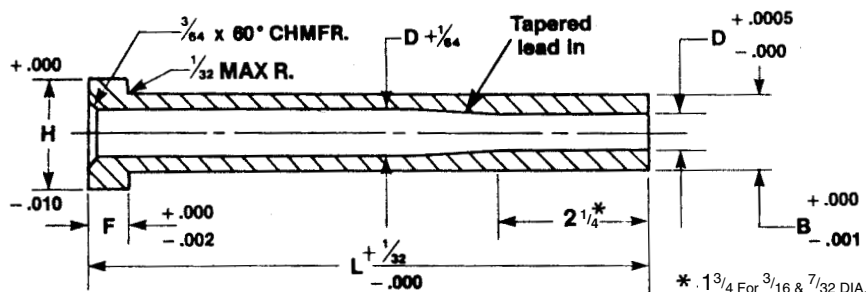


NITRIDED EJECTOR SLEEVES



Nitrided Ejector Sleeves are made of the finest grade of hot work die steel. The heads are hot-forged for strength. The outside surface is nitrided to a hardness of 64-74 Rockwell "C" and GROUND AFTER NITRIDING FOR STRAIGHTNESS AND FINISH. The bearing diameter is 300 Brinell and is finished, reamed and honed concentric with the O.D. of the sleeve.

B O.D.	D I.D.	H Head Dia.	F Head Thick.	List Price Each								
				L-4"	L-5"	L-6"	L-7"	L-8"	L-9"	L-10"	L-11"	L-12"
3/16	3/32	3/8	3/16	28.65	31.45	33.95	37.00	—	—	—	—	—
7/32	1/8	13.32	3/16	27.90	30.90	33.45	36.50	—	—	—	—	—
1/4	5/32	7/16	3/16	21.30	22.30	24.10	26.35	28.90	31.95	36.00	—	—
5/16	3/16	1/2	1/4	21.80	23.05	25.10	27.65	30.40	33.45	37.50	41.50	46.50
11/32	7/32	9/16	1/4	22.05	23.60	25.60	28.40	31.45	35.50	39.05	—	—
3/8	1/4	5/8	1/4	22.55	24.10	26.35	28.90	31.95	36.00	40.05	44.50	49.50
7/16	5/16	11/16	1/4	23.05	25.60	28.15	30.90	34.45	38.50	42.55	47.50	52.50
1/2	3/8	3/4	1/4	23.60	27.90	30.40	33.45	37.00	44.05	45.60	50.50	56.00
5/8	7/16	7/8	1/4	25.35	30.40	35.50	38.50	42.55	46.60	51.20	56.50	62.00
11/16	1/2	15/16	1/4	26.80	31.45	37.00	40.55	44.60	49.15	54.20	59.50	65.00
3/4	9/16	1	1/4	33.00	36.50	40.00	44.00	48.00	53.00	57.50	63.00	68.50
7/8	5/8	1 1/8	1/4	37.50	41.00	45.00	49.00	53.50	58.50	63.50	69.50	75.00
1"	3/4	1 1/4	1/4	41.50	45.50	49.50	54.00	58.50	64.00	69.50	75.00	81.50

OVERSIZE O.D. EJECTOR SLEEVES AVAILABLE

(+.005 over standard "B" dimension)

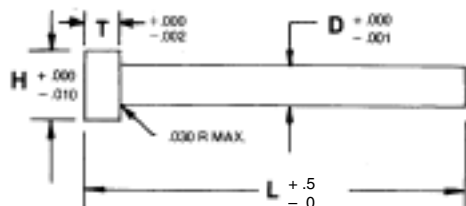
CALL FOR PRICING AND DELIVERY

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TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

EJECTOR PINS

NITRIDED EJECTOR PINS



- H13 Hot Work Die Steel
- Surface Hardness R/C 64-74
- Core Hardness R/C 35-40
- Forged and Annealed Heads
- Body Nitrided
- Honed Finish

