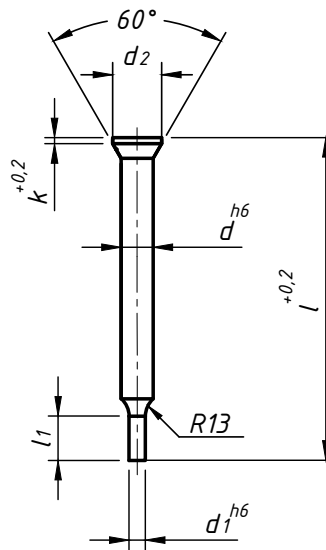


# Stepped Punches with Conical Head

DIN 9861  
Form C

**kalipyansan**

121.



| MATERIAL                        | BODY HARDNESS | HEAD HARDNESS | MATERIAL CODE |
|---------------------------------|---------------|---------------|---------------|
| HWS %12 Cr: 1.2379              | 62 ± 2 HRC    | 50 ± 3 HRC    | A2 (HWS)      |
| HSS: 1.3343                     | 64 ± 2 HRC    | 53 ± 3 HRC    | M2 (HSS)      |
| POWDER METAL: ASP 2023          | 64 ± 2 HRC    | 53 ± 3 HRC    | PM (PM4)      |
| PVD COATING: TiN / TiAlN / TiCN |               |               |               |

121.

| d1h6        | d2  | d  | k   | l1  |    |    | l + 0,2 |    |     |
|-------------|-----|----|-----|-----|----|----|---------|----|-----|
|             |     |    |     | 7   | 13 | 19 | 71      | 80 | 100 |
| 0,50 - 0,55 | 3   | 2  | 0.5 | •   |    |    | •       | •  | •   |
| 0,60 - 0,65 |     |    |     | •   |    |    | •       | •  | •   |
| 0,70 - 0,75 |     |    |     | •   |    |    | •       | •  | •   |
| 0,80 - 0,85 |     |    |     | •   |    |    | •       | •  | •   |
| 0,90 - 0,95 |     |    |     | •   |    |    | •       | •  | •   |
| 1,00 - 1,10 |     |    |     | •   |    |    | •       | •  | •   |
| 1,20 - 1,30 |     |    |     | •   |    |    | •       | •  | •   |
| 1,40 - 1,50 |     |    |     | •   |    |    | •       | •  | •   |
| 1,60 - 1,70 | 4,5 | 3  |     | •   |    |    | •       | •  | •   |
| 1,80 - 1,90 |     |    |     | •   |    |    | •       | •  | •   |
| 2,00 - 2,10 |     |    |     | •   |    |    | •       | •  | •   |
| 2,20 - 2,30 |     |    |     | •   |    |    | •       | •  | •   |
| 2,40 - 2,50 |     |    |     | •   |    |    | •       | •  | •   |
| 2,60 - 2,70 |     |    |     | •   |    |    | •       | •  | •   |
| 2,80 - 2,90 |     |    |     | •   |    |    | •       | •  | •   |
| 2,50 - 3,95 |     |    |     | 5,5 | 4  | •  |         |    | •   |
| 3,00 - 4,95 | 6,5 | 5  |     | •   | •  | •  | •       | •  |     |
| 3,50 - 5,95 | 8   | 6  |     | •   | •  | •  | •       | •  |     |
| 4,00 - 7,95 | 10  | 8  |     | •   | •  | •  | •       | •  |     |
| 5,00 - 9,95 | 12  | 10 | 1.0 |     | •  | •  | •       | •  |     |

## ORDER EXAMPLE

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|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Punch Code : 121.                    | Punch Code : 121.                    |
| Diameter (d=3,0) : 0300.             | Diameter (d=6,0) : 0600.             |
| Length (l=71) : 071.                 | Length (l=80) : 080.                 |
| Diameter (d1=2,1) : 0210.            | Diameter (d1=4,0) : 0400.            |
| Length (l1=7) : 07.                  | Length (l1=13) : 13.                 |
| Material Code : M2                   | Material Code : A2                   |
| Order Code : 121.0300.071.0210.07.M2 | Order Code : 121.0600.080.0400.13.A2 |