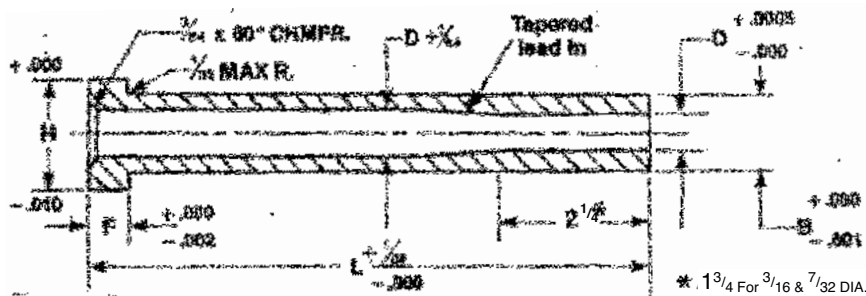


# NITRIDED EJECTOR SLEEVES



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**

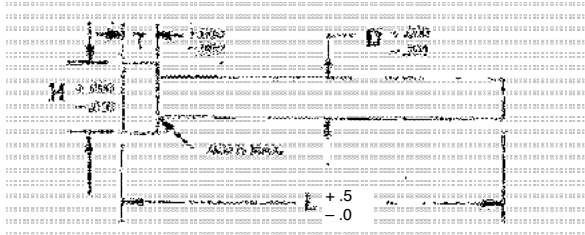
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# EJECTOR PINS

## 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	6.98	8.77	—	—
1/16	1/4	1/8	6.50	8.38	—	—
5/64	1/4	1/8	6.50	7.84	—	—
3/32	1/4	1/8	5.85	6.59	—	—
7/64	1/4	1/8	5.85	6.59	—	—
1/8	1/4	1/8	3.20	3.56	4.48	10.32
9/64	1/4	1/8	3.70	3.81	5.20	9.83
5/32	9/32	5/32	3.34	3.71	4.79	6.68
11/64	11/32	3/16	3.98	4.05	5.37	—
3/16	3/8	3/16	3.48	3.99	5.29	6.95
13/64	3/8	3/16	—	4.44	5.70	5.79
7/32	13/32	3/16	3.71	4.43	5.88	5.67
15/64	13/32	3/16	—	4.85	6.28	—
1/4	7/16	3/16	3.99	4.95	6.25	8.02
17/64	7/16	1/4	—	5.70	6.84	—
9/32	7/16	1/4	4.67	5.93	7.03	9.39
19/64	1/2	1/4	—	6.25	7.85	—
5/16	1/2	1/4	5.13	6.59	7.85	10.32
21/64	9/16	1/4	—	7.03	9.17	—
11/32	9/16	1/4	5.75	7.37	9.29	—
23/64	5/8	1/4	—	7.85	9.94	—
3/8	5/8	1/4	6.08	8.19	10.03	13.53
13/32	11/16	1/4	6.70	9.13	11.81	15.55
7/16	11/16	1/4	7.37	10.03	12.78	17.35
15/32	3/4	1/4	9.47	10.99	18.30	19.16
1/2	3/4	1/4	8.81	11.94	15.72	20.74
9/16	13/16	1/4	10.89	14.87	18.92	24.71
5/8	7/8	1/4	12.63	17.45	21.96	28.53
11/16	13/16	1/4	16.62	20.56	29.02	33.64
3/4	1"	1/4	17.60	23.63	30.08	38.48
7/8	1-1/8	1/4	38.52	45.30	76.96	108.69
1"	1-1/4	1/4	40.35	45.30	89.19	115.39

### .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	8.65	—
1/16	1/4	1/8	9.77	—
5/64	1/4	1/8	9.77	—
3/32	1/4	1/8	8.57	—
7/64	1/4	1/8	8.57	—
1/8	1/4	1/8	6.14	4.77
9/64	1/4	1/8	4.33	—
5/32	9/32	5/32	6.19	5.29
11/64	11/32	3/16	4.59	—
3/16	3/8	3/16	6.62	5.70
13/64	3/8	3/16	4.39	—
7/32	13/32	3/16	6.42	—
1/4	7/16	3/16	6.47	6.94
9/32	7/16	1/4	6.86	—
5/16	1/2	1/4	6.90	8.74
11/32	9/16	1/4	7.60	—
23/64	5/8	1/4	7.52	—
3/8	5/8	1/4	8.49	10.98
13/32	11/16	1/4	9.44	—
7/16	11/16	1/4	10.42	13.97
15/32	3/4	1/4	11.37	—
1/2	3/4	1/4	12.49	16.68

