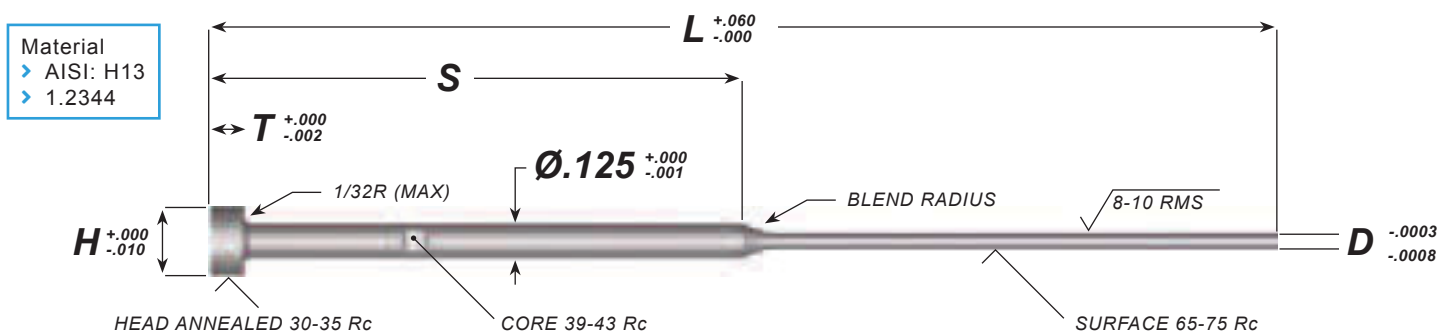


D	Cat. No.	L															H	T
		6"		10"		14"		18"		25"		36"	39"	42"	45"	50"		
		STD.	+ .005	STD.	+ .005	STD.	+ .005	STD.	+ .005	STD.	+ .005	STD.	STD.					
1/32	EP03	L06P	L065														1/4	1/8
3/64	EP04	L06P	L065														1/4	1/8
1/16	EP06	L06P		L10P	L10P5												1/4	1/8
5/64	EP07	L06P		L10P	L10P5												1/4	1/8
3/32	EP09	L06P		L10P	L10P5												1/4	1/8
7/64	EP10	L06P		L10P	L10P5												1/4	1/8
1/8	EP12	L06		L10	L105	L14	L145	L18		L25							1/4	1/8
9/64	EP14			L10		L14	L145										1/4	1/8
5/32	EP15	L06		L10	L105	L14	L145	L18		L25		L36					9/32	5/32
11/64	EP17			L10		L14	L145	L18									11/32	3/16
3/16	EP18	L06		L10	L105	L14	L145	L18		L25			L39		L45	L50	3/8	3/16
13/64	EP20			L10		L14	L145	L18		L25							3/8	3/16
7/32	EP21	L06		L10	L105	L14	L145	L18		L25							13/32	3/16
15/64	EP23			L10		L14	L145	L18		L25							13/32	3/16
1/4	EP25	L06		L10	L105	L14	L145	L18	L185	L25	L255	L36	L39				7/16	3/16
17/64	EP26			L10		L14	L145	L18		L25						L50	7/16	1/4
9/32	EP28	L06		L10	L105	L14	L145	L18		L25							7/16	1/4
19/64	EP29			L10		L14	L145	L18		L25							1/2	1/4
5/16	EP31	L06		L10	L105	L14	L145	L18	L185	L25	L255	L36	L39			L50	1/2	1/4
21/64	EP32			L10		L14	L145	L18		L25							9/16	1/4
11/32	EP34	L06		L10	L105	L14	L145	L18		L25							9/16	1/4
23/64	EP35			L10		L14	L145	L18		L25							5/8	1/4
3/8	EP37	L06		L10	L105	L14	L145	L18	L185	L25	L255	L36	L39			L50	5/8	1/4
25/64	EP39			L10		L14	L145										5/8	1/4
13/32	EP40	L06		L10	L105	L14	L145	L18		L25							11/16	1/4
27/64	EP42			L10		L14	L145										11/16	1/4
7/16	EP43	L06		L10	L105	L14	L145	L18		L25		L36	L39				11/16	1/4
29/64	EP45			L10		L14	L145										11/16	1/4
15/32	EP46	L06		L10	L105	L14	L145	L18		L25							3/4	1/4
31/64	EP48			L10		L14	L145										3/4	1/4
1/2	EP50	L06		L10	L105	L14	L145	L18	L185	L25	L255	L36	L39	L42		L50	3/4	1/4
17/32	EP53	L06		L10		L14	L145										3/4	1/4
9/16	EP56	L06		L10		L14		L18		L25			L39			L50	13/16	1/4
5/8	EP62	L06		L10		L14		L18		L25		L36	L39			L50	7/8	1/4
11/16	EP68	L06		L10		L14		L18		L25							15/16	1/4
3/4	EP75	L06		L10		L14		L18		L25		L36	L39		L45	L50		
7/8	EP87	L06		L10		L14		L18		L25			L39			L50	1-1/8	1/4
1	EP100	L06		L10		L14		L18		L25		L36	L39	L42	L45	L50		

- > To order, add overall length "L" to Catalog Number. Example: EP04L06P
- > Sizes marked in blue print are available but generally not stocked. Call for price and delivery. Example: EP06L10P
- > New Items shown in bold print. Example: EP14L145

EJECTOR PINS

NITRIDED — SHOULDER — INCH

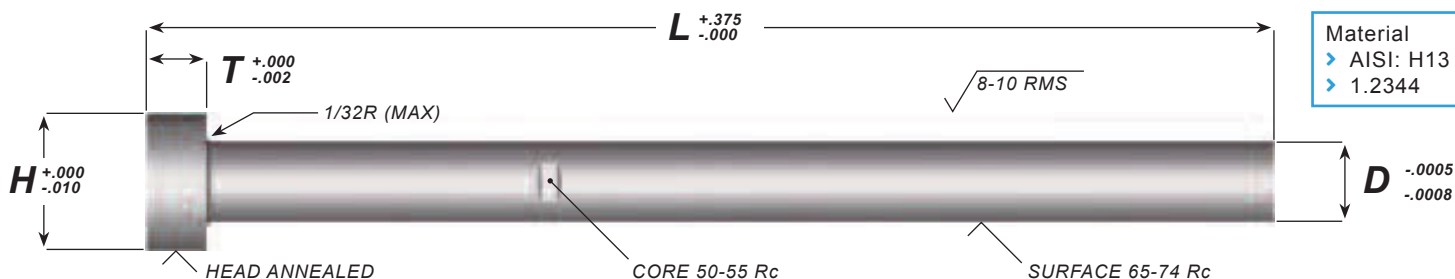


D	S	Cat No.	L						H	T
			6"		10"		14"			
			STD.	+0.005	STD.	+0.005	STD.	+0.005		
1/32	1/2	EP03	L06-1/2	L065-1/2					1/4	1/8
	2	EP03	L06-2		L10-2	L105-2				
3/64	1/2	EP04	L06-1/2		L10-1/2	L105-1/2	L14-1/2		1/4	1/8
	2	EP04	L06-2		L10-2	L105-2	L14-2			
	3	EP04			L10-3					
1/16	4	EP04			L10-4	L105-4	L14-4	L145-4		
	1/2	EP06	L06-1/2		L10-1/2	L105-1/2	L14-1/2		1/4	1/8
	2	EP06	L06-2		L10-2	L105-2	L14-2			
	3	EP06			L10-3					
4	EP06			L10-4	L105-4	L14-4	L145-4			
5/64	1/2	EP07	L06-1/2		L10-1/2	L105-1/2	L14-1/2		1/4	1/8
	2	EP07	L06-2		L10-2	L105-2	L14-2			
	3	EP07			L10-3					
	4	EP07			L10-4	L105-4	L14-4	L145-4		
3/32	1/2	EP09	L06-1/2		L10-1/2	L105-1/2	L14-1/2		1/4	1/8
	2	EP09	L06-2		L10-2	L105-2	L14-2			
	3	EP09			L10-3					
	4	EP09			L10-4	L105-4	L14-4	L145-4		
7/64	1/2	EP10	L06-1/2		L10-1/2	L105-1/2	L14-1/2		1/4	1/8
	2	EP10	L06-2		L10-2	L105-2	L14-2			
	4	EP10			L10-4	L105-4	L14-4	L145-4		

- > To order, add overall length "L" to Catalog Number. Example: EP04L06-1/2
- > Sizes marked in blue print are available but generally not stocked. Call for price and delivery. Example: EP04L10-3
- > New Items shown in bold print. Example: EP03**L065-1/2**

