



**NITRIDED EJECTOR PINS**  
PARALLEL



**NITRIDED EJECTOR PINS**  
SHOULDER



**THRU-HARD EJECTOR PINS**  
PARALLEL & SHOULDER



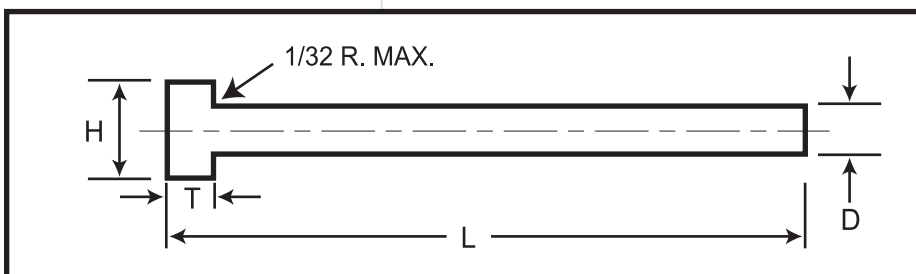
**STANDARD CORE PINS**  
STANDARD & HIGH HARDNESS





- Material: H-13 HOTWORK DIE STEEL
- Core Hardness: 40-45 Rc
- Surface Hardness: ION NITRIDED TO 65-74 Rc

| TOLERANCES         |                 |
|--------------------|-----------------|
| PIN DIAMETER (D)   | - .0003/- .0006 |
| HEAD DIAMETER (H)  | + .000/- .010   |
| HEAD THICKNESS (T) | + .000/- .002   |
| LENGTH (L)         | + .062/- .000   |