ALSO AVAILABLE IN METRIC SIZES

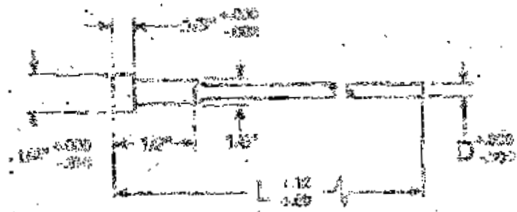
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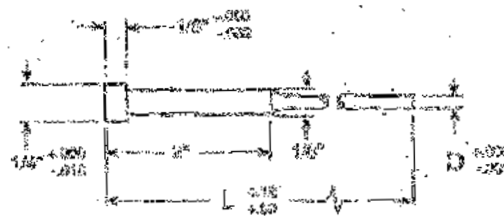
# EJECTOR PINS

## 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



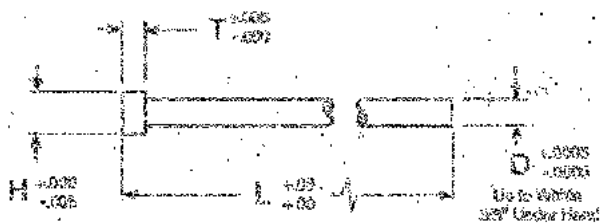
2" SHOULDER PINS

D Pin Dia.	LENGTH		
	6"	10"	14"
3/64	6.50	8.22	10.54
3/64 O.S.*	—	9.06	—
1/16	6.17	7.69	9.91
1/16 O.S.*	—	8.57	—
5/64	6.17	7.69	10.04
5/64 O.S.*	—	8.57	—
3/32	5.53	7.00	9.52
3/32 O.S.*	—	7.86	—
7/64	5.53	7.00	9.52
7/64 O.S.*	—	7.86	—

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

D Pin Dia.	LENGTH		
	6"	10"	14"
3/64	6.32	7.28	9.66
3/64 O.S.*	—	8.74	—
1/16	6.10	7.34	8.51
1/16 O.S.*	—	8.22	—
5/64	6.10	7.34	9.04
5/64 O.S.*	—	8.22	—
3/32	5.28	6.62	8.67
3/32 O.S.*	—	7.51	—
7/64	5.28	6.62	8.48
7/64 O.S.*	—	7.73	—

## 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	4.39	5.52	—
5/64	9/64	3/64	4.06	5.11	—
3/32	5/32	5/64	3.92	4.94	—
7/64	3/16	5/64	4.06	5.08	—
1/8	7/32	3/32	3.55	4.46	5.89
9/64	1/4	7/64	3.55	4.46	5.89
5/32	17/64	1/8	3.55	4.46	5.89
11/64	5/16	1/8	3.74	4.63	6.07
3/16	5/16	9/64	3.74	4.63	6.07
13/64	11/32	5/32	4.05	4.77	6.22

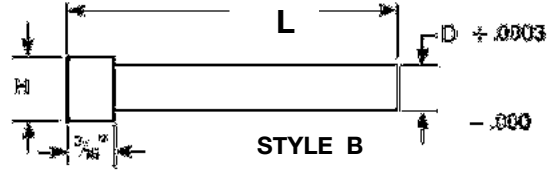
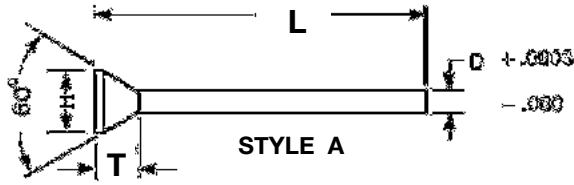
BODY DIA (D)	HEAD DIA (H)	HEAD THICK (T)	PRICE EACH		
			4"	6"	10"
7/32	3/8	5/32	4.34	5.08	6.55
15/64	13/32	11/64	4.46	5.38	6.74
1/4	7/16	3/16	4.46	5.38	6.74
17/64	7/16	1/4	5.23	5.67	6.87
9/32	7/16	1/4	5.23	5.67	6.87
19/64	1/2	1/4	5.52	5.83	7.19
5/16	1/2	1/4	5.52	5.83	7.19
21/64	9/16	1/4	5.71	6.15	8.06
11/32	9/16	1/4	5.71	6.15	8.06
23/64	5/8	1/4	5.83	6.45	8.73
3/8	5/8	1/4	5.83	6.45	8.73

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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" = 35.00