EJECTOR PINS

THROUGH HARD — NITRIDED — PARALLEL — INCH

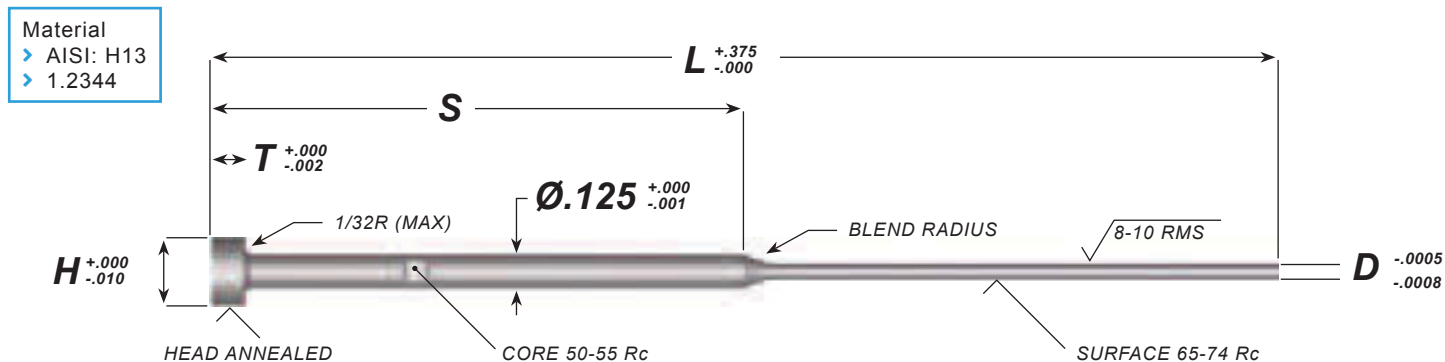


D	Cat. No.	L						H	T	
		6"		10"		14"				18"
		STD.	+0.005	STD.	+0.005	STD.	+0.005			
1/32	RHX-02	L06	L065					1/4	1/8	
3/64	RHX-03	L06	L065					1/4	1/8	
1/16	RHX-05	L06		L10	L105			1/4	1/8	
5/64	RHX-06	L06		L10	L105			1/4	1/8	
3/32	RHX-07	L06		L10	L105			1/4	1/8	
7/64	RHX-08	L06		L10	L105			1/4	1/8	
1/8	RHX-09	L06		L10	L105	L14	L145	1/4	1/8	
9/64	RHX-10	L06		L10	L105	L14	L145	1/4	1/8	
5/32	RHX-11	L06		L10	L105	L14	L145	9/32	5/32	
11/64	RHX-12	L06		L10	L105	L14	L145	11/32	3/16	
3/16	RHX-13	L06		L10	L105	L14	L145	3/8	3/16	
13/64	RHX-14	L06		L10		L14	L145	3/8	3/16	
7/32	RHX-15	L06		L10	L105	L14	L145	13/32	3/16	
15/64	RHX-16	L06		L10		L14	L145	13/32	3/16	
1/4	RHX-17	L06		L10	L105	L14	L145	L18	3/16	
17/64	RHX-18	L06		L10		L14	L145	7/16	1/4	
9/32	RHX-19	L06		L10	L105	L14	L145	7/16	1/4	
19/64	RHX-20	L06		L10		L14	L145	1/2	1/4	
5/16	RHX-21	L06		L10	L105	L14	L145	L18	1/4	
21/64	RHX-22	L06		L10		L14	L145	9/16	1/4	
11/32	RHX-23	L06		L10	L105	L14	L145	9/16	1/4	
23/64	RHX-24	L06		L10		L14	L145	5/8	1/4	
3/8	RHX-25	L06		L10	L105	L14	L145	L18	1/4	
25/64	RHX-26	L06		L10		L14	L145	37/64	1/4	
13/32	RHX-27	L06		L10	L105	L14	L145	11/16	1/4	
27/64	RHX-28	L06		L10		L14	L145	11/16	1/4	
7/16	RHX-29	L06		L10	L105	L14	L145	11/16	1/4	
29/64	RHX-30	L06		L10		L14	L145	45/64	1/4	
15/32	RHX-31	L06		L10	L105	L14	L145	3/4	1/4	
31/64	RHX-32	L06		L10		L14	L145	3/4	1/4	
1/2	RHX-33	L06		L10	L105	L14	L145	L18	1/4	
17/32	RHX-34	L06		L10		L14		3/4	1/4	
9/16	RHX-35	L06		L10		L14		13/16	1/4	
5/8	RHX-37	L06		L10		L14		L18	7/8	1/4
11/16	RHX-39	L06		L10		L14		15/16	1/4	
3/4	RHX-41	L06		L10		L14		L18	1	1/4
7/8	RHX-45	L06		L10		L14		1-1/8	1/4	
1	RHX-47	L06		L10		L14		L18	1-1/4	1/4

► To order, add overall length "L" to Catalog Number. Example: RHX-03L06

EJECTOR PINS

THROUGH HARD — NITRIDED — SHOULDER — INCH

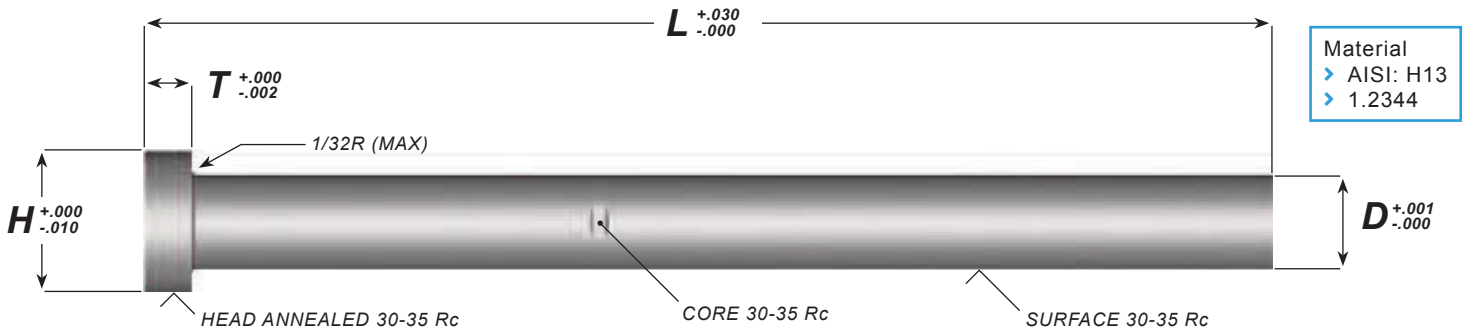


D	S	Cat. No.	L					H	T
			STD.	STD.	+0.005	STD.	+0.005		
1/32	1/2	RHX-02-1/2	L06					1/4	1/8
	2	RHX-02-2	L06						
	3	RHX-02-3		L10	L105				
	4	RHX-02-4		L10	L105				
3/64	1/2	RHX-03-1/2	L06					1/4	1/8
	2	RHX-03-2	L06	L10	L105				
	3	RHX-03-3		L10	L105				
	4	RHX-03-4		L10	L105				
1/16	1/2	RHX-05-1/2	L06	L10	L105			1/4	1/8
	2	RHX-05-2	L06	L10	L105	L14	L145		
	3	RHX-05-3		L10	L105				
	4	RHX-05-4		L10	L105				
5/64	1/2	RHX-06-1/2	L06	L10	L105			1/4	1/8
	2	RHX-06-2	L06	L10	L105	L14	L145		
	3	RHX-06-3		L10	L105				
	4	RHX-06-4		L10	L105				
3/32	1/2	RHX-07-1/2	L06	L10	L105			1/4	1/8
	2	RHX-07-2	L06	L10	L105	L14	L145		
	3	RHX-07-3		L10	L105				
	4	RHX-07-4		L10	L105				
7/64	1/2	RHX-08-1/2	L06	L10	L105			1/4	1/8
	2	RHX-08-2	L06	L10	L105	L14	L145		
	3	RHX-08-3		L10	L105				
	4	RHX-08-4		L10	L105				

► To order, add overall length "L" to Catalog Number. Example: RHX-02-1/2L06

CORE PINS

STANDARD HARDNESS (SOFT) — INCH

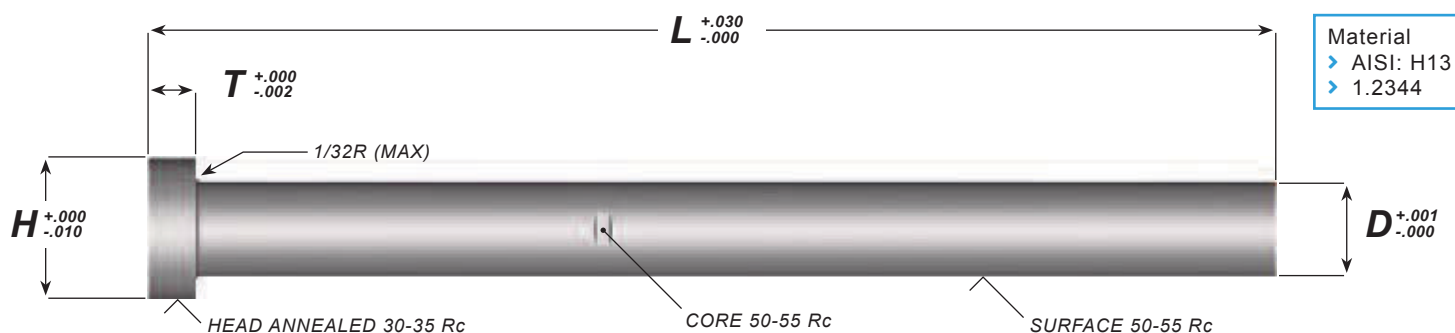


D	Cat. No.	L				H	T
		3"	6"	10"	14"		
3/32	CPS09	L03	L06	L10		1/4	1/8
7/64	CPS10	L03	L06	L10		1/4	1/8
1/8	CPS12	L03	L06	L10	L14	1/4	1/8
9/64	CPS14	L03	L06	L10	L14	1/4	1/8
5/32	CPS15	L03	L06	L10	L14	9/32	5/32
11/64	CPS17	L03	L06	L10	L14	11/32	3/16
3/16	CPS18	L03	L06	L10	L14	3/8	3/16
13/64	CPS20	L03	L06	L10	L14	3/8	3/16
7/32	CPS21	L03	L06	L10	L14	13/32	3/16
1/4	CPS25	L03	L06	L10	L14	7/16	3/16
9/32	CPS28	L03	L06	L10	L14	7/16	1/4
5/16	CPS31	L03	L06	L10	L14	1/2	1/4
11/32	CPS34	L03	L06	L10	L14	9/16	1/4
3/8	CPS37	L03	L06	L10	L14	5/8	1/4
13/32	CPS40	L03	L06	L10	L14	11/16	1/4
7/16	CPS43	L03	L06	L10	L14	11/16	1/4
15/32	CPS46	L03	L06	L10	L14	3/4	1/4
1/2	CPS50	L03	L06	L10	L14	3/4	1/4
9/16	CPS56		L06	L10	L14	13/16	1/4
5/8	CPS62		L06	L10	L14	7/8	1/4
3/4	CPS75		L06	L10	L14	1	1/4
7/8	CPS87		L06	L10	L14	1-1/8	1/4
1"	CPS100		L06	L10	L14	1-1/4	1/4