STANDARD EJECTOR PINS

D Pin Dia.	H Head Dia.	T Head Thick.	Length			
			L-6"	L-10"	L-14"	L-18"
3/64	1/4	1/8	5.70	7.18	12.66	—
1/16	1/4	1/8	5.32	6.87	10.41	—
5/64	1/4	1/8	5.32	6.42	10.29	—
3/32	1/4	1/8	4.80	5.39	9.45	—
7/64	1/4	1/8	4.80	5.39	8.36	—
1/8	1/4	1/8	2.63	2.92	3.66	8.45
9/64	1/4	1/8	3.04	3.12	4.25	8.05
5/32	9/32	5/32	2.72	3.05	3.93	5.47
11/64	11/32	3/16	3.25	3.32	4.39	—
3/16	3/8	3/16	2.84	3.26	4.34	5.68
13/64	3/8	3/16	—	3.64	4.66	5.79
7/32	13/32	3/16	3.05	3.62	4.82	5.67
15/64	13/32	3/16	—	3.97	5.14	—
1/4	7/16	3/16	3.26	4.06	5.12	6.56
17/64	7/16	1/4	—	4.66	5.60	—
9/32	7/16	1/4	3.81	4.85	5.75	7.69
19/64	1/2	1/4	—	5.12	6.43	—
5/16	1/2	1/4	4.20	5.39	6.43	8.45
21/64	9/16	1/4	—	5.75	7.50	—
11/32	9/16	1/4	4.71	6.03	7.61	—
23/64	5/8	1/4	—	6.43	8.14	—
3/8	5/8	1/4	4.97	5.70	8.21	11.08
13/32	11/16	1/4	5.49	7.47	9.67	12.73
7/16	11/16	1/4	6.03	8.21	10.46	14.20
15/32	3/4	1/4	7.75	9.00	14.97	15.69
1/2	3/4	1/4	7.21	9.78	12.86	16.98
9/16	13/16	1/4	8.92	12.17	15.49	20.23
5/8	7/8	1/4	10.33	14.27	17.98	23.34
11/16	13/16	1/4	13.61	16.83	23.74	27.54
3/4	1"	1/4	14.41	19.33	24.62	31.50
7/8	1-1/8	1/4	31.52	37.08	62.99	88.96
1"	1-1/4	1/4	33.02	37.08	72.99	94.44

.005 OVERSIZE EJECTOR PINS

D .005 Over Std. Dia.	H Head Dia.	T Head Thick.	Length	
			L-10"	L-14"
3/64	1/4	1/8	8.72	—
1/16	1/4	1/8	7.99	—
5/64	1/4	1/8	7.99	—
3/32	1/4	1/8	7.01	—
7/64	1/4	1/8	7.01	8.44
1/8	1/4	1/8	3.28	3.90
9/64	1/4	1/8	6.14	—
5/32	9/32	5/32	3.44	4.34
11/64	11/32	3/16	6.19	—
3/16	3/8	3/16	3.67	4.64
13/64	3/8	3/16	6.62	—
7/32	13/32	3/16	4.07	—
15/64	13/32	3/16	6.42	—
1/4	7/16	3/16	4.42	5.67
17/64	7/16	1/4	6.47	—
9/32	7/16	1/4	4.97	—
19/64	1/2	1/4	6.86	—
5/16	1/2	1/4	5.49	7.15
21/64	9/16	1/4	6.90	—
11/32	9/16	1/4	6.23	—
23/64	5/8	1/4	7.03	—
3/8	5/8	1/4	6.95	8.99
13/32	11/16	1/4	7.82	—
7/16	11/16	1/4	8.53	11.43
15/32	3/4	1/4	9.30	—
1/2	3/4	1/4	10.24	13.65