6" - 8" = 45.00

Dia. "D" Increment of .001	H	T	2 1/2"	3 1/2"	4"	6"	8"	10"	12"
.010 - .014	1/32	1/16	2" 5.63   6.77	9.02	12.15	—	—	—	—
.015 - .019	1/32	1/16	2" 4.66   5.63	7.78	11.27	—	—	—	—
.020 - .029	3/64	1/16	2" 3.76   4.55	6.77	10.28	—	—	—	—
.030 - .036	1/16	1/16	3.13	6.24	9.27	—	—	—	—
.037 - .046	5/64	1/16	3.13	6.24	8.58	15.70	25.80	—	—
.047 - .055	3/32	5/64	3.13	5.18	8.06	15.38	24.12	—	—
.056 - .064	7/64	5/64	4.18	5.33	8.19	14.98	26.12	—	—
.065 - .078	1/8	5/64	4.18	5.33	8.19	14.98	25.09	—	—
.079 - .087	9/64	3/32	4.18	5.33	8.19	14.98	24.10	—	—
.088 - .099	5/32	3/32	4.63	5.79	7.61	14.24	21.85	—	—
.100 - .120	11/64	3/32	4.63	5.79	7.61	14.24	21.85	—	—
.121 - .131	3/16	3/32	4.63	5.79	7.61	14.24	21.85	30.46	39.34
.132 - .147	13/64	3/32	4.95	6.10	7.90	13.34	20.35	28.45	36.60
.148 - .163	7/32	3/32	4.95	6.10	7.90	13.34	20.35	28.45	36.60
.164 - .179	15/64	3/32	4.95	6.10	7.90	13.34	20.35	28.45	36.60
.180 - .194	1/4	3/32	5.63	6.93	8.63	15.40	23.10	32.33	41.58
.195 - .210	17/64	3/32	5.63	6.93	8.63	15.40	23.10	32.33	41.58
.211 - .225	9/32	3/32	5.63	6.93	8.63	15.40	23.10	32.33	41.58
.226 - .241	19/64	3/32	6.66	7.87	9.56	16.54	24.61	34.46	44.36
.242 - .257	5/16	3/32	6.66	7.87	9.56	16.54	24.61	34.46	44.36
.258 - .272	21/64	3/16	6.66	7.87	9.56	16.54	24.61	34.46	44.36
.273 - .288	11/32	3/16	6.66	7.87	9.56	16.54	24.61	34.46	44.36
.289 - .304	23/64	3/16	7.72	9.74	10.79	19.62	27.64	38.72	49.66
.305 - .320	3/8	3/16	7.72	9.74	10.79	19.62	27.64	38.72	49.66
.321 - .336	25/64	3/16	7.72	9.74	10.79	19.62	27.64	38.72	49.66
.337 - .352	13/32	3/16	9.47	11.01	12.78	22.08	31.96	44.76	57.56
.353 - .368	27/64	3/16	9.47	11.01	12.78	22.08	31.96	44.76	57.56
.369 - .375	7/16	3/16	9.47	11.01	12.78	22.08	31.96	44.76	57.56
.376 - .436	D +.06 +.09	3/16	11.48	13.61	15.64	24.95	34.98	49.01	62.95
.437 - .484		3/16	13.05	16.11	18.29	27.82	37.98	53.16	68.35
.485 - .562		3/16	14.64	18.80	20.42	29.20	39.48	55.27	71.10
.563 - .625		3/16	16.62	22.05	23.97	32.81	43.08	60.44	77.55
.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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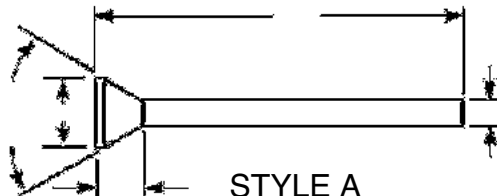
# STEEL PUNCHES