> To order, add overall length "L" to Catalog Number. Example: CPH09L03

CORE PINS

HIGH HARDNESS (HARD) — INCH

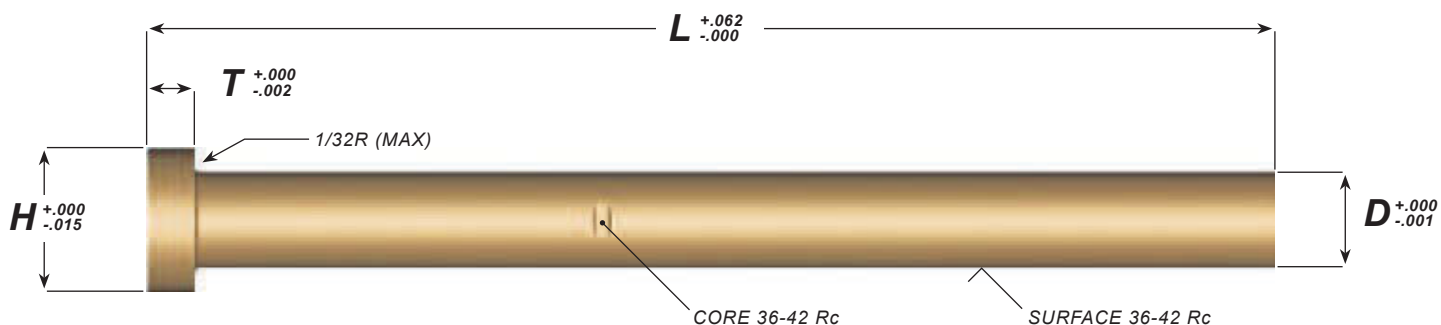


D	Cat. No.	L				H	T
		3"	6"	10"	14"		
3/32	CPH09	L03	L06	L10		1/4	1/8
7/64	CPH10	L03	L06	L10		1/4	1/8
1/8	CPH12	L03	L06	L10	L14	1/4	1/8
9/64	CPH14	L03	L06	L10	L14	1/4	1/8
5/32	CPH15	L03	L06	L10	L14	9/32	5/32
11/64	CPH17	L03	L06	L10	L14	11/32	3/16
3/16	CPH18	L03	L06	L10	L14	3/8	3/16
13/64	CPH20	L03	L06	L10	L14	3/8	3/16
7/32	CPH21	L03	L06	L10	L14	13/32	3/16
1/4	CPH25	L03	L06	L10	L14	7/16	3/16
9/32	CPH28	L03	L06	L10	L14	7/16	1/4
5/16	CPH31	L03	L06	L10	L14	1/2	1/4
11/32	CPH34	L03	L06	L10	L14	9/16	1/4
3/8	CPH37	L03	L06	L10	L14	5/8	1/4
13/32	CPH40	L03	L06	L10	L14	11/16	1/4
7/16	CPH43	L03	L06	L10	L14	11/16	1/4
15/32	CPH46	L03	L06	L10	L14	3/4	1/4
1/2	CPH50	L03	L06	L10	L14	3/4	1/4
9/16	CPH56		L06	L10	L14	13/16	1/4
5/8	CPH62		L06	L10	L14	7/8	1/4
3/4	CPH75		L06	L10	L14	1	1/4
7/8	CPH87		L06	L10	L14	1-1/8	1/4
1"	CPH100		L06	L10	L14	1-1/4	1/4

> To order, add overall length "L" to Catalog Number. Example: CPH09L03

CORE PINS

COPPER ALLOY — INCH



D	Cat. No.	L				H	T
		4"	8"	12"	18"		
1/8	MM12	L04	L08	L12		1/4	1/8
5/32	MM15	L04	L08	L12	L18	9/32	5/32
3/16	MM18	L04	L08	L12	L18	3/8	3/16
7/32	MM21	L04	L08	L12	L18	13/32	3/16
1/4	MM25	L04	L08	L12	L18	7/16	3/16
9/32	MM28	L04	L08	L12	L18	7/16	1/4
5/16	MM31	L04	L08	L12	L18	1/2	1/4
3/8	MM37	L04	L08	L12	L18	5/8	1/4
7/16	MM43	L04	L08	L12	L18	11/16	1/4
1/2	MM50	L04	L08	L12	L18	3/4	1/4
9/16	MM56	L04	L08	L12	L18	13/16	1/4
5/8	MM62	L04	L08	L12	L18	7/8	1/4
3/4	MM75	L04	L08	L12	L18	1	1/4

- ▶ To order, add overall length "L" to Catalog Number. Example: MM12L04
- ▶ Material: BeCu
- ▶ Specials available upon request

Copper Alloy Pins from DMS offer the highest combination of thermal conductivity and strength available. Made from prehardened copper alloy, our pins are 3 times stronger than competing copper alloy pins, and have thermal conductivity 3-5 times greater than steel pins.

The high strength provides longer life, resistance to abrasion and ease of machining.

The high thermal conductivity provides faster heat removal from critical areas, reducing molded part cost and post-mold shrinkage. The high-copper alloy provides excellent corrosion resistance and inherent lubricity and galling resistance.

Custom sizes are available.

SAFE HANDLING

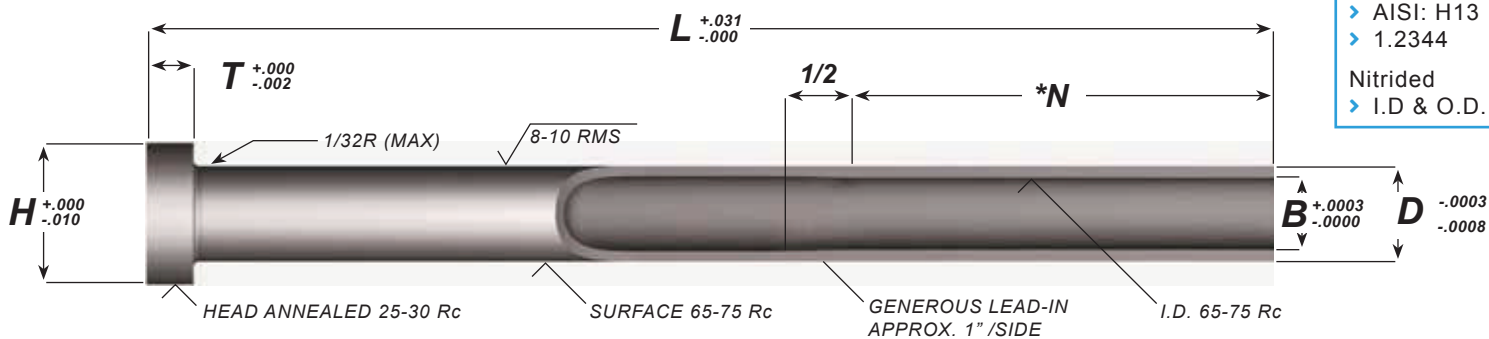
Like many industrial materials, beryllium-containing materials may pose a health risk if recommended safe handling practices are not followed. Inhalation of airborne beryllium may cause a serious lung disorder in susceptible individuals.

The Occupational Safety and Health Administration (OSHA) has set mandatory limits on occupational respiratory exposures.



EJECTOR SLEEVES

NITRIDED — PARALLEL — INCH



Material
 > AISI: H13
 > 1.2344
 Nitrided
 > I.D & O.D.

B I.D.	D O.D.	Cat. No.	L												H	T
			3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"		
3/32	3/16	SE02	L03	L04	L05	L06	L07	L08							3/8	3/16
1/8	7/32	SE03	L03	L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	13/32	3/16
5/32	1/4	SE04		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	7/16	3/16
3/16	5/16	SE05		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	1/2	1/4
7/32	11/32	SE55		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	9/16	1/4
1/4	3/8	SE06		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	5/8	1/4
5/16	7/16	SE07		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	11/16	1/4
3/8	1/2	SE08		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	3/4	1/4
7/16	5/8	SE09		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	7/8	1/4
1/2	11/16	SE10		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	15/16	1/4
9/16	3/4	SE11		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	1	1/4
5/8	7/8	SE12		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	1-1/8	1/4
3/4	1	SE13		L04	L05	L06	L07	L08	L09	L10	L11	L12	L13	L14	1-1/4	1/4

- > To order, add overall length "L" to Catalog Number. Example: SE02L03
- > Sizes marked in **BLUE** print are available, but generally not stocked. Call for price and delivery.
 Example: SE02L08 *(N) = 1-3/4 for SE02 and SE03 *(N) = 2-1/4 for SE04 and larger.