ALSO AVAILABLE IN METRIC SIZES

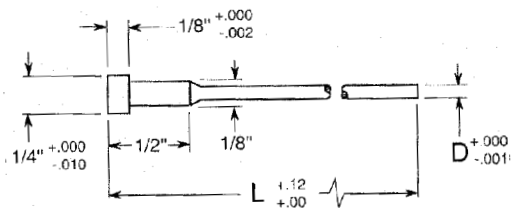
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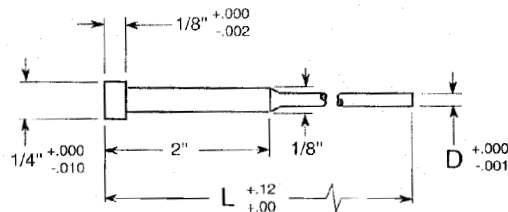
EJECTOR PINS

NITRIDED EJECTOR PINS — SHOULDER TYPE

Ejector pins are made from the best air hardening hot work die steel and heat treated for a tough core. The head is solid forged and annealed to prevent breakage. The body of the pin is nitrided to give a surface hardness of 64-74 Rockwell "C" then honed for a smooth friction free surface.



1/2" SHOULDER PINS



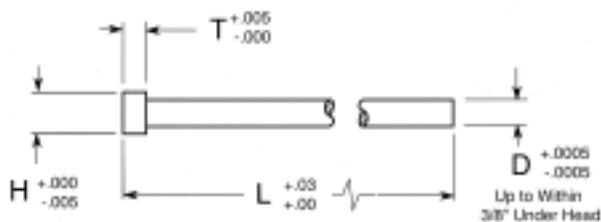
2" SHOULDER PINS

D Pin Dia.	LENGTH		
	6"	10"	14"
3/64	5.20	6.60	8.44
3/64 O.S.*	—	7.27	—
1/16	4.94	6.17	7.95
1/16 O.S.*	—	6.87	—
5/64	4.94	6.17	8.05
5/64 O.S.*	—	6.87	13.00
3/32	4.43	5.61	7.63
3/32 O.S.*	—	6.30	12.90
7/64	4.43	5.61	6.30
7/64 O.S.*	—	6.30	12.83

O.S.*
Pin Diameter is .005
over standard
diameter

D Pin Dia.	LENGTH		
	6"	10"	14"
3/64	5.07	5.84	8.18
3/64 O.S.*	—	7.01	—
1/16	4.89	5.89	7.51
1/16 O.S.*	—	6.59	—
5/64	4.89	5.89	7.65
5/64 O.S.*	—	6.59	13.00
3/32	4.23	5.30	7.33
3/32 O.S.*	—	6.01	12.90
7/64	4.23	5.30	7.17
7/64 O.S.*	—	6.01	12.83

ECONOMY EJECTOR PINS



- Oil Hardening Tool Steel
- Hardness R/C 58/60
- Heads Annealed R/C 42/45
- Ground O.D. ± .0005

BODY DIA (D)	HEAD DIA (H)	HEAD THICK (T)	PRICE EACH		
			4"	6"	10"
1/16	7/64	3/64	2.75	3.48	—
5/64	9/64	3/64	2.55	3.22	—
3/32	5/32	5/64	2.48	3.11	—
7/64	3/16	5/64	2.55	3.19	—
1/8	7/32	3/32	2.25	2.80	3.72
9/64	1/4	7/64	2.25	2.80	3.72
5/32	17/64	1/8	2.25	2.80	3.72
11/64	5/16	1/8	2.34	2.92	3.81
3/16	5/16	9/64	2.34	2.92	3.81
13/64	11/32	5/32	2.54	2.99	3.93