## QUOTATION REQUEST FORM

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



STYLE B



STYLE A

MATERIAL

HARDNESS  
R/C

QUANTITY

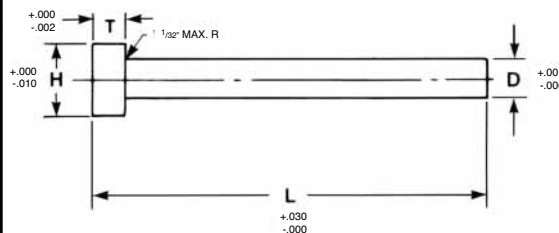
**PLEASE INCLUDE ALL TOLERANCES AND CONCENTRICITY REQUIREMENTS**

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	6.73	6.93	8.04	7.10	7.42	8.73
7/64	1/4	1/8	6.93	7.17	8.51	7.35	7.56	9.12
1/8	1/4	1/8	4.22	4.28	5.69	4.44	4.68	6.00
9/64	1/4	1/8	4.22	4.37	5.69	4.44	4.84	6.00
5/32	9/32	5/32	4.28	4.44	5.78	4.68	4.84	6.00
11/64	11/32	3/16	4.28	4.44	6.00	4.75	4.92	6.41
3/16	3/8	3/16	4.37	4.54	6.09	4.75	5.07	6.41
13/64	3/8	3/16	4.44	4.68	6.17	4.84	5.15	6.61
7/32	13/32	3/16	4.54	4.84	6.41	4.92	5.23	6.61
1/4	7/16	3/16	4.92	5.15	6.87	5.31	5.62	7.17
9/32	7/16	1/4	5.37	5.62	7.48	5.85	6.17	8.04
5/16	1/2	1/4	6.00	6.17	8.29	6.48	6.73	8.90
11/32	9/16	1/4	6.48	6.73	8.90	7.03	7.42	9.82
3/8	5/8	1/4	7.17	7.48	9.82	7.72	8.11	10.77
13/32	11/16	1/4	7.72	8.04	10.68	8.29	8.82	11.71
7/16	11/16	1/4	8.59	8.82	11.71	9.21	9.68	12.85
15/32	3/4	1/4	9.21	9.68	12.79	9.99	10.53	14.12
1/2	3/4	1/4	10.06	10.46	13.73	10.77	11.38	15.21
9/16	13/16	1/4	—	12.24	16.32	—	13.34	17.79
5/8	7/8	1/4	—	14.59	19.11	—	15.60	21.08
3/4	1"	1/4	—	19.88	26.20	—	21.52	28.86



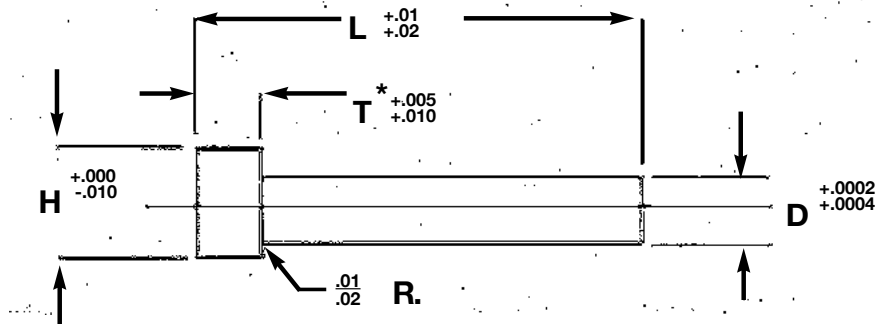
- Standard Hardness R/C 30 - 35
- High Hardness R/C 50 - 54
- Air Hardening Hot Work Die Steel
- Precision Ground After Heat Treating
- Heads Forged and Annealed

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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	10.63	11.69	13.45	16.84	19.60
3/16	5/16	1/8 (3/16)	1 1/4 - 3 1/2	10.76	12.59	14.17	18.55	21.55
1/4	3/8	3/16 (1/8)	1 1/4 - 3 1/2	11.06	13.10	14.60	19.46	23.67
5/16	7/16	3/16 (1/8)	1 1/4 - 4	12.84	15.26	15.71	20.60	25.27
3/8	1/2	3/16 (1/8)	1 1/4 - 4	16.75	19.24	19.56	23.80	27.44
7/16	9/16	3/16	1 1/4 - 4	19.12	21.41	22.07	28.69	33.52
1/2	5/8	3/16	1 1/4 - 4	20.52	24.28	25.03	30.27	37.47
5/8	3/4	3/16 (1/4)	1 1/4 - 4	23.32	26.58	28.13	40.25	49.38
3/4	7/8	3/16 (1/4)	1 1/4 - 4	28.41	33.61	35.34	52.15	64.84
1	1 1/8	3/16 (1/4)	1 1/4 - 4	41.18	53.93	56.54	78.52	102.39

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	19.07	23.05	24.98	28.58
3/16	5/16	1/8	20.56	24.01	25.25	30.04
1/4	3/8	3/16	21.89	25.27	26.33	31.48
5/16	7/16	3/16	26.55	30.62	32.28	38.85
3/8	1/2	3/16	28.54	36.68	37.88	44.94
7/16	9/16	3/16	31.64	39.32	41.57	50.17
1/2	5/8	3/16	33.08	40.64	42.48	54.44
5/8	3/4	3/16	35.06	47.60	54.40	68.74
3/4	7/8	3/16	46.00	58.99	64.55	79.01
1"	1 1/8	3/16	72.01	94.34	98.28	125.49

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