EXTRA LONG EJECTOR SLEEVES

INCH STANDARD

B I.D.	D O.D.	Cat. No.	L				H	T
			15"	16"	17"	18"		
5/32	1/4	SE04	L15	L16	L17	L18	7/16	3/16
3/16	5/16	SE05	L15	L16	L17	L18	1/2	1/4
7/32	11/32	SE55	L15	L16	L17	L18	9/16	1/4
1/4	3/8	SE06	L15	L16	L17	L18	5/8	1/4
5/16	7/16	SE07	L15	L16	L17	L18	11/16	1/4
3/8	1/2	SE08	L15	L16	L17	L18	3/4	1/4
7/16	5/8	SE09	L15	L16	L17	L18	7/8	1/4
1/2	11/16	SE10	L15	L16	L17	L18	15/16	1/4
9/16	3/4	SE11	L15	L16	L17	L18	1	1/4
5/8	7/8	SE12	L15	L16	L17	L18	1-1/8	1/4
3/4	1	SE13	L15	L16	L17	L18	1-1/4	1/4

NEW

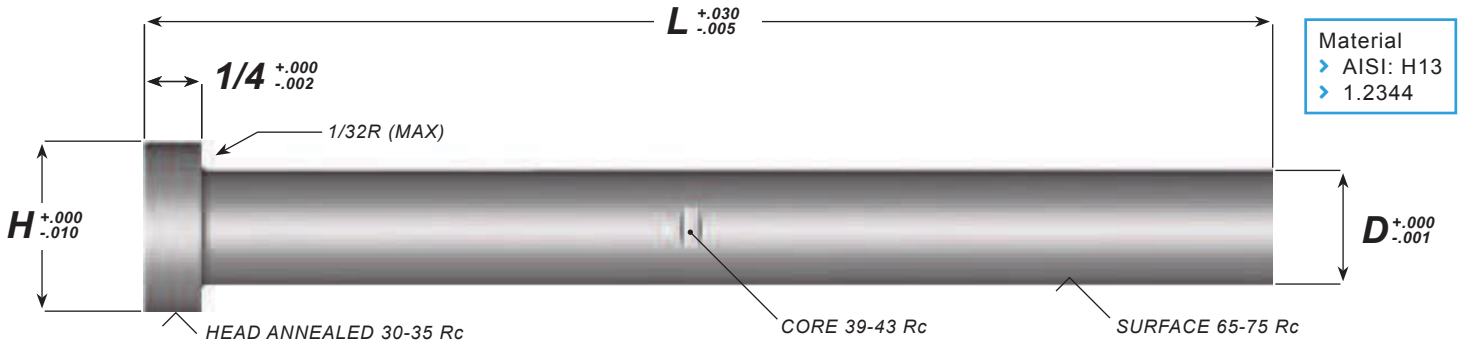
N=2-3/8" for SE04

N=2-3/4" for SE05, SE55

N=3-1/4" for SE06 thru SE13

RETURN PINS

NITRIDED — INCH



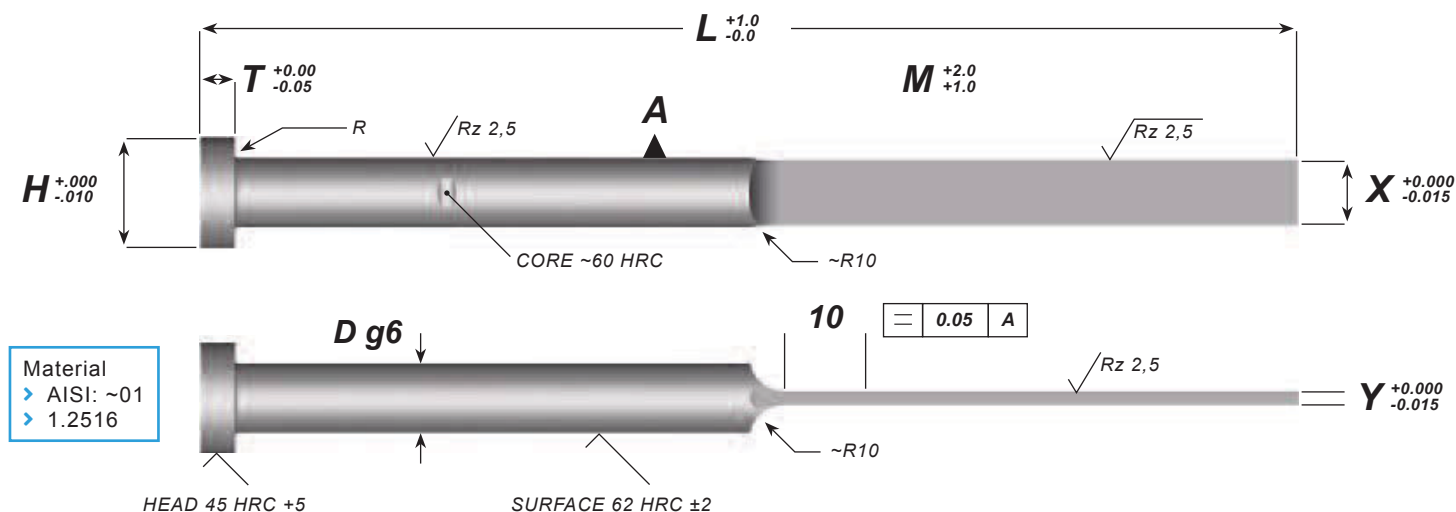
D = 1/2"							
L	3-9/16	4-1/16	4-9/16	5-1/16	5-9/16	6-1/16	6-9/16
H	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Catalog Number	RP5356	RP5406	RP5456	RP5506	RP5556	RP5606	RP5656

D = 5/8"									
L	4-1/16	4-9/16	5-1/16	5-9/16	6-1/16	6-9/16	7-1/16	7-9/16	8-1/16
H	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8
Catalog Number	RP6406	RP6456	RP6506	RP6556	RP6606	RP6656	RP6706	RP6756	RP6806

D = 3/4"										
L	4-15/16	5-7/16	5-15/16	6-7/16	6-15/16	7-7/16	7-15/16	8-7/16	8-15/16	9-7/16
H	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
Catalog Number	RP7493	RP7543	RP7593	RP7643	RP7693	RP7743	RP7793	RP7843	RP7893	RP7943

EJECTOR BLADES

THROUGH HARD — METRIC



Nominal Size		g6	
Over	To	Tolerance (mm)	
3mm	6mm	-,004	-,012
6mm	10mm	-,005	-,014
10mm	18mm	-,006	-,017

X	Y	No.	L									D	H	T	R
			63	80	100	125	160	200	250	315	400				
			M=32	M=40	M=50	M=63	M=80	M=100	M=125	M=160	M=200				
3,5	0,8	B03508	063	080	100	125	160					4,0	8,0	3,0	0,3
	1,0	B03510	063	080	100	125	160	200	250						
	1,2	B03512		080	100	125	160	200							
3,8	0,8	B03808	063	080	100	125	160					4,2	8,0	3,0	0,3
	1,0	B03810	063	080	100	125	160								
	1,2	B03812		080	100	125	160	200							
4,5	1,0	B04510	063	080	100	125	160	200				5,0	10,0	3,0	0,3
	1,2	B04512		080	100	125	160	200							
	1,5	B04515		080	100	125	160	200							
5,5	1,0	B05510		080	100	125	160	200				6,0	12,0	5,0	0,5
	1,2	B05512		080	100	125	160	200	250						
	1,5	B05515		080	100	125	160	200	250						
	2,0	B05520		080	100	125	160	200	250						
7,5	1,0	B07510				125	160					8,0	14,0	5,0	0,5
	1,2	B07512			100	125	160	200	250						
	1,5	B07515			100	125	160	200	250	315					
	2,0	B07520			100	125	160	200	250	315					
9,5	1,2	B05512					160	200				10,0	16,0	5,0	0,5
	1,5	B09515					160	200	250	315	400				
	2,0	B09520					160	200	250	315	400				
11,5	2,0	B11520						200	250	315	400	12,0	18,0	7,0	0,8
	2,5	B11525						200	250	315	400				
15,5	2,0	B15520						200	250	315	400	16,0	22,0	7,0	0,8
	2,5	B15525						200	250	315	400				



