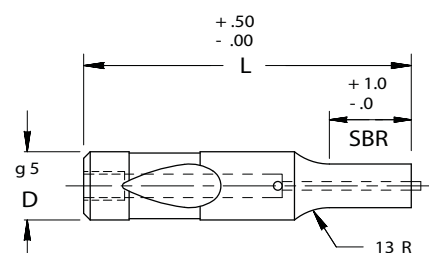
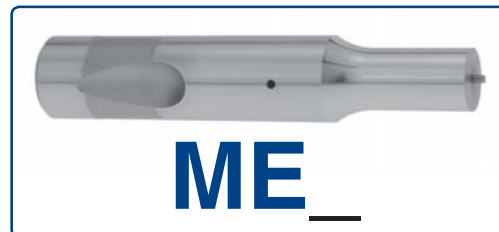
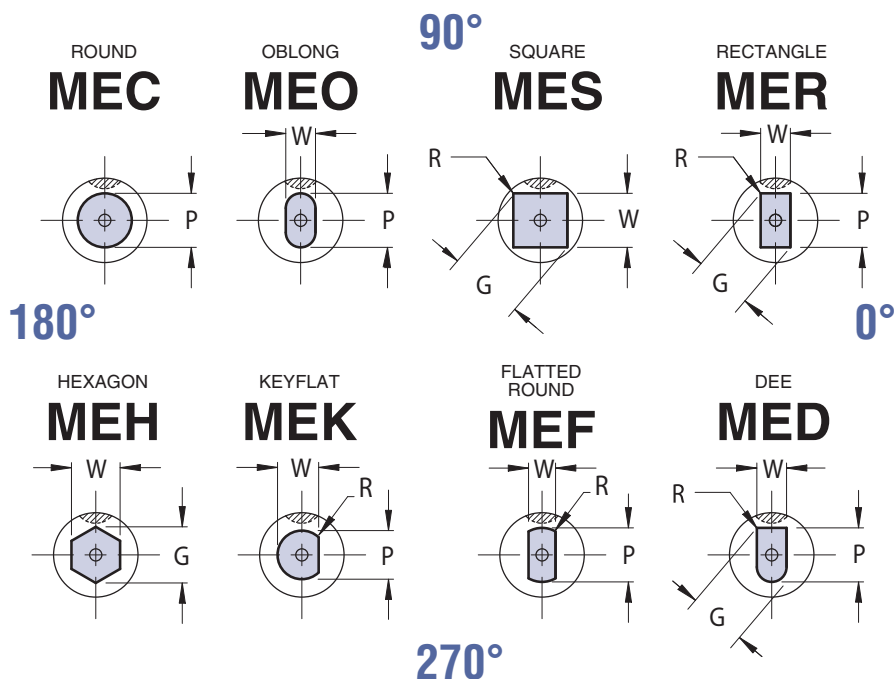


# BALL LOCK PUNCHES

## HEAVY DUTY/EJECTOR



### ORDER EXAMPLE:

(Reference page 4)

| SPECIFY: | QTY: | TYPE | "D" | "L" | POINT LENGTH | P(OR P&W) DIMENSIONS |
|----------|------|------|-----|-----|--------------|----------------------|
| EXAMPLE: | 6    | MEC  | 10  | 90  | B            | 5.0                  |
| EXAMPLE: | 6    | MEO  | 16  | 80  | STD          | 14.0 x 8.0           |

Note: When ordering, standard quantity breaks are: 1, 2-3, 4-11, 12-23, 24-49, 50-99

VIEWS ARE SHOWN LOOKING THROUGH THE SHANK BUT DRAWN WITH SOLID LINES FOR CLARITY.

FOR STANDARD ALTERATIONS SEE PAGES 59-63.

Complete design & CAD files visit [WWW.MOELLERMCD.COM](http://WWW.MOELLERMCD.COM)

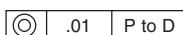
| CATALOG TYPE | SHANK DIA D | ROUND         | SHAPE |         | OVERALL LENGTH "L" |    |    |    |     |     |     |
|--------------|-------------|---------------|-------|---------|--------------------|----|----|----|-----|-----|-----|
|              |             | RANGE P       | MIN W | MAX G/P | 63                 | 71 | 80 | 90 | 100 | 110 | 125 |
| ME_10        | 10          | 2.50 - 9.98   | 2.50  | 10.00   | X                  | X  | X  | X  | X   | X   |     |
| ME_13        | 13          | 5.00 - 12.98  | 4.50  | 13.00   | X                  | X  | X  | X  | X   | X   | X   |
| ME_16        | 16          | 8.00 - 15.98  | 6.00  | 16.00   | X                  | X  | X  | X  | X   | X   | X   |
| ME_20        | 20          | 12.00 - 19.98 | 8.00  | 20.00   | X                  | X  | X  | X  | X   | X   | X   |
| ME_25        | 25          | 16.00 - 24.98 | 10.00 | 25.00   |                    |    | X  | X  | X   | X   | X   |
| ME_32        | 32          | 24.00 - 31.98 | 12.00 | 32.00   |                    |    | X  | X  | X   | X   | X   |
| ME_40        | 40          | 30.00 - 39.98 | 14.00 | 40.00   |                    |    | X  | X  | X   | X   | X   |

### Material

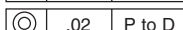
Steel: M2, HRC 60-63

### Standard Point Tolerance

Round P  $\begin{smallmatrix} +.01 \\ -.00 \end{smallmatrix}$



Shape P, W  $\pm .01$



When P = D Shank Tolerances Apply

| CATALOG TYPE | SHANK D | SBR       |              |    | EJECTOR SIZE |
|--------------|---------|-----------|--------------|----|--------------|
|              |         | NAPMA STD | ALTERNATES B | C  |              |
| ME_10        | 10      | 19        | 10           | —  | MAE 4        |
| ME_13        | 13      | 19        | 13           | 25 | MAE 5        |
| ME_16        | 16      | 19        | 13           | 25 | MAE 5        |
| ME_20        | 20      | 19        | 13           | 25 | MAE 6        |
| ME_25        | 25      | 19        | 13           | 25 | MAE 6        |
| ME_32        | 32      | 19        | 13           | 25 | MAE 6        |
| ME_40        | 40      | 25        | 19           | 30 | MAE 6        |

L=63 SBR MAX=19

L=71 SBR MAX=19

XP ALTERATION NOT AVAILABLE

IF L=63 AND SBR=19

STANDARD BALL SEAT LOCATION IS AT 90° AS SHOWN. AVAILABLE AT 0°, 180°, 270°, FOR SAME PRICE.