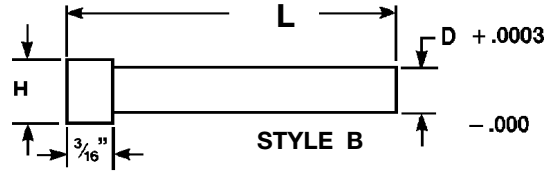
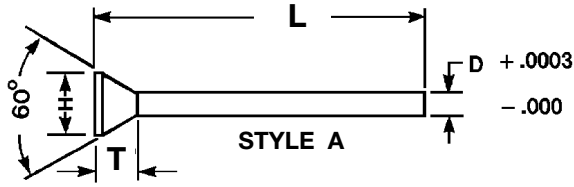
BODY DIA (D)	HEAD DIA (H)	HEAD THICK (T)	PRICE EACH		
			4"	6"	10"
7/32	3/8	5/32	2.73	3.19	4.12
15/64	13/32	11/64	2.80	3.39	4.24
1/4	7/16	3/16	2.80	3.39	4.24
17/64	7/16	1/4	3.29	3.56	4.33
9/32	7/16	1/4	3.29	3.56	4.33
19/64	1/2	1/4	3.48	3.68	4.53
5/16	1/2	1/4	3.48	3.68	4.53
21/64	9/16	1/4	3.57	3.86	5.07
11/32	9/16	1/4	3.57	3.86	5.07
23/64	5/8	1/4	3.68	4.05	5.48
3/8	5/8	1/4	3.68	4.05	5.48

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HIGH SPEED STEEL PUNCHES

Hutchinson High Speed Steel Punches are manufactured from the finest quality AISI type M-2 high speed steel, heat treated and tempered to Rockwell C 60-62, then precision ground to uniform close tolerances.



Set-Up Charges (Shaded area only)

2 1/2" - 4" = 30.00

6" - 8" = 35.00

Dia. "D" Increment of .001	H	T	2 1/2"		3 1/2"	4"	6"	8"
.010 - .014	1/32	1/16	2" 4.70	5.66	7.53	10.14	—	—
.015 - .019	1/32	1/16	2" 3.87	4.70	6.48	9.40	—	—
.020 - .029	3/64	1/16	2" 3.13	3.80	5.66	8.57	—	—
.030 - .036	1/16	1/16	2.61	5.21	7.74	—	—	
.037 - .046	5/64	1/16	2.61	5.21	7.15	13.10	21.53	
.047 - .055	3/32	5/64	2.61	4.32	6.72	12.82	20.12	
.056 - .064	7/64	5/64	3.16	4.04	6.22	11.35	19.82	
.065 - .078	1/8	5/64	3.16	4.04	6.22	11.35	19.03	
.079 - .087	9/64	3/32	3.16	4.04	6.22	11.35	18.28	
.088 - .099	5/32	3/32	3.51	4.40	5.77	10.81	16.58	
.100 - .120	11/64	3/32	3.51	4.40	5.77	10.81	16.58	
.121 - .131	3/16	3/32	3.51	4.40	5.77	10.81	16.58	
.132 - .147	13/64	3/32	3.75	4.63	6.00	11.14	16.99	
.148 - .163	7/32	3/32	3.75	4.63	6.00	11.14	16.99	
.164 - .179	15/64	3/32	3.75	4.63	6.00	11.14	16.99	
.180 - .194	1/4	3/32	4.27	5.26	6.55	11.68	17.52	
.195 - .210	17/64	3/32	4.27	5.26	6.55	11.68	17.52	
.211 - .225	9/32	3/32	4.27	5.26	6.55	11.68	17.52	
.226 - .241	19/64	3/32	5.05	5.97	7.25	12.56	18.66	
.242 - .257	5/16	3/32	5.05	5.97	7.25	12.56	18.66	
.258 - .272	21/64	3/16	5.05	5.97	7.25	12.56	18.66	
.273 - .288	11/32	3/16	5.05	5.97	7.25	12.56	18.66	
.289 - .304	23/64	3/16	5.61	7.07	7.82	14.23	20.05	
.305 - .320	3/8	3/16	5.61	7.07	7.82	14.23	20.05	
.321 - .336	25/64	3/16	5.61	7.07	7.82	14.23	20.05	
.337 - .352	13/32	3/16	6.08	7.07	8.21	14.17	20.51	
.353 - .368	27/64	3/16	6.08	7.07	8.21	14.17	20.51	
.369 - .375	7/16	3/16	6.08	7.07	8.21	14.17	20.51	
.376 - .436	D +.06 +.09	3/16	7.37	8.73	10.04	16.02	22.45	
.437 - .484		3/16	8.37	10.35	11.74	17.86	24.38	
.485 - .562		3/16	9.40	12.07	13.11	18.75	25.34	
.563 - .625		3/16	10.67	14.16	15.39	21.06	27.65	
.626 - 1.000			QUOTED ON REQUEST					