EJECTOR PINS

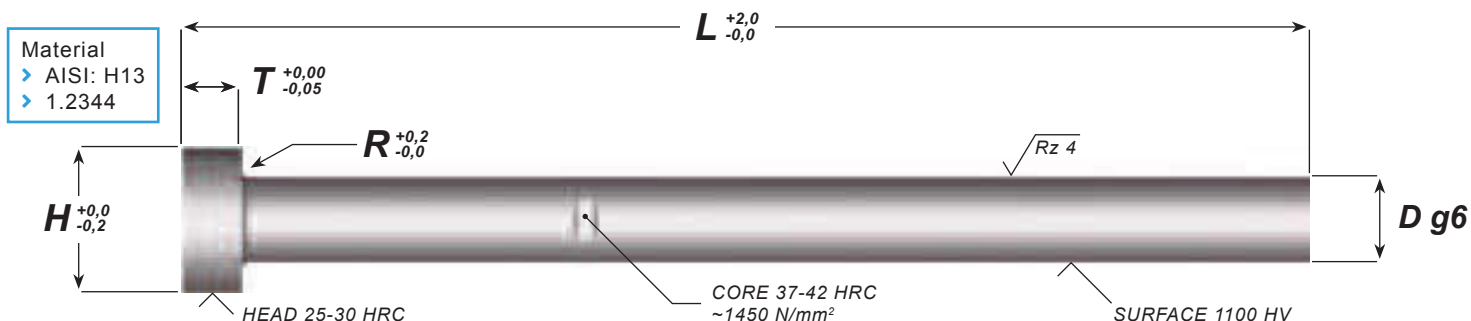
NITRIDED — PARALLEL — METRIC

D	Cat. No.	L											H	T	R
		100	125	160	200	250	315	400	500	630	800	1000			
1,5	AN-01,5			160		250	315						3	1,5	0,2
1,6	AN-01,6			160	200								3	1,5	0,2
2,0	AN-02,0	100	125	160	200	250		400					4	2,0	0,2
2,2	AN-02,2			160		250		400					4	2,0	0,2
2,4	AN-02,4			160		250							5	2,0	0,3
2,5	AN-02,5	100	125	160	200	250	315						5	2,0	0,3
2,7	AN-02,7		125		200		315	400					5	2,0	0,3
2,9	AN-02,9			160		250							5	2,0	0,3
3,0	AN-03,0		125	160		250	315	400	500	630	800		6	3,0	0,3
3,1	AN-03,1			160		250							6	3,0	0,3
3,2	AN-03,2		125	160		250		400	500	630	800		6	3,0	0,3
3,4	AN-03,4			160		250		400					6	3,0	0,3
3,5	AN-03,5			160		250					800		7	3,0	0,3
3,7	AN-03,7			160		250		400	500	630			7	3,0	0,3
3,9	AN-03,9			160		250							7	3,0	0,3
4,0	AN-04,0	100	125	160	200	250	315	400	500	630	800		8	3,0	0,3
4,1	AN-04,1					250							8	3,0	0,3
4,2	AN-04,2			160	200	250	315	400	500	630	800		8	3,0	0,3
4,4	AN-04,4			160		250							8	3,0	0,3
4,5	AN-04,5			160		250		400	500	630	800	1000	8	3,0	0,3
4,9	AN-04,9			160		250							8	3,0	0,3
5,0	AN-05,0	100	125	160	200	250	315	400	500	630	800		10	3,0	0,3
5,1	AN-05,1					250							10	3,0	0,3
5,2	AN-05,2			160	200	250		400	500	630	800		10	3,0	0,3
5,4	AN-05,4			160		250							10	3,0	0,3
5,5	AN-05,5			160		250		400	500		800		10	3,0	0,3
5,7	AN-05,7			160		250							10	3,0	0,3
5,9	AN-05,9			160		250							10	3,0	0,3
6,0	AN-06,0	100	125	160	200	250	315	400	500	630	800	1000	12	5,0	0,5
6,1	AN-06,1					250							12	5,0	0,5
6,2	AN-06,2			160		250		400	500	630	800		12	5,0	0,5
6,5	AN-06,5			160		250		400	500				12	5,0	0,5
6,9	AN-06,9					250							12	5,0	0,5
7,0	AN-07,0			160		250	315	400	500	630	800		12	5,0	0,5
7,2	AN-07,2			160		250							12	5,0	0,5
7,5	AN-07,5								500	630			12	5,0	0,5
7,8	AN-07,8					250							12	5,0	0,5
8,0	AN-08,0	100	125	160	200	250	315	400	500	630	800	1000	14	5,0	0,5
8,1	AN-08,1			160		250							14	5,0	0,5
8,2	AN-08,2			160		250		400	500	630	800	1000	14	5,0	0,5
8,4	AN-08,4			160		250							14	5,0	0,5
8,5	AN-08,5			160		250		400	500	630			14	5,0	0,5
9,0	AN-09,0			160		250		400	500	630			14	5,0	0,5
9,5	AN-09,5								500	630			14	5,0	0,5
9,7	AN-09,7			160		250							14	5,0	0,5
10,0	AN-10,0	100	125	160	200	250	315	400	500	630	800	1000	16	5,0	0,5
10,1	AN-10,1					250							16	5,0	0,5
10,2	AN-10,2			160		250		400	500	630	800		16	5,0	0,5
10,5	AN-10,5			160		250		400	500	630			16	5,0	0,5
11,0	AN-11,0			160		250		400	500	630			16	5,0	0,5
12,0	AN-12,0	100	125	160	200	250	315	400	500	630	800	1000	18	7,0	0,8
12,2	AN-12,2					250		400	500	630	800	1000	18	7,0	0,8
12,5	AN-12,5	100		160		250		400	500	630	800		18	7,0	0,8
14,0	AN-14,0			160	200	250	315	400	500		800	1000	22	7,0	0,8
14,2	AN-14,2					250							22	7,0	0,8
16,0	AN-16,0	100		160	200	250	315	400	500	630	800	1000	22	7,0	0,8
16,2	AN-16,2					250							22	7,0	0,8
18,0	AN-18,0			160	200	250	315	400	500	630	800	1000	24	8,0	1,0
20,0	AN-20,0		125	160	200	250	315	400	500	630	800	1000	26	7,0	0,8
25,0	AN-25,0			160	200	250	315	400	500	630	800	1000	32	10,0	1,0
32,0	AN-32,0				200	250	315	400	500	630	800	1000	40	10,0	1,0

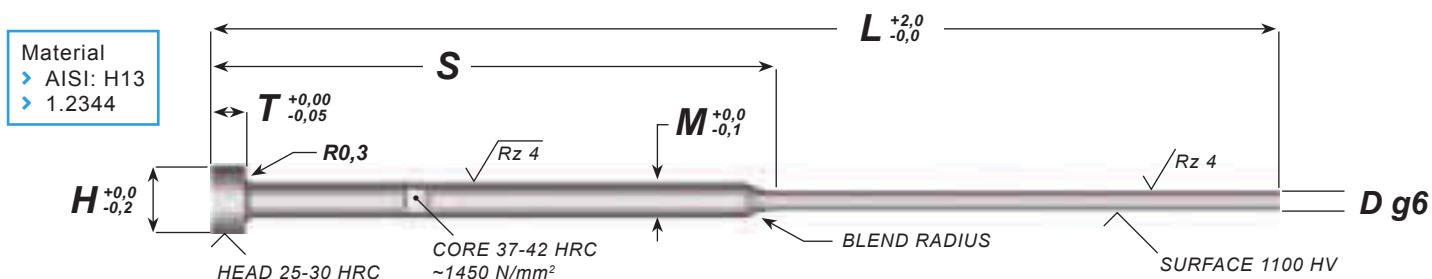
► To order, add overall length "L" to Catalog Number. Example: AN-01,5L160

EJECTOR PINS

NITRIDED — PARALLEL — METRIC



Nominal Size		g6	
Over	To	Tolerance (mm)	
0mm	3mm	-,002	-,008
3mm	6mm	-,004	-,012
6mm	10mm	-,005	-,014
10mm	18mm	-,006	-,017
18mm	30mm	-,007	-,020
30mm	50mm	-,009	-,025



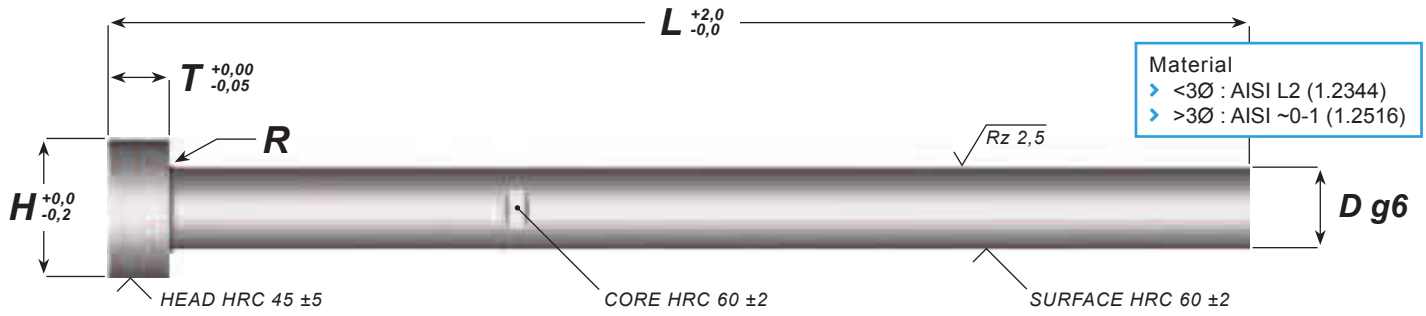
EJECTOR PINS

NITRIDED — SHOULDER — METRIC

D	Cat. No.	L						M	H	T
		80	100	125	160	200	250			
		S=35	S=50	S=50	S=63	S=80	S=100			
0,8	CN-0,8			125				2	4	2
1,0	CN-1,0	080	100	125	160	200		2	4	2
1,1	CN-1,1			125				2	4	2
1,2	CN-1,2			125				2	4	2
1,3	CN-1,3			125				2	4	2
1,4	CN-1,4			125				2	4	2
1,5	CN-1,5	080	100	125	160	200	250	3	6	3
1,6	CN-1,6			125				3	6	3
1,7	CN-1,7	080			160			3	6	3
1,8	CN-1,8			125				3	6	3
2,0	CN-2,0	080	100	125	160	200	250	3	6	3
2,2	CN-2,2	080			160			3	6	3
2,5	CN-2,5		100	125	160	200	250	3	6	3
2,7	CN-2,7				160			3	6	3