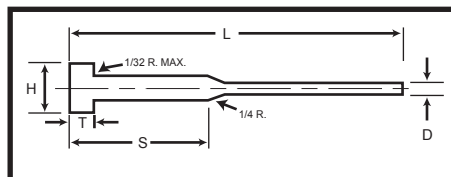
| D        | H         | T          | L-6"     | L-10"    |                   | L-14"    |                   | L-18"    |                   | L-25"    | L-36"    |
|----------|-----------|------------|----------|----------|-------------------|----------|-------------------|----------|-------------------|----------|----------|
| PIN DIA. | HEAD DIA. | HEAD THICK | 'D' STD. | 'D' STD. | 'D' .005 OVERSIZE | 'D' STD. | 'D' .005 OVERSIZE | 'D' STD. | 'D' .005 OVERSIZE | 'D' STD. | 'D' STD. |
| 3/64     | 1/4       | 1/8        | EP04L06P | -        | -                 | -        | -                 | -        | -                 | -        | -        |
| 1/16     | 1/4       | 1/8        | EP06L06P | -        | -                 | -        | -                 | -        | -                 | -        | -        |
| 5/64     | 1/4       | 1/8        | EP07L06P | -        | -                 | -        | -                 | -        | -                 | -        | -        |
| 3/32     | 1/4       | 1/8        | EP09L06P | EP09L10P | -                 | -        | -                 | -        | -                 | -        | -        |
| 7/64     | 1/4       | 1/8        | EP10L06P | EP10L10P | -                 | -        | -                 | -        | -                 | -        | -        |
| 1/8      | 1/4       | 1/8        | EP12L06  | EP12L10  | EP12L105          | EP12L14  | EP12L145          | -        | -                 | -        | -        |
| 9/64     | 1/4       | 1/8        | -        | EP14L10  | -                 | EP14L14  | -                 | -        | -                 | -        | -        |
| 5/32     | 9/32      | 5/32       | EP15L06  | EP15L10  | EP15L105          | EP15L14  | EP15L145          | EP15L18  | -                 | -        | -        |
| 11/64    | 11/32     | 3/16       | -        | EP17L10  | -                 | EP17L14  | -                 | -        | -                 | -        | -        |
| 3/16     | 3/8       | 3/16       | EP18L06  | EP18L10  | EP18L105          | EP18L14  | EP18L145          | EP18L18  | -                 | EP18L25  | -        |
| 13/64    | 3/8       | 3/16       | -        | EP20L10  | -                 | EP20L14  | -                 | -        | -                 | -        | -        |
| 7/32     | 13/32     | 3/16       | EP21L06  | EP21L10  | EP21L105          | EP21L14  | -                 | -        | -                 | EP21L25  | -        |
| 15/64    | 13/32     | 3/16       | -        | EP23L10  | -                 | EP23L14  | -                 | -        | -                 | -        | -        |
| 1/4      | 7/16      | 3/16       | EP25L06  | EP25L10  | EP25L105          | EP25L14  | EP25L145          | EP25L18  | EP25L185          | EP25L25  | EP25L36  |
| 17/64    | 7/16      | 1/4        | -        | EP26L10  | -                 | EP26L14  | -                 | -        | -                 | EP26L25  | -        |
| 9/32     | 7/16      | 1/4        | EP28L06  | EP28L10  | EP28L105          | EP28L14  | -                 | EP28L18  | -                 | EP28L25  | -        |
| 19/64    | 1/2       | 1/4        | -        | EP29L10  | -                 | EP29L14  | -                 | -        | -                 | -        | -        |
| 5/16     | 1/2       | 1/4        | EP31L06  | EP31L10  | EP31L105          | EP31L14  | EP31L145          | EP31L18  | EP31L185          | EP31L25  | EP31L36  |
| 21/64    | 9/16      | 1/4        | -        | EP32L10  | -                 | EP32L14  | -                 | -        | -                 | EP32L25  | -        |
| 11/32    | 9/16      | 1/4        | EP34L06  | EP34L10  | EP34L105          | EP34L14  | -                 | -        | -                 | EP34L25  | -        |
| 22/64    | 5/8       | 1/4        | -        | EP35L10  | -                 | EP35L14  | -                 | -        | -                 | -        | -        |
| 3/8      | 5/8       | 1/4        | EP37L06  | EP37L10  | EP37L105          | EP37L14  | EP37L145          | EP37L18  | EP37L185          | EP37L25  | EP37L36  |
| 13/32    | 11/16     | 1/4        | EP40L06  | EP40L10  | EP40L105          | EP40L14  | -                 | EP40L18  | -                 | EP40L25  | -        |
| 7/16     | 11/16     | 1/4        | EP43L06  | EP43L10  | EP43L105          | EP43L14  | EP43L145          | EP43L18  | -                 | EP43L25  | EP43L36  |
| 15/32    | 3/4       | 1/4        | -        | EP46L10  | EP46L105          | -        | -                 | EP46L18  | -                 | EP46L25  | -        |
| 1/2      | 3/4       | 1/4        | EP50L06  | EP50L10  | EP50L105          | EP50L14  | EP50L145          | EP50L18  | -                 | EP50L25  | EP50L36  |
| 9/16     | 13/16     | 1/4        | EP56L06  | EP56L10  | -                 | EP56L14  | -                 | EP56L18  | -                 | EP56L25  | -        |
| 5/8      | 7/8       | 1/4        | EP62L06  | EP62L10  | -                 | EP62L14  | -                 | EP62L18  | -                 | EP62L25  | EP62L36  |
| 11/16    | 15/16     | 1/4        | -        | EP68L10  | -                 | -        | -                 | EP68L18  | -                 | EP68L25  | -        |
| 3/4      | 1"        | 1/4        | EP75L06  | EP75L10  | -                 | EP75L14  | -                 | EP75L18  | -                 | EP75L25  | -        |
| 7/8      | 1 1/8     | 1/4        | -        | EP87L10  | -                 | -        | -                 | EP87L18  | -                 | EP87L25  | -        |
| 1"       | 1 1/4     | 1/4        | EP90L06  | EP90L10  | -                 | EP90L14  | -                 | EP90L18  | -                 | EP90L25  | -        |

# NITRIDED EJECTOR PINS

## SHOULDER



| D        | H         | T           | S             | L-6"                | L-10"               |                       | L-14"        |
|----------|-----------|-------------|---------------|---------------------|---------------------|-----------------------|--------------|
| PIN DIA. | HEAD DIA. | HEAD THICK. | SHLDR. LENGTH | 'D' STD.            | 'D' STD.            | 'D' .005 OVER-SIZE    | 'D' STD.     |
| 1/32     | 1/4       | 1/8         | 1/2<br>2      | EP03L06S<br>EP03L06 | -<br>-              | -<br>-                | -<br>-       |
| 3/64     | 1/4       | 1/8         | 1/2<br>2      | EP04L06S<br>EP04L06 | EP04L10S<br>EP04L10 | EP04L105S<br>EP04L105 | -<br>EP04L14 |
| 1/16     | 1/4       | 1/8         | 1/2<br>2      | EP06L06S<br>EP06L06 | EP06L10S<br>EP06L10 | EP06L105S<br>EP06L105 | -<br>EP06L14 |
| 5/64     | 1/4       | 1/8         | 1/2<br>2      | EP07L06S<br>EP07L06 | EP07L10S<br>EP07L10 | EP07L105S<br>EP07L105 | -<br>EP07L14 |
| 3/32     | 1/4       | 1/8         | 1/2<br>2      | EP09L06S<br>EP09L06 | EP09L10S<br>EP09L10 | EP09L105S<br>EP09L105 | -<br>EP09L14 |
| 7/64     | 1/4       | 1/8         | 1/2<br>2      | EP10L06S<br>EP10L06 | EP10L10S<br>EP10L10 | EP10L105S<br>EP10L105 | -<br>EP10L14 |



