

SCIE-CIRCULAIRE-DENTURE-FINE-MD-H1S · SLITTING-SAW-FINE-PITCH-SC-H1S · KREISSÄGE-FEINVERZAHNT-HM-H1S



SWISS MADE

25500-40-0.5

Version 06.05.2026

H1S

H1S HIGH PRECISION CARBIDE DRILL

$\lambda = 0^\circ$
 $\gamma = 8^\circ$

TOOL ANGLES LAMBDA 0° GAMMA 8°

MATERIAL COMPATIBILITY

●●● Excellent (3/3) ●● Good (2/3) ●○ Possible (1/3) ○○○ Not recommended

| MATERIAL | SPECIFICATION | GRP | 25500-40-0.5 |
|---|------------------------------|-----|--------------|
| Alloyed and non-alloyed steels Non-alloyed steels | Rm < 450 N/mm ² | 1a | ●○○ |
| | Rm 450–700 N/mm ² | 1b | ●○○ |
| | Rm 700–900 N/mm ² | 1c | ●○○ |
| | Rm > 1200 N/mm ² | 1d | ●○○ |
| Stainless steels Stainless steels | Rm < 650 N/mm ² | 2a | ●○○ |
| | Rm 650–950 N/mm ² | 2b | ●○○ |
| | Rm > 950 N/mm ² | 2c | ●○○ |
| Hardened steels Hardened steels | 44–56 HRC | 3a | ○○○ |
| | 57–67 HRC | 3b | ○○○ |
| Exotic materials Special alloys | < 32 HRC | 4a | ○○○ |
| | > 32 HRC | 4b | ○○○ |
| Graphite Industrial graphite | | 5 | ●○○ |
| Cast iron Grey / nodular cast iron | < 32 HRC | 6a | ●○○ |
| | > 32 HRC | 6b | ●○○ |
| Titanium Titanium alloys | Rm < 600 N/mm ² | 7a | ●○○ |
| | 600 < Rm N/mm ² | 7b | ●○○ |
| Nickel alloys Inconel, Hastelloy | Rm < 1000 N/mm ² | 8a | ○○○ |
| | Rm > 1000 N/mm ² | 8b | ○○○ |
| Copper, brass, bronze Copper-based | Rm < 850 N/mm ² | 9a | ●●● |
| | Rm > 850 N/mm ² | 9b | ●●● |
| Aluminum Aluminum alloys | Si < 0.5% | 10a | ●●○ |
| | 0.5% < Si < 5% | 10b | ●●○ |
| | Si > 5% | 10c | ●○○ |
| Synthetic materials Engineering plastics | Thermoplastic | 11a | ●●○ |
| | Thermoset | 11b | ●●○ |
| Composite materials Reinforced composites | Glass fiber / GFK | 12a | ●○○ |
| | Carbon fiber / KFK | 12b | ●○○ |
| Precious metals Gold, platinum, silver | Gold | 13a | ●●● |
| | Platinum | 13b | ○○○ |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS | |
|--------------------|--------|
| D (0 / -0.01) | 40 mm |
| d (h5) | 10 mm |
| L | – |
| l1 | – |
| l3 | – |
| d3 | – |
| R | – |
| e | 0.5 mm |
| Z | 80 |
| Chamfer K | – |
| w° collision | – |



E-SHOP / EZI CUT
eskenazi.ch/eshop/25500-40-0.5

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