EJECTOR PINS

THROUGH HARD — PARALLEL — METRIC

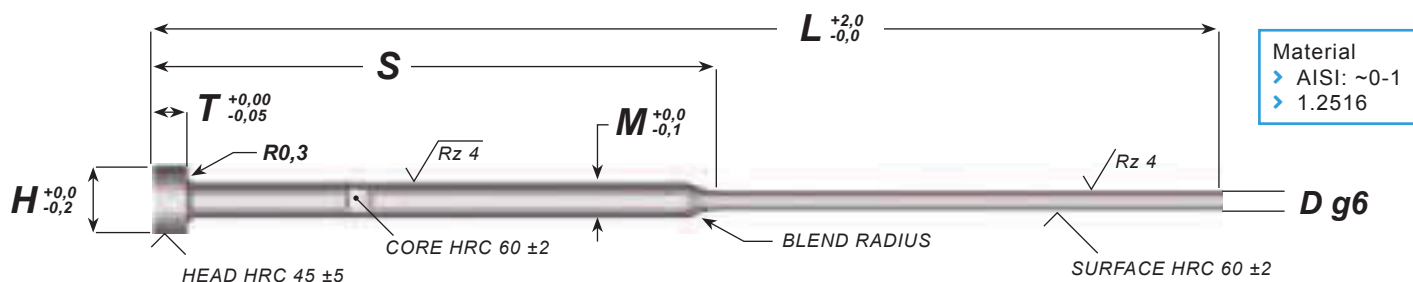


D	Cat. No.	L										H	T	R
		40	63	80	100	125	160	200	250	315	400			
1,5	AH-01,5				100	125	160	200	250			3	1,5	0,2
1,6	AH-01,6				100	125	160	200				3	1,5	0,2
2,0	AH-02,0	040	063	080	100	125	160	200	250			4	2,0	0,2
2,2	AH-02,2				100	125	160	200				4	2,0	0,2
2,5	AH-02,5				100	125	160	200	250			5	2,0	0,3
2,7	AH-02,7				100	125	160	200	250			5	2,0	0,3
3,0	AH-03,0	040	063	080	100	125	160	200	250	315	400	6	3,0	0,3
3,2	AH-03,2				100	125	160	200	250			6	3,0	0,3
3,5	AH-03,5				100	125	160	200	250	315	400	7	3,0	0,3
3,7	AH-03,7				100	125	160	200	250			7	3,0	0,3
4,0	AH-04,0	040	063	080	100	125	160	200	250	315	400	8	3,0	0,3
4,2	AH-04,2				100	125	160	200	250	315	400	8	3,0	0,3
4,5	AH-04,5				100	125	160	200	250			8	3,0	0,3
4,7	AH-04,7				100			200	250			8	3,0	0,3
5,0	AH-05,0	040	063	080	100	125	160	200	250	315	400	10	3,0	0,3
5,2	AH-05,2				100	125	160	200	250	315	400	10	3,0	0,3
5,5	AH-05,5				100	125	160	200	250	315		10	3,0	0,3
6,0	AH-06,0	040	063	080	100	125	160	200	250	315	400	12	5,0	0,5
6,2	AH-06,2				100	125	160	200	250	315	400	12	5,0	0,5
6,5	AH-06,5				100	125	160	200	250	315		12	5,0	0,5
7,0	AH-07,0				100	125	160	200	250	315	400	12	5,0	0,5
8,0	AH-08,0		063	080	100	125	160	200	250	315	400	14	5,0	0,5
8,2	AH-08,2			080	100	125	160	200	250	315	400	14	5,0	0,5
8,5	AH-08,5				100	125	160	200	250	315		14	5,0	0,5
9,0	AH-09,0				100	125	160	200	250	315		14	5,0	0,5
10,0	AH-10,0			080	100	125	160	200	250	315	400	16	5,0	0,5
10,2	AH-10,2					125	160	200	250	315	400	16	5,0	0,5
10,5	AH-10,5				100	125		200		315	400	16	5,0	0,5
11,0	AH-11,0						160	200	250	315		16	5,0	0,5
12,0	AH-12,0			080	100	125	160	200	250	315	400	18	7,0	0,8
12,2	AH-12,2						160	200	250	315		18	7,0	0,8
12,5	AH-12,5						160	200	250			18	7,0	0,8
14,0	AH-14,0				100	125	160	200	250	315	400	22	7,0	0,8
16,0	AH-16,0				100	125	160	200	250	315	400	22	7,0	0,8
18,0	AH-18,0						160	200	250	315	400	24	7,0	0,8
20,0	AH-20,0						160	200	250	315	400	26	8,0	1,0

► To order, add overall length "L" to Catalog Number. Example: AH-01,5L100

EJECTOR PINS

THROUGH HARD — SHOULDER — METRIC



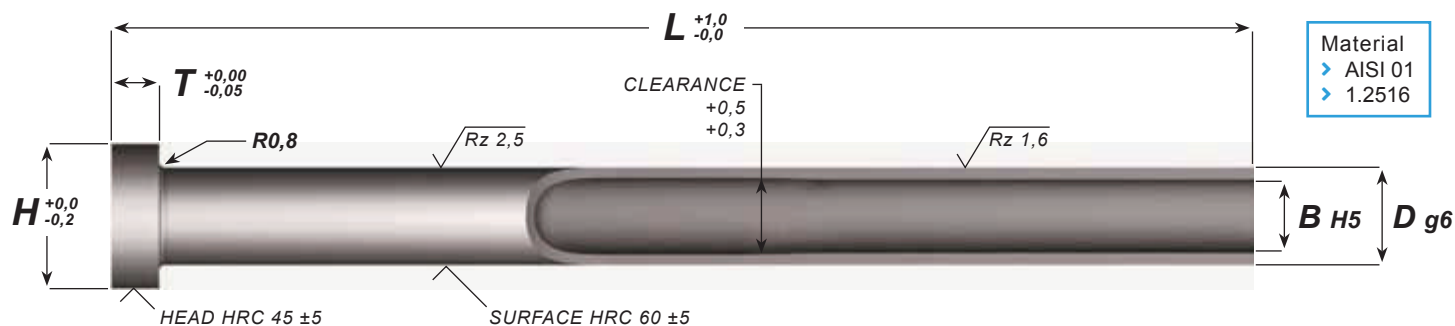
D	Cat. No.	L						M	H	T
		80	100	125	160	200	250			
		S=35	S=50	S=50	S=63	S=80	S=100			
0,8	CN-0,8			125				2	4	2
1,0	CN-1,0	080	100	125	160	200		2	4	2
1,1	CN-1,1			125				2	4	2
1,2	CN-1,2			125				2	4	2
1,3	CN-1,3			125				2	4	2
1,4	CN-1,4			125				2	4	2
1,5	CN-1,5	080	100	125	160	200	250	3	6	3
1,6	CN-1,6			125				3	6	3
1,7	CN-1,7	080			160			3	6	3
1,8	CN-1,8			125				3	6	3
2,0	CN-2,0	080	100	125	160	200	250	3	6	3
2,2	CN-2,2	080			160			3	6	3
2,5	CN-2,5		100	125	160	200	250	3	6	3
2,7	CN-2,7				160			3	6	3

> To order, add overall length "L" to Catalog Number. Example: CH-0,8L080

Nominal Size		g6	
Over	To	Tolerance (mm)	
0mm	3mm	-,002	-,008
3mm	6mm	-,004	-,012
6mm	10mm	-,005	-,014
10mm	18mm	-,006	-,017
18mm	30mm	-,007	-,020

EJECTOR SLEEVES

NITRIDED — PARALLEL — METRIC



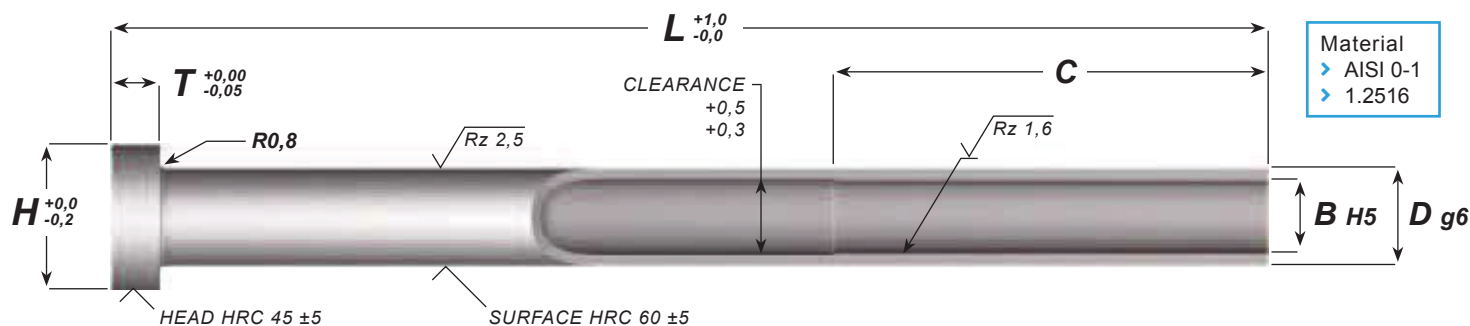
D O.D.	B I.D.	Catalog Number	L												C	H	T	
			75	100	125	150	175	200	225	250	275	300	325	350				400
4,0	2,0	SN-04,0x02,0	75	100	125	150	175	200								35	8,0	3,0
	2,2	SN-04,0x02,2		100	125	150												
5,0	2,5	SN-05,0x02,5		100	125	150									35	10,0	3,0	
	2,7	SN-05,0x02,7		100	125	150												
	3,0	SN-05,0x03,0		100	125	150	175		250					45	10,0	3,0		
	3,2	SN-05,0x03,2		100	125	150	175	200										
6,0	3,0	SN-06,0x03,0		100	125										50	12,0	5,0	
	3,5	SN-06,0x03,5		100	125	150	175											
	3,7	SN-06,0x03,7		100	125	150												
	4,0	SN-06,0x04,0		100	125	150	175	200	225	250	275	300		400				
	4,2	SN-06,0x04,2		100	125	150	175		250									
8,0	4,0	SN-08,0x04,0		100	125	150									50	16,0	5,0	
	4,2	SN-08,0x04,2		100	125	150	175	200										
	5,0	SN-08,0x05,0		100	125	150	175	200	225	250		325						
	5,2	SN-08,0x05,2		100	125	150	175	200	225	250								
10,0	6,0	SN-10,0x06,0		100	125	150	175	200	225	250	275				50	20,0	7,0	
	6,2	SN-10,0x06,2		100	125	150	175	200	225									
12,0	8,0	SN-12,0x08,0		100	125	150	175	200	225	250			350		50	22,0	7,0	
	8,2	SN-12,0x08,2		100	125	150	175	200	225	250								
14,0	10,0	SN-14,0x10,0		100	125	150	175	200	225	250					50	22,0	7,0	
	10,2	SN-14,0x10,2		100	125	150	175	200		250								
16,0	12,0	SN-16,0x12,0		100	125	150	175	200	225	250					50	22,0	7,0	