WHEN ORDERING, SPECIFY STYLE, DIA. AND LENGTH
SEE PAGE 39 FOR CONVENIENT QUOTATION REQUEST FORM
FOR SPECIAL STYLE A AND STYLE B PUNCHES

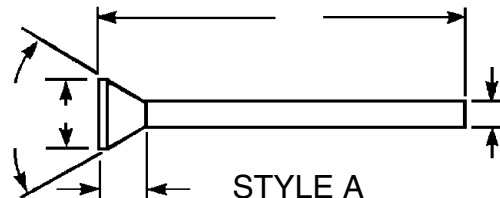
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STEEL PUNCHES

QUOTATION REQUEST FORM

For special Style A and Style B punches, copy and fax to: (908) 688-8296



MATERIAL

HARDNESS
R/C

QUANTITY

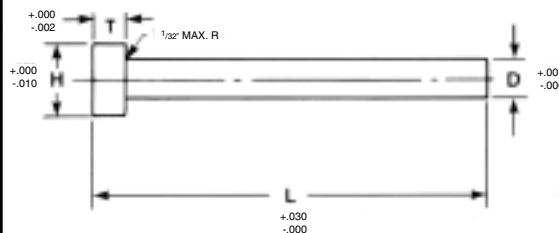
PLEASE INCLUDE ALL TOLERANCES AND CONCENTRICITY REQUIREMENTS

FROM: _____ PHONE: _____

COMPANY: _____ FAX: _____

CORE PINS

D PIN DIA	H HEAD DIA	T HEAD THICK.	STANDARD HARDNESS PRICE EACH			HIGH HARDNESS PRICE EACH		
			3"	6"	10"	3"	6"	10"
3/32	1/4	1/8	5.55	5.73	6.64	5.87	6.12	7.21
7/64	1/4	1/8	5.73	5.93	7.02	6.07	6.24	7.54
1/8	1/4	1/8	3.48	3.54	4.70	3.67	3.87	4.96
9/64	1/4	1/8	3.48	3.61	4.70	3.67	4.00	4.96
5/32	9/32	5/32	3.54	3.67	4.77	3.87	4.00	4.96
11/64	11/32	3/16	3.54	3.67	4.96	3.93	4.07	5.29
3/16	3/8	3/16	3.61	3.74	5.04	3.93	4.18	5.29
13/64	3/8	3/16	3.67	3.87	5.10	4.00	4.25	5.47
7/32	13/32	3/16	3.74	4.00	5.29	4.07	4.32	5.47
1/4	7/16	3/16	4.07	4.25	5.67	4.38	4.64	5.93
9/32	7/16	1/4	4.44	4.64	6.18	4.84	5.10	6.64
5/16	1/2	1/4	4.96	5.10	6.84	5.35	5.55	7.35
11/32	9/16	1/4	5.35	5.55	7.35	5.81	6.12	8.12
3/8	5/8	1/4	5.93	6.18	8.12	6.38	6.70	8.89
13/32	11/16	1/4	6.38	6.64	8.82	6.84	7.28	9.67
7/16	11/16	1/4	7.09	7.28	9.67	7.61	7.99	10.62
15/32	3/4	1/4	7.61	7.99	10.57	8.25	8.70	11.66
1/2	3/4	1/4	8.31	8.64	11.34	8.89	9.41	12.56
9/16	13/16	1/4	—	10.11	13.46	—	11.02	14.69
5/8	7/8	1/4	—	12.05	15.78	—	12.89	17.40
3/4	1"	1/4	—	16.43	21.65	—	17.78	23.84

