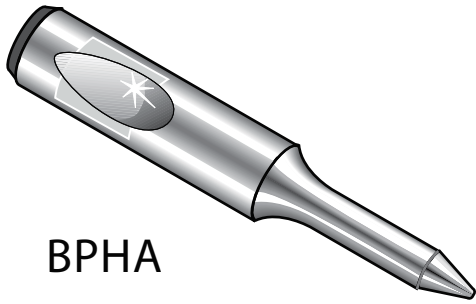


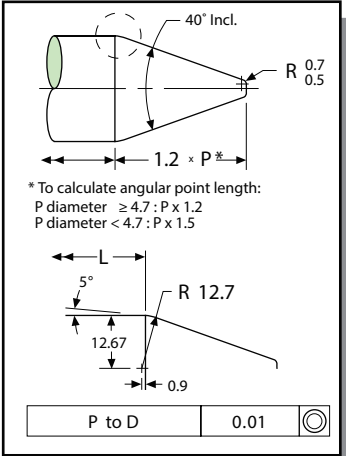
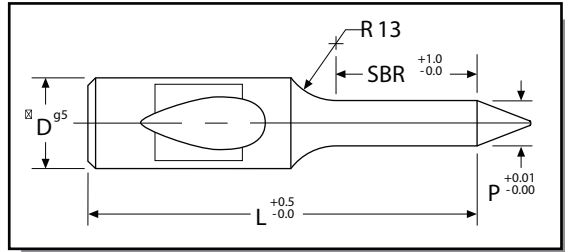


Ball-Lock Punch Heavy-Duty Angular Pilot



Ordering Example:
(12) BPHA 10-19-71 M2 P5.

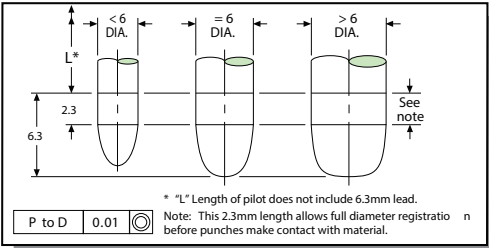
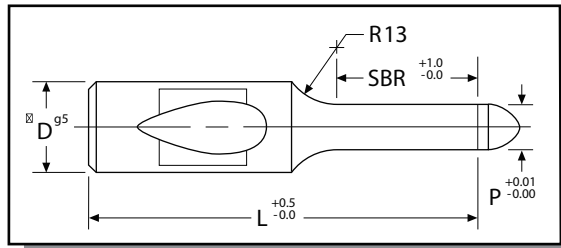
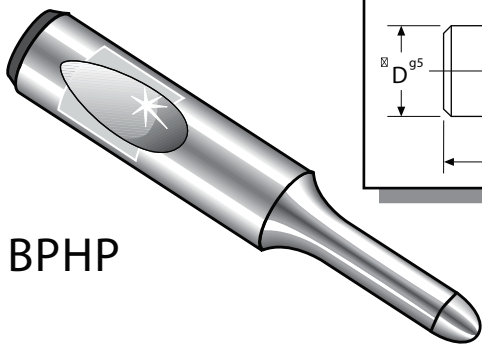
M2, R/c 60-63 triple tempered



| Type | "D" | Point Length "SBR" | | | | | Length "L" | | | | | | | | | | Min. "P" |
|------|-----|--------------------|----|----|----|----|------------|----|----|----|-----|-----|-----|-----|-----|------|----------|
| | | 10 | 13 | 19 | 25 | 32 | 63 | 71 | 80 | 90 | 100 | 110 | 125 | 140 | 150 | | |
| BPHA | 10 | 10 | 13 | 19 | | | 63 | 71 | 80 | 90 | 100 | 110 | | | | 1.3 | |
| BPHA | 13 | | 13 | 19 | | | | 71 | 80 | 90 | 100 | 110 | 125 | 140 | | 2.0 | |
| BPHA | 16 | | 13 | 19 | 25 | | | 71 | 80 | 90 | 100 | 110 | 125 | 140 | 150 | 4.9 | |
| BPHA | 20 | | 13 | 19 | 25 | | | 71 | 80 | 90 | 100 | 110 | 125 | 140 | 150 | 5.9 | |
| BPHA | 25 | | 13 | 19 | 25 | | | | 80 | 90 | 100 | 110 | 125 | 140 | 150 | 7.9 | |
| BPHA | 32 | | 13 | 19 | 25 | | | | 80 | 90 | 100 | 110 | 125 | 140 | 150 | 9.9 | |
| BPHA | 40 | | | 19 | 25 | 32 | | | 80 | 90 | 100 | 110 | 125 | 140 | 150 | 11.9 | |



Ball-Lock Punch Heavy-Duty Parabolic Pilot



Ordering Example:
(15) BPHP 16-19-63 M2 P8.

M2, R/c 60-63 triple tempered

| Type | "D" | Point Length "SBR" | | | | | Length "L" | | | | | | | | | | Min. "P" |
|------|-----|--------------------|----|----|----|----|------------|----|----|----|-----|-----|-----|--|------|--|----------|
| | | 10 | 13 | 19 | 25 | 32 | 63 | 71 | 80 | 90 | 100 | 110 | 125 | | | | |
| BPHP | 10 | 10 | 13 | 19 | | | 63 | 71 | 80 | 90 | 100 | | | | 1.3 | | |
| BPHP | 13 | | 13 | 19 | | | 63 | 71 | 80 | 90 | 100 | 110 | 125 | | 2.0 | | |
| BPHP | 16 | | 13 | 19 | 25 | | 63 | 71 | 80 | 90 | 100 | 110 | 125 | | 4.9 | | |
| BPHP | 20 | | 13 | 19 | 25 | | 63 | 71 | 80 | 90 | 100 | 110 | 125 | | 5.9 | | |
| BPHP | 25 | | 13 | 19 | 25 | | 63 | 71 | 80 | 90 | 100 | 110 | 125 | | 7.9 | | |
| BPHP | 32 | | 13 | 19 | 25 | | | 71 | 80 | 90 | 100 | 110 | 125 | | 9.9 | | |
| BPHP | 40 | | | 19 | 25 | 32 | | | 80 | 90 | 100 | 110 | 125 | | 11.9 | | |

Made better to last longer

All specifications, dimensions and design characteristics shown are subject to change without notice

Quality Craftsmanship Assured