> To order, add overall length "L" to Catalog Number. Example: SN-04,0X02,0L075

Nominal Size		g6		H5	
Over	To	Tolerance (mm)		Tolerance (mm)	
0mm	3mm	-0,002	-0,008	+0,004	0
3mm	6mm	-0,004	-0,012	+0,005	0
6mm	10mm	-0,005	-0,014	+0,006	0
10mm	18mm	-0,006	-0,017	+0,008	0

EJECTOR SLEEVES

THROUGH HARD — PARALLEL — METRIC



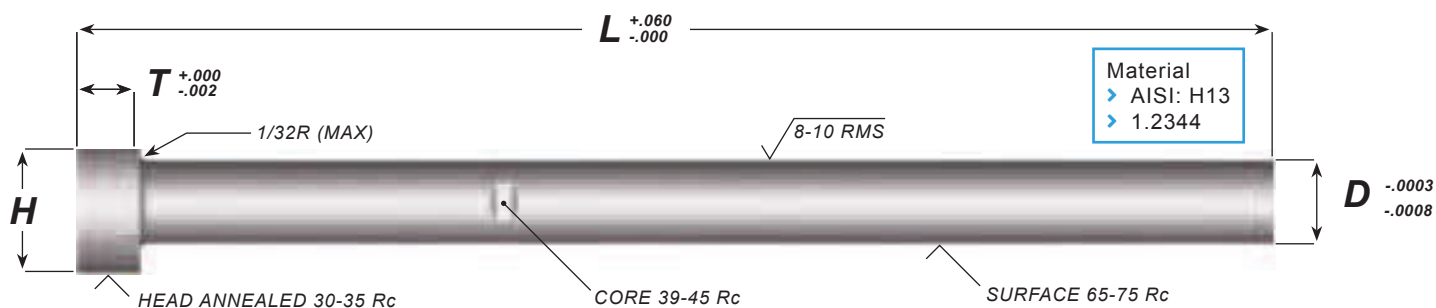
Nominal Size		g6		H5	
Over	To	Tolerance (mm)		Tolerance (mm)	
0mm	3mm	-0,002	-0,008	+0,004	0
3mm	6mm	-0,004	-0,012	+0,005	0
6mm	10mm	-0,005	-0,014	+0,006	0
10mm	18mm	-0,006	-0,017	+0,008	0
18mm	30mm	-0,007	-0,020	+0,009	0

D O.D.	B I.D.	Catalog Number	L								H	T	C		
			75	100	125	150	175	200	225	250				275	
3,0	1,5	SH-03,0x01,5	075	100	125	150	175					35	6,0	3,0	
	1,6	SH-03,0x01,6	075	100	125	150	175								
4,0	2,0	SH-04,0x02,0	075	100	125	150	175	200	225			35	8,0	3,0	
	2,2	SH-04,0x02,2	075	100	125	150	175	200	225						
	2,5	SH-04,0x02,5	075	100	125	150	175	200	225						
5,0	2,5	SH-05,0x02,5	075	100	125	150	175	200	225	250		35	10,0	3,0	
	2,7	SH-05,0x02,7	075	100	125	150	175	200	225	250					
	3,0	SH-05,0x03,0	075	100	125	150	175	200	225	250	275				45
	3,2	SH-05,0x03,2	075	100	125	150	175	200	225	250	275				
6,0	3,0	SH-06,0x03,0	075	100	125	150	175	200	225	250	275	45	12,0	5,0	
	3,5	SH-06,0x03,5	075	100	125	150	175	200	225	250	275				
	4,0	SH-06,0x04,0	075	100	125	150	175	200	225	250	275				
	4,5	SH-06,0x04,5	075	100	125	150	175	200	225	250	275				
8,0	4,2	SH-08,0x04,2	075	100	125	150	175	200	225	250	275	45	14,0	5,0	
	5,0	SH-08,0x05,0	075	100	125	150	175	200	225	250	275				
	5,2	SH-08,0x05,2	075	100	125	150	175	200	225	250	275				
10,0	6,0	SH-10,0x06,0	075	100	125	150	175	200	225	250	275	45	16,0	5,0	
	6,2	SH-10,0x06,2	075	100	125	150	175	200	225	250	275				
12,0	8,0	SH-12,0x08,0	075	100	125	150	175	200	225	250	275	45	20,0	7,0	
	8,2	SH-12,0x08,2	075	100	125	150	175	200	225	250	275				
14,0	10,0	SH-14,0x10,0	075	100	125	150	175	200	225	250	275	45	22,0	7,0	
16,0	12,0	SH-16,0x12,0	075	100	125	150	175	200	225	250	275	45	22,0	7,0	
20,0	14,0	SH-20,0x14,0		100		150		200		250		45	26,0	8,0	

- > To order, add overall length "L" to Catalog Number. Example: SH-03,0x02,0L075
- > Sizes marked in blue print are available but generally not stocked. Call for price and delivery. Example: SH-03,0x01,5L075

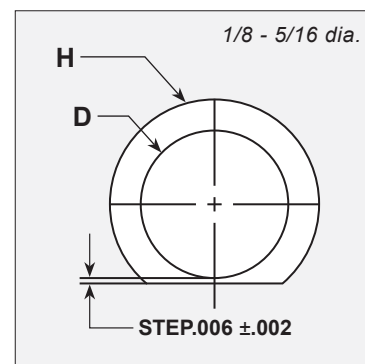
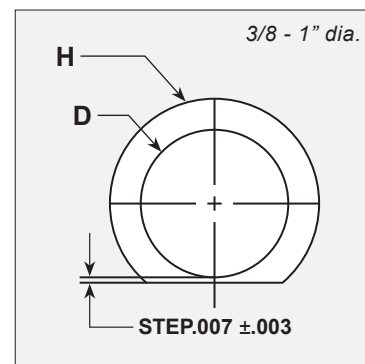
D-HEAD EJECTOR PINS

NITRIDED — PARALLEL



- > No machining required.
- > Save time – let us key your pins.

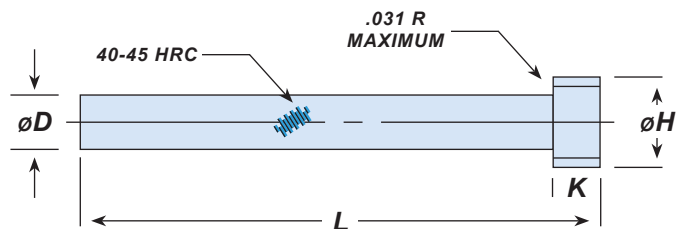
D	Cat. No.	L					H	T
		6"	10"	14"	18"	25"		
		STD.	STD.	STD.	STD.	STD.		
1/8	DPIN12	L06	L10	L14			1/4	1/8
9/64	DPIN14		L10	L14			1/4	1/8
5/32	DPIN15	L06	L10	L14	L18	L25	9/32	5/32
3/16	DPIN18	L06	L10	L14	L18	L25	3/8	3/16
7/32	DPIN21			L14			13/32	3/16
1/4	DPIN25	L06	L10	L14	L18	L25	7/16	3/16
5/16	DPIN31	L06	L10	L14	L18	L25	1/2	1/4
3/8	DPIN37	L06	L10	L14	L18	L25	5/8	1/4
1/2	DPIN50	L06	L10	L14	L18	L25	3/4	1/4
5/8	DPIN62	L06	L10	L14	L18	L25	7/8	1/4
3/4	DPIN75	L06	L10	L14	L18	L25	1	1/4
1	DPIN100	L06	L10	L14	L18	L25	1-1/4	1/4



- > To order, add overall length "L" to Catalog Number. Example: DPIN12L06
- > Other key headed pins not shown are available upon request. Check with our order desk.

D-HEAD EJECTOR PINS

METRIC

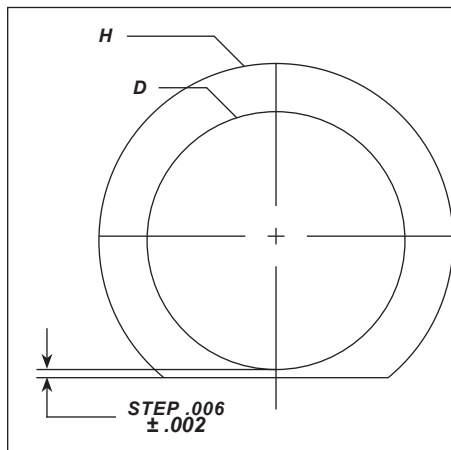


Material: H-13 / 1.2344 / SKD61
Surface Treatment: Nitrided DIN Standard

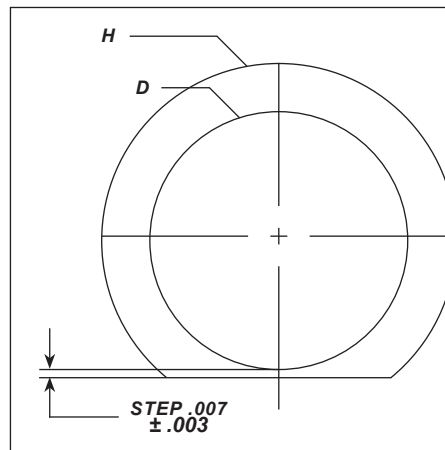
ITEM NO.	D	H	K	Length						
				200	250	315	400	500	630	800
MDP040	4	8	3		X250				X630	X800
MDP050	5	10	3	X200	X250	X315			X630	
MDP060	6	12	5	X200	X250	X315	X400	X500	X630	
MDP080	8	14	5	X200	X250	X315	X400	X500	X630	
MDP100	10	16	5	X200	X250	X315	X400	X500	X630	
MDP120	12	18	7		X250	X315	X400	X500	X630	