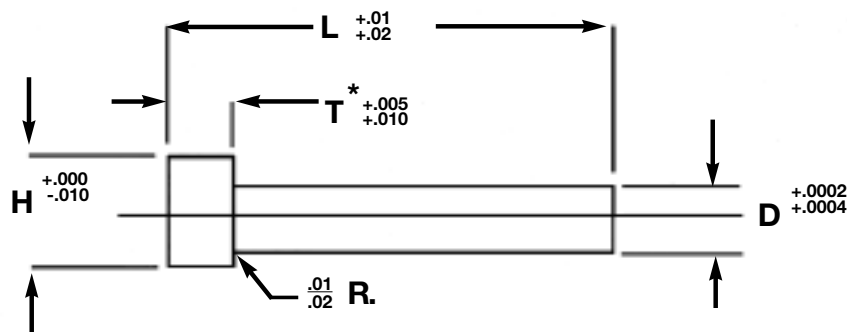


- Standard Hardness R/C 30 - 35
- High Hardness R/C 50 - 54
- Air Hardening Hot Work Die Steel
- Precision Ground After Heat Treating
- Heads Forged and Annealed

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PUNCH BLANKS



*OPTIONAL T, A-2 AND M-2 ONLY

Body Diameter D	Diameter H	T*	L Length 1/4" Increments	Price				
				A-2	M-2	D-2	PM M-4	PM 10V
1/8	1/4	1/8 (3/16)	1 1/4 - 3	7.95	9.18	9.45	11.86	13.26
3/16	5/16	1/8 (3/16)	1 1/4 - 3 1/2	8.03	9.77	10.06	12.98	16.06
1/4	3/8	3/16 (1/8)	1 1/4 - 3 1/2	8.25	10.00	10.06	13.61	16.33
5/16	7/16	3/16 (1/8)	1 1/4 - 4	8.43	10.52	10.84	14.78	17.98
3/8	1/2	3/16 (1/8)	1 1/4 - 4	8.85	11.13	11.46	16.12	20.12
7/16	9/16	3/16	1 1/4 - 4	10.66	13.51	13.92	19.66	24.65
1/2	5/8	3/16	1 1/4 - 4	11.29	14.76	15.21	21.34	27.77
5/8	3/4	3/16 (1/4)	1 1/4 - 4	14.35	19.32	19.90	28.30	37.38
3/4	7/8	3/16 (1/4)	1 1/4 - 4	20.64	26.41	27.20	38.66	49.52
1	1 1/8	3/16 (1/4)	1 1/4 - 4	32.34	42.37	43.64	61.69	80.44

EXTRA LONG 6" AND 8"

Body Diameter D	Diameter H	Head Thickness T	Price			
			6"		8"	
			A-2	M-2	A-2	M-2
1/8	1/4	1/8	13.91	16.04	18.50	21.33
3/16	5/16	1/8	14.05	16.77	18.68	22.73
1/4	3/8	3/16	14.42	17.49	19.02	23.26
5/16	7/16	3/16	14.77	18.41	19.65	24.51
3/8	1/2	3/16	15.51	19.48	20.63	25.90
7/16	9/16	3/16	18.67	26.61	24.83	31.47
1/2	5/8	3/16	19.76	25.82	26.26	34.34
5/8	3/4	3/16	25.11	33.82	33.41	44.98
3/4	7/8	3/16	36.14	43.21	48.05	61.46
1"	1 1/8	3/16	56.57	74.13	75.25	98.59

M-2 R/C 60-62 D-2 R/C 61-63
 A-2 R/C 60-62 PM-M4 R/C 61-63
 PM-10V R/C 61-63

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