| TOLERANCES              |                 |
|-------------------------|-----------------|
| PIN DIAMETER (D)        | - .0003/- .0006 |
| SHOULDER DIAMETER (1/8) | + .000/- .003   |
| HEAD DIAMETER (H)       | + .000/- .010   |
| HEAD THICKNESS (T)      | + .000/- .002   |
| LENGTH (L)              | + .062/- .000   |

- Material: H-13 HOTWORK DIE STEEL
- Core Hardness: 40-45 Rc
- Surface Hardness: ION NITRIDED TO 65-74 Rc

# THRU-HARD EJECTOR PINS

## PARALLEL & SHOULDER

| D        | H         | T           | S             | L-6"                  | L-10"    |
|----------|-----------|-------------|---------------|-----------------------|----------|
| PIN DIA. | HEAD DIA. | HEAD THICK. | SHLDR. LENGTH | 'D' STD.              | 'D' STD. |
| 1/16     | 1/4       | 1/8         | 1/2<br>2      | EPH06L06S<br>EPH06L06 | -<br>-   |
| 5/64     | 1/4       | 1/8         | 1/2<br>2      | EPH07L06S<br>EPH07L06 | -<br>-   |
| 3/32     | 1/4       | 1/8         | 1/2<br>2      | EPH09L06S<br>EPH09L06 | -<br>-   |
| 3/32     | 1/4       | 1/8         | -             | EPH09L06P             | -        |
| 1/8      | 1/4       | 1/8         | -             | EPH12L06              | EPH12L10 |
| 5/32     | 9/32      | 5/32        | -             | EPH15L06              | EPH15L10 |
| 3/16     | 3/8       | 3/16        | -             | EPH18L06              | EPH18L10 |
| 7/32     | 13/32     | 3/16        | -             | -                     | EPH21L10 |
| 1/4      | 7/16      | 3/16        | -             | EPH25L06              | EPH25L10 |
| 5/16     | 1/2       | 1/4         | -             | EPH31L06              | EPH31L10 |
| 3/8      | 5/8       | 1/4         | -             | EPH37L06              | EPH37L10 |
| 7/16     | 11/16     | 1/4         | -             | -                     | EPH43L10 |
| 1/2      | 3/4       | 1/4         | -             | EPH50L06              | EPH50L10 |

- Annealed for easy machining
- 50-55 Rc core hardness
- 65-74 Rc provides non-chipping surface
- 5-10 microinch RMS final finish prolongs pin life



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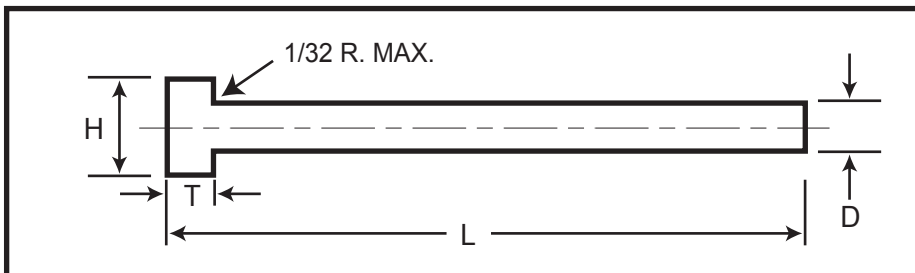
NITRIDED EJECTOR PINS  
SHOULDER

THRU-HARD EJECTOR PINS  
PARALLEL & SHOULDER



- Material: H-13 HOTWORK DIE STEEL
- Standard Hardness: CPS 30 - 35 Rc
- High Hardness: CPH 50 - 55 Rc

| TOLERANCES         |               |
|--------------------|---------------|
| PIN DIAMETER (D)   | + .001/- .000 |
| HEAD DIAMETER (H)  | + .000/- .010 |
| HEAD THICKNESS (T) | + .000/- .002 |
| LENGTH (L)         | + .030/- .000 |



| STANDARD HARDNESS |           |             |             |          |          |
|-------------------|-----------|-------------|-------------|----------|----------|
| D                 | H         | T           | L-3"        | L-6"     | L-10"    |
| PIN DIA.          | HEAD DIA. | HEAD THICK. | ITEM 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. | ITEM 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 |

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