Precision-machined flat on head keeps pin from rotating
No machining required

4mm - 8mm diameter pins



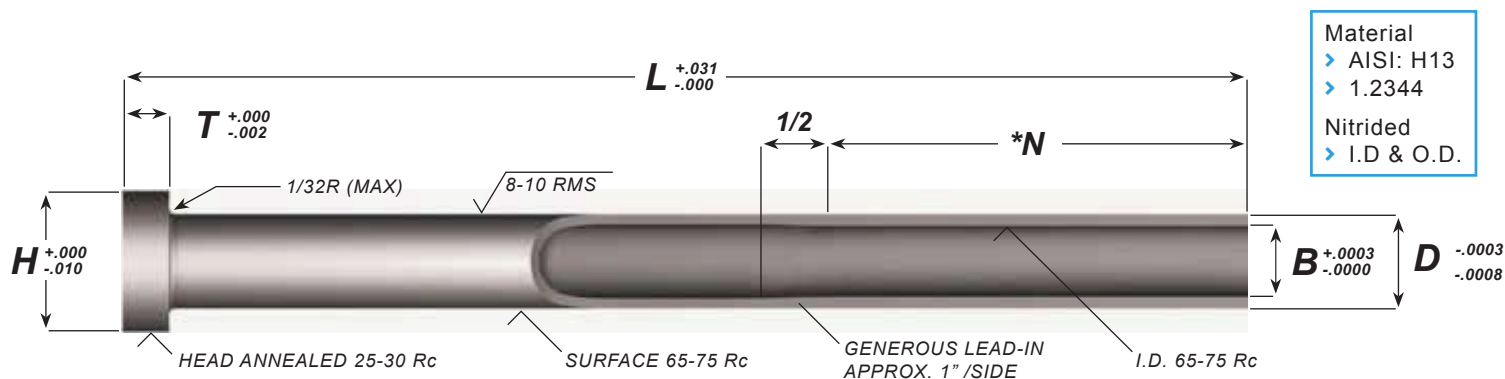
10mm - 12mm diameter pins





EJECTOR SLEEVES — +.005 OVERSIZE

NITRIDED — PARALLEL — INCH



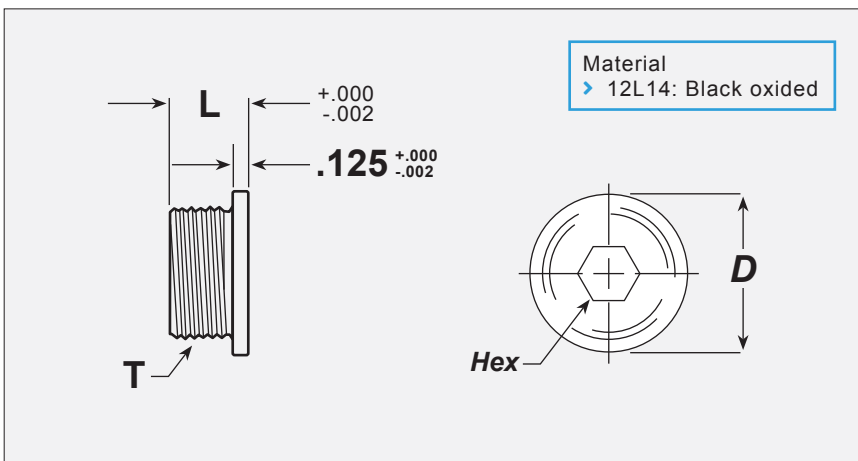
B I.D.	D O.D.	Cat. No.	L									H	T
			4"	5"	6"	7"	8"	9"	10"	11"	12"		
3/32	0.193	OSE02	L04	L05	L06	L07	L08	L09	L10	L11	L12	3/8	3/16
1/8	0.224	OSE03	L04	L05	L06	L07	L08	L09	L10	L11	L12	13/32	3/16
5/32	0.255	OSE04	L04	L05	L06	L07	L08	L09	L10	L11	L12	7/16	3/16
3/16	0.318	OSE05	L04	L05	L06	L07	L08	L09	L10	L11	L12	1/2	1/4
1/4	0.380	OSE06	L04	L05	L06	L07	L08	L09	L10	L11	L12	5/8	1/4
5/16	0.443	OSE07	L04	L05	L06	L07	L08	L09	L10	L11	L12	11/16	1/4
3/8	0.505	OSE08	L04	L05	L06	L07	L08	L09	L10	L11	L12	3/4	1/4

- > To order, add overall length "L" to Catalog Number. Example: OSE02L04
- > Sizes marked in light print are available but generally not stocked. Call for price and delivery. Example: OSE02L11
 *(N) = 1-3/4 for OSE02 and OSE03
 *(N) = 2-1/4 for OSE04 and larger
- > Any of DMS standard sleeves (from page B9) can be ordered oversize. Call our order desk for details.

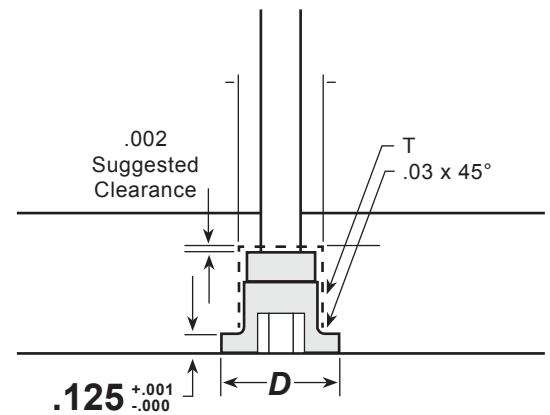
CORE PIN RETAINERS



Catalog Number	D O.D. -.000 -.010	T Thread	Head Thickness -.002	L Length +.002 -.000	Hex Size	Recommended Pin Sizes
CPR56	0.56	3/8 - 24	0.125	0.437	3/16	3/32 thru 5/32 diameters
CPR68	0.68	1/2 - 20	0.125	0.437	1/4	11/64 thru 9/32 diameters
CPR93	0.93	3/4 - 16	0.125	0.437	3/8	5/16 thru 7/16 diameters
CPR106	1.06	7/8 - 14	0.125	0.437	3/8	15/32 thru 9/16 diameters
CPR131	1.31	1-1/8 - 12	0.125	0.437	3/8	5/8 thru 3/4 diameters



- > Allows for improved and more consistent installation and removal of core pins by toolmaker
- > Does not force the head of the core pin head against the bottom of the counterbore



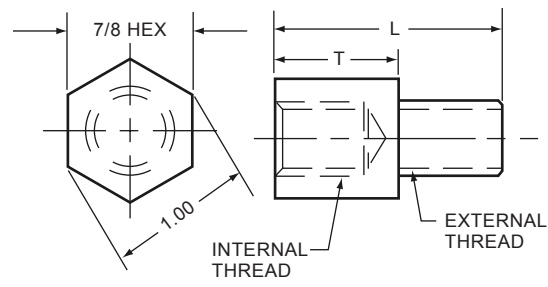


KNOCKOUT ROD EXTENSIONS



HEX STYLE

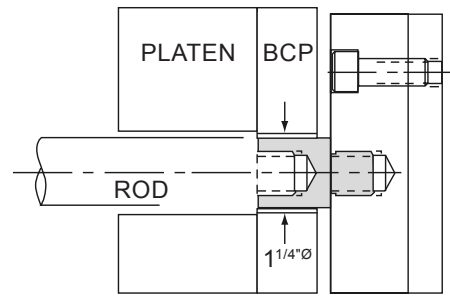
Catalog Number	T	L Length	Thread internal & external
KRE37-10	1.052	1.672	3/8 - 16
KRE37-15	1.552	2.172	3/8 - 16
KRE50-10	1.052	1.672	1/2 - 13
KRE50-15	1.552	2.175	1/2 - 13
KRE62-10	1.052	1.922	5/8 - 11
KRE62-15	1.552	2.422	5/8 - 11
KRE75-10	1.052	1.672	3/4 - 10
KRE75-15	1.552	2.422	3/4 - 10
KRE75-10NT*	1.052	1.922	3/4 - 10
KRE75-15NT*	1.552	2.422	3/4 - 10



> *Note: External thread only. Tool maker to machine internal thread on "NT" style.

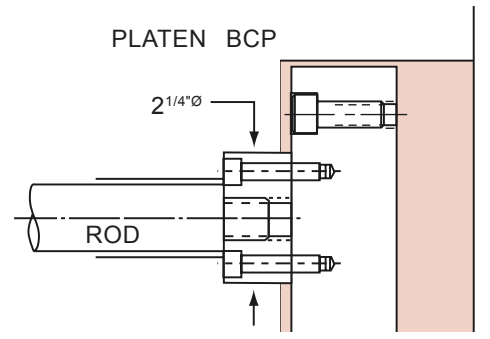
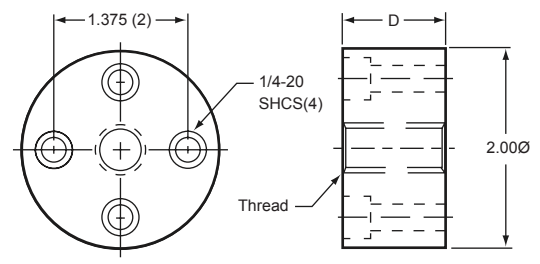
"L" DIMENSIONS:

1.052 = .875 (BCP) + .187 (Stop Pins) - .010
 1.552 = 1.375 (BCP) + .187 (Stop Pins) - .010



ROUND STYLE

Catalog Number	D	Thread
KR37-10	1.052	3/8 - 16
KR37-15	1.552	3/8 - 16
KR50-10	1.052	1/2 - 13
KR50-15	1.552	1/2 - 13
KR62-10	1.052	5/8 - 11
KR62-15	1.552	5/8 - 11
KR75-10	1.052	3/4 - 10
KR75-15	1.552	3/4 - 10
KR75-10NT*	1.052	no thread
KR75-15NT*	1.552	no thread



> *Note: No female thread. Tool Maker to machine internal thread on "NT" style.