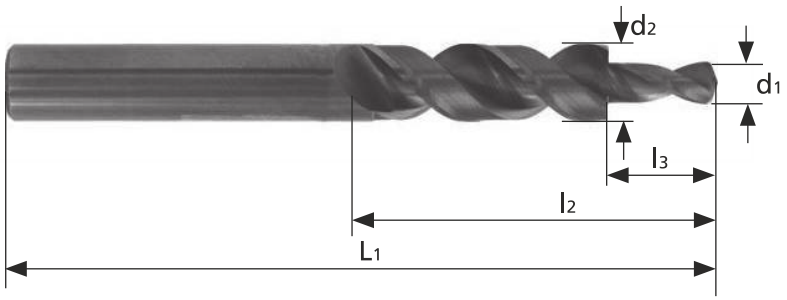
# 90° Stufenbohrer mit Zylinderschaft
# 90° foret étagé avec tige cylindrique
# 90° trapano a gradino con codolo cilindrico
# 90° step drills with straight shank




| 180° | HSS M2 | M |
|---|---|---|
| | | V / OX |
| | | RH |

| Material: | ALU 99.5% | ALU <10% Si | ALU Guss | Steel <500 N | Steel <750 N | Steel <900 N | Steel <1100 N | Steel 45 HRC |
|---|---|---|---|---|---|---|---|---|
| 121.MZY | 35 | 20 | 12 | 15 | 12 | 10 | ● | |
| | E | E | E | E | E | E | (E)Oel | |

| Material: | Steel 55 HRC | Steel 60 HRC | Steel 65 HRC | Inox <900 N | Inox >900 N | Ti >800 N | GG(G) | Hardox inconel |
|---|---|---|---|---|---|---|---|---|
| 121.MZY | | | | 6 | ● | | 8 | |
| | | | | Oel | Oel | | Air | |

| Ø Code | MF | $d_1$ mm | $d_2$ mm | $L_1$ mm | $l_2$ mm | $l_3$ mm | | | 121.MZY |
|---|---|---|---|---|---|---|---|---|---|
| 121.MZY.M030 | M3 | 3,4 | 6,0 | 66 | 28 | 9 | 1 | | |
| 121.MZY.M040 | M4 | 4,5 | 8,0 | 79 | 37 | 11 | 1 | | |
| 121.MZY.M050 | M5 | 5,5 | 10,0 | 89 | 43 | 13 | 1 | | |
| 121.MZY.M060 | M6 | 6,6 | 11,0 | 95 | 47 | 15 | 1 | | |
| 121.MZY.M080 | M8 | 9,0 | 15,0 | 111 | 56 | 19 | 1 | | |
| 121.MZY.M100 | M10 | 11,0 | 19,0 | 127 | 62 | 23 | 1 | | |